



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

**Permit ID: 2-6002-00055/00007**

**Renewal Number: 2**

**11/01/2011**

**Facility Identification Data**

Name: NORTH CENTRAL BRONX HOSPITAL

Address: 3424 KOSSUTH AVE

BRONX, NY 10467

**Owner/Firm**

Name: NYC HEALTH & HOSPITALS CORP

Address: 125 WORTH STREET

NEW YORK, NY 10013-4006, USA

Owner Classification: Corporation/Partnership

**Permit Contacts**

Division of Environmental Permits:

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LONG ISLAND CITY, NY 11101-5407

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Division of Air Resources:

Name: DIANA MENASHA

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HUNTERS POINT PLAZA

LONG ISLAND CITY, NY 11101

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Air Permitting Contact:

Name: DENNIS STIVELLA

Address: NYC-HH-NORTH CENTRAL BRONX HOSPITAL

3424 KOSSUTH AVE

BRONX, NY 10467

Phone: 7185193562

**Permit Description**

**Introduction**

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

**Summary Description of Proposed Project**

Application for Renewal #2 of Air Title V Facility. This application is submitted to renew the Title V permit that expires on 10/31/2011.



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The facility has had no major functional changes during this past 5 year permit term.

NYC-HH - North Central Bronx Hospital (NCBH) is a Title V facility, operating five (5) boilers, two (2) exempt emergency diesel generators, four (4) fuel oil storage tanks and three (3) fume hoods. The two emergency generators are 750 KW each. An Ethylene Oxide sterilizer was removed from the facility on 8/31/2005.

**Attainment Status**

NORTH CENTRAL BRONX HOSPITAL is located in the town of BRONX in the county of BRONX. The attainment status for this location is provided below. (Areas classified as attainment are those that meet all ambient air quality standards for a designated criteria air pollutant.)

Criteria Pollutant	Attainment Status
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Particulate Matter (PM)	ATTAINMENT
Particulate Matter< 10µ in diameter (PM10)	ATTAINMENT
Sulfur Dioxide (SO2)	ATTAINMENT
Ozone*	SEVERE NON-ATTAINMENT
Oxides of Nitrogen (NOx)**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT
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\* Ozone is regulated in terms of the emissions of volatile organic compounds (VOC) and/or oxides of nitrogen (NOx) which are ozone precursors.

\*\* NOx has a separate ambient air quality standard in addition to being an ozone precursor.

**Facility Description:**

NYC-HH - North Central Bronx Hospital (NCBH) is located at 3424 Kossuth Avenue in the Bronx. This facility is a Title V facility, operating five (5) boilers, two (2) exempt emergency diesel generators, four (4) fuel oil storage tanks and three (3) fume hoods. The Ethylene Oxide sterilizer was removed from the facility on 8/31/2005. All of the five boilers use natural gas as the primary fuel and # 2 fuel oil as the secondary fuel. This application is submitted to renew the Title V permit that expires on 10/31/2011.

NYC-HH - North Central Bronx Hospital, located at 3424 Kossuth Avenue in Bronx, New York, is a 255 -bed renowned hospital which provides healthcare. The Industrial Classification Code (SIC) for this facility is 8062 - General Medical and Surgical Hospitals.

NYC-HH - North Central Bronx Hospital operates boilers which supply steam for the space heating of the building. The steam is produced by five (5) boilers (Emission Sources S0001, S0002, S0003, S0004 & S0005) operating on dual fuel, natural gas and #2 fuel oil. Natural gas is used as the primary fuel and #2 fuel oil as a secondary fuel. The boiler associated with Emission Source S0001 is 58 million BTU per hour Cleaver Brooks CB DL 60 and was constructed on 1/1/1981, the two (2) boilers associated with Emission Sources S0002 & S0003 are 24 million BTU per hour Bryan Steam each and were constructed on 1/1/1999 and the two (2) boilers associated with Emission Sources S0004 & S0005 are 24 million BTU



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per hour Bryan Steam each and were constructed on 1/1/2000. The five (5) boilers are collectively identified as Emission Unit U-00001. When the five (5) boilers operate on natural gas, this is defined as Process BNG, and when the five (5) boilers operate on # 2 fuel oil, this is defined as Process B02. Emissions from the five (5) boilers are exhausted through one common stack, which is identified as Emission Point 00001. The facility has removed the Ethylene Oxide sterilizer (Emission Source S0006 in Emission Unit U-00002) on 8/31/2005.

The facility operates other sources which are considered exempt from permitting in accordance with 6 NYCRR 201-3.2(c), including two (2) emergency power generators (<500 hours/yr), four (4) fuel oil storage tanks (<300,000 bbls) and three (3) ventilating and exhaust systems (fumehoods) for laboratory operations (one in the laboratory and two in the pharmacy).

**Permit Structure and Description of Operations**

The Title V permit for NORTH CENTRAL BRONX 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.

NORTH CENTRAL BRONX HOSPITAL is defined by the following emission unit(s):

Emission unit U00001 - Emission Unit U-00001 consists of four (4) 24 million BTU/hr Bryan Steam Boilers (Emission Sources S0002, S0003, S0004 & S0005) and one (1) 58 million Btu/hr Cleaver Brooks boiler (Emission Source S0001), Model DL60 with CN burners. All four Bryant Steam boilers (24 MM Btu/hr each - emission sources S0002, S0003, S0004 & S0005) are dual-fired and operate primarily on natural gas (Process BNG) and secondary on # 2 fuel oil (Process B02). Exhaust gases are discharged to the atmosphere via a common stack, identified as Emission Point 00001. Typically, three small boilers are operating at all times.

The Cleaver Brooks boiler may be on 5% of the time. One of the small boilers and the large boiler are on standby.



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

Process: B02 is located at 3RD BASEMENT, Building MAIN -

Process: BNG is located at 3RD BASEMENT, Building MAIN -

**Title V/Major Source Status**

NORTH CENTRAL BRONX HOSPITAL is subject to Title V requirements. This determination is based on the following information:

NYC-HH - N Central Bronx Hospital is a major facility because the potential emissions of nitrogen oxides is greater than the major source thresholds, which is 25 tons per year for nitrogen oxides.

**Program Applicability**

The following chart summarizes the applicability of NORTH CENTRAL BRONX 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,



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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 establishment is assigned an industry code on the basis

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

**SIC Code**

**Description**

8062

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.

**SCC Code**

**Description**

1-03-005-02	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - DISTILLATE OIL 10-100MMBTU/HR **
1-03-006-02	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - NATURAL GAS 10-100 MMBtu/Hr

**Facility Emissions Summary**

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

Cas No.	Contaminant Name	PTE	Range
		lbs/yr	
000630-08-0	CARBON MONOXIDE		>= 2.5 tpy but < 10 tpy
0NY100-00-0	HAP		> 0 but < 10 tpy
0NY210-00-0	OXIDES OF NITROGEN		>= 2.5 tpy but < 10 tpy
0NY075-00-0	PARTICULATES		> 0 but < 2.5 tpy
0NY075-00-5	PM-10		> 0 but < 2.5 tpy
000115-07-1	PROPYLENE		>= 2.5 tpy but < 10 tpy
007446-09-5	SULFUR DIOXIDE		> 0 but < 2.5 tpy
0NY998-00-0	VOC		> 0 but < 2.5 tpy

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**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

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

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

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- 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 - 6 NYCRR 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 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.



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**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.

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**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
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FACILITY	ECL 19-0301	53	Powers and Duties of the Department with respect to air pollution control
U-00001/00001/B02/S0002	40CFR 60-A	40	General provisions
FACILITY	40CFR 60-A.4	32	General provisions - Address
FACILITY	40CFR 60-Dc.40c	33	Steam generators 10-100 million Btu per hour
U-00001/00001/B02/S0002	40CFR 60-Dc.40c	41	Steam generators 10-100 million Btu per hour
U-00001/00001/B02/S0002	40CFR 60-Dc.42c (h)	42	Exemption from Averaging Requirements
U-00001/00001/B02/S0002	40CFR 60-Dc.42c (i)	43	Standard for Sulfur Dioxide Period of Requirements.
U-00001/00001/B02/S0002	40CFR 60-Dc.46c (d) (2)	44	Alternative sulfur dioxide emissions monitoring.
U-00001/00001/B02/S0002	40CFR 60-Dc.46c (e)	45	Exemption from Emission Monitoring for Sulfur Dioxide.
U-00001/00001/B02/S0002	40CFR 60-Dc.48c (d)	46	Reporting and Recordkeeping Requirements.
U-00001/00001/B02/S0002	40CFR 60-Dc.48c (e) (1)	47	



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U- 00001/00001/B02/S0002	40CFR 60-Dc.48c (e) (2)	48	
U- 00001/00001/B02/S0002	40CFR 60-Dc.48c (e) (3)	49	
U- 00001/00001/B02/S0002	40CFR 60-Dc.48c (e) (4)	50	
U- 00001/00001/B02/S0002	40CFR 60-Dc.48c (e) (7)	51	
FACILITY	40CFR 60-Dc.48c (g)	34	Reporting and Recordkeeping Requirements.
U- 00001/00001/B02/S0002	40CFR 60-Dc.48c (i)	52	Reporting and Recordkeeping Requirements.
FACILITY	40CFR 68	20	Chemical accident prevention provisions
FACILITY	40CFR 82-F	21	Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	6NYCRR 200.6	1	Acceptable ambient air quality.
FACILITY	6NYCRR 200.7	10	Maintenance of equipment.
FACILITY	6NYCRR 201-1.4	54	Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.7	11	Recycling and Salvage
FACILITY	6NYCRR 201-1.8	12	Prohibition of reintroduction of collected contaminants to the air
FACILITY	6NYCRR 201-3.2 (a)	13	Exempt Activities - Proof of eligibility
FACILITY	6NYCRR 201-3.3 (a)	14	Trivial Activities - proof of eligibility
FACILITY	6NYCRR 201-6	22, 35, 36	Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.5 (a) (4)	15	General conditions
FACILITY	6NYCRR 201-6.5 (a) (7)	2	General conditions
FACILITY	6NYCRR 201-6.5 (a) (8)	16	Fees
FACILITY	6NYCRR 201-6.5 (c)	3	General conditions
FACILITY	6NYCRR 201-6.5 (c) (2)	4	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201- 6.5 (c) (3) (ii)	5	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.5 (d) (5)	17	Compliance schedules
FACILITY	6NYCRR 201-6.5 (e)	6	Compliance Certification
FACILITY	6NYCRR 201-6.5 (f) (6)	18	Off Permit Changes
FACILITY	6NYCRR 201-6.5 (g)	23	Permit shield
FACILITY	6NYCRR 202-1.1	19	Required emissions tests.
FACILITY	6NYCRR 202-1.3	24	Acceptable



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FACILITY	6NYCRR 202-2.1	7	procedures.
FACILITY	6NYCRR 202-2.5	8	Emission Statements - Applicability
FACILITY	6NYCRR 211.1	25	Emission Statements - record keeping requirements.
FACILITY	6NYCRR 211.2	55	General Prohibitions - air pollution prohibited
FACILITY	6NYCRR 215.2	9	General Prohibitions - visible emissions limited.
FACILITY	6NYCRR 225.1 (a) (3)	28	Open Fires - Prohibitions
FACILITY	6NYCRR 225-1.2 (a) (2)	26	Sulfur in Fuel Limitations (SIP)
U-00001/00001/B02/S0001	6NYCRR 225-1.2 (d)	59	Sulfur in Fuel Limitations Post 12/31/87.
FACILITY	6NYCRR 225-1.8	27	Sulfur-in-fuel limitations - Table 2 Reports, sampling and analysis.
U-00001/-/B02	6NYCRR 227.2 (b) (1)	37	Particulate emissions.
U-00001/00001/B02	6NYCRR 227-1.3	38	Smoke Emission Limitations.
U-00001/00001/B02	6NYCRR 227-1.3 (a)	39	Smoke Emission Limitations.
FACILITY	6NYCRR 227-2.4 (c) (1) (i)	29	1994 NOx RACT presumptive limit.
FACILITY	6NYCRR 227-2.4 (c) (1) (ii)	56	2010 NOx RACT presumptive limit.
FACILITY	6NYCRR 227-2.4 (d)	57	Small boilers, small combustion turbines, and small stationary internal combustion engines.
FACILITY	6NYCRR 227-2.6 (a)	58	Applicable testing and/or monitoring requirements.
FACILITY	6NYCRR 227-2.6 (c)	30, 31	Stack Test Requirements.

**Applicability Discussion:**

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

ECL 19-0301

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

6 NYCRR 200.6

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

6 NYCRR 200.7

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



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6 NYCRR 201-1.4

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

6 NYCRR 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 201-3.2 (a)

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

6 NYCRR 201-3.3 (a)

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

6 NYCRR Subpart 201-6

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

6 NYCRR 201-6.5 (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.

6 NYCRR 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.

6 NYCRR 201-6.5 (a) (8)

This is a mandatory condition for all facilities subject to Title V requirements. It allows the Department



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to inspect the facility to determine compliance with this permit, including copying records, sampling and monitoring, as necessary.

6 NYCRR 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.

6 NYCRR 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.

6 NYCRR 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.

6 NYCRR 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.

6 NYCRR 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.

6 NYCRR 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.

6 NYCRR 201-6.5 (g)

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

6 NYCRR 202-1.1

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

6 NYCRR 202-2.1

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



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the previous calENDar year.

6 NYCRR 202-2.5

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

6 NYCRR 211.2

This regulation limits opacity from sources to less than or equal to 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

6 NYCRR 215.2

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

40 CFR Part 68

This Part lists the regulated substances and there 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, NORTH CENTRAL BRONX HOSPITAL has been determined to be subject to the following regulations:

40 CFR 60.4

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

40 CFR 60.40c

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

40 CFR 60.42c (h)

This regulation requires that compliance with emission limits and/or fuel oil sulfur limitations 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



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40 CFR 60.42c (i)

This regulation requires that the sulfur dioxide emission limits, percentage reductions, and fuel oil sulfur limitations apply at all times, including periods of startup, shutdown, and malfunction.

40 CFR 60.46c (d) (2)

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

40 CFR 60.46c (e)

This regulation allows facilities subject to paragraphs 40 CFR 60-Dc.42c(h)(1), (2), or (3) who show compliance through vendor certification, to be exempt from the monitoring requirements of section 40 CFR 60-Dc.46c

40 CFR 60.48c (d)

This regulation requires the owner or operator of the facility subject to the SO<sub>2</sub> emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.42c, to submit semi-annual reports to the EPA

40 CFR 60.48c (e) (1)

Reporting and recordkeeping provisions for facilities subject to a sulfur-in-fuel standard, sulfur dioxide emission limit, or percent reduction of sulfur dioxide emissions.

40 CFR 60.48c (e) (2)

Reporting and recordkeeping provisions for facilities subject to a sulfur-in-fuel standard, sulfur dioxide emission limit, or percent reduction of sulfur dioxide emissions.

40 CFR 60.48c (e) (3)

Reporting and recordkeeping provisions for facilities subject to a sulfur-in-fuel standard, sulfur dioxide emission limit, or percent reduction of sulfur dioxide emissions.

40 CFR 60.48c (e) (4)

Reporting and recordkeeping provisions for facilities subject to a sulfur-in-fuel standard, sulfur dioxide emission limit, or percent reduction of sulfur dioxide emissions.

40 CFR 60.48c (e) (7)

Reporting and recordkeeping provisions for facilities subject to a sulfur-in-fuel standard, sulfur dioxide emission limit, or percent reduction of sulfur dioxide emissions.

40 CFR 60.48c (g)





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

40 CFR 60.48c (i)

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

40 CFR Part 60, Subpart A

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

6 NYCRR 202-1.3

This regulation requires that any emission testing, sampling and analytical determination used to determine compliance must use methods acceptable to the department. Acceptable test methods may include but are not limited to the reference methods found in 40 CFR Part 60 appendix A and Part 61, appendix B. Alternate methods may be also be used provided they are determined to be acceptable by the department. Finally, unless otherwise specified, all emission test reports must be submitted within 60 days after completion of testing.

6 NYCRR 211.1

This regulation requires that no person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property.

6 NYCRR 225.1 (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).**

6 NYCRR 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.

6 NYCRR 225-1.2 (d)

The sulfur-in-fuel limitations for residual and distillate oil and for solid fuel are listed in Tables 1,2 and 3 or 6 NYCRR Part 225-1.2(c), (d) and (e)



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6 NYCRR 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.

6 NYCRR 227.2 (b) (1)

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

6 NYCRR 227-1.3

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

6 NYCRR 227-1.3 (a)

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

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

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

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

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

6 NYCRR 227-2.4 (d)

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



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6 NYCRR 227-2.6 (a)

Applicable testing and/or monitoring requirements for emission sources subject to NOx RACT.

6 NYCRR 227-2.6 (c)

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

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

**Non Applicability Analysis**

**List of non-applicable rules and regulations:**

Location Facility/EU/EP/Process/ES	Regulation	Short Description
FACILITY	40 CFR 60.42c	Standard for Sulfur Dioxide

Reason: 40 CFR 60-Dc.42c, NSPS, which limits the sulfur content in the distillate fuel oil to 0.50 percent by weight, is not applicable to Emission Sources S0002, S0003, S0004 or S0005 (the four 24 MM Btu/hr each Bryan Steam boilers) or to this facility. This regulation is overruled by regulation 6 NYCRR 225.1(a)(3), which limits the sulfur



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content in the distillate fuel oil (# 2 oil) to 0.20 percent by weight to facilities in the severe ozone non-attainment area such as New York City.

NYC-HH - North Central Bronx Hospital must comply with the 0.20 percent by weight sulfur content limit as per 6 NYCRR 225.1(a)(3), which has more stringent limit for New York City than 40 CFR 60-Dc.42c, NSPS.

U-00001/00001/B02	40 CFR 60.42c	Standard for Sulfur Dioxide
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Reason: 40 CFR 60-Dc.42c, NSPS, which limits the sulfur content in the distillate fuel oil to 0.50 percent by weight, is not applicable to Emission Sources S0002, S0003, S0004 or S0005 (the four 24 MM Btu/hr each Bryan Steam boilers) or to this facility. This regulation is overruled by regulation 6 NYCRR 225.1(a)(3), which limits the sulfur content in the distillate fuel oil (# 2 oil) to 0.20 percent by weight to facilities in the severe ozone non-attainment area such as New York City.

NYC-HH - N Central Bronx Hospital must comply with the 0.20 percent by weight sulfur content limit as per 6 NYCRR 225.1(a)(3), which has more stringent limit for New York City than 40 CFR 60-Dc.42c, NSPS.

NOTE: Non-applicability determinations are cited as a permit condition under 6 NYCRR Part 201-6.5(g). This information is optional and provided only if the applicant is seeking to obtain formal confirmation, within an issued Title V permit, that specified activities are not subject to the listed federal applicable or state only requirement. The applicant is seeking to obtain verification that a requirement does not apply for the stated reason(s) and the Department has agreed to include the non-applicability determination in the issued Title V permit which in turn provides a shield against any potential enforcement action.

**Compliance Certification**

**Summary of monitoring activities at NORTH CENTRAL BRONX HOSPITAL:**

Location Facility/EU/EP/Process/ES	Cond No.	Type of Monitoring
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FACILITY	33	record keeping/maintenance procedures
U-00001/00001/B02/S0002	44	monitoring of process or control device parameters as surrogate
U-00001/00001/B02/S0002	46	record keeping/maintenance procedures
U-00001/00001/B02/S0002	47	record keeping/maintenance procedures
U-00001/00001/B02/S0002	48	record keeping/maintenance procedures
U-00001/00001/B02/S0002	49	record keeping/maintenance procedures
U-00001/00001/B02/S0002	50	record keeping/maintenance procedures
U-00001/00001/B02/S0002	51	record keeping/maintenance procedures
FACILITY	34	record keeping/maintenance procedures
U-00001/00001/B02/S0002	52	record keeping/maintenance procedures
FACILITY	5	record keeping/maintenance procedures

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FACILITY	6	record keeping/maintenance procedures
FACILITY	7	record keeping/maintenance procedures
FACILITY	28	work practice involving specific operations
FACILITY	26	work practice involving specific operations
U-00001/00001/B02/S0001	59	monitoring of process or control device parameters as surrogate
FACILITY	27	record keeping/maintenance procedures
U-00001/-/B02	37	intermittent emission testing
U-00001/00001/B02	38	record keeping/maintenance procedures
U-00001/00001/B02	39	monitoring of process or control device parameters as surrogate
FACILITY	29	intermittent emission testing
FACILITY	56	intermittent emission testing
FACILITY	57	record keeping/maintenance procedures
FACILITY	58	record keeping/maintenance procedures
FACILITY	30	intermittent emission testing
FACILITY	31	intermittent emission testing

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**Basis for Monitoring**

This facility 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. In addition to record keeping, this facility is required to comply with the following monitoring conditions:

**Condition #26 for 6 NYCRR 225-1.2(a)(2):** This is a facility-wide condition for Work Practice Involving Specific Operations for sulfur content in residual fuel. The sulfur content upper limit is 0.20 percent by weight for distillate fuel oil.

This condition 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.

**Condition #28 for 6 NYCRR 225.1(a)(3):** This is a facility-wide condition. This condition is for Work Practice Involving Specific Operations for sulfur content. This condition 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. The sulfur limit is 0.20 percent by weight for distillates - number 1 and number 2 fuel oil for the New York City area. 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).

**Condition #29 for 6 NYCRR 227-2.4(c)(1)(i):** This condition is an emission unit level, emission point level, process level and emission source/control level condition that applies to Emission Unit: U-00001, Emission Point: 00001, Process B02: and Emission Source/Control: S0001 for Intermittent Emission Testing for Oxides of Nitrogen.



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The facility is required to perform testing the mid-size boiler (Emission Source S0001 - the 58 MM Btu/hr Cleaver Brooks DL60 boiler) 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. The 58 MM Btu/hr Cleaver Brooks DL60 boiler operates on distillate oil (Process B02) and on natural gas (BNG).

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.

**Condition #30 for 6 NYCRR 227-2.6(c):** This condition is an emission unit level, emission point level, process level and emission source/control level condition that applies to Emission Unit: U-00001, Emission Point: 00001, Process B02: and Emission Source/Control: S0001 for Intermittent Emission Testing for Oxides of Nitrogen. The NOx upper limit is 0.12 pounds per million Btus prior to July 1, 2014 for the 58 MM Btu/hr Cleaver Brooks DL60 boiler (Emission Source S0001).

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

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

NYC-HH - North Central Bronx Hospital is required to perform testing the mid-size boiler (Emission Source S0001 - the 58 MM Btu/hr Cleaver Brooks DL60 boiler) 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. The 58 MM Btu/hr Cleaver Brooks DL60 boiler operates on distillate oil (Process B02) and on natural gas (BNG).



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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.

**Condition #31 for 6 NYCRR 227-2.6(c):** This condition is an emission unit level, emission point level, process level and emission source/control level condition that applies to Emission Unit: U-00001, Emission Point: 00001, Process B02: and Emission Source/Control: S0001 for Intermittent Emission Testing for Oxides of Nitrogen. The NOx upper limit is 0.08 pounds per million Btus on or after July 1, 2014 for the 58 MM Btu/hr Cleaver Brooks DL60 boiler (Emission Source S0001).

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

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

NYC-HH - North Central Bronx Hospital is required to perform testing the mid-size boiler (Emission Source S0001 - the 58 MM Btu/hr Cleaver Brooks DL60 boiler) 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. The 58 MM Btu/hr Cleaver Brooks DL60 boiler operates on distillate oil (Process B02) and on natural gas (BNG).

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.

**Condition #37 for 6 NYCRR 227.2(b)(1):** This condition is an emission unit level, emission point level and process level condition that applies to Emission Unit: U-00001,



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Emission Point: 00001 and Process B02 for Intermittent Emission Testing for Particulates. The Particulate upper limit is 0.10 pounds per million Btus for all five boilers, Emission Sources S0001, S0002, S0003, S0004 & S0005.

Particulate emission limit for stationary combustion installation firing oil. The owner or operator shall complete the following once per term of this permit:

- 1) Submit to the Department an acceptable protocol for the testing of particulate emission 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) All records shall be maintained at the facility for a minimum of five years.

This condition 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.

**Condition #39 for 6 NYCRR 227-1.3(a):** This condition is an emission unit level, an emission point level and process level condition that applies to Emission Unit: U-00001, Emission Point: 00001 and Process: B02 for Monitoring of Process or Control Device Parameters as Surrogate for Opacity.

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

**Condition #44 for 40 CFR 60.46c(d)(2), NSPS Subpart Dc:** This condition is an emission unit level, emission point level, process level and emission source/control level condition that applies to Emission Unit: U-00001, Emission Point: 00001, Process B02: and Emission Source/Control: S0002, S0003, S0004 & S0005 for Monitoring of Process or Control Device Parameters as Surrogate for Sulfur Dioxide. The sulfur content upper limit is 0.20 percent by weight.

As an alternative to operating a CEMs at the inlet to the SO<sub>2</sub> control device (or outlet of the steam generating unit if no SO<sub>2</sub> control device is used) as required under paragraph §60.46c (a), an owner or operator may elect to determine the average SO<sub>2</sub> emission rate by sampling fuel prior to combustion.





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**Permit Review Report**

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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.

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

**Condition #56 for 6 NYCRR 227-2.4(c)(1)(ii):** This condition is an emission unit level, emission point level, process level and emission source/control level condition that applies to Emission Unit: U-00001, Emission Point: 00001, Process B02: and Emission Source/Control: S0001 for Intermittent Emission Testing for Oxides of Nitrogen.

The facility is required to perform testing the mid-size boiler (Emission Source S0001 - the 58 MM Btu/hr Cleaver Brooks DL60 boiler) to verify the NO<sub>x</sub> 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. The 58 MM Btu/hr Cleaver Brooks DL60 boiler operates on distillate oil (Process B02) and on natural gas (BNG).

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<sub>x</sub> per million Btus under the NO<sub>x</sub> RACT plan for mid-size boilers.

**Condition #57 for 6 NYCRR 225-1.2(d):** This condition is an emission unit level, emission point level, process level and emission source/control level condition that applies to Emission Unit: U-00001, Emission Point: 00001, Process B02: and Emission Source/Control: S0001, S0002, S0003, S0004 & S0005 for Monitoring of Process or Control Device Parameters as Surrogate for the sulfur content. The distillate fuel oil has a limit of 0.20% by weight sulfur content.

The sulfur-in-fuel limitations for residual and distillate oil and for solid fuel are listed in Tables 1, 2 and 3 or 6 NYCRR Part 225-1.2(c), (d) and (e).