



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 2-6204-00059/00005
Effective Date: 10/03/2011 Expiration Date: No expiration date

Permit Issued To: MOUNT SINAI MEDICAL CENTER
1 GUSTAVE L LEVY PL
NEW YORK, NY 10029-6504

Contact: SALVATORE J TRANCHINA
MOUNT SINAI MEDICAL CENTER
1 GUSTAVE L LEVY PL
NEW YORK, NY 10029
(212) 659-9045

Facility: MOUNT SINAI HOSPITAL
1 GUSTAVE L LEVY PL | 1450 MADISON AVE
NEW YORK, NY 10029

Contact: VALERY BONDARCHUK
THE MOUNT SINAI MEDICAL CENTER
1 GUSTAVE L LEVY PL
NEW YORK, NY 10029-6574
(212) 241-7219

Description:

PERMIT DESCRIPTION
Mount Sinai Hospital
DEC ID # 2-6204-00059/00005 (ASF)

Mount Sinai Hospital, located at 1 Gustave Levy Place in New York, New York, is a complete research and teaching hospital and consists of the Mount Sinai Hospital and Mount Sinai School of Medicine.

This application is for the refurbishment or modification of designated boilers B0005 & B0006, and the new boiler replacement of designated boilers B0001, B0002, B0003 & B0004 in the Title V permit for Mount Sinai Hospital. Boilers B0005 & B0006 are two identical Erie City Keystone 16M boilers, each rated at 95 MM Btu of heat input per hour to generate 80,000 pounds of steam per hour at 125 psig. After the refurbishment, Boilers 5 & 6 (B0001 & B0006) will be essentially become Victory Energy boilers. Also, Boilers B0001, B0002, B0003 & B0004 will be replaced with four identical Victory Energy boilers, each rated at 60 MM Btu of heat input per hour to generate 50,000 pounds of steam per hour.



This project is being undertaken for two reasons: First, the existing boilers with the current NOx RACT curves are essentially limited from operating near the rated steam production capacity and future steam demand associated with a new building under construction will require the boilers to be operated near rated capacity. Second, NYSDEC has adopted a new NOx RACT Rule. The new rule requires that “mid-size” boilers achieve and maintain a NOx emission rate limit for boilers firing natural gas or distillate fuel oil of 0.08 lbs NOx per million Btus of heat input, on or after July 1, 2014. The existing Title V permit for Mount Sinai Hospital requires NOx emissions to be less than 0.30 lbs per million Btus when firing residual #6 fuel oil and 0.10 lbs per million Btus when firing natural gas. On or after July 1, 2014, 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.

An engineering study was done to assess the best way to upgrade the boilers for meeting the new NOx RACT conditions. The engineering study was performed in two phases. Phase I encompassed a review of future steam demand and the best technical and economic approach for all six boilers (Emission Sources B0001, B0002, B0003, B0004, B0005 & B0006 in Emission Unit U-C0001) of the Title V permit to achieve the required NOx emission limit of 0.08 lbs per million Btus of heat input on or after July 1, 2014. Phase II of the engineering study consisted of developing a conceptual cost estimate and project schedule, and purchase specifications for the boilers and general contractor.

On September 28, 2010, the facility issued a purchase order to Victory Energy for the purchase of the design and materials of the new replacement boilers, Boiler 1, Boiler 2, Boiler 3 & Boiler 4. The facility has proposed the following milestone dates for the project. The dates are subject to change based on the progress of this major construction project. The dates are listed in chronological sequence for the project of each boiler, beginning with Boiler 5 and ending with Boiler 2. The installation of the new replacement boilers, Boiler 1, Boiler 2, Boiler 3 and Boiler 4 will occur after the refurbishment of Boiler 5 and Boiler 6. Existing boilers Boilers 1, 2, 3 & 4 will be individually demolished and replaced by a new boiler to maintain hospital steam demand and reserve space for construction.

Project Milestone Dates

Milestone	Boiler 5	Boiler 6	Boiler 3	Boiler 1	Boiler 4	Boiler 2
Materials Purchase	9/28/10	9/28/10	9/28/10	9/28/10	9/28/10	9/28/10



Demolition	6/01/11	10/11/11	2/21/12	2/21/12	8/23/12	2/25/13
Construction	6/19/11	10/28/11	4/3/12	8/28/13	10/4/12	4/8/13
Initial Operation	9/06/11	1/17/12	7/19/12	12/13/13	1/21/13	7/24/13
Performance Testing	10/04/11	2/14/12	8/16/12	1/10/13	2/18/13	8/21/13

The performance testing will establish that performance guarantee and permit compliance are in effect and define the tolerances of specific parameters for NO_x emission compliance (air-to-fuel ratio) based upon optimizing the operation of the LNB – FGR technology for gas and fuel oil firing for each boiler. These new settings will replace the existing NO_x RACT curves for all six boilers. The upgrade of Boiler 5 and Boiler 6 and the replacement of Boiler 1, Boiler 2, Boiler 3 and Boiler 4 including LNG + FGR NO_x control technology is considered NO_x RACT with respect to NYSDEC's New NO_x Rule. Within one year of operation of the refurbished boilers and the last replacement boiler (Boiler 2), this Air State Facility permit will be rolled into the Title V permit. The modification application of the Title V permit to incorporate all of the six boilers must be submitted by 7/24/2014. As stated in the above table, the initial operation of the last boiler (Boiler 2) is 7/24/2013. One year from this date is 7/24/2014.

Associated with the refurbishment or modification of Boilers 5 & 6, and the replacement of Boilers 1, 2, 3 & 4 is the extension of the elevation of the existing stack height by 30 feet from 514 to 544 feet.

Associated with this project, the PTE of NO_x emissions will be reduced by 64% when firing natural gas, and by 73% when firing #2 fuel oil.

This project involves the following:

1. The complete refurbishment or modification of the existing Erie City/16M Keystone Boiler #5 and Boiler #6 (Emission Sources B0005 & B0006) to Victory Energy boilers (Emission Sources BLR05 & BLR06) complete with low NO_x burners (LNB) and flue gas recirculation (FGR). Each of these two boilers will have a design capacity of 95 MM Btu/hr and maximum natural gas consumption of 792.57 million cubic feet of gas per year. After modification, Boilers 5 & 6 will be essentially become Victory Energy boilers.



2. The complete demolition of the four existing Combustion Engineering Type 13.5 (VU-10) boilers designated as Boilers #1, 2, 3 & 4 (Emission Sources B0001, B0002, B0003 & B0004).

3. The construction of four new replacement Victory Energy boilers, Voyager Series VS4-48 Emission Sources BLR01, BLR02, BLR03 & BLR04) complete with low NOx burners (LNB) and flue gas recirculation (FGR). Each of these four boilers will have a design capacity of 60 MM Btu/hr and maximum natural gas consumption of 500.5 million cubic feet of gas per year. Also, the installation of the Victory Energy boilers, Boilers #1, #2, #3 & #4 maintains the nominal capacity of each of these boilers at 60.3 million Btus of heat input per hour when firing natural gas and 57.6 million Btus of heat input when firing distillate fuel oil.

4. The conversion from utilizing #6 fuel oil as the secondary fuel to utilizing #2 distillate fuel oil as the secondary fuel with natural gas as the primary fuel. The guaranteed emissions by the boiler manufacturer for all six boilers, Boilers #1, #2, #3, #4, #5 & #6 when operating on natural gas and when operating on distillate fuel oil are tabulated below.

Fuel	Units	NOx*	CO*	VOC*	PM10/PM/PM2.5
Natural gas	ppm	30	50	10	-
	lb/MMBtu	0.036	0.037	0.004	0.005
Annual PTE	tons	30	30.8	3.3	4.2
No. 2 Oil	ppm	62	50	10	-
	lb/MMBtu	0.08	0.037	0.004	0.03
Annual PTE	tons	66.6	30.8	3.3	25

* Concentrations corrected to 3% oxygen on daily basis

The modification of Boilers #5 and #6 includes the following new items: in the first stage of the project; natural gas and distillate fuel oil low NOx burner (LNB) system, flue gas recirculation (FGR) system, combustion control systems, forced draft fans and motors, economizers, ducting and expansion joints, draft control dampers, pertinent instrumentation and controls, and interconnecting piping and valves; and in the second stage of the project; re-tubing of the boilers.

The installation of the new Victory Energy four boilers, Boilers #1, #2, #3 & #4 and the modification of the other Victory Energy boilers, Boilers 5 & 6, includes



the following new items for each of these six boilers: natural gas and distillate fuel oil low NOx burner (LNB) system, flue gas recirculation (FGR) system, combustion control systems, forced draft fans and motors, economizers, ducting and expansion joints, draft control dampers, pertinent instrumentation and controls, and interconnecting piping and valves.

The modification of Boilers #5 and #6 maintains the nominal capacity of each existing boiler at 95 million Btus of heat input per hour and the maximum saturated steam flow rate of 80,000 pounds per hour at 125 psig. Also, the installation of the new replacement Victory Energy boilers, Boilers #1, #2, #3 & #4 maintains the nominal capacity of each of these four boilers at 60.3 million Btus of heat input per hour when firing natural gas and 57.6 million Btus of heat input when firing distillate fuel oil. Each of these four boilers is designed for a maximum saturated steam flow rate of 50,000 pounds per hour at 125 psig. After modification of Boilers 5 & 6, and the installation of the new replacement boilers, Boilers #1, #2, #3 & #4, the primary and secondary fuels will be natural gas and distillate fuel oil; respectively.

The modification of Boilers #5 and #6 and the installation of the new replacement boilers, Boilers #1, #2, #3 & #4 with LNB and FGR with the above guaranteed maximum NOx emission rates is to comply with 6 NYCRR Part 227-2 NOx RACT regulation that became effective July 8, 2010 stipulating a NOx emission rate limit of 0.08 pounds of NOx per million Btus of heat input for "Mid-size" boilers firing either distillate fuel oil or natural gas on or after July 1, 2014. 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.

The modification of Boilers #5 and #6 and the installation of the four new replacement boilers Boilers 1, 2, 3 & 4 with LNB and FGR for control of NOx emissions, utilizing natural gas and distillate fuel oil firing, replaces the existing NOx RACT. The existing curves for Boilers #1, #2, #3, #4, #5 and #6 for monitoring the percent oxygen (%O₂) in the flue gas as a surrogate parameter for NOx emission compliance will be replaced by performance curves associating air flow with the fuel firing rate. Performance stack testing, to be performed after the modification of Boilers 5 & 6, and the installation of the new replacement boilers, Boilers 1, 2, 3 & 4 is completed, will define the tolerances of the air-to-fuel ratios at various loads (25%, 50%, 75% and 100%) to establish parameters for monitoring compliance with the NOx emission limit.

The newly refurbished boilers, Boilers #5 & #6 and the four new boilers, Boiler #1, #2, #3 & #4 will be connected to the existing stack, Emission Point B0001,



but the elevation of the existing stack will be extended by 30 feet from 514 to 544 feet.

The modification of Boilers #5 and #6 project will result in reduction in Potential to Emit (PTE) rates for the following contaminants when switching from #6 fuel oil to #2 fuel oil as the back-up fuel and maintaining natural gas as the primary fuel:

The NO_x emissions will be reduced from 250 to 67 tpy (73% reduction),
The CO emissions will be increased from 30 to 31 tpy (3% increase),
The VOC emissions will be reduced from 7 to 3 tpy (57% reduction).
The SO₂ emissions will be reduced from 261 to 170 tpy (35% reduction)
The Lead emissions will be reduced from 0.009 to 0.007 tpy (22% reduction).
and
The PM/PM-10/PM-2.5 emissions will be reduced from 83 to 25 tpy (70% reduction).

The modification of Boilers #5 and #6 project will result in reduction in Potential to Emit (PTE) rates for the following contaminants when operating on natural gas as the primary fuel :

The NO_x emissions will be reduced from 83 to 30 tpy (64% reduction),
The CO emissions will be decreased from 67 tpy to 31 tpy (54% decrease),
The VOC emissions will be reduced from 4 to 3 tpy (25% reduction).
The SO₂ emissions will be reduced from 0.48 to 0.48 tpy (0% reduction)
The Lead emissions will be reduced from 0.0004 to 0.000005 tpy (99% reduction). and
The PM/PM-10/PM-2.5 emissions will be reduced from 6 tpy to 4 tpy (33% reduction).

The two modified boilers, Boiler #5 & #6 and the four replaced boilers, Boilers #1, #2, #3 & #4 will be connected to the existing stack, Emission Point B0001 after extending its elevation by 30 feet from 514 to 544 feet.

The replacement of the four boilers, Boilers #1, #2, #3 & #4 project will result in reduction in Potential to Emit (PTE) rates for the following contaminants when switching from #6 fuel oil to #2 fuel oil as the back-up fuel :

The NO_x emissions will be reduced from 315 to 84 tpy (73% reduction),
The CO emissions will be increased from 38 to 39 tpy (3% increase),
The VOC emissions will be reduced from 8 to 4 tpy (50% reduction),
The SO₂ emissions will be reduced from 330 to 214 tpy (35% reduction),



The PM/PM-10/PM-2.5 emissions will be reduced from 105 to 32 tpy (70% reduction), and
The Lead emissions will be reduced from 0.01 to 0.009 tpy (10% reduction).

The replacement of the four boilers, Boilers #1, #2, #3 & #4 project will result in reduction in Potential to Emit (PTE) rates for the following contaminants when operating on natural gas as the primary fuel :

The NOx emissions will be reduced from 105 to 38 tpy (64% reduction),
The CO emissions will be increased from 84 to 39 tpy (54% reduction),
The VOC emissions will be reduced from 6 to 4 tpy (33% reduction),
The SO2 emissions will be reduced from 0.6 to 0.6 tpy (0% reduction),
The PM/PM-10/PM-2.5 emissions will be reduced from 8 to 5 tpy (37% reduction), and
The Lead emissions will be reduced from 0.00050057 to 0.00001 tpy (98% reduction).

The replacement of the four boilers, Boilers #1, #2, #3 & #4 and the modification of Boilers 5 & 6 project will result in reduction in Potential to Emit (PTE) rates for the following contaminants when switching from #6 fuel oil to #2 fuel oil as the back-up fuel:

The NOx emissions will be reduced from 565 to 151 tpy (73% reduction),
The CO emissions will be increased from 68 to 70 tpy (3% increase),
The VOC emissions will be reduced from 15 to 7 tpy (53% reduction),
The SO2 emissions will be reduced from 591 to 384 tpy (35% reduction),
The PM/PM-10/PM-2.5 emissions will be reduced from 188 to 57 tpy (70% reduction), and
The Lead emissions will be reduced from 0.019 to 0.016 tpy (16% reduction).

This replacement of the four boilers, Boilers #1, #2, #3 & #4 and the modification of Boilers #5 & #6 project will result in reduction in Potential to Emit (PTE) rates for the following contaminants when operating on natural gas as the primary fuel :

The NOx emissions will be reduced from 188 to 68 tpy (64% reduction),
The CO emissions will be increased from 151 tpy to 70 tpy (54% reduction),
The VOC emissions will be reduced from 10 to 7 tpy (30% reduction),
The SO2 emissions will be reduced from 1.08 to 1.08 tpy (0% reduction),
The PM/PM-10/PM-2.5 emissions will be reduced from 14 tpy to 9 tpy (36% reduction), and
The Lead emissions will be reduced from 0.0009 to 0.000015 tpy (98% reduction).



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 ******
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.



Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:

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

- 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 5: Permit modifications, suspensions or revocations by the Department
Applicable State Requirement: 6 NYCRR 621.13

Item 5.1:

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

Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 6.1:

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

Permit ID: 2-6204-00059/00005

Facility DEC ID: 2620400059



Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY

PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: MOUNT SINAI MEDICAL CENTER

1 GUSTAVE L LEVY PL

NEW YORK, NY 10029-6504

Facility:

MOUNT SINAI HOSPITAL

1 GUSTAVE L LEVY PL | 1450 MADISON AVE

NEW YORK, NY 10029

Authorized Activity By Standard Industrial Classification Code:

8062 - GENERAL MEDICAL & SURGICAL HOSPITALS

Permit Effective Date: 10/03/2011
date.

Permit Expiration Date: No expiration



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 40 CFR Part 68: Accidental release provisions.
- 2 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 3 6 NYCRR 201-7.2: Facility Permissible Emissions
- *4 6 NYCRR 201-7.2: Capping Monitoring Condition
- 5 6 NYCRR 202-1.3: Acceptable procedures
- 6 6 NYCRR 211.1: Air pollution prohibited
- 7 6 NYCRR 225-1.8: Compliance Demonstration
- 8 6 NYCRR 227-2.4 (c) (1) (i): Compliance Demonstration
- 9 6 NYCRR 227-2.6 (c): Compliance Demonstration
- 10 6 NYCRR 227-2.6 (c): Compliance Demonstration
- 11 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 12 40CFR 60.40c, NSPS Subpart Dc: Compliance Demonstration
- 13 40CFR 60.48c(g), NSPS Subpart Dc: Compliance Demonstration

Emission Unit Level

- 14 6 NYCRR 201-7.2: Emission Unit Permissible Emissions

EU=U-B0001,EP=B0001,Proc=G41,ES=BLR01

- 15 40CFR 60, NSPS Subpart A: Applicability of General Provisions of 40 CFR 60 Subpart A
- 16 6 NYCRR 227-1.3 (a): Compliance Demonstration
- 17 6 NYCRR 227.2 (b) (1): Compliance Demonstration

EU=U-B0001,EP=B0001,Proc=O41,ES=BLR01

- 18 40CFR 60.8(a), NSPS Subpart A: Performance testing timeline.
- 19 40CFR 60.40c, NSPS Subpart Dc: Applicability of this Subpart to this emission source
- 20 40CFR 60.42c(h), NSPS Subpart Dc: Exemption from the averaging period.
- 21 40CFR 60.42c(i), NSPS Subpart Dc: Enforceability
- 22 40CFR 60.46c(d)(2), NSPS Subpart Dc: Compliance Demonstration

EU=U-B0001,EP=B0001,Proc=O41,ES=BLR01

- 23 40CFR 60.46c(e), NSPS Subpart Dc: Exemption from sulfur dioxide monitoring requirements.
- 24 40CFR 60.48c(d), NSPS Subpart Dc: Compliance Demonstration
- 25 40CFR 60.48c(e)(1), NSPS Subpart Dc: Compliance Demonstration
- 26 40CFR 60.48c(e)(2), NSPS Subpart Dc: Compliance Demonstration
- 27 40CFR 60.48c(e)(3), NSPS Subpart Dc: Compliance Demonstration
- 28 40CFR 60.48c(e)(4), NSPS Subpart Dc: Compliance Demonstration
- 29 40CFR 60.48c(e)(7), NSPS Subpart Dc: Compliance Demonstration
- 30 40CFR 60.48c(f)(1), NSPS Subpart Dc: Compliance Demonstration
- 31 40CFR 60.48c(i), NSPS Subpart Dc: Compliance Demonstration
- 32 40CFR 60.48c(f)(1), NSPS Subpart Dc: Compliance Demonstration

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 33 ECL 19-0301: Contaminant List

New York State Department of Environmental Conservation

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- 34 6 NYCRR 201-1.4: Unavoidable noncompliance and violations
- 35 6 NYCRR Subpart 201-5: Emission Unit Definition
- 36 6 NYCRR 211.2: Visible Emissions Limited
- 37 6 NYCRR 227-2.4 (c) (1) (ii): Compliance Demonstration
- 38 6 NYCRR 227-2.6 (a): Compliance Demonstration

Emission Unit Level

- 39 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
- 40 6 NYCRR Subpart 201-5: Process Definition By Emission Unit
- 41 6 NYCRR 225-1.2 (a) (2): Compliance Demonstration
- 42 6 NYCRR 225-1.2 (d): Compliance Demonstration
- 43 6 NYCRR 225-1.8 (a): Compliance Demonstration
- 44 6 NYCRR 225-1.2 (a) (2): Compliance Demonstration
- 45 6 NYCRR 225-1.8 (a): Compliance Demonstration

NOTE: * preceding the condition number indicates capping.



FEDERALLY ENFORCEABLE CONDITIONS

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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Sealing - 6 NYCRR 200.5

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation.

Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

No person shall operate any air contamination source sealed by the Commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification.

Unless authorized by the Commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section.

Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6

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.

Item C: Maintenance of Equipment - 6 NYCRR 200.7

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.

Item D: Unpermitted Emission Sources - 6 NYCRR 201-1.2

If an existing emission source was subject to the permitting requirements of 6 NYCRR Part 201 at the time of construction or modification, and the owner and/or operator failed to apply for a permit for such emission source then the following provisions apply:

(a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.

(b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

Item E: Emergency Defense - 6 NYCRR 201-1.5

An emergency constitutes an affirmative defense to an action brought 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 and/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;

(3) During the period of the emergency the facility owner and/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 and/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 and/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 F: Recycling and Salvage - 6 NYCRR 201-1.7

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.

Item G: Prohibition of Reintroduction of Collected Contaminants to the Air - 6 NYCRR 201-1.8

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.

Item H: Proof of Eligibility for Sources Defined as Exempt Activities - 6 NYCRR 201-3.2 (a)

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source 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 which contains emission sources or units subject to 6 NYCRR Subpart 201-3, 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 I: Proof of Eligibility for Sources Defined as Trivial Activities - 6 NYCRR 201-3.3 (a)

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source 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 which contains emission sources or units subject to 6 NYCRR Subpart 201-3, 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 J: Required Emission Tests - 6 NYCRR 202-1.1

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An acceptable report of measured emissions shall be submitted, as may be required by the Commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the Commissioner within the time stated shall be sufficient reason for the Commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6 NYCRR Subpart 202-1.

Item K: Open Fires Prohibitions - 6 NYCRR 215.2

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

Item L: Permit Exclusion - ECL 19-0305

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

Item M: Federally Enforceable Requirements - 40 CFR 70.6 (b)

All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

FEDERAL APPLICABLE REQUIREMENTS
The following conditions are federally enforceable.

Condition 1: Accidental release provisions.

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Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable Federal Requirement:40 CFR Part 68

Item 1.1:

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

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

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

Condition 2: Recycling and Emissions Reduction
Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable Federal Requirement:40CFR 82, Subpart F

Item 2.1:

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

Condition 3: Facility Permissible Emissions
Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 201-7.2

Item 3.1:

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: 0NY210-00-0
Name: OXIDES OF NITROGEN

PTE: 1,291,320 pounds per year

Condition 4: Capping Monitoring Condition
Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 201-7.2

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Item 4.1:

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

6 NYCRR Subpart 201-6

Item 4.2:

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

Item 4.3:

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

Item 4.4:

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

Item 4.5:

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

Item 4.6:

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

Emission Unit: U-B0001 Process: G41	Emission Point: B0001 Emission Source: BLR01
Emission Unit: U-B0001 Process: G41	Emission Point: B0001 Emission Source: BLR02
Emission Unit: U-B0001 Process: G41	Emission Point: B0001 Emission Source: BLR03
Emission Unit: U-B0001 Process: G41	Emission Point: B0001 Emission Source: BLR04
Emission Unit: U-B0001 Process: G65	Emission Point: B0001 Emission Source: BLR05

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Emission Unit: U-B0001
Process: G65

Emission Point: B0001
Emission Source: BLR06

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR01

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR02

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR03

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR04

Emission Unit: U-B0001
Process: O65

Emission Point: B0001
Emission Source: BLR05

Emission Unit: U-B0001
Process: O65

Emission Point: B0001
Emission Source: BLR06

Regulated Contaminant(s):

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

Item 4.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

Facility is replacing four boilers and refurbishing two other boilers with similar heat inputs (4 boilers at 60 MM Btu/hr and 2 boilers at 95 MM Btu/hr). There will be a NO_x emission reduction from this activity. Prior to July 1, 2014, the NO_x RACT emission limits for the existing mid-size boilers are 0.3 lbs NO_x per million Btu of heat input when firing residual (#6) oil and 0.1 lbs NO_x per million Btu of heat input when firing natural gas. On or after July 1, 2014, the NO_x RACT emission limit for mid-size boilers operating on gas/distillate oil will be 0.08 pounds per million Btus. In order to cap out of New Source review (6 NYCRR 231-2), the emission increase of this activity from replacing four boilers and refurbishing two other boilers, is capped below 24.9 tons of NO_x per year. The NO_x emission increase shall be calculated using the following formula and related equations 1 - 4:

Formula: $AEI(NO_x) < 49,800 \text{ lbs / year}$

Equation 1: $AEI(NO_x) = [E.F(o) * HI_o + E.F(g) * HI_g]$

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-N

Where;

AEI (NOx) = annual NOx emission increase, lbs / yr

E.F(o) = emission factor of NOx for oil, lbs per million
Btu input

E.F(g) = emission factor of NOx for gas, lbs per million
Btu input

Hlo = heat input for #2-oil firing, million Btu / yr

Hlg = heat input for gas firing, million Btu / yr

N = NOx emissions prior to replacement and refurbishment
of the boilers, lbs /yr

Equation 2: $Hlo = [140,000 * E] / 106$

Where;

E = gallons #2-oil used per year for all boilers

140,000 = Btu heat input per gallon #2-oil

Equation 3: $Hlg = [1050 * M] / 106$

Where;

M = standard cubic feet of gas used per year for all
boilers

1050 = Btu heat input per standard cubic foot
gas

Equation 4: $N = 0.3 * Hlo + 0.1 * Hlg$

Where;

0.3 = lbs NOx per million Btu emission limit for #6-oil
firing prior to replacement and refurbishment of
boilers

0.1 = lbs NOx per million Btu emission limit for gas
firing prior to replacement and refurbishment of
boilers

The total heat input from Boilers #1 - #6 = (4 x 60 MM
Btu/hr) + (2 x 95 MM Btu/hr) = 430 MM Btu/hr

From the 2010 Emission Statement, the NOx emissions in
lbs/yr for Boilers B1 - B4, Boilers B5 - B6 and Boilers B1
- B6 are as follow:

	NOx B1 - B4	NOx B5 - B6
NOx B1 - B6		

Natural Gas	43,621	34,533
78,154		

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#6 fuel oil	7,523	5,955
13,478		

Total (lbs/yr)	51,144	40,489
91,632		

The NOx PTE for the four new replacement boilers Boilers 1 - 4 = 168,192 lbs/yr

The NOx PTE for the two refurbished boilers Boilers 5 - 6 = 133,152 lbs/yr

The NOx PTE for the four new replacement boilers Boilers 1 - 4 and the two refurbished boilers, Boilers 5 - 6 = 301,344 lbs/yr

The NOx PTE for the facility-wide = 1,291,320 lbs/yr

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 24.9 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 7/30/2012.

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

Condition 5: Acceptable procedures

Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 202-1.3

Item 5.1:

Emission testing, sampling, and analytical determinations to ascertain compliance with this Subpart shall be conducted in accordance with test methods acceptable to the commissioner.

Condition 6: Air pollution prohibited

Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 211.1

Item 6.1:

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 7: Compliance Demonstration

Effective between the dates of 10/03/2011 and Permit Expiration Date

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Applicable Federal Requirement:6 NYCRR 225-1.8

Item 7.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 7.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

An owner or operator of a facility which purchases and fires coal and/or fuel oil shall compile and retain records of the following information:

- a. fuel analyses and data on the quantities of all residual and distillate oil and coal received, burned or sold;
- b. the names of all purchasers of all residual and distillate oil and coal sold;
- c. any results of stack sampling, stack monitoring and other procedures used to ensure compliance with the provisions of 6 NYCRR Part 225-1.

Fuel analyses must contain, as a minimum, data on the sulfur content, specific gravity and heating value of any residual oil, distillate oil or coal received, burned or sold. Ash content shall also be included in the fuel analyses for any residual oil or coal received, burned or sold.

These records shall be retained for a minimum period of three years. If the facility is subject to Title V requirements the minimum record retention period shall be five years. The records shall be made available for inspection by department staff during normal business hours. In addition, copies of such records shall be furnished to department staff upon request. All required sampling, compositing and analysis of fuel samples must be done in accordance with methods acceptable to the department.

Monitoring Frequency: PER DELIVERY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2012.

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

Condition 8: Compliance Demonstration

Effective between the dates of 10/03/2011 and Permit Expiration Date

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

Item 8.1:

The Compliance Demonstration activity will be performed for the facility:

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The Compliance Demonstration applies to:

Emission Unit: U-B0001	Emission Point: B0001
Process: G41	Emission Source: BLR01

Emission Unit: U-B0001	Emission Point: B0001
Process: G41	Emission Source: BLR02

Emission Unit: U-B0001	Emission Point: B0001
Process: G41	Emission Source: BLR03

Emission Unit: U-B0001	Emission Point: B0001
Process: G41	Emission Source: BLR04

Emission Unit: U-B0001	Emission Point: B0001
Process: G65	Emission Source: BLR05

Emission Unit: U-B0001	Emission Point: B0001
Process: G65	Emission Source: BLR06

Emission Unit: U-B0001	Emission Point: B0001
Process: O41	Emission Source: BLR01

Emission Unit: U-B0001	Emission Point: B0001
Process: O41	Emission Source: BLR02

Emission Unit: U-B0001	Emission Point: B0001
Process: O41	Emission Source: BLR03

Emission Unit: U-B0001	Emission Point: B0001
Process: O41	Emission Source: BLR04

Emission Unit: U-B0001	Emission Point: B0001
Process: O65	Emission Source: BLR05

Emission Unit: U-B0001	Emission Point: B0001
Process: O65	Emission Source: BLR06

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

Item 8.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Mount Sinai Hospital is required to perform testing the mid-size boilers, the four 60 MM Btu/hr Victory Energy VS-4-48 replacement boilers (Emission Sources BLR01, BLR02, BLR03 & BLR04) and to the two refurbished 95 MM Btu/hr Erie City/16M Keystone boilers (Emission Sources BLR05 & BLR06) to verify the NO_x emission limit

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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 six boilers operates on distillate oil (Processes O41 & O65) and on natural gas (G41 & G65).

Prior to 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 limit of 0.12 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 60 MM Btu/hr Victory Energy VS-4-48 replacement boilers (Emission Sources BLR01, BLR02, BLR03 & BLR04) and to the two refurbished 95 MM Btu/hr Erie City/16M Keystone boilers (Emission Sources BLR05 & BLR06).

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.12 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

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Condition 9: Compliance Demonstration **Effective between the dates of 10/03/2011 and Permit Expiration Date**

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

Item 9.1:

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

Emission Unit: U-B0001	Emission Point: B0001
Process: G41	Emission Source: BLR01

Emission Unit: U-B0001	Emission Point: B0001
Process: G41	Emission Source: BLR02

Emission Unit: U-B0001	Emission Point: B0001
Process: G41	Emission Source: BLR03

Emission Unit: U-B0001	Emission Point: B0001
Process: G41	Emission Source: BLR04

Emission Unit: U-B0001	Emission Point: B0001
Process: G65	Emission Source: BLR05

Emission Unit: U-B0001	Emission Point: B0001
Process: G65	Emission Source: BLR06

Emission Unit: U-B0001	Emission Point: B0001
Process: O41	Emission Source: BLR01

Emission Unit: U-B0001	Emission Point: B0001
Process: O41	Emission Source: BLR02

Emission Unit: U-B0001	Emission Point: B0001
Process: O41	Emission Source: BLR03

Emission Unit: U-B0001	Emission Point: B0001
Process: O41	Emission Source: BLR04

Emission Unit: U-B0001	Emission Point: B0001
Process: O65	Emission Source: BLR05

Emission Unit: U-B0001	Emission Point: B0001
Process: O65	Emission Source: BLR06

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

Item 9.2:

Compliance Demonstration shall include the following monitoring:

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Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Mount Sinai Hospital is required to perform testing the mid-size boilers, the four 60 MM Btu/hr Victory Energy VS-4-48 replacement boilers (Emission Sources BLR01, BLR02, BLR03 & BLR04) and to the two refurbished 95 MM Btu/hr Erie City/16M Keystone boilers (Emission Sources BLR05 & BLR06) 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 six boilers operates on distillate oil (Processes O41 & O65) and on natural gas (G41 & G65).

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 limit of 0.08 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 60 MM Btu/hr Victory Energy VS-4-48 replacement boilers (Emission Sources BLR01, BLR02, BLR03 & BLR04) and to the two refurbished 95 MM Btu/hr Erie City/16M Keystone boilers (Emission Sources BLR05 & BLR06). The NOx RACT for boilers operating on distillate oil/natural gas is a limit of 0.12

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pounds per million Btu per hour prior to July 1, 2014 and
a limit of 0.08 pounds per million Btu per hour on or
after July 1, 2014.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.08 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 10: Compliance Demonstration

Effective between the dates of 10/03/2011 and Permit Expiration Date

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

Item 10.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-B0001	Emission Point: B0001
Process: G41	Emission Source: BLR01

Emission Unit: U-B0001	Emission Point: B0001
Process: G41	Emission Source: BLR02

Emission Unit: U-B0001	Emission Point: B0001
Process: G41	Emission Source: BLR03

Emission Unit: U-B0001	Emission Point: B0001
Process: G41	Emission Source: BLR04

Emission Unit: U-B0001	Emission Point: B0001
Process: G65	Emission Source: BLR05

Emission Unit: U-B0001	Emission Point: B0001
Process: G65	Emission Source: BLR06

Emission Unit: U-B0001	Emission Point: B0001
Process: O41	Emission Source: BLR01

Emission Unit: U-B0001	Emission Point: B0001
Process: O41	Emission Source: BLR02

Emission Unit: U-B0001	Emission Point: B0001
Process: O41	Emission Source: BLR03

Emission Unit: U-B0001	Emission Point: B0001
Process: O41	Emission Source: BLR04

Emission Unit: U-B0001	Emission Point: B0001
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Process: O65

Emission Source: BLR05

Emission Unit: U-B0001

Emission Point: B0001

Process: O65

Emission Source: BLR06

Regulated Contaminant(s):

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

Item 10.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Mount Sinai Hospital is required to perform testing the mid-size boilers, the four 60 MM Btu/hr Victory Energy VS-4-48 replacement boilers (Emission Sources BLR01, BLR02, BLR03 & BLR04) and to the two refurbished 95 MM Btu/hr Erie City/16M Keystone boilers (Emission Sources BLR05 & BLR06) 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 six boilers operates on distillate oil (Processes O41 & O65) and on natural gas (G41 & G65).

Prior to 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 limit of 0.12 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 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.

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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 60 MM Btu/hr Victory Energy VS-4-48 replacement boilers (Emission Sources BLR01, BLR02, BLR03 & BLR04) and to the two refurbished 95 MM Btu/hr Erie City/16M Keystone boilers (Emission Sources BLR05 & BLR06). The NO_x RACT for boilers operating on distillate oil/natural gas is a limit of 0.12 pounds per million Btu per hour prior to July 1, 2014 and a limit of 0.08 pounds per million Btu per hour on or after July 1, 2014.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.12 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 11: EPA Region 2 address.

Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.4, NSPS Subpart A

Item 11.1:

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

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

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

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

Condition 12: Compliance Demonstration

Effective between the dates of 10/03/2011 and Permit Expiration Date

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

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Item 12.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-B0001 Process: G41	Emission Point: B0001 Emission Source: BLR01
Emission Unit: U-B0001 Process: G41	Emission Point: B0001 Emission Source: BLR02
Emission Unit: U-B0001 Process: G41	Emission Point: B0001 Emission Source: BLR03
Emission Unit: U-B0001 Process: G41	Emission Point: B0001 Emission Source: BLR04
Emission Unit: U-B0001 Process: G65	Emission Point: B0001 Emission Source: BLR05
Emission Unit: U-B0001 Process: G65	Emission Point: B0001 Emission Source: BLR06
Emission Unit: U-B0001 Process: O41	Emission Point: B0001 Emission Source: BLR01
Emission Unit: U-B0001 Process: O41	Emission Point: B0001 Emission Source: BLR02
Emission Unit: U-B0001 Process: O41	Emission Point: B0001 Emission Source: BLR03
Emission Unit: U-B0001 Process: O41	Emission Point: B0001 Emission Source: BLR04
Emission Unit: U-B0001 Process: O65	Emission Point: B0001 Emission Source: BLR05
Emission Unit: U-B0001 Process: O65	Emission Point: B0001 Emission Source: BLR06

Item 12.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This condition applies to each of the four 60 MM Btu/hr Victory Energy VS-4-48 replacement boilers, defined in Emission Unit U-B0001 as Emission Sources BR001, BR002, BR003 & BR004. This condition also applies to each of the two refurbished 95 MM Btu/hr Erie City/16M Keystone boilers, defined in Emission Unit U-B0001 as Emission Sources BR005 & BR006.

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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.

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 1/30/2012.

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

Condition 13: Compliance Demonstration

Effective between the dates of 10/03/2011 and Permit Expiration Date

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

Item 13.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-B0001 Process: O41	Emission Point: B0001 Emission Source: BLR01
Emission Unit: U-B0001 Process: O41	Emission Point: B0001 Emission Source: BLR02
Emission Unit: U-B0001 Process: O41	Emission Point: B0001 Emission Source: BLR03
Emission Unit: U-B0001 Process: O41	Emission Point: B0001 Emission Source: BLR04
Emission Unit: U-B0001 Process: O65	Emission Point: B0001 Emission Source: BLR05
Emission Unit: U-B0001 Process: O65	Emission Point: B0001 Emission Source: BLR06

Item 13.2:

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Compliance Demonstration 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 operating day.

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 1/30/2012.

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

****** Emission Unit Level ******

Condition 14: Emission Unit Permissible Emissions
Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 201-7.2

Item 14.1:

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-B0001

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 301,344 pounds per hour

301,344 pounds per year

Condition 15: Applicability of General Provisions of 40 CFR 60 Subpart A
Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable Federal Requirement: 40 CFR 60, NSPS Subpart A

Item 15.1:

This Condition applies to:

Emission Unit: UB0001
Process: G41

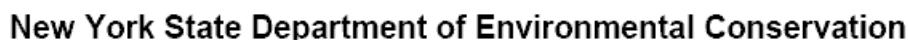
Emission Point: B0001
Emission Source: BLR01

Emission Unit: UB0001
Process: G41

Emission Point: B0001
Emission Source: BLR02

Emission Unit: UB0001

Emission Point: B0001



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Emission Unit: UB0001 Emission Point: B0001
Process: O65 Emission Source: BLR06

This Condition applies to Emission Unit: U-B0001 Emission Point: B0001
Process: G41 Emission Source: BLR01

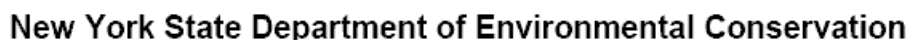
This emission source is subject to the applicable general provisions of 40 CFR 60. The facility owner is responsible for complying with all applicable technical, administrative and reporting requirements.

Condition 16: Compliance Demonstration
Effective between the dates of 10/03/2011 and Permit Expiration Date

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

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

Emission Unit: U-B0001 Emission Point: B0001



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Emission Source: BLR02

Emission Point: B0001

Emission Source: BLR03

Emission Point: B0001

Emission Source: BLR04

Emission Point: B0001

Emission Source: BLR05

Emission Point: B0001

Emission Source: BLR06

Compliance Demonstration shall include the following monitoring:

Monitoring Description:

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

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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: EPA Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2012.

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

Condition 17: Compliance Demonstration

Effective between the dates of 10/03/2011 and Permit Expiration Date

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

Item 17.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR01

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR02

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR03

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR04

Emission Unit: U-B0001
Process: O65

Emission Point: B0001
Emission Source: BLR05

Emission Unit: U-B0001
Process: O65

Emission Point: B0001
Emission Source: BLR06

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 17.2:

Compliance Demonstration 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

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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

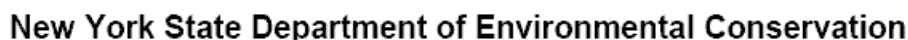
Condition 18: Performance testing timeline.
Effective between the dates of 10/03/2011 and Permit Expiration Date

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

Item 18.1:

This Condition applies to:

Emission Unit: UB0001 Process: G41	Emission Point: B0001 Emission Source: BLR01
Emission Unit: UB0001 Process: G41	Emission Point: B0001 Emission Source: BLR02
Emission Unit: UB0001 Process: G41	Emission Point: B0001 Emission Source: BLR03
Emission Unit: UB0001 Process: G41	Emission Point: B0001 Emission Source: BLR04
Emission Unit: UB0001	Emission Point: B0001



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Emission Unit: UB0001 Emission Point: B0001
Process: O65 Emission Source: BLR06

This Condition applies to Emission Unit: U-B0001 Emission Point: B0001
Process: O41 Emission Source: BLR01

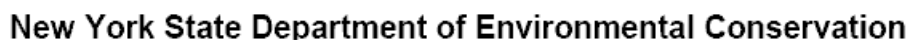
Within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup of the facility, the owner or operator of the facility shall conduct performance testing and provide the results of such tests, in a written report, to the Administrator.

Condition 19: Applicability of this Subpart to this emission source
Effective between the dates of 10/03/2011 and Permit Expiration Date

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

This Condition applies to:

Emission Unit: UB0001 Emission Point: B0001
Process: G41 Emission Source: BLR04



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Emission Point: B0001
Emission Source: BLR05

Emission Point: B0001
Emission Source: BLR06

Emission Point: B0001
Emission Source: BLR02

Emission Point: B0001
Emission Source: BLR03

Emission Point: B0001
Emission Source: BLR04

Emission Point: B0001
Emission Source: BLR05

Emission Point: B0001
Emission Source: BLR06

This Condition applies to Emission Unit: U-B0001 Emission Point: B0001
Process: O41 Emission Source: BLR01

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

Applicable Federal Requirement: 40CFR 60.42c(h), NSPS Subpart Dc

This Condition applies to:

Emission Point: B0001
Emission Source: BLR02

Emission Point: B0001
Emission Source: BLR03

Emission Point: B0001
Emission Source: BLR04

Emission Point: B0001
Emission Source: BLR05

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Emission Unit: UB0001
Process: O65

Emission Point: B0001
Emission Source: BLR06

Item 20.1:

This Condition applies to Emission Unit: U-B0001 Emission Point: B0001
Process: O41 Emission Source: BLR01

Item 20.2.3:

Compliance with emission limits and/or fuel oil sulfur limitations shall be based on a certification from the fuel supplier as stated in paragraph 40 CFR 60-Dc.48c(f)(1), (2), or (3) as applicable.

Condition 21: Enforceability

Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.42c(i), NSPS Subpart Dc

Item 21.1:

This Condition applies to:

Emission Unit: UB0001
Process: O41

Emission Point: B0001
Emission Source: BLR02

Emission Unit: UB0001
Process: O41

Emission Point: B0001
Emission Source: BLR03

Emission Unit: UB0001
Process: O41

Emission Point: B0001
Emission Source: BLR04

Emission Unit: UB0001
Process: O65

Emission Point: B0001
Emission Source: BLR05

Emission Unit: UB0001
Process: O65

Emission Point: B0001
Emission Source: BLR06

Item 21.1:

This Condition applies to Emission Unit: U-B0001 Emission Point: B0001
Process: O41 Emission Source: BLR01

Item 21.2.3:

The sulfur dioxide emission limits, percentage reductions, and fuel oil sulfur limitations shall apply at all times, including periods of startup, shutdown, and malfunction.

Condition 22: Compliance Demonstration

Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.46c(d)(2), NSPS Subpart Dc

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Item 22.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-B0001	Emission Point: B0001
Process: O41	Emission Source: BLR01

Emission Unit: U-B0001	Emission Point: B0001
Process: O41	Emission Source: BLR02

Emission Unit: U-B0001	Emission Point: B0001
Process: O41	Emission Source: BLR03

Emission Unit: U-B0001	Emission Point: B0001
Process: O41	Emission Source: BLR04

Emission Unit: U-B0001	Emission Point: B0001
Process: O65	Emission Source: BLR05

Emission Unit: U-B0001	Emission Point: B0001
Process: O65	Emission Source: BLR06

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

Item 22.2:

Compliance Demonstration 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 §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.

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.20 percent by weight

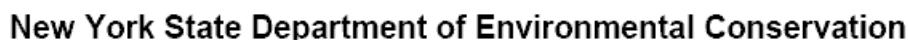
Reference Test Method: Method 19

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.



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Condition 23: Exemption from sulfur dioxide monitoring requirements.
Effective between the dates of 10/03/2011 and Permit Expiration Date

Condition 24: Compliance Demonstration
Effective between the dates of 10/03/2011 and Permit Expiration Date

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Process: O41 Emission Source: BLR03

Emission Unit: U-B0001 Emission Point: B0001
Process: O41 Emission Source: BLR04

Emission Unit: U-B0001 Emission Point: B0001
Process: O65 Emission Source: BLR05

Emission Unit: U-B0001 Emission Point: B0001
Process: O65 Emission Source: BLR06

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

Item 24.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of each affected facility subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.42c shall submit semi-annual reports to the Administrator.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2012.

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

Condition 25: Compliance Demonstration

Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.48c(e)(1), NSPS Subpart Dc

Item 25.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-B0001 Emission Point: B0001
Process: O41 Emission Source: BLR01

Emission Unit: U-B0001 Emission Point: B0001
Process: O41 Emission Source: BLR02

Emission Unit: U-B0001 Emission Point: B0001
Process: O41 Emission Source: BLR03

Emission Unit: U-B0001 Emission Point: B0001
Process: O41 Emission Source: BLR04

Emission Unit: U-B0001 Emission Point: B0001
Process: O65 Emission Source: BLR05

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Emission Unit: U-B0001
Process: O65

Emission Point: B0001
Emission Source: BLR06

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

Item 25.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of each affected facility subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.42c shall keep records as required under §60.48c(d) including the following information.

Calendar dates covered in the reporting period.

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 1/30/2012.

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

Condition 26: Compliance Demonstration

Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.48c(e)(2), NSPS Subpart Dc

Item 26.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR01

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR02

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR03

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR04

Emission Unit: U-B0001
Process: O65

Emission Point: B0001
Emission Source: BLR05

Emission Unit: U-B0001

Emission Point: B0001

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Process: O65

Emission Source: BLR06

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

Item 26.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of each affected facility subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.43c shall keep records as required under §60.48c(d) including the following information.

Each 30-day average SO₂ emission rate, or 30-day average sulfur content (weight percent), calculated during the reporting period, ending with the last 30-day period in the quarter; reasons for any noncompliance with the emission standards; and a description of corrective action taken.

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 1/30/2012.

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

Condition 27: Compliance Demonstration

Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.48c(e)(3), NSPS Subpart Dc

Item 27.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR01

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR02

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR03

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR04

Emission Unit: U-B0001

Emission Point: B0001

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Process: O65

Emission Source: BLR05

Emission Unit: U-B0001

Emission Point: B0001

Process: O65

Emission Source: BLR06

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

Item 27.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of each affected facility subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.43c shall keep records as required under §60.48c(d) including the following information.

Each 30-day average percent of potential SO₂ emission rate calculated during the reporting period, ending with the last 30-day period in the quarter; reasons for any noncompliance with the emission standards; and a description of corrective action taken.

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 1/30/2012.

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

Condition 28: Compliance Demonstration

Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.48c(e)(4), NSPS Subpart Dc

Item 28.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-B0001

Emission Point: B0001

Process: O41

Emission Source: BLR01

Emission Unit: U-B0001

Emission Point: B0001

Process: O41

Emission Source: BLR02

Emission Unit: U-B0001

Emission Point: B0001

Process: O41

Emission Source: BLR03

Emission Unit: U-B0001

Emission Point: B0001

Process: O41

Emission Source: BLR04

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Emission Unit: U-B0001
Process: O65

Emission Point: B0001
Emission Source: BLR05

Emission Unit: U-B0001
Process: O65

Emission Point: B0001
Emission Source: BLR06

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

Item 28.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of each affected facility subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.43c shall keep records as required under §60.48c(d) including the following information.

Identification of any steam generating unit operating days for which SO₂ or diluent (oxygen or carbon dioxide) data have not been obtained by an approved method for at least 75 percent of the operating hours; justification for not obtaining sufficient data; and a description of corrective actions taken.

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 1/30/2012.

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

Condition 29: Compliance Demonstration

Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.48c(e)(7), NSPS Subpart Dc

Item 29.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR01

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR02

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR03

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Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR04

Emission Unit: U-B0001
Process: O65

Emission Point: B0001
Emission Source: BLR05

Emission Unit: U-B0001
Process: O65

Emission Point: B0001
Emission Source: BLR06

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

Item 29.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of each affected facility subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.43c shall keep records as required under §60.48c(d) including the following information.

Identification of whether averages have been obtained based on CEMS rather than manual sampling methods.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2012.

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

Condition 30: Compliance Demonstration

Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.48c(f)(1), NSPS Subpart Dc

Item 30.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR01

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR02

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR03

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Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR04

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

Item 30.2:

Compliance Demonstration 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.
- iii) The sulfur content or maximum sulfur content of the oil.

Monitoring Frequency: PER DELIVERY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2012.

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

Condition 31: Compliance Demonstration

Effective between the dates of 10/03/2011 and Permit Expiration Date

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

Item 31.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR01

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR02

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR03

Emission Unit: U-B0001

Emission Point: B0001

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Process: O41

Emission Source: BLR04

Emission Unit: U-B0001

Emission Point: B0001

Process: O65

Emission Source: BLR05

Emission Unit: U-B0001

Emission Point: B0001

Process: O65

Emission Source: BLR06

Item 31.2:

Compliance Demonstration 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.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2012.

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

Condition 32: Compliance Demonstration

Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.48c(f)(1), NSPS Subpart Dc

Item 32.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-B0001

Emission Point: B0001

Process: O65

Emission Source: BLR05

Emission Unit: U-B0001

Emission Point: B0001

Process: O65

Emission Source: BLR06

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

Item 32.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Fuel supplier certification shall include the following

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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.

iii) The sulfur content or maximum sulfur content of the oil.

Monitoring Frequency: PER DELIVERY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2012.

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



STATE ONLY ENFORCEABLE CONDITIONS

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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Public Access to Recordkeeping for Facilities With State Facility Permits - 6 NYCRR 201-1.10 (a)

Where emission source owners and/or operators keep records pursuant to compliance with the operational flexibility requirements of 6 NYCRR Subpart 201-5.4(b)(1), and/or the emission capping requirements of 6 NYCRR Subparts 201-7.2(d), 201-7.3(f), 201-7.3(g), 201-7.3(h)(5), 201-7.3(i) and 201-7.3(j), the Department will make such records available to the public upon request in accordance with 6 NYCRR Part 616 - Public Access to Records. Emission source owners and/or operators must submit the records required to comply with the request within sixty working days of written notification by the Department of receipt of the request.

Item B: General Provisions for State Enforceable Permit Terms and Condition - 6 NYCRR Part 201-5

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

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

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state only enforceable.

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Condition 33: Contaminant List

Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable State Requirement:ECL 19-0301

Item 33.1:

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

CAS No: 0NY075-00-0

Name: PARTICULATES

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

Condition 34: Unavoidable noncompliance and violations

Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 201-1.4

Item 34.1:

At the discretion of the commissioner a violation of any applicable emission standard for necessary scheduled equipment maintenance, start-up/shutdown conditions and malfunctions or upsets may be excused if such violations are unavoidable. The following actions and recordkeeping and reporting requirements must be adhered to in such circumstances.

(a) The facility owner and/or operator shall compile and maintain records of all equipment 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 commissioner's representative when requested to do so in writing or when so required by a condition of a permit issued for the corresponding air contamination source except where conditions elsewhere in this permit which contain more stringent reporting and notification provisions for an applicable requirement, in which case they supercede those stated here. Such reports shall describe why the violation was unavoidable and shall include the time, frequency and duration of the maintenance and/or start-up/shutdown activities and the identification of air contaminants, and the estimated emission rates. If a facility owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, he need not submit reports for equipment maintenance or start-up/shutdown for the facility to the commissioner's representative.

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective

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action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superseded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

(c) The Department may also require the owner and/or operator to include in reports described under (a) and (b) above an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions depending on the deviation of the malfunction and the air contaminants emitted.

(d) In the event of maintenance, start-up/shutdown or malfunction conditions which result in emissions exceeding any applicable emission standard, the facility owner and/or operator shall take appropriate action to prevent emissions which will result in contravention of any applicable ambient air quality standard. Reasonably available control technology, as determined by the commissioner, shall be applied during any maintenance, start-up/shutdown or malfunction condition subject to this paragraph.

(e) 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.

Condition 35: Emission Unit Definition

Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable State Requirement: 6 NYCRR Subpart 201-5

Item 35.1:

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

Emission Unit: U-B0001

Emission Unit Description:

The emission unit consists of a total of six boilers, four are identical boilers, new Victory Energy Voyager Series VS-4-48 Boilers VS001, VS002, VS003 and VS004, with a nominal rated capacity of 60 MMBtu/hr heat input and 50,000 pounds/hr of steam output each. This emission unit also contains two refurbished identical Erie City 16M Keystone Boilers, EC005 and EC006 with a nominal rated capacity of 95 MMBtu/hr heat input and 80,000 pounds/hr steam output each, equipped with low NO_x burners (LNB) and Flue Gas Recirculation (FGR) to meet 6 NYCRR Part 227-2. These boilers will be using natural gas as primary fuel with #2 oil as a backup.

Emission Unit U-B0001 consists of a total of six (6) boilers, four are identical Combustion Engineering Type 13.5 (VU-10)-168 boilers (Emission Sources BLR01, BLR02, BLR03 and BLR04). These four boilers with a nominal rated heat input capacity of 60 MM Btu/hr and 50,000 pounds/hr of steam each. These four boilers are being replaced with four boilers that can comply with the new lower emission rates under the NO_x RACT 6 NYCRR 227-2. The other two

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boilers are two identical Erie City/16 M Keystone boilers, Boilers #5 and #6 (Emission Sources BLR05 and BLR06) with a nominal rated heat input capacity of 95 MM Btu/hr and 80,000 pounds/hr of steam each, that are being refurbished with low NOx burners (LNB) and Flue Gas Recirculation (FGR) to meet the new lower NOx emission limit of 0.08 lb NOx per million BTU heat input for "midsize" boilers firing distillate oil or natural gas on or after July 1, 2014 under the NOx RACT 6 NYCRR 227-2.

Boilers #1, 2, 3 and #4 will will burn natural gas (Process G41) as the primary fuel, and #2 fuel oil (Process O41) as the back-up fuel. Also, Boilers #5 and #6 will will burn natural gas (Process G65) as the primary fuel, and #2 fuel oil (Process O65) as the back-up fuel. The emissions from all six boilers will exhaust through a common stack, identified as Emission Point B0001.

Building(s): ANNENBERG

Condition 36: Visible Emissions Limited
Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 211.2

Item 36.1:

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 37: Compliance Demonstration
Effective between the dates of 10/03/2011 and Permit Expiration Date

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

Item 37.1:

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

Emission Unit: U-B0001 Process: G41	Emission Point: B0001 Emission Source: BLR01
Emission Unit: U-B0001 Process: G41	Emission Point: B0001 Emission Source: BLR02
Emission Unit: U-B0001 Process: G41	Emission Point: B0001 Emission Source: BLR03
Emission Unit: U-B0001 Process: G41	Emission Point: B0001 Emission Source: BLR04

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Emission Unit: U-B0001
Process: G65

Emission Point: B0001
Emission Source: BLR05

Emission Unit: U-B0001
Process: G65

Emission Point: B0001
Emission Source: BLR06

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR01

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR02

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR03

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR04

Emission Unit: U-B0001
Process: O65

Emission Point: B0001
Emission Source: BLR05

Emission Unit: U-B0001
Process: O65

Emission Point: B0001
Emission Source: BLR06

Regulated Contaminant(s):

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

Item 37.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Mount Sinai Hospital is required to perform testing the mid-size boilers, the four 60 MM Btu/hr Victory Energy VS-4-48 replacement boilers (Emission Sources BLR01, BLR02, BLR03 & BLR04) and to the two refurbished 95 MM Btu/hr Erie City/16M Keystone boilers (Emission Sources BLR05 & BLR06) 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 six boilers operates on distillate oil (Processes O41 & O65) and on natural gas (G41 & G65).

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

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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 60 MM Btu/hr Victory Energy VS-4-48 replacement boilers (Emission Sources BLR01, BLR02, BLR03 & BLR04) and to the two refurbished 95 MM Btu/hr Erie City/16M Keystone boilers (Emission Sources BLR05 & BLR06).

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.08 pounds per million Btus

Reference Test Method: Method 7E, 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 38: Compliance Demonstration

Effective between the dates of 10/03/2011 and Permit Expiration Date

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

Item 38.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-B0001
Process: G41

Emission Point: B0001
Emission Source: BLR01

Emission Unit: U-B0001
Process: G41

Emission Point: B0001
Emission Source: BLR02

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Emission Unit: U-B0001 Process: G41	Emission Point: B0001 Emission Source: BLR03
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Emission Unit: U-B0001 Process: G41	Emission Point: B0001 Emission Source: BLR04
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Emission Unit: U-B0001 Process: G65	Emission Point: B0001 Emission Source: BLR05
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Emission Unit: U-B0001 Process: G65	Emission Point: B0001 Emission Source: BLR06
--	---

Emission Unit: U-B0001 Process: O41	Emission Point: B0001 Emission Source: BLR01
--	---

Emission Unit: U-B0001 Process: O41	Emission Point: B0001 Emission Source: BLR02
--	---

Emission Unit: U-B0001 Process: O41	Emission Point: B0001 Emission Source: BLR03
--	---

Emission Unit: U-B0001 Process: O41	Emission Point: B0001 Emission Source: BLR04
--	---

Emission Unit: U-B0001 Process: O65	Emission Point: B0001 Emission Source: BLR05
--	---

Emission Unit: U-B0001 Process: O65	Emission Point: B0001 Emission Source: BLR06
--	---

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

Item 38.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

§227-2.6 Testing, monitoring, and reporting requirements:

The owner/operator of mid-size boilers (>25 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 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) The owner or operator of the four 60 MM Btu/hr Victory

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Energy VS-4-48 replacement boilers (Emission Sources BLR01, BLR02, BLR03 & BLR04 and to the two refurbished 95 MM Btu/hr Erie City/16M Keystone boilers (Emission Sources BLR05 & BLR06) must verify NO_x emissions by performing the applicable testing or monitoring procedure detailed below:

(3) For any mid-size boiler, NO_x emissions must be

(i) measured in accordance with the emission test requirements described in subdivision (c) of this section, or

(ii) monitored with a CEMS as described in subdivision (b) of this section or with an equivalent monitoring system approved by the Department.

This condition applies to the four 60 MM Btu/hr Victory Energy VS-4-48 replacement boilers (Emission Sources BLR01, BLR02, BLR03 & BLR04 and to the two refurbished 95 MM Btu/hr Erie City/16M Keystone boilers (Emission Sources BLR05 & BLR06). The NO_x RACT for boilers operating on distillate oil/natural gas is a limit of 0.12 pounds per million Btu per hour prior to July 1, 2014 and a limit of 0.08 pounds per million Btu per hour on or after July 1, 2014.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

****** Emission Unit Level ******

Condition 39: Emission Point Definition By Emission Unit
Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable State Requirement: 6 NYCRR Subpart 201-5

Item 39.1:

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

Emission Unit: U-B0001

Emission Point: B0001

Height (ft.): 544

Length (in.): 108

Width (in.): 42

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NYTMN (km.): 4515.888 NYTME (km.): 588.234 Building: ANNENBERG

Condition 40: Process Definition By Emission Unit

Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 40.1:

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

Emission Unit: U-B0001

Process: G41

Source Classification Code: 1-02-006-02

Process Description:

Process G41 is the firing of natural gas in the operation of the four new identical boilers, Boilers # 1, #2, #3 & # 4 (Emission Sources BLR01, BLR02, BLR03 & BLR04) in Emission Unit U-B0001. Emission Sources BLR01, BLR02, BLR03 & BLR04 are four identical Victory Energy VS-4-48 boilers with a nominal rated capacity of 60 MM Btu/hr heat input and 50,000 pounds per hour of steam output each. The maximum total heat input from these four boilers is 240 MM BTU/hr. In addition to these four boilers, two more boilers (95 MM BTU/hr Erie City/16M Keystone each, are identified as Emission Sources BLR05 & BLR06, and operate on natural gas via Process G65) are collectively identified as Emission Unit U-B0001, and all of the six boilers supply both hot water and steam for the space heating and the air conditioning of the building. Emissions from all of the six boilers are exhausted through one common stack which is identified as Emission Point B0001.

Maximum natural gas consumption is 2,002 million cubic feet of gas per year for Boiler #1, Boiler #2, Boiler #3 & Boiler #6.

The installation of the Victory Energy boilers, Boilers #1, #2, #3 & #4 maintains the nominal capacity of each of these boilers at 60.3 million Btus of heat input per hour when firing natural gas and 57.6 million Btus of heat input when firing distillate fuel oil.

Emission Source/Control: BLR01 - Combustion

Design Capacity: 60 million Btu per hour

Emission Source/Control: BLR02 - Combustion

Design Capacity: 60 million Btu per hour

Emission Source/Control: BLR03 - Combustion

Design Capacity: 60 million Btu per hour

Emission Source/Control: BLR04 - Combustion

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Design Capacity: 60 million Btu per hour

Item 40.2:

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

Emission Unit: U-B0001

Process: G65

Source Classification Code: 1-02-006-02

Process Description:

Process G65 is the firing of natural gas in the operation of the two identical boilers, Boilers # 5 & # 6 (Emission Sources BLR05 & BLR06) in Emission Unit U-B0001. Emission Sources BLR05 & BLR06 are two identical Erie City/16M Keystone boilers with a nominal rated capacity of 95 MM Btu/hr heat input and 80,000 pounds per hour of steam output each at 125 psig. The maximum total heat input from these two boilers is 190 MM BTU/hr. In addition to these two boilers, four more boilers (60 MM BTU/hr Victory Energy VS-4-48 each, are identified as Emission Sources BLR01, BLR02, BLR03 & BLR04, and operate on natural gas via Process G41) are collectively identified as Emission Unit U-B0001, and all of the six boilers supply both hot water and steam for the space heating and the air conditioning of the building. Emissions from all of the six boilers are exhausted through one common stack which is identified as Emission Point B0001.

Maximum natural gas consumption is 1,585 million cubic feet of gas per year for Boiler #5 & Boiler #6.

Emission Source/Control: BLR05 - Combustion

Design Capacity: 95 million Btu per hour

Emission Source/Control: BLR06 - Combustion

Design Capacity: 95 million Btu per hour

Item 40.3:

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

Emission Unit: U-B0001

Process: O41

Source Classification Code: 1-02-004-02

Process Description:

Process O41 is the firing of #2 fuel oil in the operation of the four identical boilers, Boilers # 1, 2, 3 & 4 (Emission Sources BLR01, BLR02, BLR03 & BLR04) in Emission Unit U-B0001. Emission Sources BLR01, BLR02, BLR03 & BLR04 are two identical Victory Energy VS-4-48 boilers with a nominal rated capacity of 60 MM Btu/hr heat input and 50,000 pounds per hour of steam output each. The maximum total heat input from these four boilers is 240 MM BTU/hr. In addition to these four boilers, two more boilers (95 MM BTU/hr Erie City/16M Keystone each, are identified as Emission Sources BLR05 & BLR06, and operate

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on #2 fuel oil via Process O65) are collectively identified as Emission Unit U-B001, and all of the six boilers supply both hot water and steam for the space heating and the air conditioning of the building. Emissions from all of the six boilers are exhausted through one common stack which is identified as Emission Point B0001.

Maximum #2 fuel oil consumption is 15.017 million gallons per year for Boilers #1, Boiler #2, Boiler #3 & Boiler #4.

The installation of the Victory Energy boilers, Boilers #1, #2, #3 & #4 maintains the nominal capacity of each of these boilers at 60.3 million Btus of heat input per hour when firing natural gas and 57.6 million Btus of heat input when firing distillate fuel oil.

Emission Source/Control: BLR01 - Combustion
Design Capacity: 60 million Btu per hour

Emission Source/Control: BLR02 - Combustion
Design Capacity: 60 million Btu per hour

Emission Source/Control: BLR03 - Combustion
Design Capacity: 60 million Btu per hour

Emission Source/Control: BLR04 - Combustion
Design Capacity: 60 million Btu per hour

Item 40.4:

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

Emission Unit: U-B0001

Process: O65

Source Classification Code: 1-02-005-02

Process Description:

Process O65 is the firing of #2 fuel oil in the operation of the two identical boilers, Boilers # 5 & # 6 (Emission Sources BLR05 & BLR06) in Emission Unit U-B0001.

Emission Sources BLR05 & BLR06 are two identical Erie City/16M Keystone boilers with a nominal rated capacity of 95 MM Btu/hr heat input and 80,000 pounds per hour of steam output each at 125 psig. The maximum total heat input from these two boilers is 190 MM BTU/hr. In addition to these two boilers, four more boilers (60 MM BTU/hr Victory Energy VS-4-48 each, are identified as Emission Sources BLR01, BLR02, BLR03 & BLR04, and operate on #2 fuel oil via Process O41) are collectively identified as Emission Unit U-B0001, and all of the six boilers supply both hot water and steam for the space heating and the air conditioning of the building. Emissions from all of the six boilers are exhausted

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through one common stack which is identified as Emission Point B0001.

Maximum #2 fuel oil consumption is 11.889 million gallons per year for Boilers 5 & Boiler 6.

Emission Source/Control: BLR05 - Combustion
Design Capacity: 95 million Btu per hour

Emission Source/Control: BLR06 - Combustion
Design Capacity: 95 million Btu per hour

Condition 41: Compliance Demonstration
Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable State Requirement: 6 NYCRR 225-1.2 (a) (2)

Item 41.1:

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

Emission Unit: U-B0001 Process: O41	Emission Point: B0001 Emission Source: BLR01
Emission Unit: U-B0001 Process: O41	Emission Point: B0001 Emission Source: BLR02
Emission Unit: U-B0001 Process: O41	Emission Point: B0001 Emission Source: BLR03
Emission Unit: U-B0001 Process: O41	Emission Point: B0001 Emission Source: BLR04

Item 41.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

No person shall use, purchase, sell, or offer for sale any distillate fuel oil which has a sulfur content greater than the limit presented below. A log of the sulfur content in oil per delivery must be maintained on site for a minimum of five years after the date of the last entry.

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)

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Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2012.

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

Condition 42: Compliance Demonstration

Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable State Requirement: 6 NYCRR 225-1.2 (d)

Item 42.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR01

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR02

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR03

Emission Unit: U-B0001
Process: O41

Emission Point: B0001
Emission Source: BLR04

Emission Unit: U-B0001
Process: O65

Emission Point: B0001
Emission Source: BLR05

Emission Unit: U-B0001
Process: O65

Emission Point: B0001
Emission Source: BLR06

Item 42.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

No person will sell, offer for sale, purchase or use any distillate oil in New York City which contains sulfur in a quantity exceeding 0.20% by weight. Records of the sulfur content of each delivery must be maintained at the facility for a period of at least five years. These records must be available to the Department upon request during normal business hours.

For emission units subject to Title V, summaries of these records must be included in the semiannual reports and annual compliance certifications.

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.20 percent by weight

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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 1/30/2012.
Subsequent reports are due every 6 calendar month(s).

Condition 43: Compliance Demonstration
Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable State Requirement: 6 NYCRR 225-1.8 (a)

Item 43.1:

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

Emission Unit: U-B0001 Process: O41	Emission Point: B0001 Emission Source: BLR01
Emission Unit: U-B0001 Process: O41	Emission Point: B0001 Emission Source: BLR02
Emission Unit: U-B0001 Process: O41	Emission Point: B0001 Emission Source: BLR03
Emission Unit: U-B0001 Process: O41	Emission Point: B0001 Emission Source: BLR04

Item 43.2:

Compliance Demonstration 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, oil sulfur content, and the method used to determine the sulfur content. Such certifications shall be available for inspection by, or submittal to, NYSDEC upon request.

Monitoring Frequency: PER DELIVERY
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 44: Compliance Demonstration
Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable State Requirement: 6 NYCRR 225-1.2 (a) (2)

Item 44.1:

The Compliance Demonstration activity will be performed for the facility:

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The Compliance Demonstration applies to:

Emission Unit: U-B0001
Process: O65

Emission Point: B0001
Emission Source: BLR05

Emission Unit: U-B0001
Process: O65

Emission Point: B0001
Emission Source: BLR06

Item 44.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

No person shall use, purchase, sell, or offer for sale any distillate fuel oil which has a sulfur content greater than the limit presented below. A log of the sulfur content in oil per delivery must be maintained on site for a minimum of five years after the date of the last entry.

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: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2012.

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

Condition 45: Compliance Demonstration

Effective between the dates of 10/03/2011 and Permit Expiration Date

Applicable State Requirement: 6 NYCRR 225-1.8 (a)

Item 45.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-B0001
Process: O65

Emission Point: B0001
Emission Source: BLR05

Emission Unit: U-B0001
Process: O65

Emission Point: B0001
Emission Source: BLR06

Item 45.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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Facility DEC ID: 2620400059



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, oil sulfur content, and the method used to determine the sulfur content. Such certifications shall be available for inspection by, or submittal to, NYSDEC upon request.

Monitoring Frequency: PER DELIVERY

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

