



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 2-6002-00105/00002
Effective Date: 08/01/2016 Expiration Date: 07/31/2021

Permit Issued To: MONTEFIORE MEDICAL CENTER
111 EAST 210TH ST
BRONX, NY 10467-2401

Contact: EDWARD PFLEGING
MONTEFIORE MEDICAL CENTER
111 EAST 210TH ST
BRONX, NY 10467-2401
(718) 920-8832

Facility: MONTEFIORE MEDICAL CTR-111 E 210TH ST
111 E 210TH ST
BRONX, NY 10467-2401

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Description:

PERMIT DESCRIPTION
Montefiore Medical Center
DEC ID # 2-6002-00105/00002 (Ren 3)

Montefiore Medical Center (MMC) is a Title V facility, operating two (2) mid-size boilers (Emission Sources S0004 and S0005), three (3) Coltec IC Engines (Emission Sources S0001, S0002 and S0003), one (1) combustion turbine (Emission Source ES006, one (1) duct burner (Emission Control ES007), four (4) Ethylene Oxide sterilizers (Emission Sources ST007, ST008, ST010 and ST011) with two (2) abatators (Emission Control ST009 and ST012), ten (10) emergency generators, thirty-six (36) fuel oil storage tanks and fifteen (15) fume hoods. This application is submitted to renew the Title V permit that expires on 8/1/2016.

Montefiore Medical Center (MMC) currently operates three internal combustion engines and two boilers in Emission Unit U-00001. The three internal combustion engines are defined as Emission Sources S0001, S0002 & S0003, are 13.5 MM Btu/hr COLTEC, 13.5 MM Btu/hr COLTEC and 20.2 MM Btu/hr COLTEC engines, respectively. They were installed in 1992 and began operating in 1994. The two boilers are defined as Emission Sources S0004 & S0005, are 98 MM Btu/hr Babcock & Wilcox and 68.4 MM Btu/hr Cleaver Brooks boilers, respectively. The Babcock & Wilcox boiler (Emission Source



S0004) is being downgraded from 113 MM Btu/hr to 98 MM Btu/hr. Ever since its installation, this emission source was never operated at that capacity. The facility also operates an ethylene oxide sterilization system that consists of two 24 cubic feet ethylene oxide sterilizers, two 4.8 cubic feet sterilizers and two abators in Emission Unit U-00002. In addition, the facility operates one 4.83 megawatt (6,357 hp) combustion turbine-generator (Emission Source ES006), one HRSG with 35 MM Btu/hr duct burner (Emission Source ES007) and one GOALLINE/SCNOX air pollution control unit (Emission Control ES008) in Emission Unit U-C0003. The facility operates exempt emergency generators to the cogeneration power plant.

The MMC Cogeneration Power Plant has been designed to provide a safe, reliable, and efficient means of generating electricity. The plant is also designed to minimize environmental impacts by utilization of the best available technologies and clean burning fuels.

The 4.83 megawatt (MW) power plant (Emission Source ES006) addition will be capable of burning both natural gas (Process P03), which will be the primary fuel, and distillate fuel oil (Process P04), which will be the backup fuel for use during periods when the gas supply may be interrupted. The plant will be based on a low-NO_x combustion turbine-generator.

Heat from the combustion turbine exhaust will be recovered in one (1) Heat Recovery Steam Generator (HRSG). This steam will be used for the heating and cooling requirements of the MMC. Additional steam will be made in the HRSG, as necessary, by firing a supplemental burner, which has a maximum rated heat input of 35 MM BTU/hr (Higher heating value, HHV) which is equipped for gas operation only (Process P06).

The plant will have a potential average yearly electric output of 41.4 million kwh (gross). This potential output assumes 24 hours/day, 365 days/year plant operation (with a 96% availability factor), with varying rates of supplemental firing in the HRSG as needed.

Montefiore Medical Center consists of three emission units, Emission Unit U-00001, Emission Unit U-00002, and Emission Unit U-00003. Their description is as follows:

Emission Unit U-00001 consists of three internal combustion engines (Emission sources S0001, S0002 & S0003) and two boilers (Emission sources S0004 & S0005) with a total potential heat input of 213.6 MM Btu/hr. All of these emission sources operate on dual fuel operation (natural gas and number 2 fuel oil), except Emission Source S0005 (the 68.4 MM Btu/hr Cleaver Brooks boiler), which operates on #2 fuel oil only. Emission Point E0001, Processes B01, B02 & BNG, and Emission Source/Control S0001, S0002, S0003, S0004 & S0005 are associated with Emission Unit U-00001. Emission Point E0001, Processes B01, B02 & BNG, and Emission Sources/Controls S0001, S0002, S0003, S0004 & S0005 are associated with Emission Unit U-00001.

The Coltec IC engine (Emission Source S0002) and the Coltec IC engine (Emission Source S0003) are operating with an approved NO_x RACT Variance of 2.8 gm/bhp-hr and 2.7 gm/bhp-hr NO_x emission limit; respectively based on NO_x RACT economic analysis. All three Coltec IC engines operate on natural gas (Process BNG) and # 2 distillate fuel oil (Process B01).



The 68.4 MM Btu/hr Cleaver Brooks boiler (Emission Source S0005) is operating with an approved NOx RACT Variance of 0.12 lbs/MM Btu rather than the post July 1, 2014 NOx RACT limit of 0.08 lbs/MM Btu, based on NOx RACT economic analysis. This boiler operates only on #2 distillate fuel oil (Process B02).

The upgrade of the burner on both the 98 MM Btu/hr Babcock Wilcox FM 106 and the 68.4 MM Btu/hr Cleaver-Brooks DL-76-RH boilers (Emission Sources S0004 & S0005; respectively) was approved so as to meet the new NOx RACT emission of 0.08 lbs/MM Btu beginning July 1, 2014. Emission Source S0004 (Babcock Wilcox FM 106 boiler) operates on #2 distillate fuel only (Process B02), and Emission Source S0005 (Cleaver-Brooks DL-76-RH boiler) operates on natural gas (Process BNG) and #2 distillate fuel oil (Process B01). However; the 68.4 MM Btu/hr Cleaver-Brooks boiler was sought a NOx RACT Variance to meet the 0.12 lbs/MMBtu NOx emission limit.

All 3 Coltec Internal Combustion engines (Emission Sources S0001, S0002 & S0003) are 2 stroke lean burner compression ignition non-emergency engines > 500 hp located at an area source for HAPs. The emissions from the 3 Coltec engines are controlled by an oxidation catalyst. These engines are subject to work practices listed in Table 2d of Subpart ZZZZ of the MACT. Emissions exhaust through a stack identified as Emission Point E0001.

Emission Unit U-00002 consists of the ethylene oxide sterilizer system as:

Emission Source ST007 - Steris- AMSCO Eagle-3048 sterilizer - existing 24 cubic feet
Emission Source ST008 - Steris-AMSCO Eagle-3048 sterilizer - existing 24 cubic feet
Emission Control ST009 - AMSCO EtO abator (Donaldson abator) - existing
Emission Source ST010 - Steris- AMSCO Eagle-3017 sterilizer - new 4.8 cubic feet
Emission Source ST011 - Steris- AMSCO Eagle-3017 sterilizer - new 4.8 cubic feet
Emission Control ST012 - AMSCO 50 CFM EtO abator - new

Emission Control ST009 is the existing abator for existing ethylene oxide sterilizers (Emission Sources ST007 & ST008), and Emission Control ST012 is the new abator for new ethylene oxide sterilizers (Emission Sources ST010 & ST011). Emission Point E0002, Process ETO, and Emission Source/Control ST007, ST008, ST009, ST010, ST011, and ST012 are associated with Emission Unit U-00002.

Emission Unit U-C0003 consists of combustion turbine-generator (Emission Source ES006), capable of oil-only (Process P04) or gas-only (Process P03) operation, downstream of which is a HRSG containing a duct burner (Emission Source ES007), capable of gas-only (Process P06) operation. Emission Unit U-C0003 consists of Emission Point EP003, Processes P03, P04 & P06, and Emission Source/Control ES006, ES007 & ES008. The emission control for the combustion turbine-generator and the duct burner is the GOALLINE/SCONOX, which is identified as Emission Control ES008. Emission Point EP003, Processes P03, P04 & P06, and Emission Source/Control ES006, ES007 & ES008 are associated with Emission Unit U-C0003.

The Title V permit contains a complete listing of the applicable federal, state and compliance monitoring requirements for the facility, its emission units, its emission points, and its processes. Montefiore Medical Center is subject to the provisions of Title V



specified under 6 NYCRR 201-6 in addition to the following regulations and conditions:

1. The facility is subject to the provisions of Title V for sulfur dioxide and is subject to 6 NYCRR 225-1, fuel composition and use - sulfur limitations, which restricts the sulfur content of distillate fuel oil utilized in the three Internal Combustion Engines (Emission Sources S0001, S0002 & S0003) and the two mid-size boilers (Emission Sources S0004 & S0005) in Emission Unit U-00001 to 0.0015% by weight or less as per 6 NYCRR 225-1.2, which has more stringent limit for New York City than 40 CFR 60-Dc.42c(h), NSPS.

2. In order to cap out of New Source Review, 6 NYCRR 231-2, the facility is limiting the following:

a. The natural gas usage for the gas turbine and duct burner combination shall not exceed 714 million cubic feet of gas per year, based upon an annual 12- month rolling average as per 6 NYCRR 201-7.2 cap. The facility shall monitor this limitation by installing and maintaining a non-resetable gas flow meter on the turbine/duct burner gas supply line. The facility shall maintain a bound log of the monthly fuel records (from the meter) for a minimum of five years.

b. The distillate oil usage for the gas turbine shall not exceed 520,000 gallons per year, based upon an annual 12- month rolling average as per 6 NYCRR 201-7.2 cap. The facility shall monitor this limit by installing and maintaining a non-resetable fuel flow meter on the oil line to the gas turbine. The facility shall maintain a bound log of the monthly fuel records (from the meter) for a minimum of five years.

3. For the GOALLINE/SCONOX (Emission Control ES008) for the turbine (Emission Source ES006) and its duct burner (Emission Source ES007) in U-C0003, the facility shall perform a semi-annual inspection and stack test (acceptable to the Commissioner, in lieu of Continuous Emission Testing) to prove the 90% control efficiency of the NOx control equipment when operating on natural gas, and the 80 % control efficiency of the NOx control when operating on distillate oil as per 6 NYCRR 227-2.6(a)(2). The equipment has been installed, is being maintained, and operating at this facility. The protocol for this inspection and testing requirement is due 60 days prior to the initial performance testing. Once an acceptable protocol has been submitted, it shall be incorporated into this permit.

As recommended by the GOALLINE SCONOx manufacturer, the catalytic reduction (Emission Control ES008 for Emission Sources ES006 & ES007), Montefiore Medical Center will use a fuel oil containing a maximum of 0.0015 % by weight sulfur, it is designated as Ultra Low Sulfur Diesel (ULSD). This is the fuel that has been developed to meet the EPA Heavy Duty Highway Engines and Vehicles Standards due to take effect with the 2007 model year.

4. In accordance with the requirements set forth in 40 CFR 60.334 and 60.335 for the turbines, Montefiore Medical Center will be required to analyze its distillate fuel for sulfur content on a per delivery basis. Montefiore Medical Center is limiting the distillate oil sulfur content to 0.0015 percent by weight. Montefiore Medical Center will submit fuel oil sulfur contents per each delivery on a quarterly basis. Or Montefiore Medical Center can come up with an alternative schedule (less frequent) monitoring that will need USEPA's approval. And once the alternative monitoring plan is approved by USEPA, it will be



attached to the permit.

The facility will use commercially available distillate fuel oil (very low sulfur, 0.0015 percent by weight). The permit limits for the sulfur content of the oil are much less than the current legal limits for sale of this product in the New York City area. The oil supplier will provide the required distillate oil analysis per each delivery.

5. Emission Point EP003 in Emission Unit U-C0003 is subject to the particulate and smoke emission, and corrective action requirements of 6 NYCRR 227-1, stationary combustion installations for the smoke emission for the 20% COMS opacity limit as per 6 NYCRR 227-1.3.

6. The three COLTEC stationary internal combustion engines (Emission Sources S0001, S0002 & S0003) in Emission Unit U-00001, are 13.5 MM Btu/hr, 13.5 MM Btu/hr and 20.2 MM Btu/hr each respectively. These three engines fire both natural gas (Process BNG) and # 2 fuel oil (Process B01/B02), are lean burn internal combustion engines with compression ignition source.

These three Internal Combustion Engines are subject to the stack testing requirements of 6 NYCRR 227-2.6 (b) & (c) and to the NO_x emission limit of 2.3 grams per brake-horsepower for Emission Point E0001 as per 6 NYCRR 227-2.4(f)(2)(ii) 7 The facility is required to conduct stack test for the Particulate emission limit of 0.10 pounds per million Btus for stationary combustion units firing oil, for the three COLTEC stationary Internal Combustion Engines (Emission Sources S0001, S0002 & S0003) and the two mid-size boilers in Emission Unit U-00001 (Emission Sources S00004 & S00005) and Processes B01 & B02, in accordance with the permit condition for 6 NYCRR 227.2(b)(1). These five combustion sources are subject to the SIP particulate emission requirements under 6 NYCRR 227.2(b)(1) for the # 2 fuel oil process.

8. Emission Source S0004 (the 98 Million Btu/hr Babcock Wilcox boiler) in Emission Unit U-00001 is subject to Part 60 - Standards of Performance for New Stationary Sources Subpart A - General Provisions for notification and recordkeeping, compliance with standards and maintenance requirements, availability of information, circumvention, monitoring requirements, modification, and reconstruction. Emission Source S0004 in Emission Unit U-00001 is also subject to Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units for 40 CFR 60-Dc.40c - Steam generators 10-100 million Btu per hour, for 40 CFR 60-Dc.42c, Dc.43c (c), Dc.44c (h), Dc.46c(d)(2), Dc.43c (c), Dc.47c, and 40 CFR 60-Dc.48c(a) in terms of the monitoring, reporting and record keeping requirements for the sulfur dioxide emission monitoring, particulates emission monitoring and standard for COMS opacity. requirements.

9. Emission Point E0001 in Emission Unit U-00001 is subject to the particulate and smoke emission, and corrective action requirements of 6 NYCRR 227-1, stationary combustion installations for the smoke emission for the 20% COMS opacity limit as per 6 NYCRR 227-1.3(a).

10. The two mid-size boilers (Emission Sources S0004 & S0005) in U-00001 are subject to 227-2.4 (c) for stack testing with a NO_x limit of 0.08 & 0.12 pounds per million Btus; respectively as per 227-2.6(a)(4). The facility can opt to CEMS as per 6 NYCRR 227-2.6(b) in lieu of the stack testing.



11. As per 6 NYCRR 212.3(a), Montefiore Medical Center has chosen BACT as the method of controlling the EtO emissions from the EtO sterilizer by having an abator, which is identified as Emission Controls ST009 & ST012 in Emission Unit U-00002. The EtO sterilizers system utilizes a 10/90 mixture of EtO and HCFC 124 to sterilize the medical and surgical utensils and equipments. The two Ethylene Oxide sterilizers will be operated as per the manufacturer's instruction. The sterilizer is operated once a day, five days a week and 52 weeks a year. The length of the cycle is two hours for each sterilizer. The facility is required to comply with its emission limit through the use of Best Available Control Technology (BACT) by having the abator' removal efficiency to be a minimum of 99%. Based on the facility's Ethylene Oxide emission rate potential of 2.04 lb/hr, the degree of air cleaning (contaminant capture) required is 99% or greater or BACT must be installed as per 6 NYCRR 212.2. When the emission rate potential (ERP) is equal to or greater than 1.0 lb/hr, then the degree of control of 99% or greater or install BACT is required.

12. For the Ethylene Oxide sterilization, abator operation is required during sterilization since the EtO emission rate potential is >1.0 lb/hr as per 6 NYCRR 212.3(a). The EtO abator must be in operation whenever EtO sterilization is conducted. The Ethylene Oxide sterilizers (Emission Sources ST007& ST008) are equipped with an abator (Emission Control ST009), and (Emission Sources ST010 & ST011) are equipped with an abator (ST012), which controls the EtO emission to a maximum of 0.0204 pounds per hour in Emission Point E0002 and Emission Unit U-00002. The EtO gas emissions from the sterilizer are exhausted through the abator after being reduced to 0.0204 lb/hr with the control of the abator and then through a dedicated stack which is identified as Emission Point E0002 in Emission Unit U-00002 and then, the EtO gas emissions are discharged out to the atmosphere.

13. As per 6 NYCRR 212.9(b), the EtO abator must be in operation whenever EtO sterilization is conducted. The operation of the Ethylene Oxide abator is monitored for compliance in accordance with manufacturer's instructions. The owner/operator shall maintain a log containing the following information:

- a. The date and the number of sterilization loads.
- b. The quantity of sterilization gas used in pounds per hour, per day and per year.
- c. The date and time of sterilizer and/or abator malfunctions and maintenance.
- d. Records are to be maintained on site for a period of five (5) years.

14. Emission Point E0002 in Emission Unit U-00002 is subject to the smoke emission for the 20% opacity limit as per 6 NYCRR 212.6(a).

The facility operates other sources which are considered exempt from permitting in accordance with 6 NYCRR 201-3.2(c), including eight emergency generators, which are exempt and are not operated in any peak shaving program, they are used only in power outages and life saving programs when needed to provide power < 500 hrs/yr. In addition, there are two standby backup emergency power generators, which are part of the Solar COLTEC turbine. These two backup emergency engines are used only during the malfunction of the turbine. Also, the facility has one non-contact water cooling tower and water treatment system for process cooling water and other water containers designed to cool, store or otherwise handle water that has not been in



direct contact with gaseous or liquid process streams.

The eight (8) emergency generators at Montefiore Medical Center were all manufactured prior to:

1. July 11, 2006 - and therefore; they are not applicable to 40 CFR 60 Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, and
2. June 15, 2004 - and therefore; they are not applicable to 40 CFR 63 Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions included as part of this permit.

Permit Administrator: STEPHEN A WATTS
 47-40 21ST ST
 LONG ISLAND CITY, NY 11101-5401

Authorized Signature: _____ Date: ___ / ___ / _____



Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the compliance permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in any compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

- Facility Inspection by the Department
- Relationship of this Permit to Other Department Orders and Determinations
- Applications for permit renewals, modifications and transfers
- Permit modifications, suspensions or revocations by the Department

Facility Level

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



DEC GENERAL CONDITIONS

**** General Provisions ****

For the purpose of your Title V permit, the following section contains state-only enforceable terms and conditions.

GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

Item 1.2:

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

Item 1.3:

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

Condition 2: Relationship of this Permit to Other Department Orders and Determinations

Applicable State Requirement: ECL 3-0301 (2) (m)

Item 2.1:

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

Condition 3: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

The permittee must submit a renewal application at least 180 days before expiration of permits for both Title V and State Facility Permits.

Item 3.3:

Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

Condition 4: Permit modifications, suspensions or revocations by the Department

Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:



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

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;
- c) exceeding the scope of the project as described in the permit application;
- d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

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

Condition 5: Submission of application for permit modification or renewal - REGION 2 HEADQUARTERS

Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 2 Headquarters
Division of Environmental Permits
1 Hunters Point Plaza, 4740 21st Street
Long Island City, NY 11101-5407
(718) 482-4997

New York State Department of Environmental Conservation

Permit ID: 2-6002-00105/00002

Facility DEC ID: 2600200105



Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: MONTEFIORE MEDICAL CENTER
111 EAST 210TH ST
BRONX, NY 10467-2401

Facility: MONTEFIORE MEDICAL CTR-111 E 210TH ST
111 E 210TH ST
BRONX, NY 10467-2401

Authorized Activity By Standard Industrial Classification Code:
8062 - GENERAL MEDICAL & SURGICAL HOSPITALS

Permit Effective Date: 08/01/2016

Permit Expiration Date: 07/31/2021



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
- 2 6 NYCRR 201-6.4 (a) (7): Fees
- 3 6 NYCRR 201-6.4 (c): Recordkeeping and Reporting of Compliance Monitoring
- 4 6 NYCRR 201-6.4 (c) (2): Records of Monitoring, Sampling, and Measurement
- 5 6 NYCRR 201-6.4 (c) (3) (ii): Compliance Certification
- 6 6 NYCRR 201-6.4 (e): Compliance Certification
- 7 6 NYCRR 202-2.1: Compliance Certification
- 8 6 NYCRR 202-2.5: Recordkeeping requirements
- 9 6 NYCRR 215.2: Open Fires - Prohibitions
- 10 6 NYCRR 200.7: Maintenance of Equipment
- 11 6 NYCRR 201-1.7: Recycling and Salvage
- 12 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
- 13 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
- 14 6 NYCRR 201-3.2 (a): Compliance Certification
- 15 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 16 6 NYCRR 201-6.4 (a) (4): Requirement to Provide Information
- 17 6 NYCRR 201-6.4 (a) (8): Right to Inspect
- 18 6 NYCRR 201-6.4 (f) (6): Off Permit Changes
- 19 6 NYCRR 202-1.1: Required Emissions Tests
- 20 40 CFR Part 68: Accidental release provisions.
- 21 40 CFR 82, Subpart F: Recycling and Emissions Reduction
- 22 40 CFR 82, Subpart F: Recycling and Emissions Reduction
- 23 6 NYCRR 200.3: False statement
- 24 6 NYCRR Subpart 201-6: Emission Unit Definition
- 25 6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
- 26 6 NYCRR 201-6.4 (g): Non Applicable requirements
- *27 6 NYCRR 201-7.1: Capping Monitoring Condition
- *28 6 NYCRR 201-7.1: Capping Monitoring Condition
- 29 6 NYCRR 211.1: Air pollution prohibited
- 30 6 NYCRR 212.2: Compliance Certification
- 31 6 NYCRR 212.2: Compliance Certification
- 32 6 NYCRR 212.3 (a): Compliance Certification
- 33 6 NYCRR 225-1.2 (f): Compliance Certification
- 34 6 NYCRR 225-1.2 (g): Compliance Certification
- 35 6 NYCRR 225-1.2 (h): Compliance Certification
- 36 6 NYCRR 225-1.6: Compliance Certification
- 37 6 NYCRR 227-1.3 (a): Compliance Certification
- 38 6 NYCRR 227-2.4 (c) (1) (ii): Compliance Certification
- 39 6 NYCRR 227-2.4 (c) (1) (ii): Compliance Certification
- 40 6 NYCRR 227-2.4 (f) (3): Compliance Certification
- 41 6 NYCRR 227-2.4 (f) (3): Compliance Certification
- 42 6 NYCRR 227-2.4 (f) (3): Compliance Certification
- 43 6 NYCRR 227-2.6 (b): Compliance Certification

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- 44 6 NYCRR 227-2.6 (b): Compliance Certification
 - 45 6 NYCRR 227-2.6 (b): Compliance Certification
 - 46 6 NYCRR 227-2.6 (b): Compliance Certification
 - 47 6 NYCRR 227-2.6 (c): Compliance Certification
 - 48 6 NYCRR 227-2.6 (c): Compliance Certification
 - 49 6 NYCRR 227-2.6 (c): Compliance Certification
 - 50 6 NYCRR 227-2.6 (c): Compliance Certification
 - 51 6 NYCRR 227-2.6 (c): Compliance Certification
 - 52 40CFR 60.14, NSPS Subpart A: Modifications.
 - 53 40CFR 60.15, NSPS Subpart A: Reconstruction
 - 54 40CFR 60.334, NSPS Subpart GG: Compliance Certification
 - 55 40CFR 63.Table(2)(d), Subpart ZZZZ: Compliance Certification
 - 56 40CFR 63.6585, Subpart ZZZZ: Compliance Certification
 - 57 40CFR 63.6603(a), Subpart ZZZZ: Compliance Certification
 - 58 40CFR 63.6604, Subpart ZZZZ: Fuel requirements for existing
non-emergency stationary CI RICE
 - 59 40CFR 63.6615, Subpart ZZZZ: Compliance Certification
 - 60 40CFR 63.6625(e), Subpart ZZZZ: Compliance Certification
 - 61 40CFR 63.6640, Subpart ZZZZ: Compliance Certification
 - 62 40CFR 63.6640(f), Subpart ZZZZ: Compliance Certification
 - 63 40CFR 63.6640(f), Subpart ZZZZ: Compliance Certification
 - 64 40CFR 63.6640(f), Subpart ZZZZ: Compliance Certification
 - 65 40CFR 63.6645, Subpart ZZZZ: Compliance Certification
 - 66 40CFR 63.6655, Subpart ZZZZ: Compliance Certification
 - 67 40CFR 63.6655(b), Subpart ZZZZ: Compliance Certification
 - 68 40CFR 63.6665, Subpart ZZZZ: Compliance Certification
 - 69 40CFR 80.510(b), Subpart I: Compliance Certification
 - 70 40CFR 80.510(b), Subpart I: Compliance Certification
- Emission Unit Level**
- 71 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
 - 72 6 NYCRR Subpart 201-6: Process Definition By Emission Unit
 - 73 6 NYCRR 201-7.1: Emission Unit Permissible Emissions
 - 74 6 NYCRR 201-7.1: Process Permissible Emissions

EU=U-00001,EP=E0001

- 75 6 NYCRR 227-1.3: Compliance Certification
- 76 6 NYCRR 227-1.3 (a): Compliance Certification

EU=U-00001,EP=E0001,Proc=B01

- 77 6 NYCRR 227.2 (b) (1): Compliance Certification

EU=U-00001,EP=E0001,Proc=B01,ES=S0001

- 78 6 NYCRR 227-2.4 (f) (3): Compliance Certification
- 79 40CFR 63.6603(a), Subpart ZZZZ: Compliance Certification
- 80 40CFR 63.6603(a), Subpart ZZZZ: Compliance Certification
- 81 40CFR 63.6603(a), Subpart ZZZZ: Compliance Certification

EU=U-00001,EP=E0001,Proc=B01,ES=S0001

- 82 40CFR 63.6612(a), Subpart ZZZZ: Required date of initial compliance test
- 83 40CFR 63.6620(i), Subpart ZZZZ: Compliance Certification
- 84 40CFR 63.6630(a), Subpart ZZZZ: Compliance Certification



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- 85 40CFR 63.6630(a), Subpart ZZZZ: Compliance Certification
- 86 40CFR 63.6640(a), Subpart ZZZZ: Compliance Certification

EU=U-00001,EP=E0001,Proc=B01,ES=S0001

- 87 40CFR 63.6640(b), Subpart ZZZZ: Deviations and catalyst changing provisions for lean burn and compression ignition engines
- 88 40CFR 63.6640(d), Subpart ZZZZ: Treatment of deviations during first 200 hours of operation
- 89 40CFR 63.6640(e), Subpart ZZZZ: Reporting of non-compliance with NESHAP General Provisions
- 90 40CFR 63.6645(a), Subpart ZZZZ: Compliance Certification

EU=U-00001,EP=E0001,Proc=B01,ES=S0001

- 91 40CFR 63.6645(g), Subpart ZZZZ: Notification of intent to conduct performance test
- 92 40CFR 63.6645(h)(2), Subpart ZZZZ: Compliance Certification

EU=U-00001,EP=E0001,Proc=B01,ES=S0001

- 93 40CFR 63.6650(c), Subpart ZZZZ: Contents of compliance reports
- 94 40CFR 63.6650(d), Subpart ZZZZ: Deviation reports
- 95 40CFR 63.6650(e), Subpart ZZZZ: Deviation reporting to be included in compliance reports
- 96 40CFR 63.6655(a), Subpart ZZZZ: Compliance Certification
- 97 40CFR 63.6655(e), Subpart ZZZZ: Compliance Certification
- 98 40CFR 80.510(b), Subpart I: Compliance Certification
- 99 40CFR 63.6603(a), Subpart ZZZZ: Compliance Certification

EU=U-00001,EP=E0001,Proc=B01,ES=S0004

- 100 6 NYCRR 227-2.6 (b): Compliance Certification
- 101 40CFR 60, NSPS Subpart A: Applicability of General Provisions of 40 CFR 60 Subpart A
- 102 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 103 40CFR 60.7(a), NSPS Subpart A: Date of Construction Notification - if a COM is used.
- 104 40CFR 60.7(b), NSPS Subpart A: Recordkeeping requirements.
- 105 40CFR 60.7(c), NSPS Subpart A: Compliance Certification
- 106 40CFR 60.7(d), NSPS Subpart A: Excess Emissions Report
- 107 40CFR 60.7(f), NSPS Subpart A: Facility files for subject sources.
- 108 40CFR 60.8(a), NSPS Subpart A: Performance testing timeline.
- 109 40CFR 60.8(b), NSPS Subpart A: Performance test methods.
- 110 40CFR 60.8(c), NSPS Subpart A: Required performance test information.
- 111 40CFR 60.8(d), NSPS Subpart A: Prior notice.
- 112 40CFR 60.8(e), NSPS Subpart A: Performance testing facilities.
- 113 40CFR 60.8(f), NSPS Subpart A: Number of required tests.
- 114 40CFR 60.9, NSPS Subpart A: Availability of information.
- 115 40CFR 60.11, NSPS Subpart A: Opacity standard compliance testing.
- 116 40CFR 60.12, NSPS Subpart A: Circumvention.
- 117 40CFR 60.13, NSPS Subpart A: Monitoring requirements.
- 118 40CFR 60.13(c), NSPS Subpart A: Compliance Certification
- 119 40CFR 60.40c, NSPS Subpart Dc: Compliance Certification
- 120 40CFR 60.40c, NSPS Subpart Dc: Compliance Certification
- 121 40CFR 60.42c(d), NSPS Subpart Dc: Compliance Certification

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- 122 40CFR 60.42c(h), NSPS Subpart Dc: Exemption from the averaging period.
- 123 40CFR 60.43c(c), NSPS Subpart Dc: Compliance Certification
- 124 40CFR 60.44c(h), NSPS Subpart Dc: Compliance Certification
- 125 40CFR 60.46c(d)(2), NSPS Subpart Dc: Compliance Certification
- 126 40CFR 60.46c(e), NSPS Subpart Dc: Exemption from sulfur dioxide monitoring requirements.
- 127 40CFR 60.47c, NSPS Subpart Dc: Compliance Certification
- 128 40CFR 60.48c(d), NSPS Subpart Dc: Compliance Certification
- 129 40CFR 60.48c(e)(1), NSPS Subpart Dc: Compliance Certification
- 130 40CFR 60.48c(e)(2), NSPS Subpart Dc: Compliance Certification
- 131 40CFR 60.48c(e)(3), NSPS Subpart Dc: Compliance Certification
- 132 40CFR 60.48c(e)(4), NSPS Subpart Dc: Compliance Certification
- 133 40CFR 60.48c(e)(7), NSPS Subpart Dc: Compliance Certification
- 134 40CFR 60.48c(e)(11), NSPS Subpart Dc: Compliance Certification
- 135 40CFR 60.48c(g), NSPS Subpart Dc: Compliance Certification
- 136 40CFR 60.48c(i), NSPS Subpart Dc: Compliance Certification

EU=U-00001,EP=E0001,Proc=B02

- 137 6 NYCRR 227.2 (b) (1): Compliance Certification

EU=U-00001,EP=E0001,Proc=BNG,ES=S0001

- 138 6 NYCRR 227-2.4 (f) (3): Compliance Certification

EU=U-00001,EP=E0001,Proc=BNG,ES=S0004

- 139 6 NYCRR 227-2.6 (b): Compliance Certification
- 140 40CFR 60, NSPS Subpart A: Applicability of General Provisions of 40 CFR 60 Subpart A
- 141 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 142 40CFR 60.7(a), NSPS Subpart A: Date of Construction Notification - if a COM is used.
- 143 40CFR 60.7(b), NSPS Subpart A: Recordkeeping requirements.
- 144 40CFR 60.7(c), NSPS Subpart A: Compliance Certification
- 145 40CFR 60.7(d), NSPS Subpart A: Excess Emissions Report
- 146 40CFR 60.7(f), NSPS Subpart A: Facility files for subject sources.
- 147 40CFR 60.8(a), NSPS Subpart A: Performance testing timeline.
- 148 40CFR 60.8(b), NSPS Subpart A: Performance test methods.
- 149 40CFR 60.8(c), NSPS Subpart A: Required performance test information.
- 150 40CFR 60.8(d), NSPS Subpart A: Prior notice.
- 151 40CFR 60.8(e), NSPS Subpart A: Performance testing facilities.
- 152 40CFR 60.8(f), NSPS Subpart A: Number of required tests.
- 153 40CFR 60.9, NSPS Subpart A: Availability of information.
- 154 40CFR 60.11, NSPS Subpart A: Opacity standard compliance testing.
- 155 40CFR 60.12, NSPS Subpart A: Circumvention.
- 156 40CFR 60.13, NSPS Subpart A: Monitoring requirements.

EU=U-00002,EP=E0002,Proc=ETO,ES=ST009

- 157 6 NYCRR 212.2: Compliance Certification
- 158 6 NYCRR 212.3 (a): Compliance Certification
- 159 6 NYCRR 212.6 (a): Compliance Certification
- 160 6 NYCRR 212.9 (b): Compliance Certification

EU=U-00002,EP=E0002,Proc=ETO,ES=ST012

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- 161 6 NYCRR 212.2: Compliance Certification
- 162 6 NYCRR 212.3 (a): Compliance Certification
- 163 6 NYCRR 212.6 (a): Compliance Certification
- 164 6 NYCRR 212.9 (b): Compliance Certification

EU=U-C0003

- 165 40CFR 60.334, NSPS Subpart GG: Compliance Certification
- 166 40CFR 60.335(b), NSPS Subpart GG: Test methods and procedures for NOx emission testing

EU=U-C0003,EP=EP003

- 167 6 NYCRR 227-1.3: Compliance Certification
- 168 6 NYCRR 227-1.3 (a): Compliance Certification

EU=U-C0003,EP=EP003,Proc=P03,ES=ES006

- *169 6 NYCRR 201-7.1: Capping Monitoring Condition
- *170 6 NYCRR 201-7.1: Capping Monitoring Condition

EU=U-C0003,EP=EP003,Proc=P04

- 171 6 NYCRR 227.2 (b) (1): Compliance Certification

EU=U-C0003,EP=EP003,Proc=P04,ES=ES006

- *172 6 NYCRR 201-7.1: Capping Monitoring Condition
- *173 6 NYCRR 201-7.1: Capping Monitoring Condition

EU=U-C0003,EP=EP003,Proc=P06,ES=ES007

- *174 6 NYCRR 201-7.1: Capping Monitoring Condition
- *175 6 NYCRR 201-7.1: Capping Monitoring Condition
- 176 40CFR 60.48c(a), NSPS Subpart Dc: Compliance Certification

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 177 ECL 19-0301: Contaminant List
- 178 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 179 6 NYCRR 211.2: Visible Emissions Limited

NOTE: * preceding the condition number indicates capping.



FEDERALLY ENFORCEABLE CONDITIONS
****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS
The items listed below are not subject to the annual compliance certification requirements under Title V. Permittees may also have other obligations under regulations of general applicability.

- Item A: 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 B: Timely Application for the Renewal of Title V Permits - 6 NYCRR 201-6.2 (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 C: Certification by a Responsible Official - 6 NYCRR 201-6.2 (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 D: Requirement to Comply With All Conditions - 6 NYCRR 201-6.4 (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 E: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR 201-6.4 (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 F: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.4 (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 G: Property Rights - 6 NYCRR 201-6.4 (a) (6)

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

Item H: Severability - 6 NYCRR 201-6.4 (a) (9)

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

Item I: Permit Shield - 6 NYCRR 201-6.4 (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 J: Reopening for Cause - 6 NYCRR 201-6.4 (i)

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

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

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

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

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

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

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



a shorter time period in the case of an emergency.

Item K: 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 L: 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.

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS
SUBJECT TO ANNUAL CERTIFICATIONS AT ALL TIMES**

The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements at all times.

**Condition 1: Acceptable Ambient Air Quality
Effective between the dates of 08/01/2016 and 07/31/2021**

Applicable Federal Requirement: 6 NYCRR 200.6

Item 1.1:

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of



Condition 5: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 6 NYCRR 201-6.4 (c) (3) (ii)

Item 5.1:

The Compliance Certification activity will be performed for the Facility.

Item 5.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To meet the requirements of this facility permit with respect to reporting, the permittee must:

Submit reports of any required monitoring at a minimum frequency of every 6 months, based on a calendar year reporting schedule. These reports shall be submitted to the Department within 30 days after the end of a reporting period. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by the responsible official for this facility.

Notify the Department and report permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. Where the underlying applicable requirement fails to address the time frame for reporting deviations, reports of deviations shall be submitted to the permitting authority based on the following schedule:

- (1) For emissions of a hazardous air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.
- (2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.
- (3) For all other deviations from permit requirements, the report shall be contained in the 6 month monitoring



report required above.

(4) This permit may contain a more stringent reporting requirement than required by paragraphs (1), (2) or (3) above. If more stringent reporting requirements have been placed in this permit or exist in applicable requirements that apply to this facility, the more stringent reporting requirement shall apply.

If above paragraphs (1) or (2) are met, the source must notify the permitting authority by telephone during normal business hours at the Regional Office of jurisdiction for this permit, attention Regional Air Pollution Control Engineer (RAPCE) according to the timetable listed in paragraphs (1) and (2) of this section. For deviations and incidences that must be reported outside of normal business hours, on weekends, or holidays, the DEC Spill Hotline phone number at 1-800-457-7362 shall be used. A written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.2(d)(12), must be submitted within 10 working days of an occurrence for deviations reported under (1) and (2). All deviations reported under paragraphs (1) and (2) of this section must also be identified in the 6 month monitoring report required above.

The provisions of 6 NYCRR 201-1.4 shall apply if the permittee seeks to have a violation excused unless otherwise limited by regulation. In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets. Notwithstanding any recordkeeping and reporting requirements in 6 NYCRR 201-1.4, reports of any deviations shall not be on a less frequent basis than the reporting periods described in paragraphs (1) and (4) above.

In the case of any condition contained in this permit with a reporting requirement of "Upon request by regulatory agency" the permittee shall include in the semiannual report, a statement for each such condition that the monitoring or recordkeeping was performed as required or requested and a listing of all instances of deviations from these requirements.

In the case of any emission testing performed during the previous six month reporting period, either due to a request by the Department, EPA, or a regulatory requirement, the permittee shall include in the semiannual report a summary of the testing results and shall indicate



whether or not the Department or EPA has approved the results.

All semiannual reports may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office) and one copy shall be sent to the Administrator (or his or her representative). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.4(e), contained elsewhere in this permit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 6: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:6 NYCRR 201-6.4 (e)

Item 6.1:

The Compliance Certification activity will be performed for the Facility.

Item 6.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Requirements for compliance certifications with terms and conditions contained in this facility permit include the following:

- i. Compliance certifications shall contain:
 - the identification of each term or condition of the permit that is the basis of the certification;
 - the compliance status;
 - whether compliance was continuous or intermittent;
 - the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related record keeping and reporting requirements of this permit;
 - such other facts as the Department may require to determine the compliance status of the facility as specified in any special permit terms or conditions;



and
- such additional requirements as may be specified elsewhere in this permit related to compliance certification.

ii. The responsible official must include in the annual certification report all terms and conditions contained in this permit which are identified as being subject to certification, including emission limitations, standards, or work practices. That is, the provisions labeled herein as "Compliance Certification" are not the only provisions of this permit for which an annual certification is required.

iii. Compliance certifications shall be submitted annually. Certification reports are due 30 days after the anniversary date of four consecutive calendar quarters. The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.

iv. All annual compliance certifications may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office) and one copy shall be sent to the Administrator (or his or her representative). The mailing addresses for the above referenced persons are:

Chief – Stationary Source Compliance Section
USEPA Region 2
Air Compliance Branch
290 Broadway
New York, NY 10007-1866

The address for the RAPCE is as follows:

Regional Air Pollution Control Engineer
Hunters Point Plaza
47-40 21st Street
Long Island City, NY 11101-5407

The address for the BQA is as follows:

NYSDEC
Bureau of Quality Assurance

New York State Department of Environmental Conservation

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625 Broadway
Albany, NY 12233-3258

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2017.
Subsequent reports are due on the same day each year

Condition 7: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:6 NYCRR 202-2.1

Item 7.1:

The Compliance Certification activity will be performed for the Facility.

Item 7.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

Emission statements shall be submitted on or before April 15th each year for emissions of the previous calendar year. Statements are to be mailed to: New York State Department of Environmental Conservation, Division of Air Resources, Bureau of Air Quality Planning, 625 Broadway, Albany NY 12233-3251

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due by April 15th for previous calendar year

Condition 8: Recordkeeping requirements
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:6 NYCRR 202-2.5

Item 8.1:

(a) The following records shall be maintained for at least five years:

(1) a copy of each emission statement submitted to the department; and

(2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.

(b) These records shall be made available at the facility to the representatives of the department upon request during normal business hours.

Condition 9: Open Fires - Prohibitions
Effective between the dates of 08/01/2016 and 07/31/2021



Applicable Federal Requirement:6 NYCRR 215.2

Item 9.1:

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

Item 9.2

Per Section 215.3, burning in an open fire, provided it is not contrary to other law or regulation, will be allowed as follows:

- (a) On-site burning in any town with a total population less than 20,000 of downed limbs and branches (including branches with attached leaves or needles) less than six inches in diameter and eight feet in length between May 15th and the following March 15th. For the purposes of this subdivision, the total population of a town shall include the population of any village or portion thereof located within the town. However, this subdivision shall not be construed to allow burning within any village.
- (b) Barbecue grills, maple sugar arches and similar outdoor cooking devices when actually used for cooking or processing food.
- (c) Small fires used for cooking and camp fires provided that only charcoal or untreated wood is used as fuel and the fire is not left unattended until extinguished.
- (d) On-site burning of agricultural wastes as part of a valid agricultural operation on contiguous agricultural lands larger than five acres actively devoted to agricultural or horticultural use, provided such waste is actually grown or generated on those lands and such waste is capable of being fully burned within a 24-hour period.
- (e) The use of liquid petroleum fueled smudge pots to prevent frost damage to crops.
- (f) Ceremonial or celebratory bonfires where not otherwise prohibited by law, provided that only untreated wood or other agricultural products are used as fuel and the fire is not left unattended until extinguished.
- (g) Small fires that are used to dispose of a flag or religious item, and small fires or other smoke producing process where not otherwise prohibited by law that are used in connection with a religious ceremony.
- (h) Burning on an emergency basis of explosive or other dangerous or contraband materials by police or other public safety organization.
- (i) Prescribed burns performed according to Part 194 of this Title.
- (j) Fire training, including firefighting, fire rescue, and fire/arson investigation training, performed under applicable rules and guidelines of the New York State Department of State's Office of Fire Prevention and Control. For fire training performed on acquired structures, the structures must be emptied and stripped of any material that is toxic, hazardous or likely to emit toxic smoke (such as asbestos, asphalt shingles and vinyl siding or other vinyl products) prior to burning and must be at least 300 feet from other occupied structures. No more than one structure per lot or within a 300 foot radius (whichever is bigger) may be burned in a training exercise.
- (k) Individual open fires as approved by the Director of the Division of Air Resources as may be required in response to an outbreak of a plant or animal disease upon request by the commissioner of the Department of Agriculture and Markets, or for the destruction of invasive plant and insect species.
- (l) Individual open fires that are otherwise authorized under the environmental conservation law, or by rule or regulation of the Department.

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS
SUBJECT TO ANNUAL CERTIFICATIONS ONLY IF APPLICABLE**



Condition 14: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:6 NYCRR 201-3.2 (a)

Item 14.1:

The Compliance Certification activity will be performed for the Facility.

Item 14.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

AS PROOF OF EXEMPT ELIGIBILITY FOR THE EMERGENCY GENERATORS, THE FACILITY MUST MAINTAIN MONTHLY RECORDS WHICH DEMONSTRATE THAT EACH ENGINE IS OPERATED LESS THAN 500 HOURS PER YEAR, ON A 12-MONTH ROLLING TOTAL BASIS.

Work Practice Type: HOURS PER YEAR OPERATION

Upper Permit Limit: 500.0 hours

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 15: Trivial Sources - Proof of Eligibility
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:6 NYCRR 201-3.3 (a)

Item 15.1:

The owner or operator of an emission source or activity that is listed as being trivial in this Section may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all required records on-site for a period of five years and make them available to representatives of the department upon request.

Condition 16: Requirement to Provide Information
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (4)

Item 16.1:

The owner and/or operator shall furnish to the department, within a reasonable time, any information that the department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the department copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the administrator along with a claim of confidentiality, if the



Condition 19: Required Emissions Tests
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 19.1:

For the purpose of ascertaining compliance or non-compliance with any air pollution control code, rule or regulation, the commissioner may require the person who owns such air contamination source to submit an acceptable report of measured emissions within a stated time.

Condition 20: Accidental release provisions.
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40 CFR Part 68

Item 20.1:

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

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

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

Condition 21: Recycling and Emissions Reduction
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 82, Subpart F

Item 21.1:

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

Condition 22: Recycling and Emissions Reduction
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 82, Subpart F

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Item 22.1:

The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVAC's in Subpart B:

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR Part 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR Part 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR Part 82.161.
- d. Persons disposing of small appliances, MVAC's, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR Part 82.166. ("MVAC-like appliance as defined at 40 CFR Part 82.152)
- e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR Part 82.156.
- f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR Part 82.166.

The following conditions are subject to annual compliance certification requirements for Title V permits only.

Condition 23: False statement
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:6 NYCRR 200.3

Item 23.1:

No person shall make a false statement in connection with applications, plans, specifications and/or reports submitted pursuant to this Subchapter.

Condition 24: Emission Unit Definition
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 24.1:

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

Emission Unit: U-00001

Emission Unit Description:

Emission Unit U-00001 consists of three



Coltec internal combustion engines (Emission Sources S0001, S0002 & S0003), and two boilers (Emission sources S0004 & S0005) with a total potential heat input of 213.6 MM Btu/hr. All of these emission sources operate on natural gas and # 2 fuel oil (Processes BNG & B01; respectively), except Emission Source S0005 (the 68.4 MM Btu/hr Cleaver Brooks boiler), which operates on # 2 fuel oil (Process B02) only. The Babcock & Wilcox boiler (Emission Source S0004) is being downgraded from 113 MM Btu/hr to 98 MM Btu/hr. Ever since its installation, this emission source was never operated at that capacity.

All three (3) Coltec Internal Combustion engines (Emission Sources S0001, S0002 & S0003) are 2 stroke configuration lean burn compression ignition non-emergency engines > 500 hp located at an area source for HAPs. These three engines are installed with dual fuel operating controls and fuel air equipment. Lean Burn engines operating temperature range per Subpart ZZZZ is 450-1350 F. The emissions from the 3 Coltec engines are controlled by an oxidation catalyst. These engines are subject to work practices listed in Table 2d of Subpart ZZZZ of the MACT. Emissions exhaust through a stack identified as Emission Point E0001.

Emission Point E0001, Processes B01, B02 & BNG, and Emission Source/Control S0001, S0002, S0003, S0004 & S0005 are associated with Emission Unit U-00001.

The Coltec internal combustion engines, Emission Sources S0001 & S0002 are 13.5 MM Btu/hr each:

$$13.5 \text{ MM Btu/hr} \times (1 \text{ hp}/2,544.43 \text{ Btu/hr}) = 5,305.71 \text{ hp}$$

$$13.5 \text{ MM Btu/hr} \times (1 \text{ KW}/3,412.142 \text{ Btu/hr}) = 3,956.46 \text{ KW}$$

The Coltec internal combustion engine, Emission Source S0003 is 20.2 MM Btu/hr:

$$20.2 \text{ MM Btu/hr} \times (1 \text{ hp}/2,544.43 \text{ Btu/hr}) =$$



7,938.91 hp

20.2 MM Btu/hr x (1 KW/3,412.142 Btu/hr)
= 5,920.04 KW

	Engine #1	Engine #2
Emission Source	S0001	S0002
Number of strokes	2	2
Rich/lean burn	lean burn	lean burn
Number of cylinders	6	6
bhp	2,205	2,205
MM Btu/hr	13.5	13.5
Displacement/cylinder	1,037 cu. in.	1,037 cu. in.
Displacement/cylinder	1,699 liters	1,699 liters

	Engine #3
Emission Source	S0003
Number of strokes	2
Rich/lean burn	lean burn
Number of cylinders	9
bhp	3,308

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MM Btu/hr 20.2

Displacement/cylinder 1,037 cu. in.

Displacement/cylinder 1,699 liters

Building(s): 1

Item 24.2:

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

Emission Unit: U-00002

Emission Unit Description:

Emission Unit U-00002 consists of four (4) Ethylene Oxide sterilizers and two (2) abators, all are connected to a stack (Emission Point E0002). The sterilizer is typically operated (Process ETO) one shift per cycle per day, 5 days a week, 52 weeks a year with 90% removal efficiency.

Emission Unit U-00002 consists of the ethylene oxide sterilizer system as:

Emission Source ST007 - Steris- AMSCO Eagle-3048 sterilizer - 24 cubic feet

Emission Source ST008 - Steris-AMSCO Eagle-3048 sterilizer - 24 cubic feet

Emission Control ST009 - AMSCO EtO abator (Donaldson abator)

Emission Source ST010 - Steris- AMSCO Eagle-3017 sterilizer - 4.8 cubic feet

Emission Source ST011 - Steris- AMSCO Eagle-3017 sterilizer - 4.8 cubic feet

Emission Control ST012 - AMSCO 50 CFM EtO abator-

Emission Control ST009 is the abator for ethylene oxide sterilizers (Emission Sources ST007 & ST008), and Emission Control ST012 is the abator for ethylene oxide sterilizers (Emission Sources ST010 & ST011).

Emission Point E0002, Process ETO, and Emission Source/Control ST007, ST008, ST009, ST010, ST011, and ST012 are associated with Emission Unit U-00002.

Building(s): 2

Item 24.3:

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

Emission Unit: U-C0003

Emission Unit Description:



Emission Unit U-C0003 consists of combustion turbine-generator (Emission Source ES006), capable of firing natural gas (Process P03) and #2 fuel oil (Process P04), and a downstream operation of which is a HRSG containing a duct burner (Emission Source ES007), capable of firing natural gas only (Process P06). Emission Unit U-C0003 consists of Emission Point EP003, Processes P03, P04 & P06, and Emission Source/Control ES006, ES007 & ES008. The emission control for the combustion turbine-generator and the duct burner is the GOALLINE/SCONOX, which is identified as Emission Control ES008 and is a catalytic reduction. The emissions vent from one common stack, connected to the existing emission control, defined as Emission Point EP003.

Emission Point EP003, Processes P03, P04 & P06, and Emission Source/Control ES006, ES007 & ES008 are associated with Emission Unit U-C0003.

The 4.83 megawatt Solar Taurus 60 , the Low NOx Combustion Turbine Generator (Emission Source ES006 is equivalent to 16.5 MM Btu/hr.

Building(s): 1

Condition 25: Progress Reports Due Semiannually
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:6 NYCRR 201-6.4 (d) (4)

Item 25.1:

Progress reports consistent with an applicable schedule of compliance are to be submitted at least semiannually, or at a more frequent period if specified in the applicable requirement or by the department. Such progress reports shall contain the following:

(i) dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and

(ii) an explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

Condition 26: Non Applicable requirements
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:6 NYCRR 201-6.4 (g)

Item 26.1:

This section contains a summary of those requirements that have been specifically identified as being not applicable to this facility and/or emission units, emission points, processes and/or



emission sources within this facility. The summary also includes a justification for classifying any such requirements as non-applicable.

40 CFR 60.42c

Emission Unit: U00001 Emission Point: E0001 Process: B01

Reason: 40 CFR 60-Dc.42c, NSPS Standards for Sulfur Dioxide, which limits the sulfur content in the distillate oil to 0.50 percent by weight is not applicable to this facility. This regulation is overruled by regulation 6 NYCRR 225.1(a)(3), which limits the sulfur content in the distillate oil to 0.20 percent by weight to facilities in the severe ozone non-attainment area such as New York City.

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

Condition 27: Capping Monitoring Condition
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 27.1:

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

6 NYCRR Subpart 231-2

Item 27.2:

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

Item 27.3:

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

Item 27.4:

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

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Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

The natural gas usage for the gas turbine (Process P03) and duct burner (Process P06) combination shall not exceed 714 million cubic feet of gas per year, based upon a annual 12- month rolling average. The facility shall monitor this limitation by installing and maintaining a non-resetable gas flow meter on the turbine/duct burner gas supply line. The facility shall maintain a bound log of the monthly fuel records (from the meter) for a minimum of five (5) years.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: NATURAL GAS

Upper Permit Limit: 714 million cubic feet per year

Reference Test Method: PT 60, APP A, M 7E

Monitoring Frequency: CONTINUOUS

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 29: Air pollution prohibited
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:6 NYCRR 211.1

Item 29.1:

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

Condition 30: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:6 NYCRR 212.2

Item 30.1:

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

Emission Unit: U-00002

Emission Point: E0002



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and HCFC 124 to sterilize the medical and surgical utensils and equipments. The length of the cycle is two hours for each sterilizer. The sterilizers are connected to the EtO abatement system.

Compliance of the EtO gas emissions from the sterilizer to the atmosphere with the limit of 0.0204 pounds per hour in Emission Point E0002 and Emission Unit U-00002 is to be verified with a stack test once during the term of the permit.

Parameter Monitored: ETHYLENE OXIDE
Upper Permit Limit: 0.0044 pounds per hour
Reference Test Method: EPA Approved Method
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: 24-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 32: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:6 NYCRR 212.3 (a)

Item 32.1:

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

Emission Unit: U-00002 Process: ETO	Emission Point: E0002 Emission Source: ST007
Emission Unit: U-00002 Process: ETO	Emission Point: E0002 Emission Source: ST008
Emission Unit: U-00002 Process: ETO	Emission Point: E0002 Emission Source: ST009
Emission Unit: U-00002 Process: ETO	Emission Point: E0002 Emission Source: ST010
Emission Unit: U-00002 Process: ETO	Emission Point: E0002 Emission Source: ST011
Emission Unit: U-00002 Process: ETO	Emission Point: E0002 Emission Source: ST012

Regulated Contaminant(s):
CAS No: 000075-21-8 ETHYLENE OXIDE

Item 32.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL



DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

EtO sterilization - abator operation required during sterilization. The EtO abator must be in operation whenever EtO sterilization is conducted. No person will cause or allow emissions that violate the requirement specified in Table 2, 3, or Table 4 of 6 NYCRR Part 212 for the environmental rating issued by the Commissioner. Either 99% or greater air cleaning or BACT (Best Available Control Technology) is required for EtO emissions from this source (sterilizer).

Montefiore Medical Center has chosen BACT as the method of controlling the EtO emissions from the EtO sterilizer by having an abator (AMSCO 50 CFM EtO abator), which is identified as Emission Control ST012 in Emission Unit U-00002.

The two new ethylene oxide sterilizer (Emission Sources ST007 & ST008) have a built in aerator and are equipped with an abator (Emission Control ST009) which controls the EtO emission to a maximum of 0.0441 pounds per hour in Emission Point 00002 and Emission Unit U-00020. The EtO gas emissions from the sterilizers are exhausted through the abator after being reduced to 0.0441 lb/hr with the control of the abator and then through a dedicated stack which is identified as Emission Point E0002 in Emission Unit U-00002 and then, the EtO gas emissions are discharged out to the atmosphere.

Compliance of the EtO gas emissions from the sterilizer to the atmosphere with the limit of 0.0441 pounds per hour in Emission Point E0002 and Emission Unit U-00002 is to be verified with a stack test once during the term of the permit.

Manufacturer Name/Model Number: AMSCO EtO abator (DONALDSON abator)
Parameter Monitored: ETHYLENE OXIDE
Upper Permit Limit: 0.0441 pounds per hour
Reference Test Method: Part 60, Method 18
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 33: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 6 NYCRR 225-1.2 (f)

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Item 33.1:

The Compliance Certification activity will be performed for the Facility.

Item 33.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners and/or operators of commercial, industrial, or residential emission sources that fire number two heating oil on or after July 1, 2012 are limited to the purchase of number two heating oil with 0.0015 percent sulfur by weight or less. Compliance with this limit will be based on vendor certifications.

Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the Department, and must be retained for at least five years. The owner of a Title V facility must furnish to the Department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period. All other facility owners or distributors must submit these records and summaries upon request of the Department.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 2 HEATING OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.0015 percent by weight

Monitoring Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 34: Compliance Certification

Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 6 NYCRR 225-1.2 (g)

Item 34.1:

The Compliance Certification activity will be performed for the Facility.

Item 34.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners and/or operators of a stationary combustion installation that fires distillate oil other than number

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two heating oil are limited to the purchase of distillate oil with 0.0015 percent sulfur by weight or less on or after July 1, 2014. Compliance with this limit will be based on vendor certifications.

Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the Department, and must be retained for at least five years. The owner of a Title V facility must furnish to the Department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period. All other facility owners or distributors must submit these records and summaries upon request of the Department.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL
Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 0.0015 percent by weight
Monitoring Frequency: PER DELIVERY
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 35: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 6 NYCRR 225-1.2 (h)

Item 35.1:

The Compliance Certification activity will be performed for the Facility.

Item 35.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners and/or operators of a stationary combustion installations that fire distillate oil are limited to the firing of distillate oil with 0.0015 percent sulfur by weight or less on or after July 1, 2016. Compliance with this limit will be based on vendor certifications.

Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the Department, and must be retained for at least five years. The owner of a Title V facility must furnish to the Department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period. All other facility owners or distributors must submit these records and summaries upon request of the



Department.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL
Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 0.0015 percent by weight
Monitoring Frequency: PER DELIVERY
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 36: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 6 NYCRR 225-1.6

Item 36.1:

The Compliance Certification activity will be performed for the Facility.

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

Item 36.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:
§225-1.6 Reports, sampling, and analysis.

(a) The department will require fuel analyses, information on the quantity of fuel received, fired or sold, and results of stack sampling, stack monitoring, and other procedures to ensure compliance with the provisions of this Subpart.

(b) (1) Any person who sells oil and/or coal must retain, for at least five years, records containing the following information:

(i) fuel analyses and data on the quantities of all oil and coal received; and

(ii) the names of all purchasers, fuel analyses, and data on the quantities of all oil and coal sold.

(2) Such fuel analyses must contain, as a minimum:

(i) data on the sulfur content, ash content, specific gravity, and heating value of residual oil;

(ii) data on the sulfur content, specific gravity, and heating value of distillate oil; and



(iii) data on the sulfur content, ash content, and heating value of coal.

(c) Sampling, compositing, and analysis of fuel samples must be done in accordance with methods acceptable to the department.

(d) Facility owners or fuel distributors required to maintain and retain records pursuant to this Subpart must make such records available for inspection by the department.

(e) Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the department, and must be retained for at least five years. The owner of a Title V facility must furnish to the department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period. All other facility owners or distributors must submit these records and summaries upon request of the department.

(f) Facility owners subject to this Subpart must submit a written report of the fuel sulfur content exceeding the applicable sulfur-in-fuel limitation, measured emissions exceeding the applicable sulfur-in-fuel limitation, measured emissions exceeding the applicable equivalent emission rate, and the nature and cause of such exceedances if known, for each calendar quarter, within 30 days after the end of any quarterly period in which an exceedance takes place.

Monitoring Frequency: PER DELIVERY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2017.
Subsequent reports are due every 12 calendar month(s).

Condition 37: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 37.1:
The Compliance Certification activity will be performed for the Facility.

Item 37.2:
Compliance Certification shall include the following monitoring:

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

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Monitoring Description:

No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one 6 minute period per hour of not more than 27 percent opacity. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

The permittee will conduct observations of visible emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency stated below while the process is in operation. The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard.

The permittee shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the Method 9 test indicates that the opacity standard is not met.

Records of visible emissions observations (or any follow-up Method 9 tests), investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 38: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

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

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Item 38.1:

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

Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

Emission Unit: U-00001 Emission Point: E0001
Process: BNG Emission Source: S0004

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

Item 38.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Montefiore Medical Center is required to perform testing the mid-size boilers, the 98 MM Btu/hr BABCOCK WILCOX FM 106 (Emission Source S0004) 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. The Babcock & Wilcox boiler (Emission Source S0004) operates on #2 distillate fuel oil (Process B01) 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 distillate oil/natural gas have a new limit of 0.08 pounds of NO_x per million Btus under the NO_x RACT plan for mid-size boilers.

In order to meet the NO_x RACT requirement of 0.08 lbs/MM Btu for the 98 MM Btu/hr Babcock & Wilcox boiler (Emission Source S0004), the boiler was retrofitted with low NO_x burner and FGR (Flue Gas Recirculation) system. The retrofit was completed by December 9, 2015 and the emissions test was completed on 12/22/2015 and 12/23/2015.

Emission test requirements: The owner/operator of a source required to conduct an emission test under subdivision (c) of 6 NYCRR 227-2.6 must:

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

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

i. For mid-size boilers (> 25 and equal to or <100 MM Btu/hr) boilers, utilize Method 7, 7E, or 19 from 40 CFR Part 60, Appendix A or another reference method approved by the Department.

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

This condition applies to the 98 MM Btu/hr BABCOCK WILCOX FM 106 boiler (Emission Source S0004).

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.08 pounds per million Btus

Reference Test Method: 40 CFR 60 Appendix A - Method 7, 7E, or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 39: Compliance Certification

Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 39.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001

Emission Point: E0001

Process: B02

Emission Source: S0005

Regulated Contaminant(s):

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

Item 39.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Montefiore Medical Center is required to perform testing the mid-size boilers, the 98 MM Btu/hr BABCOCK WILCOX FM 106 (Emission Source S0004) and the 68.4 MM Btu/hr CLEAVER-BROOKS DL-76-RH (Emission Source S0005) to verify the NOx emission limit compliance. A mid-size boiler is a

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boiler with a maximum heat input capacity greater than 25 million Btu per hour and equal to or less than 100 million Btu per hour. The Babcock & Wilcox boiler (Emission Source S0004) operates on #2 distillate fuel oil (Process B01) and on natural gas (Process BNG), while the Cleaver-Brooks boiler operates on only #2 distillate fuel oil (Process B02).

On or after July 1, 2014, the owner/operator of mid-size boilers (> 25 and equal to or <100 MM Btu/hr) boilers operating on distillate oil/natural gas have a new limit of 0.08 pounds of NO_x per million Btus under the NO_x RACT plan for mid-size boilers. But due to economic analysis, the facility is being granted a NO_x RACT Variance of 0.12 pounds of NO_x per million Btus for the 68.4 MM Btu/hr CLEAVER-BROOKS DL-76-RH boiler (Emission Source S0005).

Emission test requirements: The owner/operator of a source required to conduct an emission test under subdivision (c) of 6 NYCRR 227-2.6 must:

1. Submit a compliance test protocol to the Department for approval at least 30 days prior to emission testing. The conditions of the testing and the locations of the sampling devices must be acceptable to the department; and
2. Utilize procedures set forth in 40 CFR Part 60, Appendix A or any other method acceptable to the Department and EPA for determining compliance with the appropriate NO_x limit in section 227-2.4 of this Subpart, and must follow the procedures set forth in Part 202 of this Title.
 - i. For mid-size boilers (> 25 and equal to or <100 MM Btu/hr) boilers, utilize Method 7, 7E, or 19 from 40 CFR Part 60, Appendix A or another reference method approved by the Department.
3. Submit a compliance test report containing the results of the emission test to the Department no later than 60 days after the completion of the emission test.

This condition applies to the 68.4 MM Btu/hr CLEAVER-BROOKS DL-76-RH boiler (Emission Source S0005).

Manufacturer Name/Model Number: CEMS for the CLEAVER-BROOKS DL-76-RH

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.12 pounds per million Btus

Reference Test Method: 40 CFR 60 Appendix A - Method 7, 7E, or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT



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Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 40: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 6 NYCRR 227-2.4 (f) (3)

Item 40.1:

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

Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0002

Emission Unit: U-00001 Emission Point: E0001
Process: BNG Emission Source: S0002

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

Item 40.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition applies to stationary internal combustion engines that have a maximum mechanical output rating equal to or greater than 200 brake horsepower in a severe ozone nonattainment area or 400 brake horsepower outside a severe ozone nonattainment area and are fired by distillate oil. The owner or operator is required to submit a compliance testing protocol to the department for approval at least 30 days prior to testing. The owner or operator will maintain all records on-site for a minimum of five years.

During the December 2010 stack testing (for Renewal 31 Conditions), two of the three Coltec IC engines (Emission Sources S0002 & S0003) failed to meet the 2.3 gm/bhp-hr NOx emission limit on #2 fuel oil firing (Process B01). Coltec IC engine #1 has met the 2.3 gm/bhp-hr NOx emission limit on oil firing, but Coltec IC #2 engine (Emission Source S0002) and Coltec IC #2 engine (Emission Source S0003) have failed the 2.3 gm/bhp-hr NOx emission limit on oil firing. Montefiore Medical Center investigated the available options for reducing the NOx emission limit, but the economic impact for reducing NOx was determined to be not feasible. A NOx RACT analysis based on Airguide-20 was conducted and the report was submitted to the Department.

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distillate oil. The owner or operator is required to submit a compliance testing protocol to the department for approval at least 30 days prior to testing. The owner or operator will maintain all records on-site for a minimum of five years.

During the December 2010 stack testing (for Renewal 31 Conditions), two of the three Coltec IC engines (Emission Sources S0002 & S0003) failed to meet the 2.3 gm/bhp-hr NOx emission limit on #2 fuel oil firing (Process B01). Coltec IC engine #1 has met the 2.3 gm/bhp-hr NOx emission limit on oil firing, but Coltec IC #2 engine (Emission Source S0002) and Coltec IC #2 engine (Emission Source S0003) have failed the 2.3 gm/bhp-hr NOx emission limit on oil firing. Montefiore Medical Center investigated the available options for reducing the NOx emission limit, but the economic impact for reducing NOx was determined to be not feasible. A NOx RACT analysis based on Airguide-20 was conducted and the report was submitted to the Department.

The Department has approved the NOx RACT variance of 2.8 gm/bhp-hr on the Coltec IC engine (Emission Sources S0002), and has also approved the NOx RACT variance of 3.5 gm/bhp-hr on the Coltec IC engine (Emission Sources S0003) that failed to meet the 2.3 gm/bhp-hr NOx emission limit on oil firing during the December 2010 stack testing. Coltec #2 IC engine (Emission Sources S0002) tested 2.7 gm/bhp-hr of NOx, and Coltec #3 IC engine (Emission Sources S0003) tested 3.3 gm/bhp-hr of NOx.

This condition applies to the Coltec #3 IC engine (Emission Source S0003). This is a diesel compression ignition engine that is required to comply with the 2.3 gm/bhp-hr NOx limit or apply for a NOx variance.

Manufacturer Name/Model Number: 20.2 MM Btu/hr COLTEC, M/N 38 ETDD 8-1/8
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 3.5 grams per brake horsepower-hour
Reference Test Method: 40 CFR 60 Appendix A - Method 7, 7E, or 19
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 42: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 6 NYCRR 227-2.4 (f) (3)

Item 42.1:

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



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Emission Unit: U-00001
Process: B02

Emission Point: E0001
Emission Source: S0005

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

Item 43.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

CEMS is an OPTIONAL requirement. The facility may choose to perform emissions testing once during the term of the permit instead of CEMS.

CEMS Requirements:

This is an optional condition for the 68.4 MM Btu/hr Cleaver-Brooks boiler (Emission Source S0005).

The owner/operator of a mid-size boiler (Emission Source S0005 - the 68.4 MM Btu/hr Cleaver-Brooks boiler) may opt to employ a continuous emissions monitoring system (CEMS), or equivalent, in lieu of the monitoring requirements to perform compliance stack (emission) tests as described in subdivision (c) of this section in order to verify the NO_x emission limit compliance. Those owners/operators of mid-size boilers which opt to monitor emissions with a CEMS or equivalent shall follow the requirements of subdivision (b) of this section to demonstrate compliance, including a 24 hour daily arithmetic average NO_x emission rate.

This condition is the approved NO_x RACT Variance of 0.12 pounds per million Btus and applies to the 68.4 MM Btu/hr Cleaver-Brooks boiler (Emission Source S0005).

Manufacturer Name/Model Number: CEMSfor the CLEAVER-BROOKS DL-76-RH

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.12 pounds per million Btus

Reference Test Method: METHOD 7, 7E or 19

Monitoring Frequency: CONTINUOUS

Averaging Method: 24 HOUR DAILY AVERAGE (ARITHMETIC MEAN
- APP. A, METHOD 19)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2016.

Subsequent reports are due every 3 calendar month(s).

Condition 44: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021



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

Item 44.1:

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

Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0003

Emission Unit: U-00001 Emission Point: E0001
Process: BNG Emission Source: S0003

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

Item 44.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The Department has approved the NO_x RACT variance of 2.8 gm/bhp-hr on the Coltec IC engine (Emission Sources S0002), and has also approved the NO_x RACT variance of 3.5 gm/bhp-hr on the Coltec IC engine (Emission Sources S0003). Both of these two internal combustion engines have failed to meet the 2.3 gm/bhp-hr NO_x emission limit on oil firing during the December 2010 stack testing. Coltec #2 IC engine (Emission Sources S0002) tested 2.7 gm/bhp-hr of NO_x, and Coltec #3 IC engine (Emission Sources S0003) tested 3.3 gm/bhp-hr of NO_x.

Montefiore Medical Center investigated the available options for reducing the NO_x emission limit, but the economic impact for reducing NO_x was determined to be not feasible. A NO_x RACT analysis based on Airguide-20 was conducted and the report was submitted to the Department.

The three COLTEC stationary internal combustion engines (Emission Sources S0001, S0002 & S0003) in Emission Unit U-00001, are 13.5 MM Btu/hr, 13.5 MM Btu/hr and 20.2 MM Btu/hr each; respectively. These three engines fire both natural gas (Process BNG) and # 2 fuel oil (Process B01), are lean burn internal combustion engines with compression ignition source. Stack testing will be required in order to demonstrate compliance with the NO_x RACT emission limit regulatory standard of 2.3 grams per brake horsepower-hour beginning April 1, 2005, for lean burn internal combustion engines with compression ignition source.

This condition applies to the Coltec #3 IC engine



(Emission Source S0003). This is a diesel compression ignition engine that is required to comply with the 2.3 gm/bhp-hr NO_x limit or apply for a NO_x variance.

CEMS is an OPTIONAL requirement. The facility may choose to perform emissions testing once during the term of the permit instead of CEMS.

(b) CEMS Requirements:

(1) The owner or operator of a source subject to paragraph (a)(1), (2), or (5) of this section that is obligated to submit a compliance plan required under section 227-2.3(a) and (b) of this Subpart must submit for department approval:

(i) a preliminary CEMS plan as part of the compliance plan if it has a CEMS in place, or are in the process of procuring or installing a CEMS;

(ii) a preliminary CEMS plan at least 180 days prior to equipment installation. The department will notify the owner or operator of the acceptability of the plan, at least 60 days prior to equipment installation if it is not covered under subparagraph (i) of this paragraph; or

(iii) a proposed equivalent monitoring plan.

(2) The owner or operator of a source subject to paragraph (a)(1), (2) or (5) of this section that is obligated to submit a compliance plan required under section 227-2.3(a) and (b) of this Subpart must submit a CEMS certification protocol at least 60 days prior to compliance testing. The location of and specifications for each instrument or device, as well as procedures for calibration, operation, data evaluation and data reporting, must be approved by the department.

(3) The owner or operator of a stationary internal combustion engine (source) subject to paragraph (a)(1), (2) or (5) of this section must install, calibrate, maintain, and operate a CEMS for measuring NO_x at locations approved in the CEMS certification protocol under paragraph (2) of this subdivision, and must record the output of each such system. The following procedures and test methods must be used for determining compliance with the appropriate NO_x emission limit under section 227-2.4 of this Subpart:

(i) The owner or operator of a source subject to paragraphs (a)(1) and (2) of this section must:

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(a) calculate all 24-hour daily heat input weighted average NO_x emission rates from block hourly arithmetic emission rate averages calculated by the CEMS and expressed in terms of pounds of NO_x per million Btu;

(b) demonstrate compliance with the appropriate emission limit under section 227-2.4 of this Subpart by using a CEMS for measuring NO_x and calculating a 24-hour daily heat input-weighted average NO_x emission rate using 40 CFR part 60, Appendix A, Method 19 for non-turbine sources. A 30-day rolling heat input-weighted average emission rate may be used to demonstrate compliance with the appropriate emission limit under section 227-2.4 of this Subpart from October 1 to April 30 for non-turbine sources; and

(c) determine the 24-hour daily heat input-weighted average NO_x emission rate based on the heat input-weighted average of the block hourly arithmetic average emission rates during each 24-hour daily period from 12:00 midnight to 12:00 midnight the following day using CEMS data. The block hourly heat input-weighted average emission rate must be calculated for each one hour period starting with the period 12:00 midnight to 1:00 a.m. and continuing through until the last period 11:00 p.m. to 12:00 midnight; or starting with the period 12:00 noon to 1:00 p.m. and continuing through the last period 11:00 a.m. to 12:00 noon. The 30-day rolling heat input-weighted average must be the average of the 24-hour daily heat input-weighted NO_x emission rate.

Manufacturer Name/Model Number: CEMS

Upper Permit Limit: 3.5 grams per brake horsepower-hour

Reference Test Method: Appendix A, Method 19

Monitoring Frequency: CONTINUOUS

Averaging Method: 24 HOUR BLOCK AVERAGE (ARITHMETIC MEAN)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2016.

Subsequent reports are due every 3 calendar month(s).

Condition 45: Compliance Certification

Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 45.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

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Emission Unit: U-00001
Process: B01

Emission Point: E0001
Emission Source: S0002

Emission Unit: U-00001
Process: BNG

Emission Point: E0001
Emission Source: S0002

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

Item 45.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The Department has approved the NOx RACT variance of 2.8 gm/bhp-hr on the Coltec IC engine (Emission Sources S0002), and has also approved the NOx RACT variance of 3.5 gm/bhp-hr on the Coltec IC engine (Emission Sources S0003). Both of these two internal combustion engines have failed to meet the 2.3 gm/bhp-hr NOx emission limit on oil firing during the December 2010 stack testing. Coltec #2 IC engine (Emission Sources S0002) tested 2.7 gm/bhp-hr of NOx, and Coltec #3 IC engine (Emission Sources S0003) tested 3.3 gm/bhp-hr of NOx.

Montefiore Medical Center investigated the available options for reducing the NOx emission limit, but the economic impact for reducing NOx was determined to be not feasible. A NOx RACT analysis based on Airguide-20 was conducted and the report was submitted to the Department.

The three COLTEC stationary internal combustion engines (Emission Sources S0001, S0002 & S0003) in Emission Unit U-00001, are 13.5 MM Btu/hr, 13.5 MM Btu/hr and 20.2 MM Btu/hr each; respectively. These three engines fire both natural gas (Process BNG) and # 2 fuel oil (Process B01), are lean burn internal combustion engines with compression ignition source. Stack testing will be required in order to demonstrate compliance with the NOx RACT emission limit regulatory standard of 2.3 grams per brake horsepower-hour beginning April 1, 2005, for lean burn internal combustion engines with compression ignition source.

This condition applies to the Coltec #2 IC engine (Emission Source S0002). This is a diesel compression ignition engine that is required to comply with the 2.3 gm/bhp-hr NOx limit or apply for a NOx variance.

CEMS is an OPTIONAL requirement. The facility may choose to perform emissions testing once during the term of the permit instead of CEMS.



(b) CEMS Requirements:

(1) The owner or operator of a source subject to paragraph (a)(1), (2), or (5) of this section that is obligated to submit a compliance plan required under section 227-2.3(a) and (b) of this Subpart must submit for department approval:

(i) a preliminary CEMS plan as part of the compliance plan if it has a CEMS in place, or are in the process of procuring or installing a CEMS;

(ii) a preliminary CEMS plan at least 180 days prior to equipment installation. The department will notify the owner or operator of the acceptability of the plan, at least 60 days prior to equipment installation if it is not covered under subparagraph (i) of this paragraph; or

(iii) a proposed equivalent monitoring plan.

(2) The owner or operator of a source subject to paragraph (a)(1), (2) or (5) of this section that is obligated to submit a compliance plan required under section 227-2.3(a) and (b) of this Subpart must submit a CEMS certification protocol at least 60 days prior to compliance testing. The location of and specifications for each instrument or device, as well as procedures for calibration, operation, data evaluation and data reporting, must be approved by the department.

(3) The owner or operator of a stationary internal combustion engine (source) subject to paragraph (a)(1), (2) or (5) of this section must install, calibrate, maintain, and operate a CEMS for measuring NO_x at locations approved in the CEMS certification protocol under paragraph (2) of this subdivision, and must record the output of each such system. The following procedures and test methods must be used for determining compliance with the appropriate NO_x emission limit under section 227-2.4 of this Subpart:

(i) The owner or operator of a source subject to paragraphs (a)(1) and (2) of this section must:

(a) calculate all 24-hour daily heat input weighted average NO_x emission rates from block hourly arithmetic emission rate averages calculated by the CEMS and expressed in terms of pounds of NO_x per million Btu;

(b) demonstrate compliance with the appropriate



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emission limit under section 227-2.4 of this Subpart by using a CEMS for measuring NOx and calculating a 24-hour daily heat input-weighted average NOx emission rate using 40 CFR part 60, Appendix A, Method 19 for non-turbine sources. A 30-day rolling heat input-weighted average emission rate may be used to demonstrate compliance with the appropriate emission limit under section 227-2.4 of this Subpart from October 1 to April 30 for non-turbine sources; and

(c) determine the 24-hour daily heat input-weighted average NOx emission rate based on the heat input-weighted average of the block hourly arithmetic average emission rates during each 24-hour daily period from 12:00 midnight to 12:00 midnight the following day using CEMS data. The block hourly heat input-weighted average emission rate must be calculated for each one hour period starting with the period 12:00 midnight to 1:00 a.m. and continuing through until the last period 11:00 p.m. to 12:00 midnight; or starting with the period 12:00 noon to 1:00 p.m. and continuing through the last period 11:00 a.m. to 12:00 noon. The 30-day rolling heat input-weighted average must be the average of the 24-hour daily heat input-weighted NOx emission rate.

Manufacturer Name/Model Number: CEMS
Upper Permit Limit: 2.8 grams per brake horsepower-hour
Reference Test Method: Appendix A, Method 19
Monitoring Frequency: CONTINUOUS
Averaging Method: 24 HOUR BLOCK AVERAGE (ARITHMETIC MEAN)
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 10/30/2016.
Subsequent reports are due every 3 calendar month(s).

Condition 46: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 46.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0001

Emission Unit: U-00001 Emission Point: E0001
Process: BNG Emission Source: S0001

Regulated Contaminant(s):



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Item 46.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The three COLTEC stationary internal combustion engines (Emission Sources S0001, S0002 & S0003) in Emission Unit U-00001, are 13.5 MM Btu/hr, 13.5 MM Btu/hr and 20.2 MM Btu/hr each; respectively. These three engines fire both natural gas (Process BNG) and # 2 fuel oil (Process B01), are lean burn internal combustion engines with compression ignition source. Stack testing will be required in order to demonstrate compliance with the NO_x RACT emission limit regulatory standard of 2.3 grams per brake horsepower-hour beginning April 1, 2005, for lean burn internal combustion engines with compression ignition source.

This condition applies to the Coltec #1 IC engine (Emission Source S0001). This is a diesel compression ignition engine that is required to comply with the 2.3 gm/bhp-hr NO_x limit. This engine has met the 2.3 gm/bhp-hr NO_x emission limit on oil firing during the December 2010 stack testing.

CEMS is an OPTIONAL requirement. The facility may choose to perform emissions testing once during the term of the permit instead of CEMS.

(b) CEMS Requirements:

(1)The owner or operator of a source subject to paragraph (a)(1), (2), or (5) of this section that is obligated to submit a compliance plan required under section 227-2.3(a) and (b) of this Subpart must submit for department approval:

(i) a preliminary CEMS plan as part of the compliance plan if it has a CEMS in place, or are in the process of procuring or installing a CEMS;

(ii) a preliminary CEMS plan at least 180 days prior to equipment installation. The department will notify the owner or operator of the acceptability of the plan, at least 60 days prior to equipment installation if it is not covered under subparagraph (i) of this paragraph; or

(iii) a proposed equivalent monitoring plan.

(2)The owner or operator of a source subject to paragraph (a)(1), (2) or (5) of this section that is obligated to



submit a compliance plan required under section 227-2.3(a) and (b) of this Subpart must submit a CEMS certification protocol at least 60 days prior to compliance testing.

The location of and specifications for each instrument or device, as well as procedures for calibration, operation, data evaluation and data reporting, must be approved by the department.

(3) The owner or operator of a stationary internal combustion engine (source) subject to paragraph (a)(1), (2) or (5) of this section must install, calibrate, maintain, and operate a CEMS for measuring NO_x at locations approved in the CEMS certification protocol under paragraph (2) of this subdivision, and must record the output of each such system. The following procedures and test methods must be used for determining compliance with the appropriate NO_x emission limit under section 227-2.4 of this Subpart:

(i) The owner or operator of a source subject to paragraphs (a)(1) and (2) of this section must:

(a) calculate all 24-hour daily heat input weighted average NO_x emission rates from block hourly arithmetic emission rate averages calculated by the CEMS and expressed in terms of pounds of NO_x per million Btu;

(b) demonstrate compliance with the appropriate emission limit under section 227-2.4 of this Subpart by using a CEMS for measuring NO_x and calculating a 24-hour daily heat input-weighted average NO_x emission rate using 40 CFR part 60, Appendix A, Method 19 for non-turbine sources. A 30-day rolling heat input-weighted average emission rate may be used to demonstrate compliance with the appropriate emission limit under section 227-2.4 of this Subpart from October 1 to April 30 for non-turbine sources; and

(c) determine the 24-hour daily heat input-weighted average NO_x emission rate based on the heat input-weighted average of the block hourly arithmetic average emission rates during each 24-hour daily period from 12:00 midnight to 12:00 midnight the following day using CEMS data. The block hourly heat input-weighted average emission rate must be calculated for each one hour period starting with the period 12:00 midnight to 1:00 a.m. and continuing through until the last period 11:00 p.m. to 12:00 midnight; or starting with the period 12:00 noon to 1:00 p.m. and continuing through the last period 11:00 a.m. to 12:00 noon. The 30-day rolling heat input-weighted average must be the average of the 24-hour

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daily heat input-weighted NOx emission rate.

Manufacturer Name/Model Number: CEMS

Upper Permit Limit: 2.3 grams per brake horsepower-hour

Reference Test Method: Appendix A, Method 19

Monitoring Frequency: CONTINUOUS

Averaging Method: 24 HOUR BLOCK AVERAGE (ARITHMETIC MEAN)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2016.

Subsequent reports are due every 3 calendar month(s).

Condition 47: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 47.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001
Process: B01

Emission Point: E0001
Emission Source: S0004

Emission Unit: U-00001
Process: BNG

Emission Point: E0001
Emission Source: S0004

Regulated Contaminant(s):

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

Item 47.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

CEMS is an OPTIONAL requirement. The facility may choose to perform emissions testing once during the term of the permit instead of CEMS.

Montefiore Medical Center is required to perform testing the mid-size boiler (Emission Source S0004 - the 98 MM Btu/hr Babcock & Wilcox FM 106 boiler) to verify the NOx emission limit compliance. The 98 MM Btu/hr Babcock Wilcox FM 106 boiler operates on distillate oil (Process B01) and on natural gas (BNG).

In order to meet the NOx RACT requirement of 0.08 lbs/MM Btu for the 98 MM Btu/hr Babcock & Wilcox boiler (Emission Source S0004), the boiler was retrofitted with low NOx burner and FGR (Flue Gas Recirculation) system. The retrofit was completed by December 9, 2015 and the

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emissions test was completed on 12/22/2015 and 12/23/2015.

The owner/operator of mid-size boilers (> 50 and equal to or <100 MM Btu/hr) boilers operating on distillate oil/natural gas have a limit of 0.08 pounds of NOx per million Btus under the NOx RACT plan for mid-size boilers.

(c) Emission test requirements.

The owner or operator of an emission source required to conduct an emission test under subdivision (a) of this section must:

1. submit a compliance test protocol to the department for approval at least 30 days prior to emission testing. The conditions of the testing and the locations of the sampling devices must be acceptable to the department; and
2. follow the procedures set forth in Part 202 of this Title and use the following procedures set forth in 40 CFR part 60, appendix A, or any other method acceptable to the department and the administrator for determining compliance with the appropriate NOx limit in section 227-2.4 of this Subpart:
 - i. For mid-size boilers (> 50 and equal to or <100 MM Btu/hr) boilers, utilize Method 7, 7E, or 19 from 40 CFR Part 60, Appendix A or another reference method approved by the department.
3. submit a compliance test report containing the results of the emission test to the department for approval no later than 60 days after the completion of the emission test.

Manufacturer Name/Model Number: CEMS for the Babcock & Wilcox FM 106 boiler

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.08 pounds per million Btus

Reference Test Method: Method 7, 7E or 19

Monitoring Frequency: CONTINUOUS

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 11/29/2016.

Subsequent reports are due every 3 calendar month(s).

Condition 48: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021



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and must follow the procedures set forth in Part 202 of this Title.

i. For mid-size boilers (> 50 and equal to or <100 MM Btu/hr) boilers, utilize Method 7, 7E, or 19 from 40 CFR Part 60, Appendix A or another reference method approved by the department.

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

This condition is the approved NOx RACT Variance of 0.12 pounds per million Btus and applies to the 68.4 MM Btu/hr Cleaver-Brooks boiler (Emission Source S0005).

Manufacturer Name/Model Number: CEMS for the CLEAVER-BROOKS DL-76-RH
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 0.12 pounds per million Btus
Reference Test Method: METHOD 7, 7E or 19
Monitoring Frequency: CONTINUOUS
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 60 days after the reporting period.
The initial report is due 11/29/2016.
Subsequent reports are due every 3 calendar month(s).

Condition 49: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 49.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0003

Emission Unit: U-00001 Emission Point: E0001
Process: BNG Emission Source: S0003

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

Item 49.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
The Department has approved the NOx RACT variance of 2.8



gm/bhp-hr on the Coltec IC engine (Emission Sources S0002), and has also approved the NOx RACT variance of 3.5 gm/bhp-hr on the Coltec IC engine (Emission Sources S0003). Both of these two internal combustion engines have failed to meet the 2.3 gm/bhp-hr NOx emission limit on oil firing during the December 2010 stack testing. Coltec #2 IC engine (Emission Sources S0002) tested 2.7 gm/bhp-hr of NOx, and Coltec #3 IC engine (Emission Sources S0003) tested 3.3 gm/bhp-hr of NOx.

Montefiore Medical Center investigated the available options for reducing the NOx emission limit, but the economic impact for reducing NOx was determined to be not feasible. A NOx RACT analysis based on Airguide-20 was conducted and the report was submitted to the Department.

The three COLTEC stationary internal combustion engines (Emission Sources S0001, S0002 & S0003) in Emission Unit U-00001, are 13.5 MM Btu/hr, 13.5 MM Btu/hr and 20.2 MM Btu/hr each; respectively. These three engines fire both natural gas (Process BNG) and # 2 fuel oil (Process B01), are lean burn internal combustion engines with compression ignition source. Stack testing will be required in order to demonstrate compliance with the NOx RACT emission limit regulatory standard of 2.3 grams per brake horsepower-hour beginning April 1, 2005, for lean burn internal combustion engines with compression ignition source.

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

1. submit compliance test protocol to the department for approval at least 30 days prior to emission testing. The conditions of the testing and the locations of the sampling devices must be acceptable to the department; and
2. utilize the following procedures set forth in 40 CFR part 60, Appendix A or any other method acceptable to the department and the Administrator for determining compliance with the appropriate NOx limit in section 227-2.4 of this Subpart, and must, in addition, follow the procedures set forth in Part 202 of this Title:
3. for stationary internal combustion engines, utilize Method 7, 7E, or 19 from 40 CFR part 60, Appendix A or

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another reference method approved by the department.

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

This condition applies to the Coltec #3 IC engine (Emission Source S0003). This is a diesel compression ignition engine that is required to comply with the 2.3 gm/bhp-hr NOx limit or apply for a NOx variance.

Manufacturer Name/Model Number: 20.2 MM Btu/hr COLTEC, M/N 38 ETDD 8-1/8

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 3.5 grams per brake horsepower-hour

Reference Test Method: 40 CFR 60 Appendix A - Method 7, 7E, or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 50: Compliance Certification

Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 50.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001

Process: B01

Emission Point: E0001

Emission Source: S0002

Emission Unit: U-00001

Process: BNG

Emission Point: E0001

Emission Source: S0002

Regulated Contaminant(s):

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

Item 50.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The Department has approved the NOx RACT variance of 2.8 gm/bhp-hr on the Coltec IC engine (Emission Sources S0002), and has also approved the NOx RACT variance of 3.5 gm/bhp-hr on the Coltec IC engine (Emission Sources S0003). Both of these two internal combustion engines have failed to meet the 2.3 gm/bhp-hr NOx emission limit on oil firing during the December 2010 stack testing. Coltec #2 IC engine (Emission Sources S0002) tested 2.7 gm/bhp-hr of NOx, and Coltec #3 IC engine (Emission



Sources S0003) tested 3.3 gm/bhp-hr of NO_x.

Montefiore Medical Center investigated the available options for reducing the NO_x emission limit, but the economic impact for reducing NO_x was determined to be not feasible. A NO_x RACT analysis based on Airguide-20 was conducted and the report was submitted to the Department.

The three COLTEC stationary internal combustion engines (Emission Sources S0001, S0002 & S0003) in Emission Unit U-00001, are 13.5 MM Btu/hr, 13.5 MM Btu/hr and 20.2 MM Btu/hr each; respectively. These three engines fire both natural gas (Process BNG) and # 2 fuel oil (Process B01), are lean burn internal combustion engines with compression ignition source. Stack testing will be required in order to demonstrate compliance with the NO_x RACT emission limit regulatory standard of 2.3 grams per brake horsepower-hour beginning April 1, 2005, for lean burn internal combustion engines with compression ignition source.

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

1. submit compliance test protocol to the department for approval at least 30 days prior to emission testing. The conditions of the testing and the locations of the sampling devices must be acceptable to the department; and
2. utilize the following procedures set forth in 40 CFR part 60, Appendix A or any other method acceptable to the department and the Administrator for determining compliance with the appropriate NO_x limit in section 227-2.4 of this Subpart, and must, in addition, follow the procedures set forth in Part 202 of this Title:
3. for stationary internal combustion engines, utilize Method 7, 7E, or 19 from 40 CFR part 60, Appendix A or another reference method approved by the department.
4. submit a compliance test report containing the results of the emission test to the department no later than 60 days after completion of the emission test.

This condition applies to the Coltec #2 IC engine (Emission Source S0002). This is a diesel compression



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ignition engine that is required to comply with the 2.3 gm/bhp-hr NOx limit or apply for a NOx variance.

Manufacturer Name/Model Number: 13.5 MM Btu/hr COLTEC, M/N 38 ETDD 8-1/8

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 2.8 grams per brake horsepower-hour

Reference Test Method: 40 CFR 60 Appendix A - Method 7, 7E, or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 51: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 51.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0001

Emission Unit: U-00001 Emission Point: E0001
Process: BNG Emission Source: S0001

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

Item 51.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The three COLTEC stationary internal combustion engines (Emission Sources S0001, S0002 & S0003) in Emission Unit U-00001, are 13.5 MM Btu/hr, 13.5 MM Btu/hr and 20.2 MM Btu/hr each; respectively. These three engines fire both natural gas (Process BNG) and # 2 fuel oil (Process B01), are lean burn internal combustion engines with compression ignition source. Stack testing will be required in order to demonstrate compliance with the NOx RACT emission limit regulatory standard of 2.3 grams per brake horsepower-hour beginning April 1, 2005, for lean burn internal combustion engines with compression ignition source.

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

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The stack testing for NO_x emission requires the facility to:

1. submit compliance test protocol to the department for approval at least 30 days prior to emission testing. The conditions of the testing and the locations of the sampling devices must be acceptable to the department; and
2. utilize the following procedures set forth in 40 CFR part 60, Appendix A or any other method acceptable to the department and the Administrator for determining compliance with the appropriate NO_x limit in section 227-2.4 of this Subpart, and must, in addition, follow the procedures set forth in Part 202 of this Title:
3. for stationary internal combustion engines, utilize Method 7, 7E, or 19 from 40 CFR part 60, Appendix A or another reference method approved by the department.
4. submit a compliance test report containing the results of the emission test to the department no later than 60 days after completion of the emission test.

This condition applies to the Coltec #1 IC engine (Emission Source S0001). This is a diesel compression ignition engine that is required to comply with the 2.3 gm/bhp-hr NO_x limit. This engine has met the 2.3 gm/bhp-hr NO_x emission limit on oil firing during the December 2010 stack testing.

Manufacturer Name/Model Number: 13.5 MM Btu/hr COLTEC, M/N 38 ETDD 8-1/8

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 2.3 grams per brake horsepower-hour

Reference Test Method: 40 CFR 60 Appendix A - Method 7, 7E, or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 52: Modifications.

Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 40CFR 60.14, NSPS Subpart A

Item 52.1:

Within 180 days of the completion of any physical or operational change (as defined in section 60.14), compliance with the applicable standards must be achieved.

Condition 53: Reconstruction

Effective between the dates of 08/01/2016 and 07/31/2021



Applicable Federal Requirement:40CFR 60.15, NSPS Subpart A

Item 53.1:

The following shall be submitted to the Administrator prior to reconstruction (as defined in section 60.15):

- 1) a notice of intent to reconstruct 60 days prior to the action;
- 2) name and address of the owner or operator;
- 3) the location of the existing facility;
- 4) a brief description of the existing facility and the components to be replaced;
- 5) a description of the existing air pollution control equipment and the proposed air pollution control equipment;
- 6) an estimate of the fixed capital cost of the replacements and of constructing a comparable entirely new facility;
- 7) the estimated life of the facility after the replacements; and
- 8) a discussion of any economic or technical limitations the facility may have in complying with the applicable standards of performance after the proposed replacements.

**Condition 54: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021**

Applicable Federal Requirement:40CFR 60.334, NSPS Subpart GG

Item 54.1:

The Compliance Certification activity will be performed for the Facility.

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

Item 54.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

This condition is a NSPS condition, which specifies monitoring of operations for turbines. This condition requires facilities to monitor fuel sulfur on a per delivery basis for distillate oil. Or the facilities can come up with an alternative schedule for distillate oil monitoring that will need USEPA's approval.

In accordance with the requirements set forth in 40 CFR 60.334 and 60.335 for the turbines, Montefiore Medical Center will be required to analyze its distillate fuel for

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sulfur content on a per delivery basis. Montefiore Medical Center is limiting the distillate oil sulfur content to 0.003 percent by weight. Montefiore Medical Center will submit fuel oil sulfur contents per each delivery on a quarterly basis. Or Montefiore Medical Center can come up with an alternative schedule (less frequent) monitoring that will need USEPA's approval. And once the alternative monitoring plan is approved by USEPA, it will be attached to the permit.

The facility will use commercially available distillate fuel oil (very low sulfur, 0.003 percent by weight). The permit limits for the sulfur content of the oil are much less than the current legal limits for sale of this product in the New York City area. The oil supplier will provide the required distillate oil analysis per each delivery.

As recommended by the GOALLINE SCONOX manufacturer (the catalytic reduction, Emission Control ES008 for Emission Sources ES006 & ES007), Montefiore Medical Center will use a fuel oil containing a maximum of 0.003 % by weight sulfur, it is designated as Ultra Low Sulfur Diesel (ULSD). This is the fuel that has been developed to meet the EPA Heavy Duty Highway Engines and Vehicles Standards due to take effect with the 2007 model year.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.003 percent by weight

Reference Test Method: ASTM D 2622

Monitoring Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2016.

Subsequent reports are due every 3 calendar month(s).

Condition 55: Compliance Certification

Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 40CFR 63. Table(2)(d), Subpart ZZZZ

Item 55.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001

Emission Point: E0001

Process: B01

Emission Source: S0001



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Emission Unit: U-00001
Process: B01

Emission Point: E0001
Emission Source: S0002

Emission Unit: U-00001
Process: B01

Emission Point: E0001
Emission Source: S0003

Emission Unit: U-00001
Process: BNG

Emission Point: E0001
Emission Source: S0001

Emission Unit: U-00001
Process: BNG

Emission Point: E0001
Emission Source: S0002

Emission Unit: U-00001
Process: BNG

Emission Point: E0001
Emission Source: S0003

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 55.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The three Coltec Internal Combustion engines (Emission sources S0001, S0002 & S0003) are 2 stroke lean burn compression ignition non-emergency engines > 500 hp located at an area source for HAPs. The emissions from the 3 Coltec engines are controlled by an oxidation catalyst.

As stated in 40 CFR 63.6600 and 63.6640, facility owners and operators must comply with the following emission and operating limitations for existing compression ignition stationary RICE:

- a. Change oil and filter every 4,320 hours of operation or annually, whichever comes first;
- b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first, and replace as necessary; and
- c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2017.

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

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Condition 56: Compliance Certification

Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 63.6585, Subpart ZZZZ

Item 56.1:

The Compliance Certification activity will be performed for the Facility.

Item 56.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This condition applies to the 10 exempt emergency generators at the facility.

The facility operates stationary RICEs at an area source of HAP emissions, it is therefore applicable to the requirements of Subpart ZZZZ. Specifically, all an existing stationary RICEs with a site rating of greater than 500 brake HP located at the site.

The facility shall keep a list of all engines applicable to the regulation, locations of each engine and a list of the hours of operation; updated semi-annually.

All 3 Coltec Internal Combustion engines (Emission Sources S0001, S0002 & S0003) are 2 stroke lean burn compression ignition non-emergency engines > 500 hp located at an area source for HAPs. The emissions from the 3 Coltec engines are controlled by an oxidation catalyst. These engines are subject to work practices listed in Table 2d of Subpart ZZZZ of the MACT.

There is no limit on the operating hours per engine. These engines are required to reduce the Carbon Monoxide emissions and the CO reduction systems (oxidation catalyst) are required to be installed and operated. Other Subpart ZZZZ related maintenance requirements will be performed (oil change, filters, tune-up, etc.)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2017.

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

Condition 57: Compliance Certification

Effective between the dates of 08/01/2016 and 07/31/2021



Applicable Federal Requirement:40CFR 63.6603(a), Subpart ZZZZ

Item 57.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0001
Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0002
Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0003
Emission Unit: U-00001 Process: BNG	Emission Point: E0001 Emission Source: S0001
Emission Unit: U-00001 Process: BNG	Emission Point: E0001 Emission Source: S0002
Emission Unit: U-00001 Process: BNG	Emission Point: E0001 Emission Source: S0003
Regulated Contaminant(s): CAS No: 000630-08-0	CARBON MONOXIDE

Item 57.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The owner or operator of an existing non-emergency, non-black start compression ignition stationary RICE with a site rating greater than 500 brake horsepower located at an area source of HAP emissions must either limit the concentration of CO or reduce CO emissions.

The concentration limit for CO is 23 ppmvd or less at 15% oxygen based on the average of three 1-hour runs, or reduce CO emissions by 70%, whichever is less stringent.

The facility must also meet the applicable operating limits listed in table 2b of subpart ZZZZ.

Initial compliance will be demonstrated according to the provisions in 40 CFR 63.6630.

Subsequent performance tests will be required as specified in 40 CFR 63.6615, which requires performance tests to be conducted according to the provisions in 40 CFR 63.6620



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Emission Unit: U-00001
Process: BNG

Emission Point: E0001
Emission Source: S0001

Emission Unit: U-00001
Process: BNG

Emission Point: E0001
Emission Source: S0002

Emission Unit: U-00001
Process: BNG

Emission Point: E0001
Emission Source: S0003

Item 59.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Reciprocating Internal Combustion Engine (RICE) NESHAP -
Subsequent Performance Tests.

If you must comply with the emission limitations and operating limitations, you must conduct subsequent performance tests as specified in Table 3 of this subpart.

For each existing, non-emergency, non-black start Compression Ignition (CI) stationary RICE > 500 HP that are not limited use stationary RICE, for compliance with this requirement, the facility will limit or reduce CO emissions and not use a CEMs, then the facility is required to conduct subsequent performance tests every 8,760 hours or 3 years, whichever comes first.

This condition applies to the three Coltec internal combustion engines (Emission Sources S0001, S0002 & S0003). These three engines are 2 stroke lean burn non-emergency Compression Ignited RICE >500 hp located at an area source for HAPs. The emissions from the 3 Coltec engines are controlled by an oxidation catalyst. Engines 1 (Emission Source S0001) & Engine 2 (Emission Source S0002) are identical and are 6 cylinders and 2,205 bhp each, while Engine 3 (Emission Source S0003) are 9 cylinders and 3,308 bhp. The displacement of each cylinder in the three internal combustion engines is 1,037 cubic inches per cylinder or 1699 liters per cylinder.

The Coltec internal combustion engines, Emission Sources S0001 & S0002 are 13.5 MM Btu/hr each:

$$13.5 \text{ MM Btu/hr} \times (1 \text{ hp}/2,544.43 \text{ Btu/hr}) = 5,305.71 \text{ hp}$$

$$13.5 \text{ MM Btu/hr} \times (1 \text{ KW}/3,412.142 \text{ Btu/hr}) = 3,956.46 \text{ KW}$$



The Coltec internal combustion engine, Emission Source S0003 is 20.2 MM Btu/hr:

$$20.2 \text{ MM Btu/hr} \times (1 \text{ hp}/2,544.43 \text{ Btu/hr}) = 7,938.91$$

$$20.2 \text{ MM Btu/hr} \times (1 \text{ KW}/3,412.142 \text{ Btu/hr}) = 5,920.04 \text{ KW}$$

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 60: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 63.6625(e), Subpart ZZZZ

Item 60.1:

The Compliance Certification activity will be performed for the Facility.

Item 60.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of any of the following stationary RICE must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions:

- (1) An existing stationary RICE with a site rating of less than 100 brake horsepower located at a major source of HAP emissions;
- (2) An existing emergency or black start stationary RICE with a site rating of less than or equal to 500 brake horsepower located at a major source of HAP emissions;
- (3) An existing emergency or black start stationary RICE located at an area source of HAP emissions;
- (4) An existing non-emergency, non-black start stationary compression ignition RICE with a site rating less than or equal to 300 brake horsepower located at an area source of HAP emissions;

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(5) An existing non-emergency, non-black start 2 stroke lean burn stationary RICE located at an area source of HAP emissions;

(6) An existing non-emergency, non-black start stationary RICE located at an area source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis;

(7) An existing non-emergency, non-black start 4 stroke lean burn stationary RICE with a site rating less than or equal to 500 brake horsepower located at an area source of HAP emissions;

(8) An existing non-emergency, non-black start 4 stroke rich burn stationary RICE with a site rating less than or equal to 500 brake horsepower located at an area source of HAP emissions;

(9) An existing, non-emergency, non-black start 4 stroke lean burn stationary RICE with a site rating greater than 500 brake horsepower located at an area source of HAP emissions that is operated 24 hours or less per calendar year; and

(10) An existing, non-emergency, non-black start 4 stroke rich burn stationary RICE with a site rating greater than 500 brake horsepower located at an area source of HAP emissions that is operated 24 hours or less per calendar year.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 61: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 63.6640, Subpart ZZZZ

Item 61.1:

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

Emission Unit: U-00001
Process: B01

Emission Point: E0001
Emission Source: S0001

Emission Unit: U-00001
Process: B01

Emission Point: E0001
Emission Source: S0002

Emission Unit: U-00001
Process: B01

Emission Point: E0001
Emission Source: S0003



Applicable Federal Requirement:40CFR 63.6640(f), Subpart ZZZZ

Item 62.1:

The Compliance Certification activity will be performed for the Facility.

Item 62.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an emergency stationary RICE must operate the emergency stationary RICE according to the requirements in 40 CFR 63.6640(f)(1) through (4). In order for the engine to be considered an emergency stationary RICE under subpart ZZZZ, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR 63.6640(f)(1) through (4), is prohibited. If the owner or operator does not operate the engine according to the requirements in 40 CFR 63.6640(f)(1) through (4), the engine will not be considered an emergency engine under subpart ZZZZ and must meet all requirements for non-emergency engines.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 63: Compliance Certification

Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 63.6640(f), Subpart ZZZZ

Item 63.1:

The Compliance Certification activity will be performed for the Facility.

Item 63.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This condition applies to the ten (10) exempt emergency generators at the facility.

The owner or operator of an existing emergency stationary RICE with a site rating of less than or equal to 500 brake horsepower located at a major source of HAP emissions, a



new or reconstructed emergency stationary RICE with a site rating of more than 500 brake horsepower located at a major source of HAP emissions that was installed on or after June 12, 2006, or an existing emergency stationary RICE located at an area source of HAP emissions must operate the emergency stationary RICE according to the requirements in paragraphs (i) through (iii) below. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (i) through (iii) below, is prohibited. If you do not operate the engine according to the requirements in paragraphs (i) through (iii) below, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.

(i) There is no time limit on the use of emergency stationary RICE in emergency situations.

(ii) The facility may operate the emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the EPA Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year.

(iii) The facility may operate the emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency



condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph, as long as the power provided by the financial arrangement is limited to emergency power.

The facility will operate the ten (10) exempt emergency generators/engines such that the total operating hours per engine will not exceed the maximum operating hours of 100 hrs/yr. By this capping (of 100 hrs/yr per engine), the engines will NOT be required to reduce Carbon Monoxide emissions and CO reduction systems are NOT required to be installed. Other Subpart ZZZZ related maintenance requirements will be performed (oil change, filters, tune-up, etc.)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 64: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 63.6640(f), Subpart ZZZZ

Item 64.1:

The Compliance Certification activity will be performed for the Facility.

Item 64.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This condition applies to the ten (10) exempt emergency generators at the facility.

The owner or operator of an emergency stationary RICE with a site rating of more than 500 brake horsepower located at a major source of HAP emissions that was installed prior to June 12, 2006 must operate the engine according to the conditions described in paragraphs (i) through (iii) below. If he/she does not operate the engine according to the requirements in paragraphs (i) through (iii) below, the engine will not be considered an emergency engine



under subpart ZZZZ and will need to meet all requirements for non-emergency engines.

(i) There is no time limit on the use of emergency stationary RICE in emergency situations.

(ii) The facility may operate the emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by the manufacturer, the vendor, or the insurance company associated with the engine. Required testing of such units should be minimized, but there is no time limit on the use of emergency stationary RICE in emergency situations and for routine testing and maintenance.

(iii) The facility may operate the emergency stationary RICE for an additional 50 hours per year in non-emergency situations. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

The facility will operate these generators/engines such that the total operating hours per engine will not exceed the maximum operating hours of 100 hrs/yr. By this capping (of 100 hrs/yr per engine), the engines will NOT be required to reduce Carbon Monoxide emissions and CO reduction systems are NOT required to be installed. Other Subpart ZZZZ related maintenance requirements will be performed (oil change, filters, tune-up, etc.)

The ten (10) exempt emergency generators/engines at the facility fall under the definition of 6 NYCRR 201-6.5(c) - emergency defence provision and emergency generators as defined under 40 CFR 63.6640(f)(2)(iii). Therefore, the 100 hours exception for Subpart ZZZZ that does not require CO reduction, the 50 hours of the 100 hours may be used in exchange for monetary benefit. The balance of the 100 hours may be used for testing and inspection purposes.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 65: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 40CFR 63.6645, Subpart ZZZZ

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Item 65.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0001
Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0002
Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0003
Emission Unit: U-00001 Process: BNG	Emission Point: E0001 Emission Source: S0001
Emission Unit: U-00001 Process: BNG	Emission Point: E0001 Emission Source: S0002
Emission Unit: U-00001 Process: BNG	Emission Point: E0001 Emission Source: S0003

Item 65.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Reciprocating Internal Combustion Engine (RICE) NESHAP - Notification requirements

This condition sets forth the notification requirements for the owner or operator of an internal combustion engines at facilities with emissions of hazardous air pollutants.

This condition applies to the three Coltec internal combustion engines (Emission Sources S0001, S0002 & S0003). These three engines are 2 stroke lean burn non-emergency Compression Ignited RICE >500 hp located at an area source for HAPs. The emissions from the 3 Coltec engines are controlled by an oxidation catalyst.

MACT NOTIFICATIONS

Both the General Provisions of 40 CFR Part 63 and the regulations under the RICE standard, 40 CFR Part 63 Subpart ZZZZ, have testing and notification requirements. These regulations require that performance tests and continuous monitoring system (CMS) performance evaluations be conducted, and require the owner or operator to submit notifications of the dates when these tests are to be



conducted. When the notifications are submitted, site-specific protocols are also required to be submitted. The test results are due 60 days after completion.

(1) Pursuant to 40 CFR 63.9(b)(4)(v), the owner or operator must submit to the DEC and the EPA a notification of the actual date of startup, delivered or postmarked within 15 calendar days of that date.

(2) Pursuant to 40 CFR 63.8(c)(3), all CMS shall be installed, operational, and the data verified either prior to or in conjunction with conducting the performance tests under 40 CFR 63.7.

(3) Pursuant to 40 CFR 63.6645(c) and 40 CFR 63.9(b)(4), the owner or operator must submit an Initial Notification not later than 120 days after becoming subject to 40 CFR Part 63, Subpart ZZZZ.

(4) Pursuant to 40 CFR 63.45(e), 63.7(b)(1) and 63.9(e), the owner or operator must submit to the DEC and the EPA a Notification of Intent to conduct a performance test. Such notification shall be submitted at least 60 days before the performance test is scheduled to begin.

(5) Pursuant to 40 CFR 63.7(b)(2), the owner or operator shall submit to the DEC and the EPA a site specific test plan. Such report shall be submitted no later than 60 days before the performance test is to take place (simultaneously with the Notification of Intent to test).

(6) Pursuant to 40 CFR 63.8(e)(2) and 40 CFR 63.6625(b), the owner or operator shall submit to the DEC and the EPA a notification of the date of the continuous monitoring systems performance evaluation. Such notification shall be submitted no later than 60 days prior to conducting the evaluation.

(7) Pursuant to 40 CFR 63.8(e)(3)(iii), the owner or operator shall submit to the DEC and the EPA a site specific performance evaluation test plan for the continuous monitoring systems at the facility. Such plan shall be submitted at least 60 days before the performance evaluation is to be conducted, simultaneously with the notification.

(8) Pursuant to 40 CFR 63.6645(f) and 63.9, the owner or operator must submit a Notification of Compliance Status as follows:

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Monitoring Description:

MACT RECORDS

The owner or operator must keep the following records:

(1) A copy of each notification and report that was submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that was submitted, according to the requirement in 40 CFR 63.10(b)(2)(xiv).

(2) Records of performance tests and performance evaluations as required in Sec. 63.10(b)(2)(viii).

For each CEMS or CPMS, the owner or operator must keep:

(1) Records described in 40 CFR 63.10(b)(2)(vi) through (xi).

(2) Previous (i.e., superseded) versions of the performance evaluation plan as required in 40 CFR 63.8(d)(3).

The owner or operator must keep the records of catalyst inlet temperature (four hour rolling averages) and records of the monthly measurement of pressure drop across the catalyst.

On an annual basis, the owner or operator shall submit to the DEC a report stating whether he or she complied with this condition.

This condition applies to the 3 Coltec Internal Combustion engines (Emission Sources S0001, S0002 & S0003) that are 2 stroke lean burn compression ignition non-emergency engines > 500 hp located at an area source for HAPs. The emissions from the 3 Coltec engines are controlled by an oxidation catalyst.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2017.

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

Condition 67: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 40CFR 63.6655(b), Subpart ZZZZ

Item 67.1:

The Compliance Certification activity will be performed for the Facility.

Item 67.2:

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Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For each CEMS or CPMS, facility must keep the records listed in paragraphs (1) through (3) below.

(1) Records described in 40 CFR 63.10(b)(2)(vi) through (xi).

(2) Previous (i.e., superseded) versions of the performance evaluation plan as required in 40 CFR 63.8(d)(3).

(3) Requests for alternatives to the relative accuracy test for CEMS or CPMS as required in 40 CFR 63.8(f)(6)(i), if applicable.

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 68: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 40CFR 63.6665, Subpart ZZZZ

Item 68.1:

The Compliance Certification activity will be performed for the Facility.

Item 68.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This condition applies to the 10 exempt emergency generators at the facility.

Table 8 of 40 CFR 63 Subpart ZZZZ shows which parts of the General Provisions 40 CFR 63.1 through 40 CFR 63.15 apply to this facility. The facility is responsible for ensuring they comply with all General Provisions contained in Table 8.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 69: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021



Applicable Federal Requirement:40CFR 80.510(b), Subpart I

Item 69.1:

The Compliance Certification activity will be performed for the Facility.

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

Item 69.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Beginning October 1, 2010: Except as otherwise specifically provided in 40 CFR 80 Subpart I, all nonroad and locomotive marine diesel fuel is subject to the following per-gallon standards for sulfur content:

15 ppm maximum for nonroad (NR) diesel fuel

The facility will demonstrate compliance with the fuel specifications by retaining certificates from the fuel supplier that the diesel fuel meets the nonroad diesel fuel requirements of 40 CFR 80.510 (b), or indication of the maximum 35 volume percent aromatic content or the minimum 40 ratio centane index.

Parameter Monitored: SULFUR
Upper Permit Limit: 15 parts per million by weight
Monitoring Frequency: PER DELIVERY
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 70: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 80.510(b), Subpart I

Item 70.1:

The Compliance Certification activity will be performed for the Facility.

Item 70.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

This condition applies to the 10 exempt emergency generators at the facility.

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Beginning June 1, 2010: Except as otherwise specifically provided in 40 CFR 80 Subpart I, all nonroad and locomotive marine diesel fuel is subject to the following per-gallon standards for sulfur content:

15 ppm maximum for NR diesel fuel.

Parameter Monitored: SULFUR

Upper Permit Limit: 15 parts per million by weight

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

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

**Condition 71: Emission Point Definition By Emission Unit
Effective between the dates of 08/01/2016 and 07/31/2021**

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 71.1:

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

Emission Unit: U-00001

Emission Point: E0001

Height (ft.): 133

Diameter (in.): 60

NYTMN (km.): 4526.023

NYTME (km.): 594.333

Building: 1

Item 71.2:

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

Emission Unit: U-00002

Emission Point: E0002

Height (ft.): 26

Length (in.): 10

Width (in.): 10

NYTMN (km.): 4526.023

NYTME (km.): 594.333

Building: 2

Item 71.3:

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

Emission Unit: U-C0003

Emission Point: EP003

Height (ft.): 125

Diameter (in.): 72



NYTMN (km.): 4528.2 NYTME (km.): 595. Building: 1

Condition 72: Process Definition By Emission Unit
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 72.1:

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

Emission Unit: U-00001
Process: B01 Source Classification Code: 3-10-004-11
Process Description:

Process B01 is the firing of #2 fuel oil in the three Coltec IC engine generators (Emission Sources S0001, S0002 & S0003) and the Babcock & Wilcox boiler (Emission Source S0004) in Emission Unit U-00001. The flue gas from the Coltec IC generators exhaust through a carbon filter and into the boiler and then through a stack identified as Emission Point E0001.

The #2 fuel oil used is the ULSD (ultra low sulfur distillate oil #2 of 15 ppm or 0.0015 % maximum sulfur by weight) fuel oil.

Emission Source/Control: S0004 - Combustion
Design Capacity: 98 million Btu per hour

Emission Source/Control: S0001 - Control
Control Type: MOVING BED DRY SCRUBBER

Emission Source/Control: S0002 - Control
Control Type: MOVING BED DRY SCRUBBER

Emission Source/Control: S0003 - Control
Control Type: MOVING BED DRY SCRUBBER

Item 72.2:

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

Emission Unit: U-00001
Process: B02 Source Classification Code: 3-10-004-11
Process Description:

Process B02 is the firing of #2 fuel oil in the Cleaver Brooks boiler (Emission Source S0005) in Emission Unit U-00001. The Cleaver Brooks boiler is operated during forced outages of the Babcock & Wilcox boiler (Emission Source S0004) or during routine maintenance. Emissions exhaust through a stack identified as Emission Point E0001.

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The #2 fuel oil used is the ULSD (ultra low sulfur distillate oil #2 of 15 ppm or 0.0015 % maximum sulfur by weight) fuel oil.

Emission Source/Control: S0005 - Combustion
Design Capacity: 68.4 million Btu per hour

Item 72.3:

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

Emission Unit: U-00001
Process: BNG Source Classification Code: 1-03-006-02
Process Description:

Process BNG is the firing of natural gas in the three (3) Coltec IC engine generators (Emission Sources S0001, S0002 & S0003) and the Babcock Wilcox boiler (Emission Source S0004) in Emission Unit U-00001. The flue gas from the generators exhaust through a carbon filter and into the boiler and then through a stack identified as Emission Point E0001.

Emission Source/Control: S0004 - Combustion
Design Capacity: 98 million Btu per hour

Emission Source/Control: S0001 - Control
Control Type: MOVING BED DRY SCRUBBER

Emission Source/Control: S0002 - Control
Control Type: MOVING BED DRY SCRUBBER

Emission Source/Control: S0003 - Control
Control Type: MOVING BED DRY SCRUBBER

Item 72.4:

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

Emission Unit: U-00002
Process: ETO Source Classification Code: 3-15-020-01
Process Description:

Process ETO is when the ethylene oxide sterilizers are operated. The ethylene oxide sterilization system

consist of four ethylene oxide sterilizers, two new AMSCO 4.8 CF and two existing AMSCO 24 CF sterilizers. Existing sterilizers are connected to an existing abator and the new sterilizers are connected to a new abator (AMSCO 50 CFM) that is connected to a stack, identified as (Emission Point E0002).

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The sterilizer is typically operated one shift/cycle per day, 5 days a week, 52 weeks a year with 90% removal efficiency.

Process EtO is the ethylene oxide sterilization process in Emission Unit U-00002, which consists of:

Emission Source ST007 - Steris- AMSCO Eagle-3048 sterilizer - existing 24 cubic feet

Emission Source ST008 - Steris-AMSCO Eagle-3048 sterilizer - existing 24 cubic feet

Emission Control ST009 - AMSCO EtO abator (Donaldson abator) - existing

Emission Source ST010 - Steris- AMSCO Eagle-3017 sterilizer - new 4.8 cubic feet

Emission Source ST011 - Steris- AMSCO Eagle-3017 sterilizer - new 4.8 cubic feet

Emission Control ST012 - AMSCO 50 CFM EtO abator - new

The EtO sterilizers system utilizes a 10/90 mixture of EtO and HCFC 124 to sterilize the medical and surgical utensils and equipments. The length of the cycle is two hours for each sterilizer. The sterilizers are connected to the EtO abatement system.

Emission Source/Control: ST009 - Control
Control Type: CATALYTIC REDUCTION

Emission Source/Control: ST012 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: ST007 - Process
Design Capacity: 24 cubic feet

Emission Source/Control: ST008 - Process
Design Capacity: 24 cubic feet

Emission Source/Control: ST010 - Process
Design Capacity: 4.8 cubic feet

Emission Source/Control: ST011 - Process
Design Capacity: 4.8 cubic feet

Item 72.5:

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

Emission Unit: U-C0003

Process: P03

Source Classification Code: 2-03-002-02

Process Description:

Process P03 is the firing of natural gas in the



combustion turbine-generator (Emission Source ES006) in Emission Unit U-C0003. The emissions are controlled by Emission Control ES008 (GOALLINE/SCONOX), and then the uncontrolled emissions exhaust through a stack identified as Emission Point EP003.

Emission Source/Control: ES006 - Combustion
Design Capacity: 4.83 megawatt

Emission Source/Control: ES008 - Control
Control Type: CATALYTIC REDUCTION

Item 72.6:

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

Emission Unit: U-C0003
Process: P04 Source Classification Code: 2-03-001-02
Process Description:

Process P04 is the firing of #2 distillate fuel oil in the combustion turbine-generator (Emission Source ES006). The emissions are controlled by Emission Control ES008 (GOALLINE/SCONOX), and then the uncontrolled emissions exhaust through a stack identified as Emission Point EP003.

The #2 fuel oil used is the ULSD (ultra low sulfur distillate oil #2 of 15 ppm or 0.0015 % maximum sulfur by weight) fuel oil.

Emission Source/Control: ES006 - Combustion
Design Capacity: 4.83 megawatt

Emission Source/Control: ES008 - Control
Control Type: CATALYTIC REDUCTION

Item 72.7:

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

Emission Unit: U-C0003
Process: P06 Source Classification Code: 1-03-006-02
Process Description:

Process P06 is the firing of natural gas in the duct burner (Emission Source ES007). The emissions are controlled by Emission Control ES008 (GOALLINE/SCONOX), and then the uncontrolled emissions exhaust through a stack identified as Emission Point EP003.

Emission Source/Control: ES007 - Combustion
Design Capacity: 35 million Btu per hour

Emission Source/Control: ES008 - Control

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Control Type: CATALYTIC REDUCTION

Condition 73: Emission Unit Permissible Emissions
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 73.1:

The sum of emissions from all regulated processes specified in this permit for the emission unit cited

shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit: U-00001

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 109.0632 pounds per hour

642,391 pounds per year

Emission Unit: U-C0003

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 3.7386 pounds per hour

24,275.04 pounds per year

Condition 74: Process Permissible Emissions
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 74.1:

The sum of emissions from the regulated process cited shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit: U-00001

Process: B01

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 67.9 pounds per hour

594,796 pounds per year

Emission Unit: U-00001

Process: B02

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 5.43 pounds per hour

47,595 pounds per year

Emission Unit: U-00001

Process: BNG



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CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN
PTE(s): 103.63 pounds per hour
203,301.6 pounds per year

Emission Unit: U-C0003 Process: P03

CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN
PTE(s): 0.0207 pounds per hour
181.34 pounds per year

Emission Unit: U-C0003 Process: P04

CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN
PTE(s): 1.99 pounds per hour
8,945 pounds per year

Emission Unit: U-C0003 Process: P06

CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN
PTE(s): 1.75 pounds per hour
15,330 pounds per year

Condition 75: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:6 NYCRR 227-1.3

Item 75.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: E0001

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 75.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Stack opacity shall not exceed 20 percent (six minute average), except for one six-minute period per hour of not more than 27 percent opacity. Compliance with this standard may be determined by EPA Reference Method 9, Continuous Opacity Monitoring System (COMS) data, and/or any other credible evidence. The owner shall install, operate in accordance with manufacturer's instructions,



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Emission Unit: U-00001

Emission Point: E0001

Item 76.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average utilizing a continuous opacity monitor (COM).

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Monitoring Frequency: CONTINUOUS

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 11/29/2016.

Subsequent reports are due every 3 calendar month(s).

Condition 77: Compliance Certification

Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 77.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: E0001

Process: B01

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 77.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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

- 1) Submit to the Department an acceptable protocol for the testing of particulate emission limit cited in this condition.
- 2) Perform a stack test, based upon the approved test protocol, to determine compliance with the particulate

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emission limit cited in this condition.

3) All records shall be maintained at the facility for a minimum of five years.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: Method 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 78: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 6 NYCRR 227-2.4 (f) (3)

Item 78.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: E0001

Process: B01

Emission Source: S0001

Regulated Contaminant(s):

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

Item 78.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition applies to stationary internal combustion engines that have a maximum mechanical output rating equal to or greater than 200 brake horsepower in a severe ozone nonattainment area or 400 brake horsepower outside a severe ozone nonattainment area and are fired by distillate oil. The owner or operator is required to submit a compliance testing protocol to the department for approval at least 30 days prior to testing. The owner or operator will maintain all records on-site for a minimum of five years.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 2.3 grams per brake horsepower-hour

Reference Test Method: 40 CFR 60 Appendix A - Method 7, 7E, or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)



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Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 79: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 63.6603(a), Subpart ZZZZ

Item 79.1:

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

Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0001
Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0002
Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0003
Emission Unit: U-00001 Process: BNG	Emission Point: E0001 Emission Source: S0001
Emission Unit: U-00001 Process: BNG	Emission Point: E0001 Emission Source: S0002
Emission Unit: U-00001 Process: BNG	Emission Point: E0001 Emission Source: S0003
Regulated Contaminant(s): CAS No: 000630-08-0	CARBON MONOXIDE

Item 79.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The owner or operator of an existing non-emergency, non-black start compression ignition stationary RICE with a site rating greater than 500 brake horsepower located at an area source of HAP emissions must either limit the concentration of CO or reduce CO emissions.

Emissions of CO must be reduced by 70% or more based on the average of three 1-hour runs.

The facility must also meet the applicable operating limits listed in table 2b of subpart ZZZZ.

Initial compliance will be demonstrated according to the



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Item 80.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an existing non-emergency, non-black start 2 stroke lean burn stationary RICE located at an area source of HAP emissions must comply with the following maintenance procedures:

- (1) Change oil and filter every 4,320 hours of operation or annually, whichever comes first;
- (2) Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first, and replace as necessary;
- (3) Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary.

Initial compliance will be demonstrated according to the provisions in 40 CFR 63.6630.

Continuous compliance will then be demonstrated according to 40 CFR 63.6640. The facility must keep records according to the provisions in 40 CFR 63.6655 and submit the notifications and reports listed in 40 CFR 63.6645 and 63.6650.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 81: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 63.6603(a), Subpart ZZZZ

Item 81.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0001
Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0002
Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0003
Emission Unit: U-00001 Process: BNG	Emission Point: E0001 Emission Source: S0001



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Emission Unit: U-00001
Process: BNG

Emission Point: E0001
Emission Source: S0002

Emission Unit: U-00001
Process: BNG

Emission Point: E0001
Emission Source: S0003

Item 81.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The owner or operator of an existing non-emergency stationary RICE located at an area source of HAP emissions using an oxidation catalyst to meet the emission limits listed in table 2d of subpart ZZZZ must maintain the temperature across the catalyst.

The temperature of the stationary RICE exhaust must be maintained to keep the catalyst inlet temperature greater than or equal to 450 degrees F and less than or equal to 1350 degrees F.

Initial compliance must be demonstrated according to the provisions listed in 40 CFR 63.6630. Continuous compliance will then be demonstrated according to 40 CFR 63.6640. The facility must keep records according to the provisions in 40 CFR 63.6655 and submit the notifications and reports listed in 40 CFR 63.6645 and 63.6650.

Parameter Monitored: TEMPERATURE

Lower Permit Limit: 450 degrees Fahrenheit

Upper Permit Limit: 1350 degrees Fahrenheit

Monitoring Frequency: CONTINUOUS

Averaging Method: 4-HOUR ROLLING AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 82: Required date of initial compliance test
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 63.6612(a), Subpart ZZZZ

Item 82.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0001

Item 82.2:



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The owner or operator of an existing stationary RICE with a site rating less than or equal to 500 brake horsepower located at a major source of HAP emissions or an existing stationary RICE located at an area source of HAP emissions must conduct an initial performance test within 180 days after the compliance date that is specified for the stationary RICE in 40 CFR 63.6595 and according to the provisions specified in Table 4 to subpart ZZZZ, as appropriate.

Condition 83: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 63.6620(i), Subpart ZZZZ

Item 83.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0001
Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0002
Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0003
Emission Unit: U-00001 Process: BNG	Emission Point: E0001 Emission Source: S0001
Emission Unit: U-00001 Process: BNG	Emission Point: E0001 Emission Source: S0002
Emission Unit: U-00001 Process: BNG	Emission Point: E0001 Emission Source: S0003

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 83.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The engine percent load during a performance test must be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. A written report of the average percent load determination must be included in the notification of compliance status. The following information must be included in the written report: the

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Monitoring Description:

A facility complying with the CO reduction limit and using a continuous emission monitoring system (CEMS) to monitor CO emissions for an existing non-emergency compression ignition engine with a site rating greater than 500 brake horsepower located at an area source of HAP emissions will demonstrate initial compliance if each of the following is met:

- 1) The facility has installed a CEMS to continuously monitor CO and either oxygen or carbon dioxide at both the inlet and outlet of the oxidation catalyst according to the requirements in 40 CFR 63.6625(a), and
- 2) The facility has conducted a performance evaluation of the CEMS using PS 3 and 4A of 40 CFR 60, appendix B, and
- 3) The average reduction of CO calculated using 40 CFR 63.6620 equals or exceeds the required percent reduction. The initial test comprises the first 4-hour period after successful validation of the CEMS. Compliance is based on the average percent reduction achieved during the 4-hour period.

The results of the initial compliance demonstration shall be submitted in the Notification of Compliance Status as required in 40 CFR 63.6645.

Monitoring Frequency: SINGLE OCCURRENCE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 86: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 63.6640(a), Subpart ZZZZ

Item 86.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0001
Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0002
Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0003
Emission Unit: U-00001 Process: BNG	Emission Point: E0001 Emission Source: S0001



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Emission Unit: U-00001
Process: BNG

Emission Point: E0001
Emission Source: S0002

Emission Unit: U-00001
Process: BNG

Emission Point: E0001
Emission Source: S0003

Item 86.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

A facility complying with the CO concentration limit using an oxidation catalyst and a continuous parameter monitoring system (CPMS) for an existing non-emergency compression ignition engine with a site rating greater than 500 brake horsepower will demonstrate continuous compliance if each of the following is met:

- 1) conduct performance tests every 8,760 hours or 3 years, whichever comes first, for CO;
- 2) demonstrate that the emissions remain at or below the CO concentration limit;
- 3) measure the pressure drop across the catalyst once per month;
- 4) demonstrate that the pressure drop across the catalyst is within the operating limitation established during the performance test; and
- 5) keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1).

Parameter Monitored: PRESSURE DROP

Upper Permit Limit: 2 inches of water

Monitoring Frequency: MONTHLY

Averaging Method: RANGE - NOT TO FALL OUTSIDE OF STATED
RANGE AT ANY TIME

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

**Condition 87: Deviations and catalyst changing provisions for lean burn
and compression ignition engines
Effective between the dates of 08/01/2016 and 07/31/2021**



Applicable Federal Requirement:40CFR 63.6640(b), Subpart ZZZZ

Item 87.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0001

Item 87.2:

Facility must report each instance in which it did not meet each emission limitation or operating limitation in Tables 1a, 1b, 2a, 2b, 2c, and 2d of 40 CFR 63 Subpart ZZZZ that apply. These instances are deviations from the emission and operating limitations in 40 CFR 63 Subpart ZZZZ. These deviations must be reported according to the requirements in 40 CFR 63.6650.

If facility changes an oxidation catalyst, it must re-establish the values of the operating parameters measured during the initial performance test. When re-establishing the values of operating parameters, facility must also conduct a performance test, within 180 days of the oxidation catalyst change, to demonstrate that it is meeting the required emission limitation applicable to each stationary RICE. The performance test on the new oxidation catalyst may be scheduled to occur with the next required semi-annual carbon monoxide performance test.

The facility must keep records readily accessible in hard copy or electronic form for at least 5 years after the date of each deviation according to 40 CFR 63.10(b)(1).

**Condition 88: Treatment of deviations during first 200 hours of operation
Effective between the dates of 08/01/2016 and 07/31/2021**

Applicable Federal Requirement:40CFR 63.6640(d), Subpart ZZZZ

Item 88.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0001

Item 88.2:

For new, reconstructed, and rebuild stationary RICE, deviations from the emission or operating limitations that occur during the first 200 hours of operation from engine startup (engine burn-in period) are not violations. Rebuilt stationary RICE means a stationary RICE that has been rebuilt as the term is defined in 40 CFR 94.11(a).

**Condition 89: Reporting of non-compliance with NESHAP General Provisions
Effective between the dates of 08/01/2016 and 07/31/2021**

Applicable Federal Requirement:40CFR 63.6640(e), Subpart ZZZZ

Item 89.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0001

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Item 89.2:

Facility must report each instance in which it did not meet the requirements in Table 8 of 40 CFR 63 Subpart ZZZZ (applicable requirements of 40 CFR 63 Subpart A, General Provisions) that apply to them.

Condition 90: Compliance Certification

Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 40CFR 63.6645(a), Subpart ZZZZ

Item 90.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0001
Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0002
Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0003
Emission Unit: U-00001 Process: BNG	Emission Point: E0001 Emission Source: S0001
Emission Unit: U-00001 Process: BNG	Emission Point: E0001 Emission Source: S0002
Emission Unit: U-00001 Process: BNG	Emission Point: E0001 Emission Source: S0003

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 90.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must submit all of the notifications in §§63.7(b) and (c), 63.8(e), (f)(4), and (f)(6), 63.9(b)-(e), 63.9(g) and (h) that apply to the facility by the dates specified in the provision.

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 91: Notification of intent to conduct performance test

Effective between the dates of 08/01/2016 and 07/31/2021



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Applicable Federal Requirement:40CFR 63.6645(g), Subpart ZZZZ

Item 91.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0001

Item 91.2:

Facilities required to conduct a performance tests must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in 40 CFR 63.7(b)(1).

**Condition 92: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021**

Applicable Federal Requirement:40CFR 63.6645(h)(2), Subpart ZZZZ

Item 92.1:

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

Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0001
Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0002
Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0003
Emission Unit: U-00001 Process: BNG	Emission Point: E0001 Emission Source: S0001
Emission Unit: U-00001 Process: BNG	Emission Point: E0001 Emission Source: S0002
Emission Unit: U-00001 Process: BNG	Emission Point: E0001 Emission Source: S0003

Item 92.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

A facility that is required to conduct a performance test or other initial compliance demonstration as specified in Tables 4 or 5 of subpart ZZZZ, the facility must submit a Notification of Compliance Status according to 40 CFR 63.9(h)(2)(ii).

For each initial compliance demonstration required in



Table 5 of subpart ZZZZ that includes a performance test conducted according to the requirements in Table 4 of subpart ZZZZ, the facility must submit the Notification of Compliance Status, including the performance test results, before the close of business on the 60th day following the completion of the performance test according to 40 CFR 63.10(d)(2).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 93: Contents of compliance reports
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 63.6650(c), Subpart ZZZZ

Item 93.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0001

Item 93.2:

The Compliance report must contain the information in paragraphs (1) through (6).

- (1) Company name and address.
- (2) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.
- (3) Date of report and beginning and ending dates of the reporting period.
- (4) If the facility had a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with 40 CFR 63.6605(b), including actions taken to correct a malfunction.
- (5) If there are no deviations from any emission or operating limitations that apply to the facility, a statement that there were no deviations from the emission or operating limitations during the reporting period.
- (6) If there were no periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control, as specified in 40 CFR 63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period.

Condition 94: Deviation reports
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 63.6650(d), Subpart ZZZZ

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Item 94.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0001

Item 94.2:

For each deviation from an emission or operating limitation that occurs for a stationary RICE where the facility is not using a CMS to comply with the emission or operating limitations in this subpart, the Compliance report must contain the information in 40 CFR 63.6650(c)(1) through (4) and the information in paragraphs (1) and (2) below.

(1) The total operating time of the stationary RICE at which the deviation occurred during the reporting period.

(2) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.

**Condition 95: Deviation reporting to be included in compliance reports
Effective between the dates of 08/01/2016 and 07/31/2021**

Applicable Federal Requirement: 40CFR 63.6650(e), Subpart ZZZZ

Item 95.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0001

Item 95.2:

For each deviation from an emission or operating limitation occurring for a stationary RICE where the facility is using a CMS to comply with the emission and operating limitations in 40 CFR 63 Subpart ZZZZ, the compliance report must include information in paragraphs 40 CFR 63.6650(c)(1) through (4) and (1) through (12) below.

(1) The date and time that each malfunction started and stopped.

(2) The date, time, and duration that each CMS was inoperative, except for zero (low-level) and high-level checks.

(3) The date, time, and duration that each CMS was out-of-control, including the information in 40 CFR 63.8(c)(8).

(4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period.

(5) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.

(6) A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes.



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- (1) A copy of each notification and report that the owner or operator submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that he/she submitted, according to the requirement in 40 CFR 63.10(b)(2)(xiv).
- (2) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.
- (3) Records of performance tests and performance evaluations as required in 40 CFR 63.10(b)(2)(viii).
- (4) Records of all required maintenance performed on the air pollution control and monitoring equipment.
- (5) Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 97: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 63.6655(e), Subpart ZZZZ

Item 97.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0001
Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0002
Emission Unit: U-00001 Process: B01	Emission Point: E0001 Emission Source: S0003
Emission Unit: U-00001 Process: BNG	Emission Point: E0001 Emission Source: S0001
Emission Unit: U-00001	Emission Point: E0001



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Process: BNG

Emission Source: S0002

Emission Unit: U-00001

Emission Point: E0001

Process: BNG

Emission Source: S0003

Item 97.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that he/she operated and maintained the stationary RICE and after-treatment control device (if any) according to the maintenance plan for the following stationary RICE;

(1) An existing stationary RICE with a site rating of less than 100 brake horsepower located at a major source of HAP emissions.

(2) An existing stationary emergency RICE.

(3) An existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to subpart ZZZZ.

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 98: Compliance Certification

Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 80.510(b), Subpart I

Item 98.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001

Emission Point: E0001

Process: B01

Emission Source: S0001

Emission Unit: U-00001

Emission Point: E0001

Process: B01

Emission Source: S0002

Emission Unit: U-00001

Emission Point: E0001

Process: B01

Emission Source: S0003

Emission Unit: U-00001

Emission Point: E0001

Process: BNG

Emission Source: S0001

Emission Unit: U-00001

Emission Point: E0001

Process: BNG

Emission Source: S0002



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Emission Unit: U-00001
Process: BNG

Emission Point: E0001
Emission Source: S0003

Item 98.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Beginning June 1, 2010: Except as otherwise specifically provided in 40 CFR 80 Subpart I, all nonroad and locomotive marine diesel fuel is subject to the following per-gallon standards for sulfur content:

15 ppm maximum for NR diesel fuel.

Parameter Monitored: SULFUR

Upper Permit Limit: 15 parts per million by weight

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 99: Compliance Certification

Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 63.6603(a), Subpart ZZZZ

Item 99.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001
Process: B01

Emission Point: E0001
Emission Source: S0001

Emission Unit: U-00001
Process: B01

Emission Point: E0001
Emission Source: S0002

Emission Unit: U-00001
Process: B01

Emission Point: E0001
Emission Source: S0003

Emission Unit: U-00001
Process: BNG

Emission Point: E0001
Emission Source: S0001

Emission Unit: U-00001
Process: BNG

Emission Point: E0001
Emission Source: S0002



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Emission Unit: U-00001

Emission Point: E0001

Process: BNG

Emission Source: S0003

Item 99.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The owner or operator of an existing non-emergency compression ignition stationary RICE with a site rating of more than 500 horsepower located at an area source of HAP emissions using an oxidation catalyst to meet the emission limits listed in table 2d of subpart ZZZZ must maintain the pressure drop across the catalyst.

The pressure drop across the catalyst must not change by more than two inches of water at 100% load plus or minus 10% from the pressure drop across the catalyst that was measured during the initial performance test that is required in 40 CFR 63.6630.

Initial compliance must be demonstrated according to the provisions listed in 40 CFR 63.6630. Continuous compliance will then be demonstrated according to 40 CFR 63.6640. The facility must keep records according to the provisions in 40 CFR 63.6655 and submit the notifications and reports listed in 40 CFR 63.6645 and 63.6650.

Parameter Monitored: PRESSURE DROP

Upper Permit Limit: 2 inches of water

Monitoring Frequency: CONTINUOUS

Averaging Method: RANGE - NOT TO FALL OUTSIDE OF STATED RANGE AT ANY TIME

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 100: Compliance Certification

Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 100.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: E0001

Process: B01

Emission Source: S0004

Regulated Contaminant(s):

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



Item 100.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Optional:

The owner or operator of a mid-size boiler (> 50 and equal to or < 100 MM Btu/hr) may opt to employ a continuous emissions monitoring system (CEMS), or equivalent, in lieu of the monitoring requirements to perform compliance stack (emission) tests as described in subdivision (c) of this section in order to verify the NO_x emission limit compliance. Those owners/operators of mid-size boilers which opt to monitor emissions with a CEMS or equivalent shall follow the requirements of subdivision (b) of this section to demonstrate compliance, including a 24 hour daily arithmetic average NO_x emission rate.

(b) CEMS Requirements:

(1) The owner or operator of a source subject to paragraph (a)(1), (2), or (5) of this section that is obligated to submit a compliance plan required under section 227-2.3(a) and (b) of this Subpart must submit for department approval:

(i) a preliminary CEMS plan as part of the compliance plan if it has a CEMS in place, or are in the process of procuring or installing a CEMS;

(ii) a preliminary CEMS plan at least 180 days prior to equipment installation. The department will notify the owner or operator of the acceptability of the plan, at least 60 days prior to equipment installation if it is not covered under subparagraph (i) of this paragraph; or

(iii) a proposed equivalent monitoring plan.

(2) The owner or operator of a source subject to paragraph (a)(1), (2) or (5) of this section that is obligated to submit a compliance plan required under section 227-2.3(a) and (b) of this Subpart must submit a CEMS certification protocol at least 60 days prior to compliance testing. The location of and specifications for each instrument or device, as well as procedures for calibration, operation, data evaluation and data reporting, must be approved by the department.

(3) The owner or operator of a stationary internal combustion engine (source) subject to paragraph (a)(1),

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(2) or (5) of this section must install, calibrate, maintain, and operate a CEMS for measuring NO_x at locations approved in the CEMS certification protocol under paragraph (2) of this subdivision, and must record the output of each such system. The following procedures and test methods must be used for determining compliance with the appropriate NO_x emission limit under section 227-2.4 of this Subpart:

(i) The owner or operator of a source subject to paragraphs (a)(1) and (2) of this section must:

(a) calculate all 24-hour daily heat input weighted average NO_x emission rates from block hourly arithmetic emission rate averages calculated by the CEMS and expressed in terms of pounds of NO_x per million Btu;

(b) demonstrate compliance with the appropriate emission limit under section 227-2.4 of this Subpart by using a CEMS for measuring NO_x and calculating a 24-hour daily heat input-weighted average NO_x emission rate using 40 CFR part 60, Appendix A, Method 19 for non-turbine sources. A 30-day rolling heat input-weighted average emission rate may be used to demonstrate compliance with the appropriate emission limit under section 227-2.4 of this Subpart from October 1 to April 30 for non-turbine sources; and

(c) determine the 24-hour daily heat input-weighted average NO_x emission rate based on the heat input-weighted average of the block hourly arithmetic average emission rates during each 24-hour daily period from 12:00 midnight to 12:00 midnight the following day using CEMS data. The block hourly heat input-weighted average emission rate must be calculated for each one hour period starting with the period 12:00 midnight to 1:00 a.m. and continuing through until the last period 11:00 p.m. to 12:00 midnight; or starting with the period 12:00 noon to 1:00 p.m. and continuing through the last period 11:00 a.m. to 12:00 noon. The 30-day rolling heat input-weighted average must be the average of the 24-hour daily heat input-weighted NO_x emission rate.

Manufacturer Name/Model Number: CEMS for the BABCOCK WILCOX FM 106

Upper Permit Limit: 0.12 pounds per million Btus

Reference Test Method: Method 7, 7E or 19

Monitoring Frequency: CONTINUOUS

Averaging Method: 24 HOUR DAILY AVERAGE (GEOMETRIC MEAN
- APP. A, METHOD 19)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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The initial report is due 10/30/2016.
Subsequent reports are due every 3 calendar month(s).

**Condition 101: Applicability of General Provisions of 40 CFR 60 Subpart A
Effective between the dates of 08/01/2016 and 07/31/2021**

Applicable Federal Requirement:40CFR 60, NSPS Subpart A

Item 101.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

Item 101.2:

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

**Condition 102: EPA Region 2 address.
Effective between the dates of 08/01/2016 and 07/31/2021**

Applicable Federal Requirement:40CFR 60.4, NSPS Subpart A

Item 102.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

Item 102.2:

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

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

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

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

Condition 103: Date of Construction Notification - if a COM is used.

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Applicable Federal Requirement:40CFR 60.7(a), NSPS Subpart A

Item 103.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

Item 103.2:

Any owner or operator subject to this part shall furnish the Administrator with the following information:

- 1) a notification of the date construction or reconstruction commenced, postmarked no later than 30 days after such date;
- 3) a notification of the actual date of initial start up, postmarked within 15 days after such date;
- 4) a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless the change is specifically exempted under 40 CFR 60. The notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capability of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional information regarding the change;
- 5) a notification of the date upon which the demonstration of continuous monitoring system performance commences, postmarked not less than 30 days prior to such date;
- 6) a notification of the anticipated date for conducting the opacity observations, postmarked not less than 30 days prior to such date; and
- 7) a notification that continuous opacity monitoring system data results will be used to determine compliance with the applicable opacity standard during the performance test, postmarked not less than 30 days prior to the performance test.

Condition 104: Recordkeeping requirements.

Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 60.7(b), NSPS Subpart A

Item 104.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

Item 104.2:

Affected owners or operators shall maintain records of occurrence and duration of any

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startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

Condition 105: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 40CFR 60.7(c), NSPS Subpart A

Item 105.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: E0001

Process: B01

Emission Source: S0004

Item 105.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Affected owners or operators shall submit an excess emissions report semi-annually based on the calendar year (or more frequently as required by the applicable Subpart or the Administrator), to the Administrator. These reports shall be postmarked no later than 30 calendar days following the end of the reporting period, and shall contain the following information:

- 1) the magnitude of excess emissions computed, any conversion factors used, the date and time of each occurrence, and the process operating time during the reporting period;
- 2) specific identification of each period of excess emissions that occur during startup, shutdown, or malfunction, where the nature, cause, and corrective action are provided for a malfunction;
- 3) the date and time identifying each period during which the continuous monitoring system was inoperative except for zero span checks and the nature of the system repairs or adjustments; and
- 4) when no excess emissions have occurred or when the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be provided in the report.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

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Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 106: Excess Emissions Report
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 60.7(d), NSPS Subpart A

Item 106.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

Item 106.2:

A summary report form, for each pollutant monitored, shall be sent to the Administrator in the form prescribed in Figure 1 of 40 CFR Part 60.7(d).

Condition 107: Facility files for subject sources.
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 60.7(f), NSPS Subpart A

Item 107.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

Item 107.2:

The following files shall be maintained at the facility for all affected sources: all measurements, including continuous monitoring systems, monitoring device, and performance testing measurements; all continuous monitoring system evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part, recorded in permanent form suitable for inspection. The file shall be maintained for at least two years following the date of such measurements, reports, and records.

Condition 108: Performance testing timeline.
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 108.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

Item 108.2:

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

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Condition 109: Performance test methods.
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 109.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

Item 109.2:

Performance testing shall be conducted in accordance with the methods and procedures prescribed in this part or by alternative methods and procedures approved by the Administrator.

Condition 110: Required performance test information.
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 110.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

Item 110.2:

Performance tests shall be conducted under such conditions specified by the Administrator, based upon representative performance data supplied by the owner or operate of the facility.

Condition 111: Prior notice.
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 111.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

Item 111.2:

The owner or operator shall provide the Administrator with prior notice of any performance test at least 30 days in advance of testing.

Condition 112: Performance testing facilities.
Effective between the dates of 08/01/2016 and 07/31/2021



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

Item 112.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

Item 112.2:

The following performance testing facilities shall be provided during all tests:

- 1) sampling ports adequate for tests methods applicable to such facility;
- 2) a safe sampling platform;
- 3) a safe access to the sampling platform; and
- 4) utilities for sampling and testing equipment.

Condition 113: Number of required tests.
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 113.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

Item 113.2:

Each performance test shall consist of three separate runs, at the specified duration required in the applicable test method. Compliance with all applicable standards shall be determined by using the arithmetic means of the results of the three runs.

Condition 114: Availability of information.
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 60.9, NSPS Subpart A

Item 114.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

Item 114.2:

The availability to the public of information provided to, or otherwise obtained by, the Administrator under this part shall be governed by part 2 of this chapter.

Condition 115: Opacity standard compliance testing.
Effective between the dates of 08/01/2016 and 07/31/2021

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Applicable Federal Requirement:40CFR 60.11, NSPS Subpart A

Item 115.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

Item 115.2:

The following conditions shall be used to determine compliance with the opacity standards:

1) observations shall be conducted in accordance with Reference Method 9, in Appendix A or this Part 40 CFR 60(or an equivalent method approved by the Administrator including continuous opacity monitors);

2) the opacity standards apply at all times except during periods of start up, shutdown, and malfunction; and

3) all other applicable conditions cited in section 60.11 of this part.

Condition 116: Circumvention.

Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 60.12, NSPS Subpart A

Item 116.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

Item 116.2:

No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

Condition 117: Monitoring requirements.

Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 60.13, NSPS Subpart A

Item 117.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

Item 117.2:

All continuous monitoring systems and devices shall be installed, calibrated, maintained,

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and operated in accordance with the requirements of section 60.13.

Condition 118: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 60.13(c), NSPS Subpart A

Item 118.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: E0001

Process: B01

Emission Source: S0004

Item 118.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If the owner or operator of an affected facility elects to submit continuous opacity monitoring system (COMS) data for compliance with the opacity standard as provided under §60.11(e)(5), he or she shall conduct a performance evaluation of the COMS as specified in Performance Specification 1, appendix B, of 40CFR 60 before the performance test required under §60.8 is conducted. Otherwise, the owner or operator of an affected facility shall conduct a performance evaluation of the COMS or continuous emission monitoring system (CEMS) during any performance test required under §60.8 or within 30 days thereafter in accordance with the applicable performance specification in appendix B of 40CFR 60. The owner or operator of an affected facility shall conduct COMS or CEMS performance evaluations at such other times as may be required by the Administrator under section 114 of the Act.

(1) The owner or operator of an affected facility using a COMS to determine opacity compliance during any performance test required under §60.8 and as described in §60.11(e)(5) shall furnish the Administrator two or, upon request, more copies of a written report of the results of the COMS performance evaluation described in 40CFR60.13(c) at least 10 days before the performance test required under §60.8 is conducted.

(2) Except as provided in paragraph 40CFR60.13(c)(1), the owner or operator of an affected facility shall furnish the Administrator within 60 days of completion two or, upon request, more copies of a written report of the results of the performance evaluation.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

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DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 119: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 119.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: E0001

Process: B01

Emission Source: S0004

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 119.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

As an alternative to operating a CEMs at the inlet to the SO₂ control device (or outlet of the steam generating unit if no SO₂ control device is used) as required under paragraph of Subpart 60.46c(a), an owner or operator may elect to determine the average SO₂ emission rate by sampling fuel prior to combustion.

As an alternative fuel sampling procedure for affected facilities combusting oil, oil samples may be collected from the fuel tank for each steam generating unit immediately after the fuel tank is filled and before any oil is combusted.

40 CFR 60-Dc.40c, NSPS which limits the sulfur content in the distillate oil to 0.5 percent by weight is superceded by regulation 6 NYCRR 225-1.2, which limits the sulfur content in the distillate oil to 0.0015 percent by weight to facilities in the severe ozone non-attainment area such as New York City.

Montefiore Medical Center must comply with the 0.0015 percent by weight sulfur content limit in distillate oil as per 6 NYCRR 225-1.2 which has more stringent limit for New York City than 40 CFR 60-Dc.40c, NSPS.

Parameter Monitored: SULFUR CONTENT



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Upper Permit Limit: 0.0015 percent by weight
Reference Test Method: Method 19
Monitoring Frequency: PER DELIVERY
Averaging Method: 30-DAY ROLLING AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 120: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 120.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

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

Item 120.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The affected facility to which this Subpart applies is each steam generating unit for which construction, modification or reconstruction commenced after June 9, 1989 and that has a maximum design heat input capacity of 100 million Btu/hr or less, but greater than or equal to 10 million Btu/hr. Steam generating units which meet the applicability requirements above are not subject to the sulfur dioxide (SO2) or particulate matter (PM) emission limits, performance testing requirements, or monitoring requirements under this subpart (Subparts 60.42c, 60.43c, 60.44c, 60.45c, 60.46c., or 60.47c) during periods of combustion research, as defined in Subpart 60.14. Any temporary change to an existing steam generating unit for the purpose of conducting combustion research is not considered a modification under Subpart 60.14.

This condition applies to the 98 MM Btu/hr Babcock Wilcox FM 106 boiler (Emission Source S0004), firing # 2 fuel oil.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.



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The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 121: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 121.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

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

Item 121.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

On or after the date on which the initial performance test is completed or required to be completed under section 60.8 of this part, no owner or operator of an affected facility that combusts distillate oil shall combust oil with a sulfur content in excess of 0.0015 percent by weight.

40 CFR 60-Dc.42c(d), NSPS which limits the sulfur content in the distillate oil to 0.5 percent by weight is superseded by regulation 6 NYCRR 225-1.2, which limits the sulfur content in the distillate oil to 0.0015 percent by weight to facilities in the severe ozone non-attainment area such as New York City.

Montefiore Medical Center must comply with the 0.0015 percent by weight sulfur content limit in distillate oil as per 6 NYCRR 225-1.2, which has more stringent limit for New York City than 40 CFR 60-Dc.42c(d), NSPS.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.0015 percent by weight

Reference Test Method: ASTM Method D4292

Monitoring Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 122: Exemption from the averaging period.
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 122.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

Item 122.2:

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

Condition 123: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 60.43c(c), NSPS Subpart Dc

Item 123.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 123.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

On and after the date on which the initial performance test is completed or required to be completed under §60.8 of this part, whichever date comes first, no owner or operator of an affected facility that combusts coal, wood or oil and has a heat input capacity of 30 million BTU per hour or greater shall cause to be discharged into the atmosphere from an affected facility any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.

Parameter Monitored: OPACITY
Upper Permit Limit: 20.0 percent



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Monitoring Frequency: CONTINUOUS
Averaging Method: 6 MINUTE AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 124: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 60.44c(h), NSPS Subpart Dc

Item 124.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

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

Item 124.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility owner and/or operator must demonstrate compliance with the requirements of 40 CFR 60.42c(h). Facilities demonstrating compliance using the fuel supplier certification, for sulfur-in-fuel limitations (based on a percent by weight of sulfur in the fuel), shall submit the certification in accordance with the provisions of 40 CFR 60.48c(f)(1), (2) and (3) as applicable.

40 CFR 60-Dc.42c(h), NSPS which limits the sulfur content in the distillate oil to 0.5 percent by weight is superceded by regulation 6 NYCRR 225-1.2, which limits the sulfur content in the distillate oil to 0.0015 percent by weight to facilities in the severe ozone non-attainment area such as New York City.

Montefiore Medical Center must comply with the 0.0015 percent by weight sulfur content limit in distillate oil as per 6 NYCRR 225-1.2, which has more stringent limit for New York City than 40 CFR 60-Dc.42c(h), NSPS.

Process Material: NUMBER 2 OIL
Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 0.0015 percent by weight
Reference Test Method: ASTM Method D4292



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Monitoring Frequency: PER DELIVERY
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 125: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 125.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

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

Item 125.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

As an alternative to operating a CEMs at the inlet to the SO2 control device (or outlet of the steam generating unit if no SO2 control device is used) as required under paragraph of Subpart 60.46c(a), an owner or operator may elect to determine the average SO2 emission rate by sampling fuel prior to combustion.

As an alternative fuel sampling procedure for affected facilities combusting oil, oil samples may be collected from the fuel tank for each steam generating unit immediately after the fuel tank is filled and before any oil is combusted.

40 CFR 60-Dc.46c(d)(2), NSPS which limits the sulfur content in the distillate oil to 0.5 percent by weight is superceded by regulation 6 NYCRR 225-1.2, which limits the sulfur content in the distillate oil to 0.0015 percent by weight to facilities in the severe ozone non-attainment area such as New York City.

Montefiore Medical Center must comply with the 0.0015 percent by weight sulfur content limit in distillate oil as per 6 NYCRR 225-1.2, which has more stringent limit for New York City than 40 CFR 60-Dc.46c(d)(2), NSPS.

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Process Material: NUMBER 2 OIL
Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 0.0015 percent by weight
Reference Test Method: Method 19
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION
Averaging Method: 3- DAY, 24-HOUR ROLLING AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

**Condition 126: Exemption from sulfur dioxide monitoring requirements.
Effective between the dates of 08/01/2016 and 07/31/2021**

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

Item 126.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

Item 126.2:

Facilities subject to paragraphs 40 CFR 60-Dc.42c(h)(1), (2), or (3) showing compliance through vendor certification shall be exempt from section 40 CFR 60-Dc.46c.

**Condition 127: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021**

Applicable Federal Requirement:40CFR 60.47c, NSPS Subpart Dc

Item 127.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 127.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No owner or operator of an affected facility that combusts residual oil, coal or wood and has heat input capacity greater than 30 mmbtu/hr shall cause to be discharged into the atmosphere from that affected facility



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any gases that exhibit greater than 20 percent opacity averaging over 6-minutes, except for one 6-minute period per hour of not more than 27% opacity.

Facilities combusting oil subject to section 40 CFR 60-Dc.43c shall install, calibrate, maintain, and operate CEMs for opacity. All CEMs shall be operated in accordance with appendix B of part 40 CFR 60.

Parameter Monitored: OPACITY
Upper Permit Limit: 27 percent
Reference Test Method: 40 CFR 60 App B
Monitoring Frequency: CONTINUOUS
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 128: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 128.1:
The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

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

Item 128.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

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

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 129: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021



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

Item 129.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

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

Item 129.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

Calendar dates covered in the reporting period.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 130: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 130.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

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

Item 130.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of each affected facility subject to the SO2 emission limits, fuel oil sulfur limits, or

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percent reduction requirements under §60.43c shall keep records as required under §60.48c(d) including the following information.

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 131: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 131.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: E0001

Process: B01

Emission Source: S0004

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

Item 131.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)



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Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 132: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 132.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: E0001
Process: B01 Emission Source: S0004

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

Item 132.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 133: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 133.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: E0001



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Process: B01

Emission Source: S0004

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 133.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 134: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 60.48c(e)(11), NSPS Subpart Dc

Item 134.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: E0001

Process: B01

Emission Source: S0004

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 134.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

If fuel supplier certification is used to demonstrate

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compliance, records of fuel supplier certification as described under paragraph §60.48c(f)(1)(2) or (3). In addition to records of fuel supplier certification, the semi-annual report shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the period.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 135: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 135.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: E0001

Process: B01

Emission Source: S0004

Item 135.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 136: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 136.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: E0001

Process: B01

Emission Source: S0004



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Item 136.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

All records required under this section shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record, for determining compliance with the NSPS requirements.

**** NOTE**** Records shall be maintained for a minimum of five years to achieve compliance with the requirements of Title V.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 137: Compliance Certification

Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 137.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: E0001

Process: B02

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 137.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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

- 1) Submit to the Department an acceptable protocol for the testing of particulate emission limit cited in this condition.
- 2) Perform a stack test, based upon the approved test protocol, to determine compliance with the particulate emission limit cited in this condition.
- 3) All records shall be maintained at the facility for a

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minimum of five years.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: Method 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 138: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 6 NYCRR 227-2.4 (f) (3)

Item 138.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: E0001

Process: BNG

Emission Source: S0001

Regulated Contaminant(s):

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

Item 138.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition applies to stationary internal combustion engines that have a maximum mechanical output rating equal to or greater than 200 brake horsepower in a severe ozone nonattainment area or 400 brake horsepower outside a severe ozone nonattainment area and are fired by distillate oil. The owner or operator is required to submit a compliance testing protocol to the department for approval at least 30 days prior to testing. The owner or operator will maintain all records on-site for a minimum of five years.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 2.3 grams per brake horsepower-hour

Reference Test Method: 40 CFR 60 Appendix A - Method 7, 7E, or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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



Condition 139: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 139.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: E0001
Process: BNG Emission Source: S0004

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

Item 139.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Optional:

The owner or operator of a mid-size boiler (> 50 and equal to or < 100 MM Btu/hr) may opt to employ a continuous emissions monitoring system (CEMS), or equivalent, in lieu of the monitoring requirements to perform compliance stack (emission) tests as described in subdivision (c) of this section in order to verify the NO_x emission limit compliance. Those owners/operators of mid-size boilers which opt to monitor emissions with a CEMS or equivalent shall follow the requirements of subdivision (b) of this section to demonstrate compliance, including a 24 hour daily arithmetic average NO_x emission rate.

(b) CEMS Requirements:

(1) The owner or operator of a source subject to paragraph (a)(1), (2), or (5) of this section that is obligated to submit a compliance plan required under section 227-2.3(a) and (b) of this Subpart must submit for department approval:

(i) a preliminary CEMS plan as part of the compliance plan if it has a CEMS in place, or are in the process of procuring or installing a CEMS;

(ii) a preliminary CEMS plan at least 180 days prior to equipment installation. The department will notify the owner or operator of the acceptability of the plan, at least 60 days prior to equipment installation if it is not covered under subparagraph (i) of this paragraph; or



(iii) a proposed equivalent monitoring plan.

(2) The owner or operator of a source subject to paragraph (a)(1), (2) or (5) of this section that is obligated to submit a compliance plan required under section 227-2.3(a) and (b) of this Subpart must submit a CEMS certification protocol at least 60 days prior to compliance testing. The location of and specifications for each instrument or device, as well as procedures for calibration, operation, data evaluation and data reporting, must be approved by the department.

(3) The owner or operator of a stationary internal combustion engine (source) subject to paragraph (a)(1), (2) or (5) of this section must install, calibrate, maintain, and operate a CEMS for measuring NO_x at locations approved in the CEMS certification protocol under paragraph (2) of this subdivision, and must record the output of each such system. The following procedures and test methods must be used for determining compliance with the appropriate NO_x emission limit under section 227-2.4 of this Subpart:

(i) The owner or operator of a source subject to paragraphs (a)(1) and (2) of this section must:

(a) calculate all 24-hour daily heat input weighted average NO_x emission rates from block hourly arithmetic emission rate averages calculated by the CEMS and expressed in terms of pounds of NO_x per million Btu;

(b) demonstrate compliance with the appropriate emission limit under section 227-2.4 of this Subpart by using a CEMS for measuring NO_x and calculating a 24-hour daily heat input-weighted average NO_x emission rate using 40 CFR part 60, Appendix A, Method 19 for non-turbine sources. A 30-day rolling heat input-weighted average emission rate may be used to demonstrate compliance with the appropriate emission limit under section 227-2.4 of this Subpart from October 1 to April 30 for non-turbine sources; and

(c) determine the 24-hour daily heat input-weighted average NO_x emission rate based on the heat input-weighted average of the block hourly arithmetic average emission rates during each 24-hour daily period from 12:00 midnight to 12:00 midnight the following day using CEMS data. The block hourly heat input-weighted average emission rate must be calculated for each one hour period starting with the period 12:00 midnight to 1:00 a.m. and continuing through until the last period 11:00



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p.m. to 12:00 midnight; or starting with the period 12:00 noon to 1:00 p.m. and continuing through the last period 11:00 a.m. to 12:00 noon. The 30-day rolling heat input-weighted average must be the average of the 24-hour daily heat input-weighted NOx emission rate.

Manufacturer Name/Model Number: CEMS for the BABCOCK WILCOX FM 106

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: Method 7, 7E or 19

Monitoring Frequency: CONTINUOUS

Averaging Method: 24 HOUR DAILY AVERAGE (GEOMETRIC MEAN

- APP. A, METHOD 19)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2016.

Subsequent reports are due every 3 calendar month(s).

Condition 140: Applicability of General Provisions of 40 CFR 60 Subpart A Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 60, NSPS Subpart A

Item 140.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001

Process: BNG

Emission

Source: S0004

Item 140.2:

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

Condition 141: EPA Region 2 address. Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 60.4, NSPS Subpart A

Item 141.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001

Process: BNG

Emission

Source: S0004

Item 141.2:

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

Director, Division of Enforcement and Compliance Assistance

USEPA Region 2

290 Broadway, 21st Floor

New York State Department of Environmental Conservation

Permit ID: 2-6002-00105/00002

Facility DEC ID: 2600200105



New York, NY 10007-1886

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

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

**Condition 142: Date of Construction Notification - if a COM is used.
Effective between the dates of 08/01/2016 and 07/31/2021**

Applicable Federal Requirement: 40CFR 60.7(a), NSPS Subpart A

Item 142.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: BNG Emission
Source: S0004

Item 142.2:

Any owner or operator subject to this part shall furnish the Administrator with the following information:

- 1) a notification of the date construction or reconstruction commenced, postmarked no later than 30 days after such date;
- 3) a notification of the actual date of initial start up, postmarked within 15 days after such date;
- 4) a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless the change is specifically exempted under 40 CFR 60. The notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capability of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional information regarding the change;
- 5) a notification of the date upon which the demonstration of continuous monitoring system performance commences, postmarked not less than 30 days prior to such date;
- 6) a notification of the anticipated date for conducting the opacity observations, postmarked not less than 30 days prior to such date; and

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7) a notification that continuous opacity monitoring system data results will be used to determine compliance with the applicable opacity standard during the performance test, postmarked not less than 30 days prior to the performance test.

Condition 143: Recordkeeping requirements.
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 60.7(b), NSPS Subpart A

Item 143.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: BNG Emission
Source: S0004

Item 143.2:

Affected owners or operators shall maintain records of occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

Condition 144: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 60.7(c), NSPS Subpart A

Item 144.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: E0001
Process: BNG Emission Source: S0004

Item 144.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Affected owners or operators shall submit an excess emissions report semi-annually based on the calendar year (or more frequently as required by the applicable Subpart or the Administrator), to the Administrator. These reports shall be postmarked no later than 30 calendar days following the end of the reporting period, and shall contain the following information:

1) the magnitude of excess emissions computed, any conversion factors used, the date and time of each occurrence, and the process operating time during the reporting period;

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- 2) specific identification of each period of excess emissions that occur during startup, shutdown, or malfunction, where the nature, cause, and corrective action are provided for a malfunction;
- 3) the date and time identifying each period during which the continuous monitoring system was inoperative except for zero span checks and the nature of the system repairs or adjustments; and
- 4) when no excess emissions have occurred or when the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be provided in the report.

Monitoring Frequency: CONTINUOUS
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 145: Excess Emissions Report
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 60.7(d), NSPS Subpart A

Item 145.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: BNG Emission
Source: S0004

Item 145.2:

A summary report form, for each pollutant monitored, shall be sent to the Administrator in the form prescribed in Figure 1 of 40 CFR Part 60.7(d).

Condition 146: Facility files for subject sources.
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 60.7(f), NSPS Subpart A

Item 146.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: BNG Emission
Source: S0004

Item 146.2:

The following files shall be maintained at the facility for all affected sources: all measurements, including continuous monitoring systems, monitoring device, and performance testing measurements; all continuous monitoring system evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and

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maintenance performed on these systems or devices; and all other information required by this part, recorded in permanent form suitable for inspection. The file shall be maintained for at least two years following the date of such measurements, reports, and records.

Condition 147: Performance testing timeline.
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 147.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: BNG Emission
Source: S0004

Item 147.2:

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

Condition 148: Performance test methods.
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 148.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: BNG Emission
Source: S0004

Item 148.2:

Performance testing shall be conducted in accordance with the methods and procedures prescribed in this part or by alternative methods and procedures approved by the Administrator.

Condition 149: Required performance test information.
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 149.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: BNG Emission
Source: S0004

Item 149.2:

Performance tests shall be conducted under such conditions specified by the



Administrator, based upon representative performance data supplied by the owner or operate of the facility.

Condition 150: Prior notice.
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 150.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: BNG Emission
Source: S0004

Item 150.2:

The owner or operator shall provide the Administrator with prior notice of any performance test at least 30 days in advance of testing.

Condition 151: Performance testing facilities.
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 151.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: BNG Emission
Source: S0004

Item 151.2:

The following performance testing facilities shall be provided during all tests:

- 1) sampling ports adequate for tests methods applicable to such facility;
- 2) a safe sampling platform;
- 3) a safe access to the sampling platform; and
- 4) utilities for sampling and testing equipment.

Condition 152: Number of required tests.
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 152.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: BNG Emission

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Source: S0004

Item 152.2:

Each performance test shall consist of three separate runs, at the specified duration required in the applicable test method. Compliance with all applicable standards shall be determined by using the arithmetic means of the results of the three runs.

Condition 153: Availability of information.
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 60.9, NSPS Subpart A

Item 153.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: BNG Emission

Source: S0004

Item 153.2:

The availability to the public of information provided to, or otherwise obtained by, the Administrator under this part shall be governed by part 2 of this chapter.

Condition 154: Opacity standard compliance testing.
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 60.11, NSPS Subpart A

Item 154.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: BNG Emission

Source: S0004

Item 154.2:

The following conditions shall be used to determine compliance with the opacity standards:

1) observations shall be conducted in accordance with Reference Method 9, in Appendix A or this Part 40 CFR 60(or an equivalent method approved by the Administrator including continuous opacity monitors);

2) the opacity standards apply at all times except during periods of start up, shutdown, and malfunction; and

3) all other applicable conditions cited in section 60.11 of this part.

Condition 155: Circumvention.
Effective between the dates of 08/01/2016 and 07/31/2021



Applicable Federal Requirement:40CFR 60.12, NSPS Subpart A

Item 155.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: BNG Emission
Source: S0004

Item 155.2:

No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

Condition 156: Monitoring requirements.
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 60.13, NSPS Subpart A

Item 156.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001
Process: BNG Emission
Source: S0004

Item 156.2:

All continuous monitoring systems and devices shall be installed, calibrated, maintained, and operated in accordance with the requirements of section 60.13.

Condition 157: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:6 NYCRR 212.2

Item 157.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002 Emission Point: E0002
Process: ETO Emission Source: ST009

Regulated Contaminant(s):
CAS No: 000075-21-8 ETHYLENE OXIDE

Item 157.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

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Monitoring Description:

ETO Sterilizers will be operated once a day, five days a week and 52 weeks a year.

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

Ethylene oxide is listed in Table II of Air Guide 1 as a high toxicity air contaminant due to the high potential for causing adverse effects on receptors or the environment as a result of exposure. As such, according to the criteria of Table 1 of 6 NYCRR 212.2, an "A" environmental rating is assigned. Therefore, the owner or the operator of the affected facility must control ethylene oxide emissions to achieve 99% contaminant capture. This is usually achieved by the installation and use of an abator (Emission control ST009 - AMSCO EtO abator).

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: ETHYLENE OXIDE

Manufacturer Name/Model Number: AMSCO EtO abator (DONALDSON abator)

Parameter Monitored: ETHYLENE OXIDE

Lower Permit Limit: 99 percent

Reference Test Method: EPA APPROVED METHOD

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 24-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 158: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 6 NYCRR 212.3 (a)

Item 158.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Emission Point: E0002

Process: ETO

Emission Source: ST009

Regulated Contaminant(s):

CAS No: 000075-21-8

ETHYLENE OXIDE

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Item 158.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

EtO sterilization - abator operation required during sterilization. The EtO abator must be in operation whenever EtO sterilization is conducted. No person will cause or allow emissions that violate the requirement specified in Table 2, 3, or Table 4 of 6 NYCRR Part 212 for the environmental rating issued by the Commissioner. Either 99% or greater air cleaning or BACT (Best Available Control Technology) is required for EtO emissions from this source (sterilizer).

Montefiore Medical Center has chosen BACT as the method of controlling the EtO emissions from the EtO sterilizer by having an abator (AMSCO 50 CFM EtO abator), which is identified as Emission Control ST012 in Emission Unit U-00002.

The two new ethylene oxide sterilizer (Emission Sources ST007 & ST008) have a built in aerator and are equipped with an abator (Emission Control ST009) which controls the EtO emission to a maximum of 0.0044 pounds per hour in Emission Point 00002 and Emission Unit U-00020. The EtO gas emissions from the sterilizers are exhausted through the abator after being reduced to 0.0441 lb/hr with the control of the abator and then through a dedicated stack which is identified as Emission Point E0002 in Emission Unit U-00002 and then, the EtO gas emissions are discharged out to the atmosphere.

Compliance of the EtO gas emissions from the sterilizer to the atmosphere with the limit of 0.0441 pounds per hour in Emission Point E0002 and Emission Unit U-00002 is to be verified with a stack test once during the term of the permit.

Manufacturer Name/Model Number: AMSCO EtO abator (DONALDSON abator)

Parameter Monitored: ETHYLENE OXIDE

Upper Permit Limit: 0.0441 pounds per hour

Reference Test Method: Part 60, Method 18

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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



Condition 159: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 6 NYCRR 212.6 (a)

Item 159.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002	Emission Point: E0002
Process: ETO	Emission Source: ST009

Item 159.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

No person shall cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source, except only the emission of uncombined water. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

The permittee will conduct observations of visible emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency stated below while the process is in operation. The permittee will immediately investigate any instance where there is cause to believe that visible emissions above those that are normal and in compliance are occurring or have occurred from a process source.

If visible emissions above those that are normal (this may be zero percent opacity for many or all emission sources) and in compliance with section 212.6(a) are detected, the permittee shall determine the cause, make the necessary correction, and verify that the excess visible emissions problem has been corrected.

If visible emissions above those that are normal and in compliance continue to be present after corrections are made, the permittee will immediately notify The Department and conduct a Method 9 assessment within 24 hours to determine the degree of opacity.

Records of these observations, investigations and corrective actions will be kept on-site in a format acceptable to the Department and the semiannual progress report and annual compliance certifications required of all permittees subject to Title V must include a summary of these instances.



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Reference Test Method: Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 160: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 6 NYCRR 212.9 (b)

Item 160.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Emission Point: E0002

Process: ETO

Emission Source: ST009

Regulated Contaminant(s):

CAS No: 000075-21-8 ETHYLENE OXIDE

Item 160.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The EtO abator must be in operation whenever EtO sterilization is conducted. The operation of the ethylene oxide abator is monitored for compliance in accordance with manufacturer's instructions. The owner/operator shall maintain a log containing the following information:

1. The date and the number of sterilization loads.
2. The quantity of sterilization gas used in pounds per hour, per day and per year.
3. The date and time of sterilizer and/or abator malfunctions and maintenance.
4. Records are to be maintained on site for a period of five (5) years.

Manufacturer Name/Model Number: AMSCO EtO abator (DONALDSON abator)

Reference Test Method: Keep Records

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

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Condition 161: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 6 NYCRR 212.2

Item 161.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002 Emission Point: E0002
Process: ETO Emission Source: ST012

Regulated Contaminant(s):
CAS No: 000075-21-8 ETHYLENE OXIDE

Item 161.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

ETO Sterilizers will be operated once a day, five days a week and 52 weeks a year.

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

Ethylene oxide is listed in Table II of Air Guide 1 as a high toxicity air contaminant due to the high potential for causing adverse effects on receptors or the environment as a result of exposure. As such, according to the criteria of Table 1 of 6 NYCRR 212.2, an "A" environmental rating is assigned. Therefore, the owner or the operator of the affected facility must control ethylene oxide emissions to achieve 99% contaminant capture. This is usually achieved by the installation and use of an abator (Emission control ST012 - AMSCO EtO abator).

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: ETHYLENE OXIDE
Manufacturer Name/Model Number: AMSCO 50 CFM EtO Abator
Parameter Monitored: ETHYLENE OXIDE
Lower Permit Limit: 99 percent
Reference Test Method: EPA APPROVED METHOD
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION



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Averaging Method: 24-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 162: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 6 NYCRR 212.3 (a)

Item 162.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002	Emission Point: E0002
Process: ETO	Emission Source: ST012

Regulated Contaminant(s):
CAS No: 000075-21-8 ETHYLENE OXIDE

Item 162.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

EtO sterilization - abator operation required during sterilization. The EtO abator must be in operation whenever EtO sterilization is conducted. No person will cause or allow emissions that violate the requirement specified in Table 2, 3, or Table 4 of 6 NYCRR Part 212 for the environmental rating issued by the Commissioner. Either 99% or greater air cleaning or BACT (Best Available Control Technology) is required for EtO emissions from this source (sterilizer).

Montefiore Medical Center has chosen BACT as the method of controlling the EtO emissions from the EtO sterilizer by having an abator (AMSCO 50 CFM EtO abator), which is identified as Emission Control ST012 in Emission Unit U-00002.

The two new ethylene oxide sterilizer (Emission Sources ST010 & ST011) have a built in aerator and are equipped with an abator (Emission Control ST012) which controls the EtO emission to a maximum of 0.0044 pounds per hour in Emission Point 00020 and Emission Unit U-00002. The EtO gas emissions from the sterilizers are exhausted through the abator after being reduced to 0.0441 lb/hr with the control of the abator and then through a dedicated stack which is identified as Emission Point E0002 in Emission Unit U-00002 and then, the EtO gas emissions are

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discharged out to the atmosphere.

Compliance of the EtO gas emissions from the sterilizer to the atmosphere with the limit of 0.0441 pounds per hour in Emission Point E0002 and Emission Unit U-00002 is to be verified with a stack test once during the term of the permit.

Manufacturer Name/Model Number: AMSCO 50 CFM EtO Abator
Parameter Monitored: ETHYLENE OXIDE
Upper Permit Limit: 0.0441 pounds per hour
Reference Test Method: Part 60, Method 18
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 163: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 6 NYCRR 212.6 (a)

Item 163.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002	Emission Point: E0002
Process: ETO	Emission Source: ST012

Item 163.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

No person shall cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source, except only the emission of uncombined water. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

The permittee will conduct observations of visible emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency stated below while the process is in operation. The permittee will immediately investigate any instance where there is cause to believe that visible emissions above those that are normal and in compliance are occurring or have occurred from a process source.

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If visible emissions above those that are normal (this may be zero percent opacity for many or all emission sources) and in compliance with section 212.6(a) are detected, the permittee shall determine the cause, make the necessary correction, and verify that the excess visible emissions problem has been corrected.

If visible emissions above those that are normal and in compliance continue to be present after corrections are made, the permittee will immediately notify The Department and conduct a Method 9 assessment within 24 hours to determine the degree of opacity.

Records of these observations, investigations and corrective actions will be kept on-site in a format acceptable to the Department and the semiannual progress report and annual compliance certifications required of all permittees subject to Title V must include a summary of these instances.

Reference Test Method: Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 164: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 6 NYCRR 212.9 (b)

Item 164.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Emission Point: E0002

Process: ETO

Emission Source: ST012

Regulated Contaminant(s):

CAS No: 000075-21-8 ETHYLENE OXIDE

Item 164.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The EtO abator must be in operation whenever EtO sterilization is conducted. The operation of the ethylene oxide abator is monitored for compliance in accordance

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with manufacturer's instructions. The owner/operator shall maintain a log containing the following information:

1. The date and the number of sterilization loads.
2. The quantity of sterilization gas used in pounds per hour, per day and per year.
3. The date and time of sterilizer and/or abator malfunctions and maintenance.
4. Records are to be maintained on site for a period of five (5) years.

Manufacturer Name/Model Number: AMSCO 50 CFM EtO Abator
Reference Test Method: Keep Records
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 165: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:40CFR 60.334, NSPS Subpart GG

Item 165.1:
The Compliance Certification activity will be performed for:

Emission Unit: U-C0003

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

Item 165.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

The type and amount of fuel burned in the combustion turbine and duct burner must be monitored and recorded within an accuracy of +/-5 %.

Reference Test Method: Part 60 Appendix B & F
Monitoring Frequency: CONTINUOUS
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 166: Test methods and procedures for NOx emission testing
Effective between the dates of 08/01/2016 and 07/31/2021



Applicable Federal Requirement: 40CFR 60.335(b), NSPS Subpart GG

Item 166.1:

This Condition applies to Emission Unit: U-C0003

Item 166.2:

The owner or operator shall determine compliance with the applicable nitrogen oxides emission limitation in §60.332 and shall meet the performance test requirements of §60.8 as follows:

(1) For each run of the performance test, the mean nitrogen oxides emission concentration (NO_x) corrected to 15 percent O₂ shall be corrected to ISO standard conditions using the following equation. Notwithstanding this requirement, use of the ISO correction equation is optional for: Lean premix stationary combustion turbines; units used in association with heat recovery steam generators (HRSG) equipped with duct burners; and units equipped with add-on emission control devices:

$$NO_x = (NO_{xo}) (Pr/Po)^{0.5} e^{19 (Ho - 0.00633) (288^\circ K / Ta)^{1.53}}$$

Where:

NO_x = emission concentration of NO_x at 15 percent O₂ and ISO standard ambient conditions, ppm by volume, dry basis, NO_{xo} = mean observed NO_x concentration, ppm by volume, dry basis, at 15 percent O₂, Pr = reference combustor inlet absolute pressure at 101.3 kilopascals ambient pressure, mm Hg, Po = observed combustor inlet absolute pressure at test, mm Hg, Ho = observed humidity of ambient air, g H₂O/g air, e = transcendental constant, 2.718, and Ta = ambient temperature, °K.

(2) The 3-run performance test required by §60.8 must be performed within ±5 percent at 30, 50, 75, and 90-to-100 percent of peak load or at four evenly-spaced load points in the normal operating range of the gas turbine, including the minimum point in the operating range and 90-to-100 percent of peak load, or at the highest achievable load point if 90-to-100 percent of peak load cannot be physically achieved in practice. If the turbine combusts both oil and gas as primary or backup fuels, separate performance testing is required for each fuel. Notwithstanding these requirements, performance testing is not required for any emergency fuel (as defined in §60.331).

(3) For a combined cycle turbine system with supplemental heat (duct burner), the owner or operator may elect to measure the turbine NO_x emissions after the duct burner rather than directly after the turbine. If the owner or operator elects to use this alternative sampling location, the applicable NO_x emission limit in §60.332 for the combustion turbine must still be met.

(4) If water or steam injection is used to control NO_x with no additional post-combustion NO_x control and the owner or operator chooses to monitor the steam or water to fuel ratio in accordance with §60.334(a), then that monitoring system must be operated concurrently with each EPA Method 20, ASTM D6522-00 (incorporated by reference, see §60.17), or EPA Method 7E run and shall be used to determine the fuel consumption and the steam or water to fuel ratio necessary to comply with the applicable §60.332 NO_x emission limit.



(5) If the owner operator elects to claim an emission allowance for fuel bound nitrogen as described in §60.332, then concurrently with each reference method run, a representative sample of the fuel used shall be collected and analyzed, following the applicable procedures described in §60.335(b)(9). These data shall be used to determine the maximum fuel nitrogen content for which the established water (or steam) to fuel ratio will be valid.

(6) If the owner or operator elects to install a CEMS, the performance evaluation of the CEMS may either be conducted separately (as described in paragraph (b)(7) of this section) or as part of the initial performance test of the affected unit.

(7) If the owner or operator elects to install and certify a NO_x CEMS under §60.334(e), then the initial performance test required under §60.8 may be done in the following alternative manner:

(i) Perform a minimum of 9 reference method runs, with a minimum time per run of 21 minutes, at a single load level, between 90 and 100 percent of peak (or the highest physically achievable) load.

(ii) Use the test data both to demonstrate compliance with the applicable NO_x emission limit under §60.332 and to provide the required reference method data for the RATA of the CEMS described under §60.334(b).

(iii) The requirement to test at three additional load levels is waived.

(8) If the owner or operator is required under §60.334(f) to monitor combustion parameters or parameters indicative of proper operation of NO_x emission controls, the appropriate parameters shall be continuously monitored and recorded during each run of the initial performance test, to establish acceptable operating ranges, for purposes of the parameter monitoring plan for the affected unit, as specified in §60.334(g).

(9) To determine the fuel bound nitrogen content of fuel being fired (if an emission allowance is claimed for fuel bound nitrogen), the owner or operator may use equipment and procedures meeting the requirements of:

(i) For liquid fuels, ASTM D2597–94 (Reapproved 1999), D6366–99, D4629–02, D5762–02 (all of which are incorporated by reference, see §60.17); or

(ii) For gaseous fuels, shall use analytical methods and procedures that are accurate to within 5 percent of the instrument range and are approved by the Administrator.

(10) If the owner or operator is required under §60.334(i)(1) or (3) to periodically determine the sulfur content of the fuel combusted in the turbine, a minimum of three fuel samples shall be collected during the performance test. Analyze the samples for the total sulfur content of the fuel using:

(i) For liquid fuels, ASTM D129–00, D2622–98, D4294–02, D1266–98, D5453–00 or D1552–01 (all of which are incorporated by reference, see §60.17); or

(ii) For gaseous fuels, ASTM D1072–80, 90 (Reapproved 1994); D3246–81, 92, 96;

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D4468-85 (Reapproved 2000); or D6667-01 (all of which are incorporated by reference, see §60.17). The applicable ranges of some ASTM methods mentioned above are not adequate to measure the levels of sulfur in some fuel gases. Dilution of samples before analysis (with verification of the dilution ratio) may be used, subject to the prior approval of the Administrator.

(11) The fuel analyses required under paragraphs (b)(9) and (b)(10) of this section may be performed by the owner or operator, a service contractor retained by the owner or operator, the fuel vendor, or any other qualified agency.

Condition 167: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 6 NYCRR 227-1.3

Item 167.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-C0003 Emission Point: EP003

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 167.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Stack opacity shall not exceed 20 percent (six minute average), except for one six-minute period per hour of not more than 27 percent opacity. Compliance with this standard may be determined by EPA Reference Method 9, Continuous Opacity Monitoring System (COMS) data, and/or any other credible evidence. The owner shall install, operate in accordance with manufacturer's instructions, and properly maintain, a COMS in the stack satisfying the criteria in Appendix B of 40 CFR part 60.

The owner shall submit an accurate excess emissions and monitoring system performance report to the Department for each calendar year quarter. All reports shall be certified by a responsible corporate official as true, accurate and complete and post marked by the 60th day following the end of each calendar year quarter. The quarterly excess emissions report shall be submitted in a form acceptable to the Department and shall include the following minimum information:

(1) The magnitude, date and time of each six minute block average during which the average opacity of emissions

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exceeds 20 percent, except for one six minute block average per hour not to exceed 27 percent;

(2) For each period of excess emissions, specific identification of the cause and corrective action taken;

(3) Identification of all periods of COMS down time, including the date, time and duration of each inoperable period, and the cause and corrective action for each COMS down time period;

(4) The total time in which the COMS are required to record data during the reporting period;

(5) The total number of exceedances and the duration of exceedances expressed as a percentage of the total time which the COMS are required to record data.

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: 40 CFR 60 APP B RM 9
Monitoring Frequency: CONTINUOUS
Averaging Method: 6 MINUTE AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 60 days after the reporting period.
The initial report is due 11/29/2016.
Subsequent reports are due every 3 calendar month(s).

Condition 168: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 168.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-C0003

Emission Point: EP003

Item 168.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average utilizing a continuous opacity monitor (COM).

Parameter Monitored: OPACITY

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Permit ID: 2-6002-00105/00002

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Upper Permit Limit: 20 percent
Monitoring Frequency: CONTINUOUS
Averaging Method: 6 MINUTE AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 60 days after the reporting period.
The initial report is due 11/29/2016.
Subsequent reports are due every 3 calendar month(s).

Condition 169: Capping Monitoring Condition
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 169.1:

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

6 NYCRR Subpart 231-2

Item 169.2:

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

Item 169.3:

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

Item 169.4:

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

Item 169.5:

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

Item 169.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-C0003
Process: P03

Emission Point: EP003
Emission Source: ES006

Regulated Contaminant(s):

New York State Department of Environmental Conservation

Permit ID: 2-6002-00105/00002

Facility DEC ID: 2600200105



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

Item 169.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

Stack testing:

Semi-annually, Montefiore Medical Center is required to stack test the 4.83 megawatt combustion turbine-generator to verify the NOx emissions compliance with 6 NYCRR 227-2.6(a) to reflect the compliance of the GOALLINE/SCONOX with the 90 % control efficiency of the NOx control when operating on natural gas. The facility can be exempt from the semi-annually stack testing of the 4.83 megawatt combustion turbine-generator ONLY if the facility opts to install and employ CEMS (continuous emissions monitoring system) or equivalent to monitor the NOx emission. The requirements and procedures for CEMS are summarized in 6 NYCRR 227-2.6(b). The New York State Department of Environmental Conservation (NYSDEC) sets these emission limits as part of the NOx emissions capping limit out of New Source Review, 6 NYCRR 231-2. Since EPA requires Title V facilities to have periodic monitoring, therefore, either a semiannual stack testing or CEMS is required. According to an e-mail on 3/9/2004 from Mr. Ed Pflieger at Montefiore Medical Center to Diana Menasha of NYSDEC, Montefiore Medical Center has chosen to comply by performing the semi-annual stack testing.

The facility shall perform a semi-annual inspection and test (acceptable to the Commissioner) to prove the 90% control efficiency of the NOx control equipment installed, maintained, and operated at this facility for Process P03 (natural gas) and Emission Source ES006 (4.83 megawatt Solar Taurus 60 turbine). Emission Control ES008 (GOALLINE/SCONOX) is the emission control for Emission Sources ES006 and ES007.

The facility is currently performing a semi-annual NOx performance test on Emission Sources S0006 & S0007. The facility has been submitting tests reports showing this 90% control efficiency when operating on natural gas.

Process Material: NATURAL GAS

Parameter Monitored: OXIDES OF NITROGEN

Lower Permit Limit: 90 percent

Reference Test Method: PT 60, APP A, M 7E

Monitoring Frequency: SEMI-ANNUALLY



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Permit ID: 2-6002-00105/00002

Facility DEC ID: 2600200105

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 170: Capping Monitoring Condition
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 170.1:

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

6 NYCRR Subpart 231-2

Item 170.2:

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

Item 170.3:

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

Item 170.4:

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

Item 170.5:

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

Item 170.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-C0003

Emission Point: EP003

Process: P03

Emission Source: ES006

Regulated Contaminant(s):

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

New York State Department of Environmental Conservation

Permit ID: 2-6002-00105/00002

Facility DEC ID: 2600200105



Item 170.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

The natural gas usage for the gas combustion turbine-generator and duct burner combination (Emission Sources ES006 & ES007) in Processes P03 & P06 shall not exceed 714 million cubic feet of gas per year, based upon an annual 12- month rolling average. The facility shall monitor this limitation by installing and maintaining a non-resettable gas flow meter on the turbine/duct burner gas supply line. The gas flow meter is manufactured by Generic and the gas flow meter transmitter is Generic Remote Flow Transmitter. The facility shall maintain a bound log of the monthly fuel records (from the meter) for a minimum of five (5) years.

Emission Control ES008 (GOALLINE/SCONOX) is the emission control for Emission Sources ES006 and ES007.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: NATURAL GAS

Manufacturer Name/Model Number: GENERIC

Upper Permit Limit: 714 million cubic feet per year

Reference Test Method: PT 60, APP A, M 7E

Monitoring Frequency: CONTINUOUS

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 171: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 171.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-C0003

Emission Point: EP003

Process: P04

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 171.2:

Compliance Certification shall include the following monitoring:

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Permit ID: 2-6002-00105/00002

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Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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

- 1) Submit to the Department an acceptable protocol for the testing of particulate emission limit cited in this condition.
- 2) Perform a stack test, based upon the approved test protocol, to determine compliance with the particulate emission limit cited in this condition.
- 3) All records shall be maintained at the facility for a minimum of five years.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: Method 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 172: Capping Monitoring Condition
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 172.1:

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

6 NYCRR Subpart 231-2

Item 172.2:

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

Item 172.3:

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

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Item 172.4:

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

Item 172.5:

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

Item 172.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-C0003 Emission Point: EP003
Process: P04 Emission Source: ES006

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

Item 172.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

The distillate oil usage for the combustion turbine-generator (Emission Source ES006) in Process P04 shall not exceed 520,000 gallons per year, based upon an annual 12- month rolling average. The facility shall monitor this limitation by installing and maintaining a non-resetable fuel flow meter on the oil supply line to the combustion turbine-generator. The facility shall maintain a bound log of the monthly fuel records (from the meter) for a minimum of five (5) years.

Emission Control ES008 (GOALLINE/SCONOX) is the emission control for Emission Sources ES006 and ES007.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Manufacturer Name/Model Number: Non-resetable fuel flow meter on the oil line to the gas turbine

Upper Permit Limit: 520 thousand gallons per year

Reference Test Method: PT 60, APP A, M 7E

Monitoring Frequency: CONTINUOUS

Averaging Method: ANNUAL MINIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)



New York State Department of Environmental Conservation

Permit ID: 2-6002-00105/00002

Facility DEC ID: 2600200105

Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 173: Capping Monitoring Condition
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 173.1:

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

6 NYCRR Subpart 231-2

Item 173.2:

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

Item 173.3:

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

Item 173.4:

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

Item 173.5:

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

Item 173.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-C0003 Emission Point: EP003
Process: P04 Emission Source: ES006

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

Item 173.7:

Compliance Certification shall include the following monitoring:

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Permit ID: 2-6002-00105/00002

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Capping: Yes

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

Monitoring Description:

Stack testing:

Semi-annually, Montefiore Medical Center is required to stack test the 4.83 megawatt combustion turbine-generator to verify the NOx emissions compliance with 6 NYCRR 227-2.6(a) to reflect the compliance of the GOALLINE/SCONOX with the 80 % control efficiency of the NOx control when operating on distillate oil. The facility can be exempt from the semi-annually stack testing of the 4.83 megawatt combustion turbine-generator ONLY if the facility opts to install and employ CEMS (continuous emissions monitoring system) or equivalent to monitor the NOx emission. The requirements and procedures for CEMS are summarized in 6 NYCRR 227-2.6(b). The New York State Department of Environmental Conservation (NYSDEC) sets these emission limits as part of the NOx emissions capping limit out of New Source Review, 6 NYCRR 231-2. Since EPA requires Title V facilities to have periodic monitoring, therefore, either a semi-annual stack testing or CEMS is required. According to an e-mail on 3/9/2004 from Mr. Ed Pflieger at Montefiore Medical Center to Diana Menasha of NYSDEC, Montefiore Medical Center has chosen to comply by performing the semi-annual stack testing.

The facility shall perform a semi-annual inspection and test (acceptable to the Commissioner) to prove the 80% control efficiency of the NOx control equipment installed, maintained, and operated at this facility for Process P04 (distillate oil) and Emission Source S0006 (4.83 megawatt Solar Taurus 60 turbine). Emission Control ES008 (GOALLINE/SCONOX) is the emission control for Emission Sources ES006 and ES007.

The facility is currently performing a semi-annual NOx performance test on Emission Sources S0006 & S0007. The facility has been submitting tests reports showing this 80% control efficiency when operating on distillate oil.

Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Manufacturer Name/Model Number: Non-resetable fuel flow meter on the oil line to the gas turbine

Parameter Monitored: OXIDES OF NITROGEN

Lower Permit Limit: 80 percent

Reference Test Method: PT 60, APP A, M 7E

Monitoring Frequency: SEMI-ANNUALLY

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

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Permit ID: 2-6002-00105/00002

Facility DEC ID: 2600200105



Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 174: Capping Monitoring Condition
Effective between the dates of 08/01/2016 and 07/31/2021

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 174.1:

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

6 NYCRR Subpart 231-2

Item 174.2:

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

Item 174.3:

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

Item 174.4:

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

Item 174.5:

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

Item 174.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-C0003

Emission Point: EP003

Process: P06

Emission Source: ES007

Regulated Contaminant(s):

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

Item 174.7:

New York State Department of Environmental Conservation

Permit ID: 2-6002-00105/00002

Facility DEC ID: 2600200105



York State Department of Environmental Conservation (NYSDEC) sets these emission limits as part of the NOx emissions capping limit out of New Source Review, 6 NYCRR 231-2. Since EPA requires Title V facilities to have periodic monitoring, therefore, either a semi-annual stack testing or CEMS is required. According to an e-mail on 3/9/2004 from Mr. Ed Pflieger at Montefiore Medical Center to Diana Menasha of NYSDEC, Montefiore Medical Center has chosen to comply by performing the semi-annual stack testing.

The facility shall perform a semi-annual inspection and test (acceptable to the Commissioner) to prove the 90% control efficiency of the NOx control equipment installed, maintained, and operated at this facility for Process P06 (natural gas) and Emission Source ES007 (35 MM Btu/hr Forney Corp. duct burner). Emission Source ES007 (35 MM Btu/hr Forney Corp. duct burner) fires only natural gas and it is operated in conjunction with Emission Source ES006 (4.83 megawatt Solar Taurus 60 turbine). Emission Control ES008 (GOALLINE/SCONOX) is the emission control for Emission Sources ES006 and ES007.

The facility is currently performing a semi-annual NOx performance test on Emission Sources S0006 & S0007. The facility has been submitting tests reports showing this 90% control efficiency.

Process Material: NATURAL GAS

Manufacturer Name/Model Number: MicroMotion Model CMF200M419NC, Elite Model RFT9739E58CA

Parameter Monitored: OXIDES OF NITROGEN

Lower Permit Limit: 90 percent

Reference Test Method: PT 60, APP A, M 7E

Monitoring Frequency: SEMI-ANNUALLY

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 176: Compliance Certification
Effective between the dates of 08/01/2016 and 07/31/2021

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

Item 176.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-C0003

Emission Point: EP003

Process: P06

Emission Source: ES007

New York State Department of Environmental Conservation

Permit ID: 2-6002-00105/00002

Facility DEC ID: 2600200105



Item 176.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner and operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup, as provided by 40 CFR 60.7 of this part. This notification shall include:

- (1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.
- (2) If applicable, a copy of any Federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under 40 CFR 60.42c., or 40 CFR 60.43c.
- (3) The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.

Monitoring Frequency: SINGLE OCCURRENCE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION



STATE ONLY ENFORCEABLE CONDITIONS
****** Facility Level ******

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

Item A: Emergency Defense - 6 NYCRR 201-1.5

An emergency, as defined by subpart 201-2, constitutes an affirmative defense to penalties sought in an enforcement action brought by the Department 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 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 and maintained;

(3) During the period of the emergency the facility owner 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 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 or operator seeking to establish the occurrence of an emergency has the burden of proof.

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

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

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and



standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

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

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state applicable requirements and are not subject to compliance certification requirements unless otherwise noted or required under 6 NYCRR Part 201.

Condition 177: Contaminant List

Effective between the dates of 08/01/2016 and 07/31/2021

Applicable State Requirement:ECL 19-0301

Item 177.1:

Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).

CAS No: 000075-21-8
Name: ETHYLENE OXIDE

CAS No: 000630-08-0
Name: CARBON MONOXIDE

CAS No: 007446-09-5
Name: SULFUR DIOXIDE

CAS No: 0NY075-00-0
Name: PARTICULATES

CAS No: 0NY100-00-0
Name: TOTAL HAP

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

Condition 178: Malfunctions and start-up/shutdown activities

Effective between the dates of 08/01/2016 and 07/31/2021



