



**Facility Identification Data**

Name: NEW YORK PRESBYTERIAN HOSPITAL  
Address: 622 WEST 168TH ST  
NEW YORK, NY 10032-3702

**Owner/Firm**

Name: NEW YORK AND PRESBYTERIAN HOSPITAL  
Address: 622 W 168TH ST  
NEW YORK, NY 10032-3702, USA  
Owner Classification: Corporation/Partnership

**Permit Contacts**

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Air Permitting Contact:  
Name: NEW YORK AND PRESBYTERIAN HOSPITAL  
Address: 622 W 168TH ST  
NEW YORK, NY 10032-3702  
Phone:2123052004

**Permit Description**  
**Introduction**

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

**Summary Description of Proposed Project**

This project consists of Title V renewal with modification to incorporate two Air State Facility permits, DEC ID # 2-6201-00005/00009 (issued on 6/9/2004) & 2-6201-00005/00011 (issued on 12/17/2004).

New York Presbyterian Hospital (NYPH) located at 622 West 168th Street, New York, NY (Uptown Campus), operates a few emission sources that include two old Combustion Engineering boilers, six emergency generators, one ethylene oxide sterilizer with a scrubber and few other exempt sources under the existing Title V permit (issued on



2/6/2002). The facility is also operating two new Babcock & Wilcox boilers under two separate Air State Facility permits, DEC ID # 2-6201-00005/00009 (issued on 6/9/2004) & 2-6201-00005/00011 (issued on 12/17/2004). This application is being submitted to modify and renew the existing Title V permit (issued on 2/6/2002).

### Attainment Status

NEW YORK PRESBYTERIAN HOSPITAL is located in the town of MANHATTAN in the county of NEW YORK.

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

Criteria Pollutant	Attainment Status
Particulate Matter (PM)	ATTAINMENT
Particulate Matter < 10 $\mu$ in diameter (PM10)	MODERATE NON-ATTAINMENT
Sulfur Dioxide (SO <sub>2</sub> )	ATTAINMENT
Ozone*	SEVERE NON-ATTAINMENT
Oxides of Nitrogen (NO <sub>x</sub> )**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT

\* Ozone is regulated in terms of the emissions of volatile organic compounds (VOC) and/or oxides of nitrogen (NO<sub>x</sub>) which are ozone precursors.

\*\* NO<sub>x</sub> has a separate ambient air quality standard in addition to being an ozone precursor

### Facility Description

New York Presbyterian Hospital (NYPH) located at 622 West 168th Street, New York, NY (Uptown Campus), operates a few emission sources that include four boilers. Two of these four boilers are old 150 MM Btu/hr Combustion Engineering (each) - Emission Sources 00004 & 00005 and they were installed on 1/1/1967, and the other two are new 137.8 MM Btu/hr Babcock & Wilcox (each) and they were installed on 6/1/2004 (Emission Source 00008) and on 12/31/2004 (Emission Source S0009). This application is submitted to modify and renew the existing Title V permit (issued on 2/6/2002) in compliance with 6NYCRR Part 201.5, and to incorporate two Air State Facility permits, DEC ID # 2-6201-00005/00009 (issued on 6/9/2004) for the first 137.8 MM Btu/hr Babcock & Wilcox boiler (Emission Source S0008) & 2-6201-00005/00011 (issued on 12/17/2004) for the second 137.8 MM Btu/hr Babcock & Wilcox boiler (Emission Source S0009).

The facility includes the following emission sources:

- (i) Two 137.8 MM Btu/hr each new Babcock & Wilcox/FM-2566 boilers, operating on both natural gas & # 6 fuel oil - Emission Sources 00008 & S0009, and
- (ii) Two 150 MM Btu/hr each Combustion Engineering/VP-12W boilers, operating on both natural gas & # 6 fuel oil - Emission Sources 00004 & 00005. These two boilers will operate at 70 % reduced operations.



(iii) One CASTLE M/C 4271 ethylene oxide sterilizer (Emission Source S0006) with built-in aerator and is also equipped with an abator - scrubber (Emission Control S0007). The sterilizer uses Oxyfume 2002 (10% Ethylene Oxide).

In addition to the three boilers mentioned above, the facility also operates one ethylene oxide sterilizer (Emission Source S0006) with a scrubber (Emission Control S0007), six emergency generators, one water cooling tower, thirteen fuel oil storage tanks and several fume hoods.

### Permit Structure and Description of Operations

The Title V permit for NEW YORK PRESBYTERIAN HOSPITAL is structured in terms of the following hierarchy: facility, emission unit, emission point, emission source and process.

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

combustion	-	devices which burn fuel to generate heat, steam or power
incinerator	-	devices which burn waste material for disposal
control	-	emission control devices
process	-	any device or contrivance which may emit air contaminants

that is not included in the above categories.

NEW YORK PRESBYTERIAN HOSPITAL is defined by the following emission unit(s):

Emission unit U00001 - Emission Unit U-00001 consists of four boilers, two boilers are 150 MM Btu/hr (each) Combustion Engineering/VP-12W (Emission Sources 00004 & 00005), and the other two boilers are 137.8 MM Btu/hr (each) Babcock & Wilcox/FM-2566 (Emission Sources 00008 & S0009). All four boilers operate on natural gas (Process 001) and #6 fuel oil (Process 002). The exhaust gases are discharged to the atmosphere via a common stack connected to the existing boilers, identified as Emission Point 00001.

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

It is further defined by the following process(es):

Process: 001 is located at BASEMENT, Building HOSPITAL - Process 001 is the firing of natural gas in Boilers 004, 005, 008 & 009 (Emission Sources 00004, 00005, 00008 & S0009) in Emission Unit U-00001. The four boilers burn natural gas (Process 001) and # 6 fuel oil (Process 002) to generate steam for heating the hospital buildings. The exhaust gases are discharged to the atmosphere via a common stack connected to the existing boilers, identified as Emission Point 00001.

To remain below New Source Review (NSR - 6NYCRR 231-2) thresholds, natural gas consumption for the first new Babcock & Wilcox boiler (Emission Source 00008) and the second new Babcock & Wilcox boiler



(Emission Source S0009) will be limited to 300 million cubic feet per year (each) of natural gas. This would limit the emission of oxides of nitrogen to below the 60 tons per year for any twelve consecutive months.

The NO<sub>x</sub> RACT limit for large boilers (a boiler with a maximum heat input capacity greater than 100 million Btu per hour and equal to or less than 250 million Btu per hour) operating on gas/oil is 0.30 lb/MM Btu.

Process: 002 is located at BASEMANT, Building HOSPITAL - Process 002 is the firing of # 6 fuel oil in Boilers 004, 005, 008 & 009 (Emission Sources 00004, 00005, 00008 & S0009) in Emission Unit U-00001. The four boilers burn natural gas (Process 001) and # 6 fuel oil (Process 002) to generate steam for heating the hospital buildings. The exhaust gases are discharged to the atmosphere via a common stack connected to the existing boilers, identified as Emission Point 00001.

To remain below Prevention of Significant Deterioration (PSD - 40 CFR 52-A.21) thresholds, # 6 fuel oil consumption for the first new Babcock & Wilcox boiler (Emission Source 00008) is limited to 1.87 million gallons per year of # 6 fuel oil, and the second new Babcock & Wilcox boiler (Emission Source S0009) is limited to 2.4 million gallons per year of # 6 fuel oil. This would limit the emission of sulfur dioxide to below the 100 tons per year for any twelve consecutive months.

The NO<sub>x</sub> RACT limit for large boilers (a boiler with a maximum heat input capacity greater than 100 million Btu per hour and equal to or less than 250 million Btu per hour) operating on gas/oil is 0.30 lb/MM Btu.

Emission unit U00002 - Emission Unit U-00002 consists of one ethylene oxide sterilizer (Emission Source S0006) with built-in aerator and is also equipped with an abator - scrubber (Emission Control S0007). The ethylene oxide sterilizer is a CASTLE M/C 4271 (Emission Source S0006) equipped with an aerator and is also equipped with an abator (scrubber) and uses Oxyfume 2002 (10% Ethylene Oxide). The scrubber is Safe-Cell 2002 ETO Scrubber Unit (Emission control S0007).

Typically, the sterilizer is operated one cycle per day, five days per week and 52 weeks per year. The emission from the sterilizer is 0.0138 pounds per hour of ethylene oxide, which is so much below the 1.0 pound per hour, which vents through an aerator and will then vent through an abator (Emission Control S0007) and then final EtO gas is discharged to the atmosphere via an independent stack, Emission Point 00002. One ethylene oxide sterilizer utilizing Oxyfume 2002 (Process ETO), which is 10 % Ethylene Oxide, for sterilizing surgical tools.

Oxyfume 2002 is composed of 10 % by weight ethylene oxide, 67 % by weight of HCFC-124 (hydrochlorofluorocarbon) and 23 % by weight of HCFC-22 (chlorodifluoromethane).

Emission unit U00002 is associated with the following emission points (EP):  
00002

It is further defined by the following process(es):

Process: ETO is located at CENTRAL STERILIZER, Building VC BLDG - Process ETO is the utilization of Oxyfume 2002 in the ethylene oxide sterilizer in Emission Unit U-00002 for sterilizing surgical tools. Oxyfume 2002 is composed of 10 % by weight ethylene oxide, 67 % by weight of HCFC-124 (hydrochlorofluorocarbon) and 23 % by weight of HCFC-22 (chlorodifluoromethane). The sterilizer has a built-in aerator and is also equipped with an abator - scrubber (Emission Control S0007). The ethylene oxide sterilizer is a CASTLE M/C 4271 (Emission Source S0006) and uses Oxyfume 2002 (10% Ethylene Oxide). The scrubber is Safe-Cell 2002 ETO Scrubber Unit (Emission control S0007).

Typically, the sterilizer is operated one cycle per day, five days per week and 52 weeks per year. The emission from the sterilizer is 0.0138 pounds per hour of ethylene oxide, which is so much below the 1.0 pound per hour, which vents through an aerator and will then vent through an abator - scrubber unit and then final EtO gas is discharged to the atmosphere via an independent stack, Emission Point 00002.



ERP = 717.6 lbs/yr x 1 yr/8,760 hrs = 0.0819 lbs/hr

PTE = 0.0138 lbs/hr x 8,760 hrs/yr = 120.9 lbs/yr

Actual = 0.0138 lbs/hr x 12 hrs/day x 260 days/yr = 43 lbs/yr

### Title V/Major Source Status

NEW YORK PRESBYTERIAN HOSPITAL is subject to Title V requirements. This determination is based on the following information:

New York Presbyterian Hospital is a major facility because the potential emissions of carbon monoxide, nitrogen oxides and volatile organic compounds are greater than the major source thresholds (100 tons/year for carbon monoxide, and 25 tons per year for both nitrogen oxides and volatile organic compounds).

### Program Applicability

The following chart summarizes the applicability of NEW YORK PRESBYTERIAN HOSPITAL with regards to the principal air pollution regulatory programs:

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

#### NOTES:

PSD Prevention of Significant Deterioration (40 CFR 52) - requirements which pertain to major stationary sources located in areas which are in attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

NSR New Source Review (6 NYCRR Part 231) - requirements which pertain to major



stationary sources located in areas which are in non-attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

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

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

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

**Title IV** Acid Rain Control Program (40 CFR 72 thru 78) - regulations which mandate the implementation of the acid rain control program for large stationary combustion facilities.

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

**RACT** Reasonably Available Control Technology (6 NYCRR Parts 212.10, 226, 227-2, 228, 229, 230, 232, 233, 234, 235, 236) - the lowest emission limit that a specific source is capable of meeting by application of control technology that is reasonably available, considering technological and economic feasibility. RACT is a control strategy used to limit emissions of VOC's and NOx for the purpose of attaining the air quality standard for ozone. The term as it is used in the above table refers to those state air pollution control regulations which specifically regulate VOC and NOx emissions.

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

### **Compliance Status**

Facility is in compliance with all requirements

### **SIC Codes**

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



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**Permit ID: 2-6201-00005/00007**

**Renewal Number: 1**

**04/01/2008**

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

<b>SIC Code</b> 8062	<b>Description</b> GENERAL MEDICAL & SURGICAL HOSPITALS
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**SCC Codes**

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

<b>SCC Code</b> 1-02-006-01	<b>Description</b> EXTERNAL COMBUSTION BOILERS - INDUSTRIAL INDUSTRIAL BOILER - NATURAL GAS Over 100 MBtu/Hr
1-02-004-01	EXTERNAL COMBUSTION BOILERS - INDUSTRIAL INDUSTRIAL BOILER - RESIDUAL OIL Grade 6 Oil
3-99-999-94	MISCELLANEOUS MANUFACTURING INDUSTRIES MISCELLANEOUS INDUSTRIAL PROCESSES Other Not Classified

**Facility Emissions Summary**

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

Cas No.	Contaminant Name	PTE	
		lbs/yr	Range
007440-38-2	ARSENIC	45.4	
007440-41-7	BERYLLIUM	1	
007440-43-9	CADMIUM	11.95	
000630-08-0	CARBON MONOXIDE	629025	
007440-47-3	CHROMIUM	43.8	
000075-21-8	ETHYLENE OXIDE	717.6	
0NY100-00-0	HAP	50.8	A
007439-92-1	LEAD	102.76	
007439-96-5	MANGANESE	5.11	
007439-97-6	MERCURY	2851	
007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS		2445357



0NY210-00-0	OXIDES OF NITROGEN	244411
0NY075-00-0	PARTICULATES	244411
0NY075-00-5	PM-10	1595182
007446-09-5	SULFUR DIOXIDE	57680
0NY998-00-0	VOC	pteyear

#### NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

**Item A: Emergency Defense - 6NYCRR Part 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 B: Public Access to Recordkeeping for Title V Facilities - 6NYCRR Part 201-1.10(b)**

The Department will make available to the public any permit



application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.

**Item C: Timely Application for the Renewal of Title V Permits - 6 NYCRR Part 201-6.3(a)(4)**

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

**Item D: Certification by a Responsible Official - 6 NYCRR Part 201-6.3(d)(12)**

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

**Item E: Requirement to Comply With All Conditions - 6 NYCRR Part 201-6.5(a)(2)**

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

**Item F: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR Part 201-6.5(a)(3)**

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

**Item G: Cessation or Reduction of Permitted Activity Not a Defense - 6NYCRR Part 201-6.5(a)(5)**

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

**Item H: Property Rights - 6 NYCRR Part 201-6.5(a)(6)**

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

**Item I: Severability - 6 NYCRR Part 201-6.5(a)(9)**



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

**Item J: Permit Shield - 6 NYCRR Part 201-6.5(g)**

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

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

**Item K: Reopening for Cause - 6 NYCRR Part 201-6.5(i)**

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

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



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

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

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

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

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

**Item L: Permit Exclusion - ECL 19-0305**

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

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

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

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**



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

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

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

### Regulatory Analysis

Location Facility/EU/EP/Process/ES	Regulation	Condition	Short Description
FACILITY		239	Powers and Duties of the Department with respect to air pollution control
U-00001/00001/002/00008	40CFR 52-A.21	129	Prevention of Significant Deterioration
U-00001/00001/002/S0009	40CFR 52-A.21	181	Prevention of Significant Deterioration
U-00001/00001/001/00008	40CFR 60-A	51	
U-00001/00001/001/S0009	40CFR 60-A	88	
U-00001/00001/002/00008	40CFR 60-A	133	
U-00001/00001/002/S0009	40CFR 60-A	185	
U-00001/00001/001/00008	40CFR 60-A.11	63	General provisions - compliance with standards and maintenance requirements
U-00001/00001/001/S0009	40CFR 60-A.11	100	General provisions - compliance with standards and maintenance requirements
U-00001/00001/002/00008	40CFR 60-A.11	145	General provisions - compliance with standards and maintenance requirements
U-00001/00001/002/S0009	40CFR 60-A.11	197	General provisions - compliance with standards and maintenance requirements
U-00001/00001/001/00008	40CFR 60-A.12	64	General provisions - Circumvention
U-00001/00001/001/S0009	40CFR 60-A.12	101	General provisions - Circumvention
U-00001/00001/002/00008	40CFR 60-A.12	146	General provisions - Circumvention
U-00001/00001/002/S0009	40CFR 60-A.12	198	General provisions - Circumvention
U-00001/00001/001/00008	40CFR 60-A.13	65	General provisions - Monitoring requirements



Permit Review Report

Permit ID: 2-6201-00005/00007

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U-00001/00001/001/S0009	40CFR 60-A.7(b)	91	Notification and Recordkeeping
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U-00001/00001/002/S0009	40CFR 60-Db.42b(a)	201	Standard for Sulfur Dioxide Firing Coal and/or Oil.
U-00001/00001/002/00008	40CFR 60-Db.42b(c)	150	Standard for Sulfur Dioxide Firing Coal or Oil for Emerging Sulfur Dioxide Controls.
U-00001/00001/002/S0009	40CFR 60-Db.42b(c)	202	Standard for Sulfur Dioxide Firing Coal or Oil for Emerging Sulfur Dioxide Controls.
U-00001/00001/002/00008	40CFR 60-Db.42b(j)	151	Exemption from Standards for Sulfur Dioxide.
U-00001/00001/002/S0009	40CFR 60-Db.42b(j)	203	Exemption from Standards for Sulfur Dioxide.
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U-00001/00001/002/S0009	40CFR 60-Db.43b(b)	205	Standard for Particulate Matter Firing Oil.
U-00001/00001/002/00008	40CFR 60-Db.43b(f)	154	Standard for Particulate Matter Opacity.
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U-00001/00001/002/S0009	40CFR 60-Db.43b(g)	207	Standard for Particulate Matter Exemption.
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U-00001/00001/001/S0009	40CFR 60-Db.44b(a) (1)	104	Standard for Nitrogen Oxides Firing Natural Gas and Distillate Oil. (see narrative)
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U-00001/00001/002/S0009	40CFR 60-Db.44b(a) (1)	208	Standard for Nitrogen Oxides Firing Natural Gas and Distillate Oil. (see narrative)
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U-00001/00001/001/00008	40CFR 60-Db.44b(h)	68	Standards for Nitrogen Oxides Provisions.
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U-00001/00001/002/00008	40CFR 60-Db.44b(h)	158	Standards for Nitrogen Oxides Provisions.
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U-00001/00001/001/S0009	40CFR 60-Db.44b(j)	107	Averaging Periods Based on Performance Testing. (see narrative)
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U-00001/00001/002/S0009	40CFR 60-Db.44b(j)	212	Averaging Periods Based on Performance Testing. (see narrative)
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U-00001/00001/002/00008	40CFR 60-Db.44b(k)	161	Exemption from the Standards for Nitrogen Oxides. (see narrative)
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U-00001/00001/002/S0009	40CFR 60-Db.47b(f)	217, 218	Exemption from Emission Monitoring for Sulfur Dioxide.
U-00001/00001/001/00008	40CFR 60-Db.48b(a)	74	Emissions Monitoring for Particulate Matter and Nitrogen Oxides.
U-00001/00001/001/S0009	40CFR 60-Db.48b(a)	111	Emissions Monitoring for Particulate Matter and Nitrogen Oxides.
U-00001/00001/002/00008	40CFR 60-Db.48b(a)	167	Emissions Monitoring for Particulate Matter and Nitrogen Oxides.
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U-00001/00001/001/00008	40CFR 60-Db.48b(b)	75	Emission Monitoring for Particulate Matter and Nitrogen Oxides.
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U-00001/00001/002/00008	40CFR 60-Db.48b(b)	168	Emission Monitoring for Particulate Matter and Nitrogen Oxides.
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U-00001/00001/001/00008	40CFR 60-Db.48b(f)	76	Emission Monitoring for Particulate Matter and Nitrogen Oxides.
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U-00001/00001/002/00008	40CFR 60-Db.48b(f)	169	Emission Monitoring for Particulate Matter and Nitrogen Oxides.
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U-00001/00001/002/S0009	40CFR 60-Db.49b(e)	225	Reporting and Recordkeeping Requirements.
U-00001/00001/002/00008	40CFR 60-Db.49b(f)	174	Reporting and Recordkeeping Requirements.
U-00001/00001/002/S0009	40CFR 60-Db.49b(f)	226	Reporting and Recordkeeping Requirements.
U-00001/00001/001/00008	40CFR 60-Db.49b(g)	80	Reporting and Recordkeeping Requirements.
U-00001/00001/001/S0009	40CFR 60-Db.49b(g)	117	Reporting and Recordkeeping Requirements.
U-00001/00001/002/00008	40CFR 60-Db.49b(g)	175	Reporting and Recordkeeping Requirements.
U-00001/00001/002/S0009	40CFR 60-Db.49b(g)	227	Reporting and Recordkeeping Requirements.
U-00001/00001/001/00008	40CFR 60-Db.49b(h)	81	Reporting and Recordkeeping Requirements.
U-00001/00001/001/S0009	40CFR 60-Db.49b(h)	118	Reporting and Recordkeeping Requirements.
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U-00001/00001/001/S0009	40CFR 60-Db.49b(o)	120	Reporting and Recordkeeping Requirements.
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U-00001/00001/001/S0009	6NYCRR 201-7	84	Federally Enforceable Emissions Caps
U-00001/00001/002/00008	6NYCRR 201-7	129	Federally Enforceable Emissions Caps
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U-00001/00001/001/00008	6NYCRR 227-2.4 (b)	48	Control Requirements for large boilers.
U-00001/00001/001/S0009	6NYCRR 227-2.4 (b)	85	Control Requirements for large boilers.
U-00001/00001/002/00004	6NYCRR 227-2.4 (b)	123	Control Requirements for large boilers.
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U-00001/00001/002/00008	6NYCRR 227-2.4 (b)	130	Control Requirements for large boilers.
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U-00001/00001/001/00005	6NYCRR 227-2.6 (a) (3)	45	Testing, monitoring, reporting requirements for large boilers.
U-00001/00001/001/00008	6NYCRR 227-2.6 (a) (3)	49	Testing, monitoring, reporting requirements for large boilers.
U-00001/00001/001/S0009	6NYCRR 227-2.6 (a) (3)	86	Testing, monitoring, reporting requirements for large boilers.
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U-00001/00001/002/00005	6NYCRR 227-2.6 (a) (3)	127	Testing, monitoring, reporting requirements for large boilers.
U-00001/00001/002/00008	6NYCRR 227-2.6 (a) (3)	131	Testing, monitoring, reporting requirements for large boilers.
U-00001/00001/002/S0009	6NYCRR 227-2.6 (a) (3)	183	Testing, monitoring, reporting requirements for large boilers.
U-00001/00001	6NYCRR 227-2.6 (b)	38	
U-00001/00001/001/00004	6NYCRR 227-2.6 (c)	43	
U-00001/00001/001/00005	6NYCRR 227-2.6 (c)	46	
U-00001/00001/001/00008	6NYCRR 227-2.6 (c)	50	
U-00001/00001/001/S0009	6NYCRR 227-2.6 (c)	87	
U-00001/00001/002/00004	6NYCRR 227-2.6 (c)	125	
U-00001/00001/002/00005	6NYCRR 227-2.6 (c)	128	
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Nonattainment Areas and  
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**Applicability Discussion:**

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

ECL 19-301.

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

6NYCRR Part 200-.6

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

6NYCRR Part 200-.7

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

6NYCRR Part 201-1.4

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

6NYCRR Part 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6NYCRR Part 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6NYCRR Part 201-3.2(a)

An owner and/or operator of an exempt emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains exempt emission sources or units, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

6NYCRR Part 201-3.3(a)

The owner and/or operator of a trivial emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All



required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains trivial emission sources or units subject to this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

6NYCRR Part 201-6

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

6NYCRR 201-6.5(a)(4)

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

6NYCRR 201-6.5(a)(7)

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

6NYCRR 201-6.5(a)(8)

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

6NYCRR Part 201-6.5(c)

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

6NYCRR Part 201-6.5(c)(2)

This requirement specifies that all compliance monitoring and recordkeeping is to be conducted according to the terms and conditions of the permit and follow all QA requirements found in applicable regulations. It also requires monitoring records and supporting information to be retained for at least 5 years from the time of sampling, measurement, report or application. Support information is defined as



including all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

6NYCRR Part 201-6.5(c)(3)(ii)

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

6NYCRR 201-6.5(d)(5)

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

6NYCRR Part 201-6.5(e)

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

6NYCRR 201-6.5(f)(6)

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

6NYCRR Part 202-1.1

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

6NYCRR Part 202-2.1

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

6NYCRR Part 202-2.5

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

6NYCRR Part 211-.2

This regulation prohibits any emissions of air contaminants to the outdoor atmosphere which may be detrimental to human, plant or animal life or to property, or which unreasonably interferes with the comfortable enjoyment of life or property regardless of the existence of any specific air quality standard or emission limit.

6 NYCRR Part 211.3

This condition requires that the opacity (i.e., the degree to which emissions other than water reduce the transmission of light) of the emissions from any air contamination source be less than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent.



6 NYCRR Part 215

Prohibits open fires at industrial and commercial sites.

40 CFR Part 68.

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

40 CFR Part 82, Subpart F

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

**Facility Specific Requirements**

In addition to Title V, NEW YORK PRESBYTERIAN HOSPITAL has been determined to be subject to the following regulations:

40CFR 52-A.21

This citation applies to facilities that are subject to Prevention of Significant Deterioration provisions; ie: facilities that are located in an attainment area and that emit pollutants which are listed in 40 CFR 52.21(b)(23)(i) .

40CFR 60-A

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

40CFR 60-A.11

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

40CFR 60-A.12

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

40CFR 60-A.13

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

40CFR 60-A.13 (c)

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



40CFR 60-A.14

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

40CFR 60-A.15

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

40CFR 60-A.4

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

40CFR 60-A.7 (a)

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

40CFR 60-A.7 (b)

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

40CFR 60-A.7 (c)

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

40CFR 60-A.7 (d)

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

40CFR 60-A.7 (f)

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

40CFR 60-A.8 (a)

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

40CFR 60-A.8 (b)

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

40CFR 60-A.8 (c)

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

40CFR 60-A.8 (d)



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

40CFR 60-A.8 (e)

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

40CFR 60-A.8 (f)

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

40CFR 60-A.9

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

40CFR 60-Db.42b (a)

This regulation calls for a 90% reduction in the emissions of sulfur dioxide from facilities that burn coal or oil.

40CFR 60-Db.42b (c)

This regulation is an NSPS optional for Sulfur Dioxide standard. This regulation sets the standard for Sulfur Dioxide firing coal or oil for emerging Sulfur Dioxide controls. Affected facilities shall achieve a 50 % reduction in sulfur dioxide emissions, and meet the following standard;

$$Es = (KcHc + KdHd)(Hc - Hd)_:$$

Where:

Es = Sulfur Dioxide Standard,  
Kc = 0.6lb/mmBtu  
Kd = 0.4lb/mmBtu,  
Hc = Heat input from coal,  
Hd = heat input from oil.

40CFR 60-Db.42b (j)

This subdivision contains an exemption from the percent reduction requirements if the affected facility fires very low sulfur content oil.

40CFR 60-Db.42b (j) (2)

This regulation is for exemption from standards for sulfur dioxide. This regulation specifies that the owner/operator maintains file of fuel receipts in accordance with 40 CFR 49b(r).

40CFR 60-Db.43b (b)

This regulation is for the Particulate matter standard. The regulation specifies maximum allowable Particulate matter emissions oil or oil and other fuels of 0.10 lb/mmBtu for affected sources.

40CFR 60-Db.43b (f)

This regulation specifies maximum allowable opacity for affected affected sources. The opacity of the emission may not exceed 20%, except for one six minute period when the maximum opacity may not exceed 27%.

40CFR 60-Db.43b (g)

This regulation specifies that the particulate matter and opacity standards apply at all times, except during periods of startup, shutdown or malfunction.

40CFR 60-Db.44b (a) (1)



These standards apply to all boilers firing natural gas and/or distillate oil except as provided in 40 CFR 60.44b(a)(4) Duct Burners Used in a Combined Cycle System.

40CFR 60-Db.44b (a) (2)

This regulation specifies that the NSPS standard for nitrogen oxides emissions while firing residual oil in low heat release rate units shall not exceed 0.30 lbs/mmBtu.

40CFR 60-Db.44b (h)

This regulation specifies that the NSPS nitrogen oxide standards apply at all time including periods of startup, shutdown, or malfunction.

40CFR 60-Db.44b (i)

This subdivision requires that the facility use a 30 day rolling average to determine compliance with any applicable standards in this Subpart.

40CFR 60-Db.44b (j)

1) Combust, alone or in combination, only natural gas, distillate oil, or residual oil with a nitrogen content less than 0.30% by weight,

2) Have a combined annual capacity factor of 10% or less of natural gas, distillate oil, and residual oil with a nitrogen content of 0.30% by weight, and

3) Are subject to federally enforceable conditions limiting the above mentioned conditions.

40CFR 60-Db.44b (k)

1) Combust, alone or in combination, only natural gas, distillate oil, or residual oil with a nitrogen content less than 0.30% by weight,

2) Have a combined annual capacity factor of 10% or less of natural gas, distillate oil, and residual oil with a nitrogen content of 0.30% by weight, and

3) Are subject to federally enforceable conditions limiting the above mentioned conditions.

40CFR 60-Db.45b (j)

This regulation specifies that owner or operators that combust very low sulfur oil are not subject to compliance and performance testing requirements for Sulfur Dioxide if they obtain fuel receipts as described in 40 CFR 60.49b(r)

40CFR 60-Db.46b

This section sets the compliance and performance test methods and procedures for emissions of particulate matter and oxides of nitrogen.

40CFR 60-Db.46b (e)

This regulation specifies compliance and performance test methods and procedures for particulate matter and nitrogen oxides.

40CFR 60-Db.47b (f)

Facilities combusting very low sulfur oil are not subject to emission monitoring requirements of the section if they obtain fuel receipts as described in 40 CFR 60-Db.49b(r).

40CFR 60-Db.48b (a)

This subdivision requires the installation of a continuous opacity monitor.



40CFR 60-Db.48b (b)

This regulation requires the owner or operator of the facility to install and operate a continuous emissions monitor to monitor emissions of oxides of nitrogen from the facility.

40CFR 60-Db.48b (f)

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

40CFR 60-Db.49b (a)

This subdivision requires reporting and recordkeeping for affected steam generating units - initial notification.

40CFR 60-Db.49b (b)

This subdivision requires reporting and recordkeeping for affected steam generating units - initial performance and CEM testing.

40CFR 60-Db.49b (e)

This regulation is for reporting and recordkeeping requirements. This regulation specifies that the owner or operator shall maintain records of the nitrogen content of the residual oil combusted in the affected facility and calculate the average fuel nitrogen content on a per calendar quarter basis.

40CFR 60-Db.49b (f)

This subdivision specifies that monitored opacity records must be kept at the facility.

40CFR 60-Db.49b (g)

This subdivision requires reporting and recordkeeping for affected steam generating units - specific oxides of nitrogen requirements.

40CFR 60-Db.49b (h)

This subdivision specifies that the facility must submit excess emission reports.

40CFR 60-Db.49b (i)

This subdivision specifies that the facility submit reports on oxides of nitrogen emissions in accordance with the required recordkeeping provisions of 40 CFR 60.49b(g).

40CFR 60-Db.49b (j)

This subdivision specifies that the facility submit reports on sulfur dioxide emission records.

40CFR 60-Db.49b (o)

This regulation is for reporting and recordkeeping requirements. This regulation specifies that the owner or operator of the affected facility shall maintain all records required under this section for a period of 2 years following the date of such report.

40CFR 60-Db.49b (r)

This regulation specifies that owner or operators that combust very low sulfur oil are required to obtain fuel receipts. The oil need not meet the fuel nitrogen content specification in the definition of distillate oil. Reports shall be submitted to the Administrator certifying that only very low sulfur oil meeting this definition was combusted

6NYCRR 201-7

This regulation sets forth an emission cap that cannot be exceeded by the facility. In this permit that cap is 300 million CFY of natural gas for each of the two new 137.8 MM Btu/hr boilers (Emission Sources 00008 & S0009). Also, # 6 fuel oil is limited to 1.87 million and 2.40 million GPY in the two new 137.8 MM Btu/hr boilers (Emission Sources 00008 & S0009); respectively.



6NYCRR 212 .2

This regulation is a SIP regulation, which specifies determination of environmental rating. When an application is made for a permit to construct or for a certificate to operate for a process emission source, the commissioner will issue an environmental rating for each air contaminant from each emission point in accordance with Table 1 of 6 NYCRR 212.2.

Ethylene oxide is listed in Table II of Air Guide 1 as a high toxicity air contaminant due to the high potential for causing adverse effects on receptors or the environment as a result of exposure. As such, according to the criteria of Table 1 of 6 NYCRR 212.2, an "A" environmental rating is assigned. Therefore, the owner or the operator of the affected facility must control ethylene oxide emissions to achieve 99% contaminant capture. This is usually achieved by the installation and use of an abator.

6NYCRR 212 .3 (a)

This rule requires compliance with the degree of control specified in Tables 2, 3 and 4 for existing (on or before July 1, 1973) process emission sources.

6NYCRR 212 .6 (a)

This rule specifies an opacity limitation of less than 20% for any six consecutive minute period for all process emission sources.

6NYCRR 212 .9 (b)

This section refers to Table 2 which specifies the degree of control required for Gases and Liquid Particulate Emissions (Environmental Rating of A, B, C or D) and Solid Particulate Emissions (Environmental Rating A or D) but excluding Volatile Organic Compound Emissions in the New York City Metropolitan Area.

6NYCRR 225 .1 (a) (3)

This regulation limits the amount of sulfur that can be in fuel burned at a stationary source. It references Table 1 of the 1979 version of the sulfur in fuel limitations expressed in terms of percent by weight for fuel oil and pounds per million Btu gross heat content for solid fuel. **NOTE: This citation has been replaced by requirements cited under 225-1.2(a)(2) and is no longer part of current State regulations, however, it remains part of New York State's approved State Implementation Plan (SIP).**

6NYCRR 225-1.2 (a) (2)

This regulation prohibits any person from selling, offering for sale, purchasing or using any fuel which contains sulfur in a quantity exceeding the limitations set forth in Table 1, Table 2, or Table 3 of this section.

6NYCRR 225-1.8

This regulation requires an owner or operator of a facility which purchases and fires coal and/or oil to submit reports to the commissioner containing fuel analysis data, information on the quantity of the fuel received, burned, and results of any stack sampling, stack monitoring and any other procedures to ensure compliance with the provisions of 6 NYCRR Part 225-1.

6NYCRR 227 .2 (b) (1)

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

6NYCRR 227-1.3 (a)

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



6NYCRR 227-2.1 (a) (5)

This condition notes that a facility is subject to the reasonably available control technology (RACT) for oxides of nitrogen (NO<sub>x</sub>).

6NYCRR 227-2.4 (b)

This paragraph provides a table for gas only, gas and/or oil firing capable, pulverized coal, and overfeed stoker emission limits. Compliance is determined by a stack test.

6NYCRR 227-2.5 (a)

This regulation is for fuel switching. This regulation recommends the owner or operator to comply with the conditions developed to implement the fuel switching option.

The emission limits associated with fuel switching is a special condition. The fuel switching plan should be included in the approved compliance plan and should be referenced here. The fuel switching must result in quantifiable annual NO<sub>x</sub> emissions equal to or less than the NO<sub>x</sub> emissions expected if the combustion installation complied with the emission limits in 227-2.4. The cleaner fuel must be utilized during the ozone season.

6NYCRR 227-2.6 (a) (3)

This regulation requires the owner/operator of large boilers to measure NO<sub>x</sub> emissions by performing stack tests described in 6 NYCRR Part 227-2.6(c). However, the permit requires installation of continuous emissions monitoring system (CEMS) as described in 6 NYCRR Part 227-2.6(b) for compliance monitoring.

6NYCRR 227-2.6 (b)

Any owner or operator of a combustion source subject to reasonably available control technology (RACT) requirements, under this subdivision, for NO<sub>x</sub> and either is required or opts to employ a continuous emissions monitoring system (CEMS) must:

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

6NYCRR 227-2.6 (c)

This regulation is a SIP regulation. This citation is for stack test requirements. The owner or operator of the facility is required to test for NO<sub>x</sub> emission and follow monitoring and reporting requirements. The stack testing for NO<sub>x</sub> emission requires the facility to:

- (1) Submit a compliance test protocol to the department for approval at least 30 days prior to emission testing. The condition of the testing and the locations of the sampling devices must be acceptable to the department; and
- (2) Utilize procedures set forth in 40 CFR Part 60, Appendix A or any other method acceptable to the department and EPA for determining compliance with the appropriate NO<sub>x</sub> limit in section 227-2.4 of this Subpart, and shall follow the procedures set forth in Part 202 of this Title.
  - (i) For large and mid-size boilers, utilize Method 7, 7E, or 19 from 40 CFR Part 60, Appendix A or another reference method approved by the department.
  - (ii) For simple cycle combustion turbines, utilize Method 20 from 40 CFR Part 60, Appendix A or another reference method approved by the department.
  - (iii) For combined cycle combustion turbines, utilize Method 7, 7E, or 19 from 40 CFR Part 60, Appendix A or



another reference method approved by the department.

(iv) For internal combustion engines, utilize Method 7, 7E or 19 from 40 CFR Part 60, Appendix A or another reference method approved by the department.

#### 6NYCRR 231-2

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

#### **Compliance Certification**

Summary of monitoring activities at NEW YORK PRESBYTERIAN HOSPITAL:

<b>Location Facility/EU/EP/Process/ES</b>	<b>Cond No.</b>	<b>Type of Monitoring</b>
FACILITY	31	record keeping/maintenance procedures
U-00001/00001/001	40	record keeping/maintenance procedures
U-00001/00001/002	122	record keeping/maintenance procedures
U-00001/00001/002/00008	152	work practice involving specific operations
U-00001/00001/002/S0009	204	work practice involving specific operations
U-00001/00001/002/00008	153	intermittent emission testing
U-00001/00001/002/S0009	205	intermittent emission testing
U-00001/00001/002/00008	154	monitoring of process or control device parameters as surrogate
U-00001/00001/002/S0009	206	monitoring of process or control device parameters as surrogate
U-00001/00001/001/00008	67	continuous emission monitoring (cem)
U-00001/00001/001/S0009	104	continuous emission monitoring (cem)
U-00001/00001/002/00008	156	continuous emission monitoring (cem)
U-00001/00001/002/S0009	208	continuous emission monitoring (cem)
U-00001/00001/001/00008	70	record keeping/maintenance procedures
U-00001/00001/001/S0009	107	record keeping/maintenance procedures
U-00001/00001/002/00008	160	record keeping/maintenance procedures
U-00001/00001/002/S0009	212	record keeping/maintenance procedures
U-00001/00001/001/00008	71	record keeping/maintenance procedures
U-00001/00001/001/S0009	108	record keeping/maintenance procedures
U-00001/00001/002/00008	161	record keeping/maintenance procedures
U-00001/00001/002/S0009	213	record keeping/maintenance procedures
U-00001/00001/002/00008	162	record keeping/maintenance procedures
U-00001/00001/002/S0009	214	record keeping/maintenance procedures
U-00001/00001/001/00008	73	continuous emission monitoring (cem)

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U-00001/00001/001/S0009	110	continuous emission monitoring (cem)
U-00001/00001/002/00008	164	continuous emission monitoring (cem)
U-00001/00001/002/S0009	216	continuous emission monitoring (cem)
U-00001/00001/002/00008	166	work practice involving specific operations
U-00001/00001/002/S0009	218	work practice involving specific operations
U-00001/00001/001/00008	74	monitoring of process or control device parameters as surrogate
U-00001/00001/001/S0009	111	monitoring of process or control device parameters as surrogate
U-00001/00001/002/00008	167	monitoring of process or control device parameters as surrogate
U-00001/00001/002/S0009	219	monitoring of process or control device parameters as surrogate
U-00001/00001/001/00008	75	continuous emission monitoring (cem)
U-00001/00001/001/S0009	112	continuous emission monitoring (cem)
U-00001/00001/002/00008	168	continuous emission monitoring (cem)
U-00001/00001/002/S0009	220	continuous emission monitoring (cem)
U-00001/00001/001/00008	77	record keeping/maintenance procedures
U-00001/00001/001/S0009	114	record keeping/maintenance procedures
U-00001/00001/002/00008	170	record keeping/maintenance procedures
U-00001/00001/002/S0009	222	record keeping/maintenance procedures
U-00001/00001/001/00008	78	record keeping/maintenance procedures
U-00001/00001/001/00008	79	record keeping/maintenance procedures
U-00001/00001/001/S0009	115	record keeping/maintenance procedures
U-00001/00001/001/S0009	116	record keeping/maintenance procedures
U-00001/00001/002/00008	171	record keeping/maintenance procedures
U-00001/00001/002/00008	172	record keeping/maintenance procedures
U-00001/00001/002/S0009	223	record keeping/maintenance procedures
U-00001/00001/002/S0009	224	record keeping/maintenance procedures
U-00001/00001/002/00008	173	work practice involving specific operations
U-00001/00001/002/S0009	225	work practice involving specific operations
U-00001/00001/002/00008	174	record keeping/maintenance procedures
U-00001/00001/002/S0009	226	record keeping/maintenance procedures
U-00001/00001/001/00008	80	record keeping/maintenance procedures
U-00001/00001/001/S0009	117	record keeping/maintenance procedures
U-00001/00001/002/00008	175	record keeping/maintenance procedures
U-00001/00001/002/S0009	227	record keeping/maintenance procedures
U-00001/00001/001/00008	81	record keeping/maintenance procedures
U-00001/00001/001/S0009	118	record keeping/maintenance



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U-00001/00001/002/00008	176	procedures record keeping/maintenance
U-00001/00001/002/S0009	228	procedures record keeping/maintenance
U-00001/00001/001/00008	82	procedures record keeping/maintenance
U-00001/00001/001/S0009	119	procedures record keeping/maintenance
U-00001/00001/002/00008	177	procedures record keeping/maintenance
U-00001/00001/002/S0009	229	procedures record keeping/maintenance
U-00001/00001/002/00008	178	procedures record keeping/maintenance
U-00001/00001/002/S0009	230	procedures record keeping/maintenance
U-00001/00001/002/00008	180	procedures record keeping/maintenance
U-00001/00001/002/S0009	232	procedures record keeping/maintenance
FACILITY	5	procedures record keeping/maintenance
FACILITY	6	procedures record keeping/maintenance
U-00001/00001/001/00008	47	work practice involving specific operations
U-00001/00001/001/S0009	84	work practice involving specific operations
U-00001/00001/002/00008	129	work practice involving specific operations
U-00001/00001/002/S0009	181	work practice involving specific operations
FACILITY	7	procedures record keeping/maintenance
U-00002/00002/ETO/S0007	233	work practice involving specific operations
U-00002/00002/ETO/S0007	236	monitoring of process or control device parameters as surrogate
U-00002/00002/ETO/S0007	237	procedures record keeping/maintenance
U-00002/00002/ETO/S0007	238	procedures record keeping/maintenance
FACILITY	28	work practice involving specific operations
FACILITY	25	work practice involving specific operations
FACILITY	26	work practice involving specific operations
FACILITY	27	procedures record keeping/maintenance
U-00001/00001/002	121	intermittent emission testing
FACILITY	29	monitoring of process or control device parameters as surrogate
U-00001/00001	37	procedures record keeping/maintenance
U-00001/00001/001/00004	41	monitoring of process or control device parameters as surrogate
U-00001/00001/001/00005	44	monitoring of process or control device parameters as surrogate
U-00001/00001/001/00008	48	monitoring of process or control device parameters as surrogate
U-00001/00001/001/S0009	85	monitoring of process or control device parameters as surrogate
U-00001/00001/002/00004	123	monitoring of process or control device parameters as surrogate



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U-00001/00001/002/00005	126	monitoring of process or control device parameters as surrogate
U-00001/00001/002/00008	130	monitoring of process or control device parameters as surrogate
U-00001/00001/002/S0009	182	monitoring of process or control device parameters as surrogate
FACILITY	30	record keeping/maintenance procedures
U-00001/00001/001/00004	42	intermittent emission testing
U-00001/00001/001/00005	45	intermittent emission testing
U-00001/00001/001/00008	49	continuous emission monitoring (cem)
U-00001/00001/001/S0009	86	continuous emission monitoring (cem)
U-00001/00001/002/00004	124	intermittent emission testing
U-00001/00001/002/00005	127	intermittent emission testing
U-00001/00001/002/00008	131	continuous emission monitoring (cem)
U-00001/00001/002/S0009	183	continuous emission monitoring (cem)
U-00001/00001	38	record keeping/maintenance procedures
U-00001/00001/001/00004	43	intermittent emission testing
U-00001/00001/001/00005	46	intermittent emission testing
U-00001/00001/001/00008	50	intermittent emission testing
U-00001/00001/001/S0009	87	intermittent emission testing
U-00001/00001/002/00004	125	intermittent emission testing
U-00001/00001/002/00005	128	intermittent emission testing
U-00001/00001/002/00008	132	intermittent emission testing
U-00001/00001/002/S0009	184	intermittent emission testing

**Basis for Monitoring**

New York Presbyterian Hospital (NYPH) located at 622 West 168th Street, New York, NY (Uptown Campus) is subject to the requirements of Title V. The facility is required, under the provisions of 6 NYCRR Subpart 201-6, to submit semiannual compliance reports and an annual Compliance Certification. This facility has to comply with the following monitoring conditions:

New York State Department of Environmental Conservation



Permit ID: 2-6201-00005/00007

Permit Review Report  
Renewal Number: 1

04/01/2008

New York State Department of Environmental Conservation



Permit ID: 2-6201-00005/00007

Permit Review Report  
Renewal Number: 1

04/01/2008