



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002

Renewal Number: 2

10/07/2011

Facility Identification Data

Name: MAIMONIDES MEDICAL CENTER

Address: 4802 TENTH AVE

BROOKLYN, NY 11219

Owner/Firm

Name: MAIMONIDES MEDICAL CENTER

Address: 48-02 TENTH AVENUE

BROOKLYN, NY 11219-2916, USA

Owner Classification: Corporation/Partnership

Permit Contacts

Division of Environmental Permits:

Name: ELIZABETH A CLARKE

Address: NYSDEC

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 EARL

Address: MAIMONIDES MEDICAL CENTER

48-02 TENTH AVE

BROOKLYN, NY 11219

Phone: 7182837678

Permit Description

Introduction

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

Summary Description of Proposed Project

Application for renewal of Air Title V Facility.

The project for this facility is a Title V permit Renewal #2 for the Title V permit Renewal #1 which was



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002

Renewal Number: 2

10/07/2011

issued to Maimonides Medical Center on 9/20/2006 and will expire on 9/19/2011. The EtO sterilizer equipment was removed from the facility on 11/3/2006. The facility has discontinued the use of EtO sterilizer and associated equipment on 9/22/2006, and on 11/3/2006, the EtO equipment was completely removed from the facility. Therefore, Emission Unit: U-00003, Emission Point: E0003, Process: ETO, and Emission Source/Control: S0006/S0007 were removed from the facility on 11/3/2006, and hence the associated federal, state and compliance monitoring requirements and conditions were also removed. This was reflected in Ren 1, Mod 1 that was issued on 1/19/2007.

The facility has replaced the EtO sterilizer with low temperature plasma system utilizing hydrogen peroxide vapor. No toxic emissions are expected from the replaced system.

Attainment Status

MAIMONIDES MEDICAL CENTER 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:

Maimonides Medical Center (MMC) is a Title V facility, operating five boilers, two exempt boilers, five emergency generators, two fume hoods, thirteen storage tanks and one print shop.

This Title V renewal modification application includes the following emission sources at this major facility:

1. One 25.2 MM BTU/hr Seambower boiler, firing both natural gas and # 6 fuel oil (Emission Source ES002)
2. One 50 MM BTU/hr Babcock & Wilcox boiler, firing both natural gas and # 6 fuel oil (Emission Source ES003)
3. One 32.6 MM BTU/hr Nebraska boiler, firing both natural gas and # 6 fuel oil (Emission Source ES008)
4. One 2.3 MM BTU/hr Webco boiler, firing # 6 fuel oil only (exempt)
5. Two 300 KW (each) emergency generators
6. Three exempt emergency generators (500, 700 and 800 KW)
7. Thirteen fuel oil storage tanks



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002

Renewal Number: 2

10/07/2011

8 .Two fume hoods

The facility operates other sources which are considered exempt from permitting in accordance with 6 NYCRR 201-3.2(c), including one boiler (<10 MM BTU/hr), five emergency power generators (<500 hours/yr), fourteen (14) fuel oil storage tanks (<300,000 bbls), one screen printing inks/coatings or adhesives (print shop) and two laboratory fume hoods.

The facility has discontinued the use of EtO sterilizer and associated equipment on 9/22/2006, and on 11/3/2006, the EtO equipment was completely removed from the facility. Therefore, Emission Unit: U-00003, Emission Point: E0003, Process: ETO, and Emission Source/Control: S0006/S0007 were removed from the facility on 11/3/2006, and hence the associated federal, state and compliance monitoring requirements and conditions were also removed. This was reflected in Ren 1, Mod 1 that was issued on 1/19/2007.

The facility has replaced the EtO sterilizer with low temperature plasma system utilizing hydrogen peroxide vapor. No toxic emissions are expected from the replaced system.

Permit Structure and Description of Operations

The Title V permit for MAIMONIDES MEDICAL CENTER

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.

MAIMONIDES MEDICAL CENTER is defined by the following emission unit(s):

Emission unit U00001 - Emission Unit U-00001 consists of three boilers: one 25.2 MM Btu/hr Orr Seambow (Emission Source S0002), one 50 MM Btu/hr Babcock & Wilcox (Emission Source S0003), and a new 32.6 MM Btu/hr Nebraska (Emission Source S0008). All three boilers are capable of firing # 6 fuel oil (Process BOI) and natural gas (Process BNG). Flue gas from all three boilers will exhaust through the existing common stack (Emission Point E0001). The new Nebraska boiler has individual fuel caps.

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



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002

Renewal Number: 2

10/07/2011

E0001

Process: BNG is located at BASEMENT, Building 0000000001 - Process BNG is when the three boilers an individual fuel limit of 80 million cubic feet per year. In the event of natural gas shortage, more fuel oil will be used, and vice versa, providing that the NOx emissions from this boiler will not exceed 46.9 TPY.

Process: BOI is located at Building 0000000001 - Process BOI is when the three boilers (Emission Sources S0002, S0003 & S0008) fire # 6 fuel oil. The new 32.6 MM Btu/hr Nebraska boiler has an individual fuel limit of 1.5 million gallons per year. In the event of natural gas shortage, more fuel oil will be used, and vice versa, providing that the NOx emissions from this boiler will not exceed 46.9 TPY.

Title V/Major Source Status

MAIMONIDES MEDICAL CENTER is subject to Title V requirements. This determination is based on the following information:

Maimonides Medical Center is a major facility because the potential emissions of nitrogen oxides is greater than the major source thresholds, which is 25 tons per year for nitrogen oxides.

Program Applicability

The following chart summarizes the applicability of MAIMONIDES MEDICAL CENTER with regards to the principal air pollution regulatory programs:

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

NOTES:

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



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002

Renewal Number: 2

10/07/2011

NSR New Source Review (6 NYCRR Part 231) - requirements which pertain to major stationary sources located in areas which are in non-attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

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

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

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

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

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

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

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

Compliance Status

Facility is in compliance with all requirements.

SIC Codes

SIC or Standard Industrial Classification code is an industrial code developed by the federal Office of Management and Budget for use, among other things, in the classification of establishments by the type of



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002
Renewal Number: 2
10/07/2011

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

1-03-004-02

EXTERNAL COMBUSTION BOILERS -
 COMMERCIAL/INDUSTRIAL
 COMMERCIAL/INSTITUTIONAL BOILER - RESIDUAL
 OIL

1-03-006-02

10-100MMBTU/HR **
 EXTERNAL COMBUSTION BOILERS -
 COMMERCIAL/INDUSTRIAL
 COMMERCIAL/INSTITUTIONAL BOILER - NATURAL
 GAS
 10-100 MMBtu/Hr

Facility Emissions Summary

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

Cas No.	Contaminant Name	PTE	Range
		lbs/yr	

New York State Department of Environmental Conservation
Permit Review Report



Permit ID: 2-6103-00760/00002
Renewal Number: 2
10/07/2011

000075-07-0	ACETALDEHYDE	> 0 but < 10 tpy
000107-02-8	ACROLEIN	> 0 but < 10 tpy
007440-38-2	ARSENIC	> 0 but < 10 tpy
000071-43-2	BENZENE	> 0 but < 10 tpy
007440-41-7	BERYLLIUM	> 0 but < 10 tpy
007440-43-9	CADMIUM	> 0 but < 10 tpy
000630-08-0	CARBON MONOXIDE	>= 25 tpy but < 40 tpy
007440-47-3	CHROMIUM	> 0 but < 10 tpy
000050-00-0	FORMALDEHYDE	> 0 but < 10 tpy
007439-92-1	LEAD	> 0 but < 10 tpy
007439-96-5	MANGANESE	> 0 but < 10 tpy
007439-97-6	MERCURY	> 0 but < 10 tpy
007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS	> 0 but < 10 tpy
0NY210-00-0	OXIDES OF NITROGEN	>= 100 tpy but < 250 tpy
0NY075-00-0	PARTICULATES	>= 25 tpy but < 40 tpy
0NY075-00-5	PM-10	>= 25 tpy but < 40 tpy
130498-29-2	POLYCYCLIC AROMATIC HYDROCARBONS	> 0 but < 10 tpy
000115-07-1	PROPYLENE	>= 2.5 tpy but < 10 tpy
007446-09-5	SULFUR DIOXIDE	>= 100 tpy but < 250 tpy
000108-88-3	TOLUENE	> 0 but < 10 tpy
0NY998-00-0	VOC	>= 2.5 tpy but < 10 tpy
001330-20-7	XYLENE, M, O & P MIXT.	> 0 but < 10 tpy

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A: Emergency Defense - 6 NYCRR 201-1.5

An emergency constitutes an affirmative defense to an action brought for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

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

- (1) An emergency occurred and that the facility owner and/or operator can identify the cause(s) of the emergency;
- (2) The equipment at the permitted facility causing the emergency was at the time being properly operated;
- (3) During the period of the emergency the facility owner and/or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
- (4) The facility owner and/or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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

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

New York State Department of Environmental Conservation
Permit Review Report



Permit ID: 2-6103-00760/00002

Renewal Number: 2

10/07/2011

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

New York State Department of Environmental Conservation
Permit Review Report



Permit ID: 2-6103-00760/00002

Renewal Number: 2

10/07/2011

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

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

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

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

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

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.
- ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.
- iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

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



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002

Renewal Number: 2

10/07/2011

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

Item L: Permit Exclusion - ECL 19-0305

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

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

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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

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

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

Regulatory Analysis

Location Facility/EU/EP/Process/ES	Regulation	Condition	Short Description
---	-------------------	------------------	--------------------------

New York State Department of Environmental Conservation
Permit Review Report



Permit ID: 2-6103-00760/00002

Renewal Number: 2

10/07/2011

--			
FACILITY	ECL 19-0301	76	Powers and Duties of the Department with respect to air pollution control
U-00001/E0001/BOI/S0003	40CFR 60-A	39	General provisions
U-00001/E0001/BOI/S0008	40CFR 60-A	58	General provisions
FACILITY	40CFR 60-A.4	31	General provisions - Address
U-00001/E0001/BOI/S0003	40CFR 60-Dc.40c	40, 41	Steam generators 10-100 million Btu per hour
U-00001/E0001/BOI/S0008	40CFR 60-Dc.40c	59, 60	Steam generators 10-100 million Btu per hour
U-00001/E0001/BOI/S0003	40CFR 60-Dc.42c (d)	42	Standard for Sulfur Dioxide Firing Oil. (see narrative)
U-00001/E0001/BOI/S0008	40CFR 60-Dc.42c (d)	61	Standard for Sulfur Dioxide Firing Oil. (see narrative)
U-00001/E0001/BOI/S0003	40CFR 60-Dc.42c (h)	43	Exemption from Averaging Requirements
U-00001/E0001/BOI/S0008	40CFR 60-Dc.42c (h)	62	Exemption from Averaging Requirements
U-00001/E0001/BOI/S0003	40CFR 60-Dc.42c (i)	44	Standard for Sulfur Dioxide Period of Requirements.
U-00001/E0001/BOI/S0008	40CFR 60-Dc.42c (i)	63	Standard for Sulfur Dioxide Period of Requirements.
U-00001/E0001/BOI/S0003	40CFR 60-Dc.43c (c)	45	Standard for Opacity.
U-00001/E0001/BOI/S0008	40CFR 60-Dc.43c (c)	64	Standard for Opacity.
U-00001/E0001/BOI/S0003	40CFR 60-Dc.46c (d) (2)	46	Alternative sulfur dioxide emissions monitoring.
U-00001/E0001/BOI/S0008	40CFR 60-Dc.46c (d) (2)	65	Alternative sulfur dioxide emissions monitoring.
U-00001/E0001/BOI/S0003	40CFR 60-Dc.46c (e)	47	Exemption from Emission Monitoring for Sulfur Dioxide.
U-00001/E0001/BOI/S0008	40CFR 60-Dc.46c (e)	66	Exemption from Emission Monitoring for Sulfur Dioxide.
U-00001/E0001/BOI/S0003	40CFR 60-Dc.47c	48	Emission Monitoring for Particulate Matter.
U-00001/E0001/BOI/S0008	40CFR 60-Dc.47c	67	Emission Monitoring for Particulate Matter.
U-00001/E0001/BOI/S0003	40CFR 60-Dc.48c (d)	49	Reporting and Recordkeeping Requirements.
U-00001/E0001/BOI/S0008	40CFR 60-Dc.48c (d)	68	Reporting and Recordkeeping Requirements.
U-	40CFR 60-Dc.48c (e) (1)	50	



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002

Renewal Number: 2

10/07/2011

00001/E0001/BOI/S0003			
U-	40CFR 60-Dc.48c(e) (1)	69	
00001/E0001/BOI/S0008			
U-	40CFR 60-Dc.48c(e) (2)	51	
00001/E0001/BOI/S0003			
U-	40CFR 60-Dc.48c(e) (2)	70	
00001/E0001/BOI/S0008			
U-	40CFR 60-Dc.48c(e) (3)	52	
00001/E0001/BOI/S0003			
U-	40CFR 60-Dc.48c(e) (3)	71	
00001/E0001/BOI/S0008			
U-	40CFR 60-Dc.48c(e) (4)	53	
00001/E0001/BOI/S0003			
U-	40CFR 60-Dc.48c(e) (4)	72	
00001/E0001/BOI/S0008			
U-	40CFR 60-Dc.48c(e) (7)	54	
00001/E0001/BOI/S0003			
U-	40CFR 60-Dc.48c(e) (7)	73	
00001/E0001/BOI/S0008			
U-	40CFR 60-Dc.48c(g)	55	Reporting and Recordkeeping Requirements.
00001/E0001/BOI/S0003			
U-	40CFR 60-Dc.48c(g)	74	Reporting and Recordkeeping Requirements.
00001/E0001/BOI/S0008			
U-	40CFR 60-Dc.48c(i)	56	Reporting and Recordkeeping Requirements.
00001/E0001/BOI/S0003			
U-	40CFR 60-Dc.48c(i)	75	Reporting and Recordkeeping Requirements.
00001/E0001/BOI/S0008			
FACILITY	40CFR 68	20	Chemical accident prevention provisions
FACILITY	40CFR 82-F	21	Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	6NYCRR 200.6	1	Acceptable ambient air quality.
FACILITY	6NYCRR 200.7	10	Maintenance of equipment.
FACILITY	6NYCRR 201-1.4	77	Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.7	11	Recycling and Salvage
FACILITY	6NYCRR 201-1.8	12	Prohibition of reintroduction of collected contaminants to the air
FACILITY	6NYCRR 201-3.2(a)	13	Exempt Activities - Proof of eligibility
FACILITY	6NYCRR 201-3.3(a)	14	Trivial Activities - proof of eligibility
FACILITY	6NYCRR 201-6	22, 32, 33	Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.5(a) (4)	15	General conditions
FACILITY	6NYCRR 201-6.5(a) (7)	2	General conditions
FACILITY	6NYCRR 201-6.5(a) (8)	16	Fees
FACILITY	6NYCRR 201-6.5(c)	3	General conditions Permit conditions for Recordkeeping and Reporting of



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002

Renewal Number: 2

10/07/2011

FACILITY	6NYCRR 201-6.5(c)(2)	4	Compliance Monitoring
			Permit conditions for
			Recordkeeping and
			Reporting of
FACILITY	6NYCRR 201-	5	Compliance Monitoring
	6.5(c)(3)(ii)		Permit conditions for
			Recordkeeping and
			Reporting of
FACILITY	6NYCRR 201-6.5(d)(5)	17	Compliance Monitoring
FACILITY	6NYCRR 201-6.5(e)	6	Compliance schedules
			Compliance
			Certification
FACILITY	6NYCRR 201-6.5(f)(6)	18	Off Permit Changes
FACILITY	6NYCRR 201-6.5(g)	23	Permit shield
FACILITY	6NYCRR 201-7	24, 34, 35	Federally Enforceable
			Emissions Caps
U-	6NYCRR 201-7	38	Federally Enforceable
00001/E0001/BNG/S0008			Emissions Caps
U-	6NYCRR 201-7	57	Federally Enforceable
00001/E0001/BOI/S0008			Emissions Caps
FACILITY	6NYCRR 202-1.1	19	Required emissions
			tests.
FACILITY	6NYCRR 202-2.1	7	Emission Statements -
			Applicability
FACILITY	6NYCRR 202-2.5	8	Emission Statements -
			record keeping
			requirements.
FACILITY	6NYCRR 211.1	25	General Prohibitions
			- air pollution
			prohibited
FACILITY	6NYCRR 211.2	78	General Prohibitions
			- visible emissions
			limited.
FACILITY	6NYCRR 215.2	9	Open Fires -
			Prohibitions
FACILITY	6NYCRR 225.1(a)(3)	27	Sulfur in Fuel
			Limitations (SIP)
FACILITY	6NYCRR 225-1.8	26	Reports, sampling and
			analysis.
U-00001/-/BOI	6NYCRR 227.2(b)(1)	36	Particulate
			emissions.
U-00001/E0001	6NYCRR 227-1.3(a)	37	Smoke Emission
			Limitations.
FACILITY	6NYCRR 227-	28	1994 NOx RACT
	2.4(c)(1)(i)		presumptive limit.
FACILITY	6NYCRR 227-	79	2010 NOx RACT
	2.4(c)(1)(ii)		presumptive limit.
FACILITY	6NYCRR 227-2.4(d)	80	Small boilers, small
			combustion turbines,
			and small stationary
			internal combustion
			engines.
FACILITY	6NYCRR 227-2.6(a)	81	Applicable testing
			and/or monitoring
			requirements.
FACILITY	6NYCRR 227-2.6(c)	29, 30	Stack Test
			Requirements.
FACILITY	6NYCRR 231-2	24	New Source Review in
			Nonattainment Areas
			and Ozone Transport
			Region
U-	6NYCRR 231-2	38	New Source Review in
00001/E0001/BNG/S0008			Nonattainment Areas
			and Ozone Transport

New York State Department of Environmental Conservation
Permit Review Report



Permit ID: 2-6103-00760/00002
Renewal Number: 2
10/07/2011

U-
00001/E0001/BOI/S0008

6NYCRR 231-2

57

Region
New Source Review in
Nonattainment Areas
and Ozone Transport
Region

Applicability Discussion:

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

ECL 19-0301

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

6 NYCRR 200.6

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

6 NYCRR 200.7

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

6 NYCRR 201-1.4

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

6 NYCRR 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 201-3.2 (a)

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

6 NYCRR 201-3.3 (a)

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

6 NYCRR Subpart 201-6

This regulation applies to those terms and conditions which are subject to Title V permitting. It



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002
Renewal Number: 2
10/07/2011

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

6 NYCRR 201-6.5 (a) (4)

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

6 NYCRR 201-6.5 (a) (7)

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

6 NYCRR 201-6.5 (a) (8)

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

6 NYCRR 201-6.5 (c)

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

6 NYCRR 201-6.5 (c) (2)

This requirement specifies that all compliance monitoring and recordkeeping is to be conducted according to the terms and conditions of the permit and follow all QA requirements found in applicable regulations. It also requires monitoring records and supporting information to be retained for at least 5 years from the time of sampling, measurement, report or application. Support information is defined as including all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

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

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

6 NYCRR 201-6.5 (d) (5)

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

6 NYCRR 201-6.5 (e)



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002
Renewal Number: 2
10/07/2011

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

6 NYCRR 201-6.5 (f) (6)

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

6 NYCRR 201-6.5 (g)

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

6 NYCRR 202-1.1

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

6 NYCRR 202-2.1

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

6 NYCRR 202-2.5

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

6 NYCRR 211.2

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

6 NYCRR 215.2

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

40 CFR Part 68

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

40 CFR Part 82, Subpart F

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



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002
Renewal Number: 2
10/07/2011

Facility Specific Requirements

In addition to Title V, MAIMONIDES MEDICAL CENTER has been determined to be subject to the following regulations:

40 CFR 60.4

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

40 CFR 60.40c

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

40 CFR 60.42c (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.

40 CFR 60.42c (h)

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

40 CFR 60.42c (i)

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

40 CFR 60.43c (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.

40 CFR 60.46c (d) (2)

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

40 CFR 60.46c (e)

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



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002

Renewal Number: 2

10/07/2011

CFR 60-Dc.46c

40 CFR 60.47c

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

40 CFR 60.48c (d)

This regulation requires the owner or operator of the facility subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.42c, to submit semi-annual reports to the EPA

40 CFR 60.48c (e) (1)

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

40 CFR 60.48c (e) (2)

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

40 CFR 60.48c (e) (3)

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

40 CFR 60.48c (e) (4)

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

40 CFR 60.48c (e) (7)

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

40 CFR 60.48c (g)

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

40 CFR 60.48c (i)

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

40 CFR Part 60, Subpart A



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002

Renewal Number: 2

10/07/2011

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

6 NYCRR 211.1

6 NYCRR 225.1 (a) (3)

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

6 NYCRR 225-1.8

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

6 NYCRR 227.2 (b) (1)

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

6 NYCRR 227-1.3 (a)

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

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

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

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

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



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002

Renewal Number: 2

10/07/2011

6 NYCRR 227-2.4 (d)

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

6 NYCRR 227-2.6 (a)

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

6 NYCRR 227-2.6 (c)

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

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

6 NYCRR Subpart 201-7

This regulation sets forth an emission cap that cannot be exceeded by the facility. In this permit that cap is for the fuel for the Nebraska boiler (Emission Source S0008), which is limited to 1.5 million gallons per year of # 6 fuel oil and 80 million cubic feet of natural gas. In the event of natural gas shortage, more fuel oil will be burned, and vice versa. However, NOx emissions from this boiler will not exceed 46.9 tons per year. Fuel records will be maintained.

6 NYCRR Subpart 231-2



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002
Renewal Number: 2
10/07/2011

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

Non Applicability Analysis

List of non-applicable rules and regulations:

Location Facility/EU/EP/Process/ES	Regulation	Short Description
U-00001/E0001/BOI/S0003	40 CFR 60.42c	Standard for Sulfur Dioxide
Reason: 40 CFR 60-Dc.42c, NSPS, which limits the sulfur content in the residual fuel oil to 0.50 percent by weight, is not applicable to Emission Source S0003 (the 50 MM Btu/hr Babcock & Wilcox boiler) or to this facility. This regulation is overruled by regulation 6 NYCRR 225.1(a)(3), which limits the sulfur content in the residual fuel oil (# 6 oil) to 0.30 percent by weight to facilities in the severe ozone non-attainment area such as New York City.		
Maimonides Medical Center must comply with the 0.30 percent by weight sulfur content limit as per 6 NYCRR 225.1(a)(3), which has more stringent limit for New York City than 40 CFR 60-Dc.42c, NSPS.		
U-00001/E0001/BOI/S0008	40 CFR 60.42c	Standard for Sulfur Dioxide
Reason: 40 CFR 60-Dc.42c, NSPS, which limits the sulfur content in the residual fuel oil to 0.50 percent by weight, is not applicable to Emission Source S0003 (the 32.6 MM Btu/hr Nebraska boiler) or to this facility. This regulation is overruled by regulation 6 NYCRR 225.1(a)(3), which limits the sulfur content in the residual fuel oil (# 6 oil) to 0.30 percent by weight to facilities in the severe ozone non-attainment area such as New York City.		
Maimonides Medical Center must comply with the 0.30 percent by weight sulfur content limit as per 6 NYCRR 225.1(a)(3), which has more stringent limit for New York City than 40 CFR 60-Dc.42c, NSPS.		
FACILITY	40 CFR Part 60, Subpart IIII	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
Reason: Since all 6 emergency generators at Maimonides Medical Center were installed prior to April 1, 2006, therefore; 40 CFR 60 Subpart		



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002

Renewal Number: 2

10/07/2011

IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines does not apply to any of the 6 emergency generators since this regulation's applicability date is April 1, 2006. All 6 engines are RICE - Reciprocating Internal Combustion Engines.

List of Emergency Generators at Maimonides Medical Center:

ID	KW	Manufacturer	Model
1	300	Onan	300 DET-4XRB
2	900	Cummins/Onan	900 DFHLQST3043
3	900	Cummins/Onan	900DFHCQST30G3
4	500	Consolidated Power Detroit	625DIT
5	500	Cummins	500 D FED KTA19-G4
6	800	Cummins	DFHB5563017

ID	Manufacture Date	Location
1	9/28/1973	Goldberg
2	9/14/2005	New Aron
3	11/19/2005	New Aron
4	1/1/1999	Gelman
5	10/27/2005	Gelman
6	6/12/2002	Garage/Warehouse

FACILITY	40 CFR Part 63, Subpart Reciprocating Internal ZZZZ Combustion Engine (RICE) NESHAP
----------	---

Reason: Since Maimonides Medical Center is a not a major source of HAPs, but a minor source of HAPs, and is an institutional (medical) facility operating 6 existing emergency generators that are stationary RICE - Reciprocating Internal Combustion Engines, therefore; 40 CFR 63 Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines with applicability date of June 15, 2004 does not apply to any of the 6 emergency generators at this facility. All 6 emergency generators were installed prior to June 12, 2006.



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002

Renewal Number: 2

10/07/2011

List of Emergency Generators at Maimonides Medical Center:

ID	KW	Manufacturer	Model
1	300	Onan	300 DET-4XRB
2	900	Cummins/Onan	900 DFHLQST3043
3	900	Cummins/Onan	900DFHCQST30G3
4	500	Consolidated Power Detroit	625DIT
5	500	Cummins	500 D FED KTA19-G4
6	800	Cummins	DFHB5563017

ID	Manufacture Date	Location
1	9/28/1973	Goldberg
2	9/14/2005	New Aron
3	11/19/2005	New Aron
4	1/1/1999	Gelman
5	10/27/2005	Gelman
6	6/12/2002	Garage/Warehouse

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

Compliance Certification

Summary of monitoring activities at MAIMONIDES MEDICAL CENTER:

Location Facility/EU/EP/Process/ES	Cond No.	Type of Monitoring
---------------------------------------	----------	--------------------

New York State Department of Environmental Conservation
Permit Review Report



Permit ID: 2-6103-00760/00002

Renewal Number: 2

10/07/2011

U-00001/E0001/BOI/S0003	41	record keeping/maintenance procedures
U-00001/E0001/BOI/S0008	60	record keeping/maintenance procedures
U-00001/E0001/BOI/S0003	42	work practice involving specific operations
U-00001/E0001/BOI/S0008	61	work practice involving specific operations
U-00001/E0001/BOI/S0003	45	monitoring of process or control device parameters as surrogate
U-00001/E0001/BOI/S0008	64	monitoring of process or control device parameters as surrogate
U-00001/E0001/BOI/S0003	46	monitoring of process or control device parameters as surrogate
U-00001/E0001/BOI/S0008	65	monitoring of process or control device parameters as surrogate
U-00001/E0001/BOI/S0003	48	monitoring of process or control device parameters as surrogate
U-00001/E0001/BOI/S0008	67	monitoring of process or control device parameters as surrogate
U-00001/E0001/BOI/S0003	49	record keeping/maintenance procedures
U-00001/E0001/BOI/S0008	68	record keeping/maintenance procedures
U-00001/E0001/BOI/S0003	50	record keeping/maintenance procedures
U-00001/E0001/BOI/S0008	69	record keeping/maintenance procedures
U-00001/E0001/BOI/S0003	51	record keeping/maintenance procedures
U-00001/E0001/BOI/S0008	70	record keeping/maintenance procedures
U-00001/E0001/BOI/S0003	52	record keeping/maintenance procedures
U-00001/E0001/BOI/S0008	71	record keeping/maintenance procedures
U-00001/E0001/BOI/S0003	53	record keeping/maintenance procedures
U-00001/E0001/BOI/S0008	72	record keeping/maintenance procedures
U-00001/E0001/BOI/S0003	54	record keeping/maintenance procedures
U-00001/E0001/BOI/S0008	73	record keeping/maintenance procedures
U-00001/E0001/BOI/S0003	55	record keeping/maintenance procedures
U-00001/E0001/BOI/S0008	74	record keeping/maintenance procedures
U-00001/E0001/BOI/S0003	56	record keeping/maintenance procedures
U-00001/E0001/BOI/S0008	75	record keeping/maintenance procedures
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
FACILITY	24	monitoring of process or control device parameters as surrogate
U-00001/E0001/BNG/S0008	38	monitoring of process or control device parameters as surrogate
U-00001/E0001/BOI/S0008	57	monitoring of process or control device parameters as surrogate
FACILITY	7	record keeping/maintenance procedures
FACILITY	27	work practice involving specific operations
FACILITY	26	record keeping/maintenance procedures
U-00001/-/BOI	36	intermittent emission testing
U-00001/E0001	37	monitoring of process or control device parameters as surrogate
FACILITY	28	intermittent emission testing
FACILITY	79	intermittent emission testing
FACILITY	80	record keeping/maintenance procedures
FACILITY	81	record keeping/maintenance procedures
FACILITY	29	intermittent emission testing
FACILITY	30	intermittent emission testing

Basis for Monitoring

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

New York State Department of Environmental Conservation
Permit Review Report



Permit ID: 2-6103-00760/00002
Renewal Number: 2
10/07/2011

Condition # 5 for 6NYCRR Part 201-6.5(c)(3)(ii): This is a facility-wide condition. 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 6NYCRR Part 201-6.5(e): This is a facility-wide condition. This condition specifies the overall permit requirements for compliance certification, including emission limitations, standards or work practices.

Condition # 7 for 6NYCRR Part 202-2.1: This is a facility-wide condition. 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 # 24 for 6 NYCRR 201-7, Capping Out of 6 NYCRR 231-2: This condition is an emission unit level and emission point level condition for Monitoring of Process or Control Device Parameters as Surrogate for Oxides of Nitrogen that applies to EU: U-00001, EP: E0001.

Fuel for the Nebraska boiler (Emission Source S0008) is limited to 1.5 million gallons per year of # 6 fuel oil and 80 million cubic feet of natural gas. In the event of natural gas shortage, more fuel oil will be burned, and vice versa. However, NOx emissions from this boiler will not exceed 46.9 tons per year.

Condition # 26 for 6NYCRR 225-1.8: This is a facility-wide condition. 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 # 27 for 6 NYCRR 225.1(a)(3): This is a facility-wide condition. 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. This condition prohibits any person from selling, offering for sale, purchasing or using any fuel which contains sulfur in a quantity exceeding the limitations of 0.30 % by weight for distillate fuel (# 6 fuel oil). The sulfur content must be determined by the seller. The facility must maintain a log of the sulfur content of oils on a per delivery basis. This citation has been replaced by



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002

Renewal Number: 2

10/07/2011

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 # 28 for 6 NYCRR 227-2.4 (c) (1)(i): This condition is an emission unit level, emission point level, process level and emission source/control level condition that applies to Emission Unit: U-00001, Emission Point: 00001, Processes BNG & BOI, and Emission Sources/Controls: S0002, S0003 & S0008 for Intermittent Emission Testing for Oxides of Nitrogen.

The facility is required to perform testing the three mid-size boilers (Emission Sources S0002, S0003 & S0008 - the 25.2 MM Btu/hr Orr-Steamhower, the 50 MM Btu Babcock & Wilcox/FM10-52 and the 32.6 MM Btu/hr Nebraska – NS-8-46 boilers; respectively) to verify the NO_x emission limit compliance. A mid-size boiler is a boiler with a maximum heat input capacity greater than 25 million Btu per hour and equal to or less than 100 million Btu per hour. All three boilers operate on #6 fuel oil (Process BOI) and on natural gas (Process BNG).

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

Condition # 29 for 6 NYCRR 227-2.6 (c): This condition is an emission unit level, emission point level, process level and emission source/control level condition that applies to Emission Unit: U-00001, Emission Point: 00001, Processes BNG & BOI, and Emission Sources/Controls: S0002, S0003 & S0008 for Intermittent Emission Testing for Oxides of Nitrogen.

The NO_x upper limit is 0.20 pounds per million Btus on or after July 1, 2014 for the three mid-size boilers (Emission Sources S0002, S0003 & S0008 - the 25.2 MM Btu/hr Orr-Steamhower, the 50 MM Btu Babcock & Wilcox/FM10-52 and the 32.6 MM Btu/hr Nebraska – NS-8-46 boilers (Emission Sources S0002, S0003 & S0008; respectively).

This condition is a SIP condition. This citation is for stack test requirements. The owner or operator of the facility is required to test for NO_x emission and 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 30 days prior to emission testing. The condition of the testing and the locations of the sampling devices must be acceptable to the department; and



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002
Renewal Number: 2
10/07/2011

(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.

On or after July 1, 2014, the owner/operator of mid-size boilers (> 25 and equal to or <100 MM Btu/hr) boilers operating on residual oil/natural gas have a limit of 0.20 pounds of NOx per million Btus under the NOx RACT plan for mid-size boilers.

Condition # 30 for 6 NYCRR 227-2.6 (c): This condition is an emission unit level, emission point level, process level and emission source/control level condition that applies to Emission Unit: U-00001, Emission Point: 00001, Processes BOI & BNG, and Emission Sources/Control: S0003 for Intermittent Emission Testing for Oxides of Nitrogen. The NOx upper limit is 0.30 pounds per million Btus prior to July 1, 2014 for the mid-size boiler (Emission Source S0003) - the 50 MM Btu Babcock & Wilcox/FM10-52 is 0.30 pounds per million Btus.

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

(1) Submit a compliance test protocol to the department for approval at least 30 days prior to emission testing. The condition of the testing and the locations of the sampling devices must be acceptable to the department; and

(2) Utilize procedures set forth in 40 CFR Part 60, Appendix A or any other method acceptable to the department and EPA for determining compliance with the appropriate NOx limit in section 227-2.4 of this Subpart, and shall follow the procedures set forth in Part 202 of this Title.

(i) For large and mid-size boilers, utilize Method 7, 7E, or 19 from 40 CFR Part 60, Appendix A or another reference method approved by the department.

Maimonides Medical Center is required to perform testing on the 50 MM Btu Babcock & Wilcox/FM10-52 (mid-size boiler). This boiler operates on residual oil (Process BOI) and on natural gas (Process BNG).



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002

Renewal Number: 2

10/07/2011

Condition # 36 for 6 NYCRR 227.2(b)(1): This condition is an emission unit level and process level Intermittent Emission Testing condition for Particulates that applies to EU: U-00001 and Proc: BO1. This condition 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 any oil fired stationary combustion installation.

Condition # 37 for 6 NYCRR 227-1.3(a): This condition is an emission unit level and emission point level Monitoring of Process or Control Device Parameters as Surrogate condition for Particulates and opacity that applies to EU: U-00001 and EP: E0001. 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. These conditions require a daily inspection for visible emissions. If visible emissions are noted for two consecutive days, a Method 9 test must be performed.

Condition # 38 for 6 NYCRR 201-7, Capping Out of 6 NYCRR 231-2: This condition is an emission unit level, emission point level, process level and emission source level condition for Monitoring of Process or Control Device Parameters as Surrogate for Oxides of Nitrogen that applies to EU: U-00001, EP: E0001, Proc: BNG, and emission source S0008.

Fuel for the Nebraska boiler (Emission Source S0008) is limited to 1.5 million gallons per year of # 6 fuel oil and 80 million cubic feet of natural gas. In the event of natural gas shortage, more fuel oil will be burned, and vice versa. However, NOx emissions from this boiler will not exceed 46.9 tons per year.

Condition # 41 for 40 CFR 60.40c, NSPS Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level Record Keeping/Maintenance Procedures condition for Sulfur Dioxide that applies to EU: U-00001, EP: E0001, Proc: BOI and ES: S0003. This condition requires the source (50 MM Btu/hr Babcock & Wilcox boiler) 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 # 42 for 40 CFR 60.42c(d), NSPS Subpart Dc: This condition is an emission unit level, process level and emission source level Work Practice Involving Specific Operations condition for Sulfur Dioxide that applies to EU: U-00001, Proc: BO1 and ES: S0003. 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



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002
Renewal Number: 2
10/07/2011

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.

Condition # 45 for 40 CFR 60.43c(c), NSPS Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level monitoring condition for Monitoring of Process or Control Device Parameters as Surrogate for Particulates that applies to EU: U-00001, EP: E0001, Proc: BOI and ES: S0003. 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 # 46 for 40 CFR 60.46c(d)(2), NSPS Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level condition for Monitoring of Process or Control Device Parameters as Surrogate for Sulfur Dioxide that applies to EU: U-00001, EP: E0001, Proc: BOI and ES: S0003. This condition allows the owner or operator of an affected facility to determine the average sulfur dioxide emission rate by sampling the fuel prior to its combustion and calculating the emissions instead of installing and operating a continuous emissions monitor at the inlet of the control device.

Condition # 48 for 40 CFR 60.47c, NSPS Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level condition for Monitoring of Process or Control Device Parameters as Surrogate for Particulates for Opacity that applies to EU: U-00001, EP: E0001, Proc: BOI and ES: S0003.

This condition requires that all continuous emissions monitors measuring opacity to be operated in accordance with Appendix B of this part 40 CFR 60. Emission Source S0003 (50 MM Btu/hr Babcock & Wilcox boiler) is required to comply with the 20% continuous opacity limit.

Condition # 49 for 40 CFR 60.48c(d), NSPS Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level condition for Record Keeping/Maintenance Procedures for Sulfur Dioxide that applies to EU: U-00001, EP: E0001, Proc: BOI and ES: S0003.

This condition requires the owner or operator of the facility subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.42c, to submit semi-annual reports to the EPA.



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002
Renewal Number: 2
10/07/2011

Condition # 50 for 40 CFR 60.48c(e)(1), NSPS, Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level Recordkeeping/Maintenance Procedures condition for Sulfur Dioxide that applies to EU: U-00001, EP: E0001, Proc: BOI and ES: S0003.

This condition is for the reporting and record keeping provisions for facilities subject to a sulfur-in-fuel standard, sulfur dioxide emission limit, or percent reduction of sulfur dioxide emissions .

Condition # 51 for 40 CFR 60.48c(e)(2), NSPS, Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level Record Keeping/Maintenance Procedures condition for Sulfur Dioxide that applies to EU: U-00001, EP: E0001, Proc: BOI and ES: S0003.

This condition is for the reporting and record keeping provisions for facilities subject to a sulfur-in-fuel standard, sulfur dioxide emission limit, or percent reduction of sulfur dioxide emissions.

Condition # 52 for 40 CFR 60.48c(e)(3), NSPS, Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level Record Keeping/Maintenance Procedures condition for Sulfur Dioxide that applies to EU: U-00001, EP: E0001, Proc: BOI and ES: S0003.

This condition is for the reporting and record keeping provisions for facilities subject to a sulfur-in-fuel standard, sulfur dioxide emission limit, or percent reduction of sulfur dioxide emissions.

Condition # 53 for 40 CFR 60.48c(e)(4), NSPS, Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level Record Keeping/Maintenance Procedures condition for Sulfur Dioxide that applies to EU: U-00001, EP: E0001, Proc: BOI and ES: S0003.

This condition is for the reporting and record keeping provisions for facilities subject to a sulfur-in-fuel standard, sulfur dioxide emission limit, or percent reduction of sulfur dioxide emissions.

Condition # 54 for 40 CFR 60.48c(e)(7), NSPS, Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level Record Keeping/Maintenance Procedures condition for Sulfur Dioxide that applies to EU: U-00001, EP: E0001, Proc: BOI and ES: S0003.



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002

Renewal Number: 2

10/07/2011

This condition is for the reporting and record keeping provisions for facilities subject to a sulfur-in-fuel standard, sulfur dioxide emission limit, or percent reduction of sulfur dioxide emissions.

Condition # 55 for 40 CFR 60.48c(g), NSPS Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level Record Keeping/Maintenance Procedures condition for Sulfur Dioxide that applies to EU: U-00001, EP: E0001, Proc: BOI and ES: S0003.

This condition requires the owner or operator of each affected facility to record and maintain records of the amount of each fuel combusted during each day.

Condition # 56 for 40 CFR 60.48c(i), NSPS Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level Record Keeping/Maintenance Procedures condition for Sulfur Dioxide that applies to EU: U-00001, EP: E0001, Proc: BOI and ES: S0003.

This condition requires the source (the 50 MM Btu/hr Babcock & Wilcox boiler) owner or operator to retain all records for a minimum of two years.

Condition # 57 for 6 NYCRR 201-7, Capping Out of 6 NYCRR 231-2: This condition is an emission unit level, emission point level, process level and emission source level condition for Monitoring of Process or Control Device Parameters as Surrogate for Oxides of Nitrogen that applies to EU: U-00001, EP: E0001, Proc: BOI, and emission source S0008.

Fuel for the 32.6 MM Btu/hr Nebraska boiler (Emission Source S0008) is limited to 1.5 million gallons per year of # 6 fuel oil and 80 million cubic feet of natural gas. In the event of natural gas shortage, more fuel oil will be burned, and vice versa. However, NOx emissions from this boiler will not exceed 46.9 tons per year.

Condition # 60 for 40 CFR 60.40c, NSPS Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level Record Keeping/Maintenance Procedures condition for Sulfur Dioxide that applies to EU: U-00001, EP: E0001, Proc: BOI and ES: S0008. This condition requires the source (the 32.6 MM Btu/hr Nebraska boiler) 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 # 61 for 40 CFR 60.42c(d), NSPS Subpart Dc: This condition is an emission unit level, process level and emission source level Work Practice Involving

New York State Department of Environmental Conservation
Permit Review Report



Permit ID: 2-6103-00760/00002
Renewal Number: 2
10/07/2011

Specific Operations condition for Sulfur Dioxide that applies to EU: U-00001, Proc: BOI and ES: S0008. 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 0.5 percent by weight.

Condition # 64 for 40 CFR 60.43c(c), NSPS Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level monitoring condition for Monitoring of Process or Control Device Parameters as Surrogate for Particulates that applies to EU: U-00001, EP: E0001, Proc: BOI and ES: S0008. 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 # 65 for 40 CFR 60.46c(d)(2), NSPS Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level condition for Monitoring of Process or Control Device Parameters as Surrogate for Sulfur Dioxide that applies to EU: U-00001, EP: E0001, Proc: BOI and ES: S0008. This condition allows the owner or operator of an affected facility to determine the average sulfur dioxide emission rate by sampling the fuel prior to its combustion and calculating the emissions instead of installing and operating a continuous emissions monitor at the inlet of the control device.

Condition # 67 for 40 CFR 60.47c, NSPS Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level condition for Monitoring of Process or Control Device Parameters as Surrogate for Particulates for Opacity that applies to EU: U-00001, EP: E0001, Proc: BOI and ES: S0008.

This condition requires that all continuous emissions monitors measuring opacity to be operated in accordance with Appendix B of this part 40 CFR 60. Emission Source S0003 (50 MM Btu/hr Babcock & Wilcox boiler) is required to comply with the 20% continuous opacity limit.

Condition # 68 for 40 CFR 60.48c(d), NSPS Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level condition for Record Keeping/Maintenance Procedures for Sulfur Dioxide that applies to EU: U-00001, EP: E0001, Proc: BOI and ES: S0008.



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002
Renewal Number: 2
10/07/2011

This condition requires the owner or operator of the facility subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.42c, to submit semi-annual reports to the EPA.

Condition # 69 for 40 CFR 60.48c(e)(1), NSPS, Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level Record Keeping/Maintenance Procedures condition for Sulfur Dioxide that applies to EU: U-00001, EP: E0001, Proc: BOI and ES: S0008.

This condition is for the reporting and record keeping provisions for facilities subject to a sulfur-in-fuel standard, sulfur dioxide emission limit, or percent reduction of sulfur dioxide emissions.

Condition # 70 for 40 CFR 60.48c(e)(2), NSPS, Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level Record Keeping/Maintenance Procedures condition for Sulfur Dioxide that applies to EU: U-00001, EP: E0001, Proc: BOI and ES: S0008.

This condition is for the reporting and record keeping provisions for facilities subject to a sulfur-in-fuel standard, sulfur dioxide emission limit, or percent reduction of sulfur dioxide emissions.

Condition # 71 for 40 CFR 60.48c(e)(3), NSPS, Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level Record Keeping/Maintenance Procedures condition for Sulfur Dioxide that applies to EU: U-00001, EP: E0001, Proc: BOI and ES: S0008.

This condition is for the reporting and record keeping provisions for facilities subject to a sulfur-in-fuel standard, sulfur dioxide emission limit, or percent reduction of sulfur dioxide emissions.

Condition # 72 for 40 CFR 60.48c(e)(4), NSPS, Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level Record Keeping/Maintenance Procedures condition for Sulfur Dioxide that applies to EU: U-00001, EP: E0001, Proc: BOI and ES: S0008.

This condition is for the reporting and record keeping provisions for facilities subject to a sulfur-in-fuel standard, sulfur dioxide emission limit, or percent reduction of sulfur dioxide emissions.

Condition # 73 for 40 CFR 60.48c(e)(7), NSPS, Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002

Renewal Number: 2

10/07/2011

Record Keeping/Maintenance Procedures condition for Sulfur Dioxide that applies to EU: U-00001, EP: E0001, Proc: BOI and ES: S0008.

This condition is for the reporting and record keeping provisions for facilities subject to a sulfur-in-fuel standard, sulfur dioxide emission limit, or percent reduction of sulfur dioxide emissions.

Condition # 74 for 40 CFR 60.48c(g), NSPS Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level Record Keeping/Maintenance Procedures condition for Sulfur Dioxide that applies to EU: U-00001, EP: E0001, Proc: BOI and ES: S0008.

This condition requires the owner or operator of each affected facility to record and maintain records of the amount of each fuel combusted during each day.

Condition # 75 for 40 CFR 60.48c(i), NSPS Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level Record Keeping/Maintenance Procedures condition for Sulfur Dioxide that applies to EU: U-00001, EP: E0001, Proc: BOI and ES: S0008.

This condition requires the source (the 32.6 MM Btu/hr Nebraska boiler) owner or operator to retain all records for a minimum of two years.

Condition # 79 for 6 NYCRR 227-2.4 (c) (1) (ii): This condition is an emission unit level, emission point level, process level and emission source/control level condition that applies to Emission Unit: U-00001, Emission Point: 00001, Processes BNG & BOI, and Emission Sources/Controls: S0002, S0003 & S0008 for Intermittent Emission Testing for Oxides of Nitrogen.

The facility is required to perform testing the three mid-size boilers (Emission Sources S0002, S0003 & S0008 - the 25.2 MM Btu/hr Orr-Steamboiler, the 50 MM Btu Babcock & Wilcox/FM10-52 and the 32.6 MM Btu/hr Nebraska – NS-8-46 boilers; respectively) to verify the NO_x emission limit compliance. A mid-size boiler is a boiler with a maximum heat input capacity greater than 25 million Btu per hour and equal to or less than 100 million Btu per hour. All three boilers operate on #6 fuel oil (Process BOI) and on natural gas (Process BNG).

On or after July 1, 2014, the owner/operator of mid-size boilers (> 25 and equal to or <100 MM Btu/hr) boilers operating on residual oil/natural gas have a limit of 0.20 pounds of NO_x per million Btus under the NO_x RACT plan for mid-size boilers.



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002

Renewal Number: 2

10/07/2011

Condition # 80 for 6 NYCRR 227-2.4(d): This condition is an emission unit level Record Keeping/Maintenance Procedures condition for oxides of nitrogen that applies to EU: U-00001. This condition is for the NO_x RACT condition for small boilers (those with a heat input less than or equal to 50 mm Btu/hr) and applies to the boilers with Emission Sources S0002, S0003 & S0008 in EU: U-00001, which are the 25.2 MM Btu/hr Orr Seambow (Emission Source S0002), the 50 MM Btu/hr Babcock & Wilcox (Emission Source S0003), and the new 32.6 MM Btu/hr Nebraska (Emission Source S0008). 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.

A boiler tune-up shall be performed annually to the 25.2 MM Btu/hr Orr Seambow, the 50 MM Btu/hr Babcock & Wilcox, and the new 32.6 MM Btu/hr Nebraska boilers defined in Emission Unit U-00001 as Emission Sources S0002, S0003 and S0008, respectively. 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 #81 for 6 NYCRR 227-2.6 (a): This condition is an emission unit level, emission point level, process level and emission source/control level condition that applies to Emission Unit: U-00001, Emission Point: 00001, Processes BNG & BOI, and Emission Sources/Controls: S0002, S0003 & S0008 for Record Keeping/Maintenance Procedures for Oxides of Nitrogen. Applicable testing and/or monitoring requirements for emission sources subject to NO_x RACT.

A mid-size boiler is defined as: A boiler with a maximum heat input capacity greater than 25 million Btu per hour and equal to or less than 100 million Btu per hour. This condition applies to the 25.2 MM Btu/hr Orr-Seambower boiler, the 50 MM Btu/hr Babcock & Wilcox boiler, and the 32.6 MM Btu/hr Nebraska boiler, defined in Emission Unit U-00001 as Emission Sources S0002, S0003 & S0008. For mid-size boilers, the NO_x RACT for boilers operating on residual oil/natural gas is a limit of 0.30 pounds per million Btu per hour prior to July 1, 2014 and a limit of 0.20 pounds per million Btu per hour on or after July 1, 2014.



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 2-6103-00760/00002

Renewal Number: 2

10/07/2011