

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2



03/15/2006

Facility Identification Data

Name: NEW YORK METHODIST HOSPITAL
Address: 506 6TH ST
BROOKLYN, NY 11215

Owner/Firm

Name: THE NEW YORK METHODIST HOSPITAL
Address: 506 6TH ST
BROOKLYN, NY 11215-3609, USA
Owner Classification: Corporation/Partnership

Permit Contacts

Division of Environmental Permits:
Name: ELIZABETH A CLARKE
Address: ONE HUNTERS POINT PLAZA
47-40 21ST ST
LONG ISLAND CITY, NY 11101-5407
Phone:7184824997

Division of Air Resources:
Name: DIANA MENASHA
Address: NYSDEC REGION 2 OFFICE
HUNTERS POINT PLAZA
LONG ISLAND CITY, NY 11101
Phone:7184827263

Air Permitting Contact:
Name: JOSEPH IANNOTTI
Address: NEW YORK METHODIST HOSPITAL
506 6TH STREET
BROOKLYN, NY 11215-3609
Phone:7187803309

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.



New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2 03/15/2006

Summary Description of Proposed Project

This is a minor modification to the Title V permit that was issued on 10/17/2005 (Ren 1 Mod 1). This project is for adding two (2) new exempt boilers (<10 MM BTU/hr) to the facility in the Medical Pavilion, which are considered to be exempt from permitting in accordance with 6 NYCRR 201-3.2(c).

The facility operates other sources which are considered exempt from permitting in accordance with 6 NYCRR 201-3.2(c), including three (3) emergency power generating units to provide power <500 hrs/yr, four (4) distillate fuel oil storage tanks with storage capacities <300,000 bbls, an autoclave/steam sterilizer, three (3) research and development activities, and five (5) ventillating and exhaust systems for laboratory operations.

Attainment Status

NEW YORK METHODIST HOSPITAL is located in the town of BROOKLYN in the county of KINGS.

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

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

* Ozone is regulated in terms of the emissions of volatile organic compounds (VOC) and/or oxides of nitrogen (NOx) which are ozone precursors.

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

Facility Description

New York Methodist Hospital operates air emission sources, which include two existing Cleaver-Brooks boilers (25.1 & 31.4 MM Btu/hr), two new 30.6 MM Btu/hr (each) Cleaver Brooks boilers and two cogeneration units (940 kilowatts each). These cogeneration units are utilized for providing heat and electricity to the hospital. There are other exempt sources at the facility such as storage tanks and emergency generators. New York Methodist Hospital has replaced the 26.2 MM Btu/hr Erie City boiler with a 30.6 MM Btu/hr Cleaver Brooks boiler and installed another 30.6 MM Btu/hr Cleaver Brooks



New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2 03/15/2006

boiler and two 92) 800 kw emergency generators. This application is submitted for renewal of the Title V permit.

Typically, one boiler will be on 50% of the time on number 2 fuel oil and the other 50% of the time on natural gas. The other boiler will be operated three (3) months per year and the same boiler would be on standby for the other nine (9) months.

The facility operates other sources which are considered exempt from permitting in accordance with 6 NYCRR 201-3.2(c), including two boilers (<10 MM BTU/hr), three (3) emergency power generating units to provide power <500 hrs/yr, four (4) distillate fuel oil storage tanks with storage capacities <300,000 bbls, an autoclave/steam sterilizer, three (3) research and development activities, and five (5) ventilating and exhaust systems for laboratory operations.

Permit Structure and Description of Operations

The Title V permit for NEW YORK METHODIST 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 METHODIST HOSPITAL is defined by the following emission unit(s):
Emission unit U00001 - Emission Unit U-00001 consists of four (4) dual fuel external combustion Cleaver Brooks boilers (Emission Sources 00001, 00002, E0004 & E0005) in Emission Unit U-00001. The four boilers provide heat and hot water to the hospital, and are capable of firing either number 2 fuel oil (Process BOI) or natural gas (Process BNG). Natural gas as the primary fuel and number 2 fuel oil as the secondary fuel. Flue gases from these processes exit through a common stack (Emission Point 00001) connected to the boilers. The four boilers at New York Methodist Hospital are identified as:

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2



03/15/2006

One existing (since 1996) Cleaver Brooks CB-200-600 boiler of capacity of 25.1 MM Btu/hr, Emission Source 00001.

One existing (since 1996) Cleaver Brooks CB-200-750 boiler of capacity 31.4 MM Btu/hr, Emission Source 00002.

Two new (installed in 2004) Cleaver Brooks CBLE 200 750 200ST boilers of capacity of 30.6 MM Btu/hr each, Emission Sources B0004 & B0005.

Typically, two boilers are in operation and the other two boilers are on stand-by. For the two new Cleaver Brooks boilers, typically, one boiler will be on 50% of the time on number 2 fuel oil and the other 50% of the time on natural gas. The other new boiler will be operated three (3) months per year and the same boiler would be on standby for the other nine (9) months.

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

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

Process: BNG is located at BOILER ROOM, Building 1 - Process BNG is the burning of natural gas as the primary fuel in the four (4) external combustion Cleaver Brooks boilers (Emission Sources 00001, 00002, B0004 & B0005) in Emission Unit U-00001. The four boilers provide heat and hot water to the hospital. Flue gases from this process exit through a common stack (Emission Point 00001) connected to the boilers. The four boilers at New York Methodist Hospital are identified as:

One existing (since 1996) Cleaver Brooks CB-200-600 boiler of capacity of 25.1 MM Btu/hr, Emission Source 00001.

One existing (since 1996) Cleaver Brooks CB-200-750 boiler of capacity 31.4 MM Btu/hr, Emission Source 00002.

Two new (installed in 2004) Cleaver Brooks CBLE 200 750 200ST boilers of capacity of 30.6 MM Btu/hr each, Emission Sources B0004 & B0005.

Typically, two boilers are in operation and the other two boilers are on stand-by. For the two new Cleaver Brooks boilers, typically, one boiler will be on 50% of the time on number 2 fuel oil and the other 50% of the time on natural gas. The other new boiler will be operated three (3) months per year and the same boiler would be on standby for the other nine (9) months.

Process: BOI is located at BOILER ROOM, Building 1 - Process BOI is the burning of number 2 fuel oil as the secondary fuel in the four (4) external combustion Cleaver Brooks boilers (Emission Sources 00001, 00002, E0004 & E0005) in Emission Unit U-00001. The four boilers provide heat and hot water to the hospital. Flue gases from this process exit through a common stack (Emission Point 00001) connected to the boilers. The four boilers at New York Methodist Hospital are identified as:

One existing (since 1996) Cleaver Brooks CB-200-600 boiler of capacity of 25.1 MM Btu/hr, Emission Source 00001.

One existing (since 1996) Cleaver Brooks CB-200-750 boiler of capacity 31.4 MM Btu/hr, Emission



New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2 03/15/2006

Source 00002.

Two new (installed in 2004) Cleaver Brooks CBLE 200 750 200ST boilers of capacity of 30.6 MM Btu/hr each, Emission Sources B0004 & B0005.

Typically, two boilers are in operation and the other two boilers are on stand-by. For the two new Cleaver Brooks boilers, typically, one boiler will be on 50% of the time on number 2 fuel oil and the other 50% of the time on natural gas. The other new boiler will be operated three (3) months per year and the same boiler would be on standby for the other nine (9) months.

Process: G45 is located at BOILER ROOM, Building 1 - Process G45 is the burning of natural gas in the two new 30.6 MM Btu/hr Cleaver Brooks boilers (Emission Sources B0004 & B0005) in Emission Unit U-00001. The two boilers provide heat and hot water to the hospital. Flue gases from this process exit through a common stack (Emission point 00001) connected to the existing boilers (Emission Sources S0001 & S0002). The two new boilers at New York Methodist Hospital are identified as:

Two new (installed in 2004) Cleaver Brooks CBLE 200 750 200ST boilers of capacity of 30.6 MM Btu/hr each, Emission Sources B0004 & B0005.

For the two new Cleaver Brooks boilers, typically, one boiler will be on 50% of the time on number 2 fuel oil and the other 50% of the time on natural gas. The other new boiler will be operated three (3) months per year and the same boiler would be on standby for the other nine (9) months.

Process: O45 is located at BOILER ROOM, Building 1 - Process O45 is the burning of number 2 fuel oil in the two new 30.6 MM Btu/hr Cleaver Brooks boilers (Emission Sources B0004 & B0005) in Emission Unit U-00001. The two boilers provide heat and hot water to the hospital. Flue gases from this process exit through a common stack (Emission point 00001) connected to the existing boilers (Emission Sources S0001 & S0002). The two new boilers at New York Methodist Hospital are identified as:

Two new (installed in 2004) Cleaver Brooks CBLE 200 750 200ST boilers of capacity of 30.6 MM Btu/hr each, Emission Sources B0004 & B0005.

For the two new Cleaver Brooks boilers, typically, one boiler will be on 50% of the time on number 2 fuel oil and the other 50% of the time on natural gas. The other new boiler will be operated three (3) months per year and the same boiler would be on standby for the other nine (9) months.

Emission unit U00002 - Emission Unit U-00002 consists of two (2) internal combustion cogeneration engines that burn natural gas (Process CNG) only. These cogeneration engines are rated at 940 kw (1259.6 hp) each and they are identified as Emission Sources 00004 & 00005. Flue gases exit through two separate identical stacks (Emission Points 00002 & 00003). Emission Point 00002 is associated with Emission Source 00004, and Emission Point 00003 is associated with Emission Source 00005. Typically, both engines are operated 85% of the time, except for repair and maintenance.

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

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

Process: CNG is located at Building 1 - Process CNG is the burning of natural gas in the two internal combustion engines in Emission Unit U-00002. Flue gases from this process exit through two separate

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2 03/15/2006



identical stacks (Emission Points 00002 & 00003). Emission Point 00002 is associated with Emission Source 00004 and Emission Point 00003 is associated with Emission Source 00005. The two internal combustion engines in Emission Unit U-00002 are 940 kilowatts (1259.6 hp) each, fire natural gas only, are lean burn and with compression ignition source.

Title V/Major Source Status

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

New York Methodist 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. All facilities utilizing Title V Permits shall be considered major sources.

Program Applicability

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

Regulatory Program	Applicability
PSD	NO
NSR (non-attainment)	YES
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.

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2



03/15/2006

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.

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2



03/15/2006

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

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
1-03-006-02	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - NATURAL GAS 10-100 MMBtu/Hr
1-03-004-01	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - RESIDUAL OIL Grade 6 Oil
1-01-006-02	EXTERNAL COMBUSTION BOILERS - ELECTRIC GENERATION ELECTRIC UTILITY BOILER - NATURAL GAS Boilers < 100 MBtu/Hr except Tangential

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



New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2 03/15/2006

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. ONY100-00-0. 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.

Table with 3 columns: Cas No., Contaminant Name, and PTE. PTE is further divided into lbs/yr and Range. Rows include various contaminants like ARSENIC, BERYLLIUM, CADMIUM, CARBON MONOXIDE, CHROMIUM, LEAD, MANGANESE, MERCURY, NICKEL METAL AND INSOLUBLE COMPOUNDS, OXIDES OF NITROGEN, PARTICULATES, PM-10, SULFUR DIOXIDE, and VOC.

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

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2



03/15/2006

(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

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2



03/15/2006

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 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

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2



03/15/2006

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

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2



03/15/2006

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

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2



03/15/2006

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	Short Description	Condition
FACILITY	ECL 19-0301	Powers and Duties of the Department with respect to air pollution control	62
FACILITY	40CFR 60-A.14	General provisions - Modification	22
FACILITY	40CFR 60-A.15	General provisions - Reconstruction	23
FACILITY	40CFR 60-A.4	General provisions - Address	16
U-00001	40CFR 60-A.7(a)	Notification and Recordkeeping	29
FACILITY	40CFR 60-A.7(b)	Notification and Recordkeeping	17
FACILITY	40CFR 60-A.7(c)	Notification and Recordkeeping	18
FACILITY	40CFR 60-A.7(d)	Notification and Recordkeeping	19
FACILITY	40CFR 60-A.7(f)	Notification and Recordkeeping	20
FACILITY	40CFR 60-A.9	General provisions - Availability of information	21
U-00001/00001/BOI	40CFR 60-Dc.40c	Steam generators 10-100 million Btu per hour	33, 34
U-00001/00001/BOI	40CFR 60-Dc.42c(d)	Standard for Sulfur Dioxide Firing Oil. (see narrative)	35
U-00001/00001/BOI	40CFR 60-Dc.42c(h)	Exemption from Averaging Requirements	36
U-00001/00001	40CFR 60-Dc.43c(c)	Standard for Opacity.	32
U-00001/00001/BOI	40CFR 60-Dc.44c(h)	Alternative Compliance and Performance Test Methods and Procedures for Sulfur Dioxide.	37
U-00001/00001/BOI	40CFR 60-Dc.45c	Compliance and Performance Test Methods and Procedures for Particulate Matter.	38
U-00001/00001/O45	40CFR 60-Dc.45c	Compliance and Performance Test Methods	42

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1

Modification Number: 2

03/15/2006



U-00001/00001/BOI	40CFR 60-Dc.46c(d) (2)	and Procedures for Particulate Matter. Alternative sulfur dioxide emissions monitoring.	39
U-00001/00001/O45	40CFR 60-Dc.46c(d) (2)	Alternative sulfur dioxide emissions monitoring.	43
U-00001/00001/BOI	40CFR 60-Dc.47c	Emission Monitoring for Particulate Matter.	40
U-00001/00001/O45	40CFR 60-Dc.47c	Emission Monitoring for Particulate Matter.	44
U-00001/00001/BOI	40CFR 60-Dc.48c(f) (1)	Reporting and Recordkeeping Requirements (distillate oil).	41
U-00001/00001/O45	40CFR 60-Dc.48c(f) (1)	Reporting and Recordkeeping Requirements (distillate oil).	45
FACILITY	40CFR 68	Chemical accident prevention provisions	24
FACILITY	40CFR 82-F	Protection of Stratospheric Ozone - recycling and emissions reduction	25
FACILITY	6NYCRR 200.6	Acceptable ambient air quality.	1-1
FACILITY	6NYCRR 200.7	Maintenance of equipment.	1-4
FACILITY	6NYCRR 201-1	General Provisions	1
FACILITY	6NYCRR 201-1.4	Unavoidable noncompliance and violations	63
FACILITY	6NYCRR 201-1.7	Recycling and Salvage	1-5
FACILITY	6NYCRR 201-1.8	Prohibition of reintroduction of collected contaminants to the air	1-6
FACILITY	6NYCRR 201-3.2(a)	Exempt Activities - Proof of eligibility	1-7
FACILITY	6NYCRR 201-3.3(a)	Trivial Activities - proof of eligibility	1-8
FACILITY	6NYCRR 201-6	Title V Permits and the Associated Permit Conditions	2, 26, 27
FACILITY	6NYCRR 201-6.5(a) (4)	General conditions	1-9
FACILITY	6NYCRR 201-6.5(a) (7)	General conditions	
Fees 1-2			
FACILITY	6NYCRR 201-6.5(a) (8)	General conditions	1-10
FACILITY	6NYCRR 201-6.5(c)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	3
FACILITY	6NYCRR 201-6.5(c) (2)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	4
FACILITY	6NYCRR 201-6.5(c) (3) (ii)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	5
FACILITY	6NYCRR 201-6.5(d) (5)	Compliance schedules	1-11
FACILITY	6NYCRR 201-6.5(e)	Compliance Certification	6
FACILITY	6NYCRR 201-6.5(f) (6)	Off Permit Changes	1-12



New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1

Modification Number: 2

03/15/2006

FACILITY	6NYCRR 201-7	Federally Enforceable Emissions Caps	1-15, 1-16, 1-17, 1-18
U-00001	6NYCRR 201-7	Federally Enforceable Emissions Caps	1-19
U-00001/00001/G45	6NYCRR 201-7	Federally Enforceable Emissions Caps	1-20
U-00001/00001/O45	6NYCRR 201-7	Federally Enforceable Emissions Caps	1-21
FACILITY	6NYCRR 202-1.1	Required emissions tests.	1-13
FACILITY	6NYCRR 202-2.1	Emission Statements - Applicability	7
FACILITY	6NYCRR 202-2.5	Emission Statements - record keeping requirements.	8
FACILITY	6NYCRR 211.2	General Prohibitions - air pollution prohibited.	66
FACILITY	6NYCRR 211.3	General Prohibitions - visible emissions limited	1-14
FACILITY	6NYCRR 215	Open Fires	1-3
FACILITY	6NYCRR 225.1(a)(3)	Sulfur in Fuel Limitations (SIP)	10
FACILITY	6NYCRR 225-1.8	Reports, sampling and analysis.	9
U-00001/00001	6NYCRR 227.2(b)(1)	Particulate emissions.	31
U-00001/00001	6NYCRR 227-1.3(a)	Smoke Emission Limitations.	30
U-00002/00002	6NYCRR 227-1.3(a)	Smoke Emission Limitations.	46
U-00002/00003	6NYCRR 227-1.3(a)	Smoke Emission Limitations.	54
U-00001	6NYCRR 227-2.4(d)	RACT for Oxides of Nitrogen - small boilers.	28
U-00002/00002/CNG/00004	6NYCRR 227-2.4(f)(2)	Emission limits for lean burn engines.	47
U-00002/00003/CNG/00005	6NYCRR 227-2.4(f)(2)	Emission limits for lean burn engines.	55
U-00002/00002/CNG/00004	6NYCRR 227-2.4(f)(2)(ii)	Emission limitations for lean burn engines firing other fuels by themselves or in combination with gas.	48
U-00002/00003/CNG/00005	6NYCRR 227-2.4(f)(2)(ii)	Emission limitations for lean burn engines firing other fuels by themselves or in combination with gas.	56
U-00002/00002/CNG/00004	6NYCRR 227-2.6(a)(2)	Optional CEMS testing, monitoring, and reporting requirements for non very large boilers and smaller combined cycle turbines.	49
U-00002/00003/CNG/00005	6NYCRR 227-2.6(a)(2)	Optional CEMS testing, monitoring, and reporting requirements for non very large boilers and smaller combined cycle turbines.	57
U-00002/00002/CNG/00004	6NYCRR 227-2.6(a)(7)	Testing, monitoring and reporting for internal	50, 51



New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1

Modification Number: 2

03/15/2006

U-00002/00003/CNG/00005	6NYCRR 227-2.6(a)(7)	combustion engines. Testing, monitoring and reporting for internal combustion engines.	58, 59
U-00002/00002/CNG/00004	6NYCRR 227-2.6(b)	CEMS requirements	52
U-00002/00003/CNG/00005	6NYCRR 227-2.6(b)	CEMS requirements	60
U-00002/00002/CNG/00004	6NYCRR 227-2.6(c)	Stack Test Requirements.	53
U-00002/00003/CNG/00005	6NYCRR 227-2.6(c)	Stack Test Requirements.	61
FACILITY	6NYCRR 231-2	New Source Review in Nonattainment Areas and Ozone Transport Region	11, 1-15, 1-16
U-00001	6NYCRR 231-2	New Source Review in Nonattainment Areas and Ozone Transport Region	1-19
U-00001/00001/G45	6NYCRR 231-2	New Source Review in Nonattainment Areas and Ozone Transport Region	1-20
U-00001/00001/O45	6NYCRR 231-2	New Source Review in Nonattainment Areas and Ozone Transport Region	1-21
FACILITY	6NYCRR 231-2.3(a)	Prohibitions	12
FACILITY	6NYCRR 231-2.4	Permit Requirements	13
FACILITY	6NYCRR 231-2.7	Netting	14
FACILITY	6NYCRR 231-2.8	Internal offsets, severe ozone nonattainment area only	15

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.



New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2

03/15/2006

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.

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2



03/15/2006

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.

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2



03/15/2006

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 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



New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2

03/15/2006

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 METHODIST HOSPITAL has been determined to be subject to the following regulations:

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

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2



03/15/2006

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.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-Dc.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.

40CFR 60-Dc.42c (d)

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

40CFR 60-Dc.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

40CFR 60-Dc.43c (c)

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

40CFR 60-Dc.44c (h)

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

40CFR 60-Dc.45c

This regulation requires the facility to conduct compliance testing for particulate matter by the methods listed in this section 40 CFR 60-Dc.45c.

40CFR 60-Dc.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



New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2

03/15/2006

installing and operating a continuous emissions monitor at the inlet of the control device

40CFR 60-Dc.47c

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

40CFR 60-Dc.48c (f) (1)

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

6NYCRR 201-1

Subpart 201-1 contains general provisions for the state air permitting program including purpose, unpermitted sources, change in ownership, unavoidable noncompliance, emergency defense, public participation, recycling and salvage, prohibiting the reintroduction of collected air contaminants, program delegation and public access to recordkeeping.

6NYCRR 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 201-7

This section of Part 201-7 specifies the criteria that need to be met in order to restrict emissions to avoid Title V or other applicable requirements using federally enforceable permit conditions in a state facility permit.

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 225-1.8

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.



New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2

03/15/2006

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 227-2.4 (d)

This rule specifies that the reasonably available control technology (RACT) requirement for small boilers (< or = 50 million BTUs/hr) at Title V facilities consists of an annual tune-up.

6NYCRR 227-2.4 (f) (2)

This citation sets emission limits on oxides of nitrogen for lean burn internal combustion engines firing natural gas or distillate oils.

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

This regulation sets the NOx emission limit for lean burn engines that provide electrical generation for peak shaving. The limit, which applies to engines listed at 225 horsepower for those in the severe ozone non-attainment area and 400 horsepower for the rest of the state, is 9 grams of NOx per brake horsepower-hour, effective thru March 31, 2005.

6NYCRR 227-2.6 (a) (2)

This citation is for CEMs monitoring for those facilities which opt to use CEMs. The owner/operator shall measure NOx emissions with a continuous emissions monitoring system (CEMS) as described in 6 NYCRR 227-2.6(b). This citation is also for optional CEMS testing, monitoring and reporting requirements for non very large boilers and smaller combined cycle turbines.

6NYCRR 227-2.6 (a) (7)

This citation is for testing, monitoring and reporting for internal combustion engines. The owner/operator of this internal combustion engine shall perform an initial compliance stack test as described in 6 NYCRR 227-2.6(c). If the internal combustion engine qualifies for the control exemption listed in 6 NYCRR 227-2.4(f)(3), do not need to perform the stack test. A test protocol shall be submitted for approval at least 60 days prior to testing. Testing procedures shall be those set for in 40 CFR 60 Appendix A, or any other methods acceptable to the Department and the USEPA for determining compliance with the appropriate NOx limit set forth in section 227-2.4. Testing procedures shall also comply with subpart 202-1.

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 NOx 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)



New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2 03/15/2006

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 90 days prior to emission testing. The condition of the testing and the locations of the sampling devices must be acceptable to the department; and
- (2) Utilize procedures set forth in 40 CFR Part 60, Appendix A or any other method acceptable to the department and EPA for determining compliance with the appropriate 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.

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 the New York City metropolitan area, carbon monoxide is also a non-attainment contaminant. In addition, particulate matter less than 10 microns in size (PM-10) is a non-attainment contaminant in Manhattan County.

6NYCRR 231-2.3 (a)

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 the New York City metropolitan area, carbon monoxide is also a non-attainment contaminant. In addition, particulate matter less than 10 microns in size (PM-10) is a non-attainment contaminant in Manhattan County.

Actual construction of a proposed source project or new major facility without a permit is prohibited.

6NYCRR 231-2.4

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 the New

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2



03/15/2006

York City metropolitan area, carbon monoxide is also a non-attainment contaminant. In addition, particulate matter less than 10 microns in size (PM-10) is a non-attainment contaminant in Manhattan County.

The permitting requirements for proposed source projects and new major facilities are set forth in section 231-2.4.

6NYCRR 231-2.7

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 the New York City metropolitan area, carbon monoxide is also a non-attainment contaminant. In addition, particulate matter less than 10 microns in size (PM-10) is a non-attainment contaminant in Manhattan County.

Pursuant to section 231-2.7, existing major facilities may avoid the requirements of Subpart 231-2 by conducting a netting analysis. This is done by utilizing the following equation:

$$NEI = PEP + CEI - ERCs$$

where:

NEI = net emission increase

PEP = project emission potential for the proposed source project

CEI = creditable emission increases

ERCs = emission reduction credits

All of the creditable emission increases and emission reduction credits must have occurred at the facility for which the netting analysis is being conducted and must have occurred during the contemporaneous period for the proposed project. If the net emission increase is less than the threshold values incorporated into sections 231-2.12 and 231-2.13, then the the proposed source project is not subject to the requirements of Subpart 231-2.

6NYCRR 231-2.8

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 the New York City metropolitan area, carbon monoxide is also a non-attainment contaminant. In addition, particulate matter less than 10 microns in size (PM-10) is a non-attainment contaminant in Manhattan County.

Pursuant to section 231-2.8, existing major facilities located in the severe ozone non-attainment area may avoid the requirements of Subpart 231-2 by using emission reduction credits (as internal offsets) created at the facility to offset the project emission potential of the proposed project.

Compliance Certification

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2



03/15/2006

Summary of monitoring activities at NEW YORK METHODIST HOSPITAL:

Location Facility/EU/EP/Process/ES	Type of Monitoring	Cond No.
U-00001/00001/BOI	record keeping/maintenance procedures	33
U-00001/00001/BOI	monitoring of process or control device parameters as surrogate	34
U-00001/00001/BOI	work practice involving specific operations	35
U-00001/00001	monitoring of process or control device parameters as surrogate	32
U-00001/00001/BOI	monitoring of process or control device parameters as surrogate	37
U-00001/00001/BOI	monitoring of process or control device parameters as surrogate	39
U-00001/00001/O45	monitoring of process or control device parameters as surrogate	43
U-00001/00001/BOI	monitoring of process or control device parameters as surrogate	40
U-00001/00001/O45	monitoring of process or control device parameters as surrogate	44
U-00001/00001/BOI	record keeping/maintenance procedures	41
U-00001/00001/O45	record keeping/maintenance procedures	45
FACILITY	record keeping/maintenance procedures	5
FACILITY	record keeping/maintenance procedures	6
FACILITY	monitoring of process or control device parameters as surrogate	1-15
FACILITY	monitoring of process or control device parameters as surrogate	1-16
U-00001	monitoring of process or control device parameters as surrogate	1-19
U-00001/00001/G45	monitoring of process or control device parameters as surrogate	1-20
U-00001/00001/O45	monitoring of process or control device parameters as surrogate	1-21
FACILITY	record keeping/maintenance procedures	7
FACILITY	work practice involving specific operations	10
FACILITY	record keeping/maintenance procedures	9
U-00001/00001	intermittent emission testing	31
U-00001/00001	monitoring of process or control device parameters as surrogate	30
U-00002/00002	monitoring of process or control device parameters as surrogate	46
U-00002/00003	monitoring of process or control device parameters as surrogate	54
U-00001	record keeping/maintenance procedures	28
U-00002/00002/CNG/00004	record keeping/maintenance procedures	47
U-00002/00003/CNG/00005	record keeping/maintenance procedures	55
U-00002/00002/CNG/00004	intermittent emission testing	48
U-00002/00003/CNG/00005	intermittent emission testing	56
U-00002/00002/CNG/00004	monitoring of process or control device parameters as surrogate	49
U-00002/00003/CNG/00005	monitoring of process or control device parameters as surrogate	57
U-00002/00002/CNG/00004	record keeping/maintenance procedures	50
U-00002/00002/CNG/00004	intermittent emission testing	51
U-00002/00003/CNG/00005	record keeping/maintenance procedures	58
U-00002/00003/CNG/00005	intermittent emission testing	59
U-00002/00002/CNG/00004	continuous emission monitoring (cem)	52
U-00002/00003/CNG/00005	continuous emission monitoring (cem)	60



New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2 03/15/2006

U-00002/00002/CNG/00004	intermittent emission testing	53
U-00002/00003/CNG/00005	intermittent emission testing	61

Basis for Monitoring

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

Condition # 5 for 6 NYCRR 201-6.5(c)(3)(ii): This is a facility-wide condition. This condition is for Record Keeping/Maintenance Procedures. This condition 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.

Condition # 6 for 6 NYCRR 201-6.5(e): This is a facility-wide condition. This condition is for Record Keeping/Maintenance Procedures. This condition specifies the overall permit requirements for compliance certification, including emission limitations, standards or work practices.

Condition # 7 for 6 NYCRR 202-2.1: This is a facility-wide condition. This condition is for Record Keeping/Maintenance Procedures. This condition sets forth the applicability criteria for submitting an annual statement of emissions. The criteria is based on annual emission threshold quantities and ozone attainment designation. This condition applies to all Title V facilities and these facilities must submit an annual emission statement by April 15th of each year.

Condition # 1-15 for 6 NYCRR 201-7, Capping out of 6 NYCRR 231-2: This is a facility-wide condition. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Oxides of Nitrogen. This condition is for monitoring the Oxides of Nitrogen in the fuel used (natural gas/number 2 fuel oil) . The facility will cap the NOx emissions at 42 tpy for the four boilers and the two co-generation engines, which are Emission Sources 00001, 00002, E0004, E0005, 00004 & 00005 respectively. This will be accomplished by restricting the facility-wide consumption of natural gas alone to below 566 million cubic feet per year, or by restricting the facility-wide consumption of natural gas and number 2 fuel oil combination to below 132 million cubic feet per year for natural gas and to below 3.1 million gallons per year for number 2 fuel oil.

In the event of consuming less natural gas and more number 2 fuel oil, the facility-wide NOx emissions will remain constant at 42 TPY, and compliance will be demonstrated by fuel records and submittal of the Annual Emission Statements on April 15 of each year.

Condition # 1-16 for 6 NYCRR 201-7, Capping out of 6 NYCRR 231-2: This is a facility-wide condition. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Oxides of Nitrogen. This condition is for monitoring the Oxides of Nitrogen in natural gas. The facility will cap the NOx emissions at 42 tpy for the four boilers and the two co-generation engines, which are Emission Sources 00001, 00002, E0004, E0005, 00004 & 00005 respectively. This will be accomplished by restricting the facility-wide consumption of natural gas alone to below 566 million cubic feet per year, or by restricting the facility-wide consumption of natural gas and number 2 fuel oil combination to below 132 million cubic feet per year for natural gas and to below 3.1 million gallons per

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001

Renewal Number: 1

Modification Number: 2

03/15/2006



year for number 2 fuel oil.

In the event of consuming less natural gas and more number 2 fuel oil, the facility-wide NOx emissions will remain constant at 42 TPY, and compliance will be demonstrated by fuel records and submittal of the Annual Emission Statements on April 15 of each year.

Condition # 9 for 6 NYCRR 225-1.8: This is a facility-wide condition. This condition is for Record Keeping/Maintenance Procedures. This condition requires any 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.

Condition # 10 for 6 NYCRR 225.1(a)(3): This is a facility-wide condition. This condition is for Work Practice Involving Specific Operations. 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 # 1-19 for 6 NYCRR 201-7, Capping out of 6 NYCRR 231-2: This condition is an emission unit level Monitoring of Process or Control Device Parameters as Surrogate for Oxides of Nitrogen and applies to EU: U-00001.

This condition is for monitoring the Oxides of Nitrogen in the two new Cleaver-Brooks boilers, each of capacity 30.6 MM Btu/hr. These two new boilers (the 30.6 MM Btu/hr each Cleaver Brooks) will not emit more than 28.72 TPY of NOx emissions. The old boiler (26.6 MM Btu/hr Erie City) emissions will be reduced by 16.68 TPY. Therefore, NET increase of NOx emissions is less than 12.04 TPY.

The 28.72 TPY of NOx emissions that the two new boilers will emit is equivalent to a fuel consumption of 201,042,000 cubic feet per year (CFY) of natural gas and 957,343 gallons per year (GPY) of number 2 fuel oil. The total fuel consumption is equally shared between the two boilers.

Typically, one boiler will be on 50% of the time on number 2 oil and the other 50% of the time on natural gas. The other boiler will be operated three (3) months per year and the same boiler would be on standby for the other nine (9) months.

Condition # 28 for 6 NYCRR 227-2.4(d): This condition is an emission unit level condition for Record Keeping/Maintenance Procedures condition for Oxides of Nitrogen that applies to EU: U-00001. This condition is for the NOx RACT condition for small boilers (those with a heat input less than or equal to 50 MMBTU/hr) and applies to the boilers with Emission Sources 00001, 00002, E0004 & E00005 in EU: U-00001, which are the 25.1 MM Btu/hr Cleaver Brooks boiler, the 31.4 MM Btu/hr Cleaver Brooks boilers, and the two 30.6 MM Btu/hr Cleaver Brooks boilers, respectively. The facility is required to tune-up the boiler at least once a year in order to ensure that the boiler is operating properly, thus minimizing the emissions to the atmosphere.

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001

Renewal Number: 1

Modification Number: 2



03/15/2006

A boiler tune-up shall be performed annually to each of the boilers defined in Emission Unit U-00001 as Emission Sources 00001, 00002, E0004 & E00005. The owner or operator of a small boiler (between 20 and 50 MM Btu/hr) shall maintain a log (in the format acceptable to the Department as in Air Guide 33) containing the following information:

- (1) The date which the equipment was adjusted; and
- (2) The name, title, and affiliation of the person who adjusted the equipment.

Annual tune-up maintenance usually includes not only some aspects of daily, weekly, and monthly scheduled maintenance, but also focuses on tests, evaluations and adjustments necessary for efficient combustion. Annual tune-up maintenance requirements must include a tune-up checklist (see Appendix A of Air Guide 33) and written procedures.

Condition # 30 for 6 NYCRR 227-1.3(a): This condition is an emission unit level and emission point level monitoring condition for Particulates that applies to EU: U-00001 and EP: 00001. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Particulates for opacity. This condition is for the emission unit and the emission point that is associated with the 25.1 MM Btu/hr Cleaver Brooks boiler, the 31.4 MM Btu/hr Cleaver Brooks boilers, and the two 30.6 MM Btu/hr Cleaver Brooks boilers. 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 # 31 for 6 NYCRR 227.2(b)(1): This condition is an emission unit level and emission point level condition for Particulates that applies to EU: U-00001 and EP: 00001. This condition is for Intermittent Emission Testing for Particulates for the 25.1 MM Btu/hr Cleaver Brooks boiler, the 31.4 MM Btu/hr Cleaver Brooks boilers, and the two 30.6 MM Btu/hr Cleaver Brooks boilers. This regulation is from the 1972 version of Part 227 and still remains as part of New York's SIP. This condition establishes a particulate limit of 0.10 lbs/mmBtu based on a 2 hour average emission for the oil fired stationary combustion installation (previously referenced four boilers) and is required once during the term of the permit.

Condition # 32 for 6 NYCRR 60.43c(c), NSPS Subpart Dc: This condition is an emission unit level and emission point level monitoring condition for Particulates that applies to EU: U-00001 and EP: 00001. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Particulates. This condition requires that on or after the date on which the initial performance test is completed or is required to be completed, an affected facility that combusts coal, wood, or oil and has a heat input of 30 million Btu per hour (8.7 MW) or greater, shall not cause any gases to be discharged to the atmosphere, that exhibit an opacity greater than 20% (based on a 6-minute average) or exceeds 27% for one 6-minute period per hour.

Condition # 33 for 40 CFR 60.40c, NSPS Subpart Dc: This condition is an emission unit level, emission point level and process level condition for Sulfur Dioxide that applies to EU: U-00001, EP: 00001 and Proc: BOI. This condition is for Recordkeeping/Maintenance Procedures for Sulfur Dioxide.

This condition requires the source owner or operator to comply with the applicable General Provisions of

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001

Renewal Number: 1

Modification Number: 2

03/15/2006



40 CFR 60 Subpart Dc. The facility owner is responsible for reviewing these general provisions in detail and complying with all applicable technical, administrative and reporting requirements.

Condition # 34 for 40 CFR 60.40c, NSPS Subpart Dc: This condition is an emission unit level, emission point level and process level condition for Sulfur Dioxide that applies to EU: U-00001, EP: 00001 and Proc: BOI. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Sulfur Dioxide. The sulfur content limit in number 2 fuel oil is 0.20 % by weight for facilities in severe ozone non-attainment areas such as New York City.

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

Condition # 35 for 40 CFR 60.42c(d), NSPS Subpart Dc: This condition is an emission unit level, emission point level and process level condition for Sulfur Dioxide that applies to EU: U-00001, EP: 00001 and Proc: BOI. This condition is for Work Practice Involving Specific Operations. The sulfur content limit in number 2 fuel oil is 0.20 % by weight for facilities in severe ozone non-attainment areas such as New York City.

This condition requires that on or after the date on which the initial performance test is completed or required to be completed under section 60.8 of 40 CFR 60 Subpart A, no owner or operator of an affected facility that combusts oil, shall combust oil with a sulfur content in excess of 0.2 percent by weight.

Condition # 37 for 40 CFR 60.44c(h), NSPS Subpart Dc: This condition is an emission unit level, emission point level and process level condition for Sulfur Dioxide that applies to EU: U-00001, EP: 00001 and Proc: BOI. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Sulfur Dioxide. The sulfur content limit in number 2 fuel oil is 0.20 % by weight for facilities in severe ozone non-attainment areas such as New York City.

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

Condition # 39 for 40 CFR 60.46c(d)(2), NSPS Subpart Dc: This condition is an emission unit level, emission point level and process level condition for Sulfur Dioxide that applies to EU: U-00001, EP: 00001 and Proc: BOI. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Sulfur Dioxide. The sulfur content limit in number 2 fuel oil is 0.20 % by weight for facilities in severe ozone non-attainment areas such as New York City.

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

Condition # 40 for 40 CFR 60.47c, NSPS Subpart Dc: This condition is an emission unit level, emission point level and process level condition for Particulates that applies to EU: U-00001, EP: 00001 and Proc: BOI. This condition is for Monitoring of Process or Control Device Parameters as Surrogate

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2



03/15/2006

for Particulates.

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

Condition # 41 for 40 CFR 60.48c(f)(1), NSPS Subpart Dc: This condition is an emission unit level, emission point level and process level condition for Sulfur Dioxide that applies to EU: U-00001, EP: 00001 and Proc: BOI. This condition is for Recordkeeping/Maintenance Procedures for Sulfur Dioxide. The sulfur content limit in number 2 fuel oil is 0.20 % by weight for facilities in severe ozone non-attainment areas such as New York City.

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

Typically, one boiler will be on 50% of the time on number 2 oil and the other 50% of the time on natural gas. The other boiler will be operated three (3) months per year and the same boiler would be on standby for the other nine (9) months.

Condition # 1-20 for 6 NYCRR 201-7, Capping out of 6 NYCRR 231-2: This condition is an emission unit level, emission point level, and process level monitoring condition for Oxides of Nitrogen that applies to EU: U-00001, EP: 00001 and Proc: G45. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Oxides of Nitrogen.

This condition is for monitoring the Oxides of Nitrogen in the two new Cleaver-Brooks boilers, each of capacity 30.6 MM Btu/hr. These two new boilers (the 30.6 MM Btu/hr each Cleaver Brooks) will not emit more than 28.72 TPY of NO_x emissions. The old boiler (26.6 MM Btu/hr Erie City) emissions will be reduced by 16.68 TPY. Therefore, NET increase of NO_x emissions is less than 12.04 TPY.

The 28.72 TPY of NO_x emissions that the two new boilers will emit is equivalent to a fuel consumption of 201,042,000 cubic feet per year (CFY) of natural gas and 957,343 gallons per year (GPY) of number 2 fuel oil. The total fuel consumption is equally shared between the two boilers.

Condition # 1-21 for 6 NYCRR 201-7, Capping out of 6 NYCRR 231-2: This condition is an emission unit level, emission point level, and process level monitoring condition for Oxides of Nitrogen that applies to EU: U-00001, EP: 00001 and Proc: O45. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Oxides of Nitrogen.

This condition is for monitoring the Oxides of Nitrogen in the two new Cleaver-Brooks boilers, each of capacity 30.6 MM Btu/hr. These two new boilers (the 30.6 MM Btu/hr each Cleaver Brooks) will not emit more than 28.72 TPY of NO_x emissions. The old boiler (26.6 MM Btu/hr Erie City) emissions will be reduced by 16.68 TPY. Therefore, NET increase of NO_x emissions is less than 12.04 TPY.

The 28.72 TPY of NO_x emissions that the two new boilers will emit is equivalent to a fuel consumption of 201,042,000 cubic feet per year (CFY) of natural gas and 957,343 gallons per year (GPY) of number 2 fuel oil. The total fuel consumption is equally shared between the two boilers.



New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2 03/15/2006

Typically, one boiler will be on 50% of the time on number 2 oil and the other 50% of the time on natural gas. The other boiler will be operated three (3) months per year and the same boiler would be on standby for the other nine (9) months.

Condition # 43 for 40 CFR 60.46c(d)(2), NSPS Subpart Dc: This condition is an emission unit level, emission point level and process level condition for Sulfur Dioxide that applies to EU: U-00001, EP: 00001 and Proc: O45. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Sulfur Dioxide. The sulfur content limit in number 2 fuel oil is 0.20 % by weight for facilities in severe ozone non-attainment areas such as New York City.

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

Condition # 44 for 40 CFR 60.47c, NSPS Subpart Dc: This condition is an emission unit level, emission point level and process level condition for Particulates that applies to EU: U-00001, EP: 00001 and Proc: O45. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Particulates.

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

Condition # 45 for 40 CFR 60.48c(f)(1), NSPS Subpart Dc: This condition is an emission unit level, emission point level and process level condition for Sulfur Dioxide that applies to EU: U-00001, EP: 00001 and Proc: O45. This condition is for Recordkeeping/Maintenance Procedures for Sulfur Dioxide. The sulfur content limit in number 2 fuel oil is 0.20 % by weight for facilities in severe ozone non-attainment areas such as New York City.

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

Condition # 46 for 6 NYCRR 227-1.3(a): This condition is an emission unit level and emission point level monitoring condition for Particulates that applies to EU: U-00002 and EP: 00002. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Particulates. This condition is for the emission unit and emission point that is associated with the 940 kilowatts Waukesha # 1 internal combustion engine (Emission Source 00004). 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 # 47 for 6 NYCRR 227-2.4(f)(2): This condition is an emission unit level, emission point level, process level and emission source level condition for Oxides of Nitrogen that applies to EU: U-00002, EP: 00002, Proc: CNG, ES: 00004. This condition is for Record Keeping/Maintenance Procedures for Oxides of Nitrogen and applies to ES: 00004 (940 kilowatts Waukesha # 1 internal combustion engine). This internal combustion engine fires only natural gas.

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001

Renewal Number: 1

Modification Number: 2

03/15/2006



This condition sets emission limits on oxides of nitrogen for lean burn internal combustion engines firing natural gas or distillate oils.

To ensure that the unit runs at optimum conditions and stays in compliance with the NO_x RACT emission limit, periodic maintenance will be performed in accordance with manufacturer's specifications. These specific procedures are outlined in the manufacturer's specification manual for the unit. Other components of the periodic maintenance program for the unit include those actions necessitated by the results of monitoring the following data: diagnostic data obtained after a set number of operating hours, engine gas analysis, and fuel consumption versus power output of the unit.

The two stationary internal combustion engines (Emission Sources 00004 & 00005) in Emission Unit U-00002 are 940 kilowatts (1259.6 hp) each, fire natural gas only, are lean burn internal combustion engines with compression ignition source.

Condition # 48 for 6 NYCRR 227-2.4(f)(2)(ii): EU: This condition is an emission unit level, emission point level, process level and emission source level condition for Oxides of Nitrogen that applies to EU: U-00002, EP: 00002, Proc: CNG, ES: 00004. This condition is Intermittent Emission Testing for Oxides of Nitrogen and applies to ES: 00004 (940 kilowatts Waukesha # 1 internal combustion engine). This internal combustion engine fires only natural gas. The NO_x RACT emission limit regulatory standard for a lean burn internal combustion engine with compression ignition source is 9.0 grams per brake horsepower-hour through March 31, 2005, and 2.3 grams per brake horsepower-hour beginning April 1, 2005.

This condition requires any owner or operator of a stationary lean burn internal combustion engine of 225 horsepower (200 horsepower beginning April 1, 2005) or larger in the severe non-attainment area, and 400 horsepower in the rest of the State, which provides primary power or is used for peak shaving generation, to comply with an emission limit of 9.0 grams per brake horsepower-hour for gas only fired units, effective May 31, 1995 through March 31, 2005, and 2.3 grams per brake horsepower-hour beginning April 1, 2005.

Compliance with the emission limit must be determined on a 1-hour average if an emission test (stack test) is utilized in accordance with 6 NYCRR 227-2.6(a)(7) or a 24-hour average if CEMS are utilized under 6 NYCRR 227-2.6(a)(2). If CEMS are utilized, the requirements of 6 NYCRR 227-2.6(b) apply, including the use of a 24-hour averaging period.

Condition # 49 for 6 NYCRR 227-2.6(a)(2): This condition is an emission unit level, emission point level, process level and emission source level condition for Oxides of Nitrogen that applies to EU: U-00002, EP: 00002, Proc: CNG, ES: 00004. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Oxides of Nitrogen and applies to ES: 00004 (940 kilowatts Waukesha # 1 internal combustion engine). Stack testing will be required in order to demonstrate compliance with the NO_x RACT emission limit regulatory standard for a lean burn internal combustion engine with compression ignition source, which is 9.0 grams per brake horsepower-hour through March 31, 2005, and 2.3 grams per brake horsepower-hour beginning April 1, 2005. This internal combustion engine fires only natural gas.



New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2 03/15/2006

This condition is for internal combustion engines which opt to employ a continuous emissions monitoring system (CEMS), or equivalent, in lieu of the monitoring requirements to perform initial compliance stack tests as described in subdivision (c) of this section. Those internal combustion engines which opt to monitor emissions with a CEMS or equivalent shall follow the requirements of 6 NYCRR 227-2.6(b) to demonstrate compliance, including a 24 hour daily arithmetic average NO_x emission rate.

This condition is for CEMs monitoring for those facilities which opt to use CEMs. The owner/operator shall measure NO_x emissions with a continuous emissions monitoring system (CEMS) as described in 6 NYCRR 227-2.6(b).

Condition # 50 for 6 NYCRR 227-2.6(a)(7): This condition is an emission unit level, emission point level, process level and emission source level condition for Oxides of Nitrogen that applies to EU: U-00002, EP: 00002, Proc: CNG, ES: 00004. This condition is for Record Keeping/Maintenance Procedures for Oxides of Nitrogen and applies to ES: 00004 (940 kilowatts Waukesha # 1 internal combustion engine). The NO_x RACT emission limit for lean burn internal combustion engines with compression ignition source is the standard 9.0 grams per brake horsepower-hour through March 31, 2005, and 2.3 gm/bhp-hr beginning April 1, 2005. This internal combustion engine fires only natural gas.

This condition is for testing, monitoring and reporting for internal combustion engines. This condition is for ES: 00004 (940 kilowatts Waukesha # 1 internal combustion engine).

On a daily basis, the facility will keep records of :

1. The natural gas fuel usage for each generator in cubic feet per day and
2. The hours of operation for each generator in hours per day.

Records will be maintained for five years at the facility.

The owner/operator of this internal combustion engine shall perform an initial compliance stack test as described in 6 NYCRR 227-2.6(c) to verify NO_x emissions to demonstrate compliance with 6 NYCRR 227-2.6(a). If the internal combustion engine qualifies for the control exemption listed in 6 NYCRR 227-2.4(f)(3), do not need to perform the stack test. A test protocol shall be submitted for approval at least 60 days prior to testing. Testing procedures shall be those set for in 40 CFR 60 Appendix A, or any other methods acceptable to the Department and the USEPA for determining compliance with the appropriate NO_x limit set forth in section 227-2.4. Testing procedures shall also comply with subpart 202-1.

Condition # 51 for 6 NYCRR 227-2.6(a)(7): EU: This condition is an emission unit level, emission point level, process level and emission source level condition for Oxides of Nitrogen that applies to EU: U-00002, EP: 00002, Proc: CNG, ES: 00004. This condition is for Intermittent Emission Testing for Oxides of Nitrogen and applies to ES: 00004 (940 kilowatts Waukesha # 1 internal combustion engine). The NO_x RACT emission limit for lean burn internal combustion engines with compression ignition source is the standard 9.0 grams per brake horsepower-hour through March 31, 2005, and 2.3 gm/bhp-hr beginning April 1, 2005. This internal combustion engine fires only natural gas.

This condition is for testing, monitoring and reporting for internal combustion engines. This condition is

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2



03/15/2006

for the 940 kilowatts Waukesha # 1 internal combustion engine

The owner/operator of internal combustion engines shall perform initial compliance stack tests as described in subdivision (c) of this section to verify NOx emissions to demonstrate compliance with Subpart 2.6(a). Also, the NOx emissions must be measured in accordance with emission test requirements as described in subdivision (c) of this section.

The purpose of the stack test program is to establish emission levels for the two lean burn fired natural gas internal combustion engines (Emission Sources 00004 & 00005) and to compare them to the established emissions limits set forth in 6 NYCRR 227-2-4(f)(2)(ii). The New York State Department of Environmental Conservation (NYSDEC) sets these emissions limits as part of the NOx RACT rules.

Condition # 52 for 6 NYCRR 227-2.6(b): This condition is an emission unit level, emission point level, process level and emission source level condition for Oxides of Nitrogen that applies to EU: U-00002, EP: 00002, Proc: CNG, ES: 00004. This condition is for Continuous Emission Monitoring (CEM) for Oxides of Nitrogen and applies to ES: 00004 (940 kilowatts Waukesha # 1 internal combustion engine). The NOx RACT emission limit for lean burn internal combustion engines with compression ignition source is the standard 9.0 grams per brake horsepower-hour through March 31, 2005, and 2.3 gm/bhp-hr beginning April 1, 2005. This internal combustion engine fires only natural gas.

Any owner or operator of a combustion source subject to reasonably available control technology (RACT) requirements, under this subdivision, for NOx 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.

Condition # 53 for 6 NYCRR 227-2.6(c): This condition is an emission unit level, emission point level, process level and emission source level condition for Oxides of Nitrogen that applies to EU: U-00002, EP: 00002, Proc: CNG, ES: 00004. This condition is for Intermittent Emission Testing for Oxides of Nitrogen and applies to ES: 00004 (940 kilowatts Waukesha # 1 internal combustion engine). Stack testing will be required in order to demonstrate compliance with the NOx RACT emission limit regulatory standard of 9.0 grams per brake horsepower-hour through March 31, 2005, and 2.3 grams per brake horsepower-hour beginning April 1, 2005, for lean burn internal combustion engines with compression ignition source. This internal combustion engine fires only natural gas.

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

1. Submit a compliance test protocol to the department for approval at least 90 days prior to emission testing. The condition of the testing and the locations of the sampling devices must be acceptable to the

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2



03/15/2006

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.

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

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

Condition # 54 for 6 NYCRR 227-1.3(a): This condition is an emission unit level and emission point level monitoring condition for Particulates that applies to EU: U-00002 and EP: 00003. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Particulates. This condition is for the emission unit and emission point that is associated with Emission Source 00005 (940 kilowatts Waukesha # 2 internal combustion engine). 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 # 55 for 6 NYCRR 227-2.4(f)(2): This condition is an emission unit level, emission point level, process level and emission source level condition for Oxides of Nitrogen that applies to EU: U-00002, EP: 00003, Proc: CNG, ES: 00005. This condition is for Record Keeping/Maintenance Procedures for Oxides of Nitrogen and applies to ES: 00005 (940 kilowatts Waukesha # 2 internal combustion engine). This internal combustion engine fires only natural gas.

This condition sets emission limits on oxides of nitrogen for lean burn internal combustion engines firing natural gas or distillate oils.

To ensure that the unit runs at optimum conditions and stays in compliance with the NOx RACT emission limit, periodic maintenance will be performed in accordance with manufacturer's specifications. These specific procedures are outlined in the manufacturer's specification manual for the unit. Other components of the periodic maintenance program for the unit include those actions necessitated by the results of monitoring the following data: diagnostic data obtained after a set number of operating hours, engine gas analysis, and fuel consumption versus power output of the unit.

The two stationary internal combustion engines (Emission Sources 00004 & 00005) in Emission Unit U-00002 are 940 kilowatts (1259.6 hp) each, fire natural gas only, are lean burn internal combustion engines with compression ignition source.

Condition # 56 for 6 NYCRR 227-2.4(f)(2)(ii): This condition is an emission unit level, emission point level, process level and emission source level condition for Oxides of Nitrogen that applies to EU: U-00002, EP: 00003, Proc: CNG, ES: 00005. This condition is for Intermittent Emission Testing for Oxides of Nitrogen and applies to ES: 00005 (940 kilowatts Waukesha # 2 internal combustion engine). This internal combustion engine fires only natural gas. The NOx RACT emission limit regulatory standard for a lean burn internal combustion engine with compression ignition source is 9.0 grams per



New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2 03/15/2006

brake horsepower-hour through March 31, 2005, and 2.3 grams per brake horsepower-hour beginning April 1, 2005.

This condition requires any owner or operator of a stationary lean burn internal combustion engine of 225 horsepower (200 horsepower beginning April 1, 2005) or larger in the severe non-attainment area, and 400 horsepower in the rest of the State, which provides primary power or is used for peak shaving generation, to comply with an emission limit of 9.0 grams per brake horsepower-hour for gas only fired units, effective May 31, 1995 through March 31, 2005, and 2.3 grams per brake horsepower-hour beginning April 1, 2005.

Compliance with the emission limit must be determined on a 1-hour average if an emission test (stack test) is utilized in accordance with 6 NYCRR 227-2.6(a)(7) or a 24-hour average if CEMS are utilized under 6 NYCRR 227-2.6(a)(2). If CEMS are utilized, the requirements of 6 NYCRR 227-2.6(b) apply, including the use of a 24-hour averaging period.

Condition # 57 for 6 NYCRR 227-2.6(a)(2): This condition is an emission unit level, emission point level, process level and emission source level condition for Oxides of Nitrogen that applies to EU: U-00002, EP: 00003, Proc: CNG, ES: 00005. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Oxides of Nitrogen and applies to ES: 00005 (940 kilowatts Waukesha # 2 internal combustion engine). Stack testing will be required in order to demonstrate compliance with the NO_x RACT emission limit regulatory standard for a lean burn internal combustion engine with compression ignition source, which is 9.0 grams per brake horsepower-hour through March 31, 2005, and 2.3 grams per brake horsepower-hour beginning April 1, 2005. This internal combustion engine fires only natural gas.

This condition is for internal combustion engines which opt to employ a continuous emissions monitoring system (CEMS), or equivalent, in lieu of the monitoring requirements to perform initial compliance stack tests as described in subdivision (c) of this section. Those internal combustion engines which opt to monitor emissions with a CEMS or equivalent shall follow the requirements of 6 NYCRR 227-2.6(b) to demonstrate compliance, including a 24 hour daily arithmetic average NO_x emission rate.

This condition is for CEMs monitoring for those facilities which opt to use CEMs. The owner/operator shall measure NO_x emissions with a continuous emissions monitoring system (CEMS) as described in 6 NYCRR 227-2.6(b).

Condition # 58 for 6 NYCRR 227-2.6(a)(7): This condition is an emission unit level, emission point level, process level and emission source level condition for Oxides of Nitrogen that applies to EU: U-00002, EP: 00003, Proc: CNG, ES: 00005. This condition is for Record Keeping/Maintenance Procedures for Oxides of Nitrogen and applies to ES: 00005 (940 kilowatts Waukesha # 2 internal combustion engine). The NO_x RACT emission limit for lean burn internal combustion engines with compression ignition source is the standard 9.0 grams per brake horsepower-hour through March 31, 2005, and 2.3 gm/bhp-hr beginning April 1, 2005. This internal combustion engine fires only natural gas.

This condition is for testing, monitoring and reporting for internal combustion engines. This condition is for ES: 00004 (940 kilowatts Waukesha # 1 internal combustion engine).

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2



03/15/2006

On a daily basis, the facility will keep records of :

1. The natural gas fuel usage for each generator in cubic feet per day and
2. The hours of operation for each generator in hours per day.

Records will be maintained for five years at the facility.

The owner/operator of this internal combustion engine shall perform an initial compliance stack test as described in 6 NYCRR 227-2.6(c) to verify NO_x emissions to demonstrate compliance with 6 NYCRR 227-2.6(a). If the internal combustion engine qualifies for the control exemption listed in 6 NYCRR 227-2.4(f)(3), do not need to perform the stack test. A test protocol shall be submitted for approval at least 60 days prior to testing. Testing procedures shall be those set for in 40 CFR 60 Appendix A, or any other methods acceptable to the Department and the USEPA for determining compliance with the appropriate NO_x limit set forth in section 227-2.4. Testing procedures shall also comply with subpart 202-1.

Condition # 59 for 6 NYCRR 227-2.6(a)(7): This condition is an emission unit level, emission point level, process level and emission source level condition for Oxides of Nitrogen that applies to EU: U-00002, EP: 00003, Proc: CNG, ES: 00005. This condition is for Intermittent Emission Testing for Oxides of Nitrogen and applies to ES: 00005 (940 kilowatts Waukesha # 2 internal combustion engine). The NO_x RACT emission limit for lean burn internal combustion engines with compression ignition source is the standard 9.0 grams per brake horsepower-hour through March 31, 2005, and 2.3 gm/bhp-hr beginning April 1, 2005. This internal combustion engine fires only natural gas.

This condition is for testing, monitoring and reporting for internal combustion engines. This condition is for the 940 kilowatts Waukesha # 1 internal combustion engine

The owner/operator of internal combustion engines shall perform initial compliance stack tests as described in subdivision (c) of this section to verify NO_x emissions to demonstrate compliance with Subpart 2.6(a). Also, the NO_x emissions must be measured in accordance with emission test requirements as described in subdivision (c) of this section.

The purpose of the stack test program is to establish emission levels for the two lean burn fired natural gas internal combustion engines (Emission Sources 00004 & 00005) and to compare them to the established emissions limits set forth in 6 NYCRR 227-2-4(f)(2)(ii). The New York State Department of Environmental Conservation (NYSDEC) sets these emissions limits as part of the NO_x RACT rules.

Condition # 60 for 6 NYCRR 227-2.6(b): This condition is an emission unit level, emission point level, process level and emission source level condition for Oxides of Nitrogen that applies to EU: U-00002, EP: 00003, Proc: CNG, ES: 00005. This condition is for Continuous Emission Monitoring (CEM) for Oxides of Nitrogen and applies to ES: 00005 (940 kilowatts Waukesha # 2 internal combustion engine). The NO_x RACT emission limit for lean burn internal combustion engines with compression ignition source is the standard 9.0 grams per brake horsepower-hour through March 31, 2005, and 2.3 gm/bhp-hr beginning April 1, 2005. This internal combustion engine fires only natural gas.

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 2-6103-00158/00001 Renewal Number: 1 Modification Number: 2



03/15/2006

Any owner or operator of a combustion source subject to reasonably available control technology (RACT) requirements, under this subdivision, for NO_x 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.

Condition # 61 for 6 NYCRR 227-2.6(c): This condition is an emission unit level, emission point level, process level and emission source level condition for Oxides of Nitrogen that applies to EU: U-00002, EP: 00003, Proc: CNG, ES: 00005. This condition is for Intermittent Emission Testing for Oxides of Nitrogen and applies to ES: 00005 (940 kilowatts Waukesha # 2 internal combustion engine). Stack testing will be required in order to demonstrate compliance with the NO_x RACT emission limit regulatory standard of 9.0 grams per brake horsepower-hour through March 31, 2005, and 2.3 grams per brake horsepower-hour beginning April 1, 2005, for lean burn internal combustion engines with compression ignition source. This internal combustion engine fires only natural gas.

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

1. Submit a compliance test protocol to the department for approval at least 90 days prior to emission testing. The condition of the testing and the locations of the sampling devices must be acceptable to the department; and
2. Utilize procedures set forth in 40 CFR Part 60, Appendix A or any other method acceptable to the department and EPA for determining compliance with the appropriate NO_x limit in section 227-2.4 of this Subpart, and shall follow the procedures set forth in Part 202 of this Title.
3. For stationary internal combustion engines, utilize Method 7, 7E, or 19 from 40 CFR part 60, Appendix A or another reference method approved by the department.
4. Submit a compliance test report containing the results of the emission test to the department no later than 60 days after completion of the emission test.