



**PERMIT**  
**Under the Environmental Conservation Law (ECL)**

**IDENTIFICATION INFORMATION**

Permit Type: Air Title V Facility  
Permit ID: 2-6103-00158/00001  
Effective Date: 03/16/2015 Expiration Date: 03/15/2020

Permit Issued To: THE NEW YORK METHODIST HOSPITAL  
506 6TH ST  
BROOKLYN, NY 11215-3609

Contact: EDUARDO LOWE  
NY METHODIST HOSPITAL ENGINEERING DEPT  
506 6TH ST  
BROOKLYN, NY 11215  
(718) 780-3317

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

Contact: EDUARDO LOWE  
THE NEW YORK METHODIST HOSPITAL  
506 6TH ST  
BROOKLYN, NY 11215  
(718) 780-3317

Description:

**PERMIT DESCRIPTION**  
**New York Methodist Hospital**  
**DEC ID # 2-6103-00158/00001 (Ren #3)**

This is an Air Title V renewal (Ren #3) permit application to seek renewal #3, to include Subpart ZZZZ conditions for the two identical Waukesha 940 KW co-generator engines (4-stroke, lean burn), and remove the oil firing process (Process O45) for the 30.6 MM Btu/hr boiler (Emission Source B0005).

The New York Methodist Hospital (NYMH) is an existing Air Title V facility that operates four (4) mid-size Cleaver-Brooks boilers. These include one 25.1 MM Btu/hr boiler (Emission Source 00001), one 31.4 MM Btu/hr boiler (Emission Source 00002), and two identical 30.6 MM Btu/hr Cleaver-Brooks boilers (Emission Sources B0004 & B0005). Emission Sources 00001, 00002 & B0004 boilers are capable of firing natural gas (Process BNG) as primary fuel and #2 fuel oil (Process BOI) as secondary fuel. One of the two 30.6 MM Btu/hr boilers (Emission Source B0005) has been modified to burn natural gas



only (Process BNG). The other three boilers (Emission Sources 00001, 00002 & B0004) are capable of firing natural gas (Process BNG) as primary fuel and #2 fuel oil (Process BOI) as secondary fuel. The hospital also operates two identical Waukesha 940 KW co-generator engines (Emission Sources 00004 & 00005), that fire natural gas only (Process CNG), and are used to produce electricity for hospital purposes.

The two identical Waukesha co-generator engines are rated at 940 KW (1259.6 hp or 3.21 MM Btu/hr) each and they are identified as Emission Sources 00004 & 00005. These engines are turbo (not naturally aspired) 4-stroke type and are lean burn internal combustion engines with compression ignition source. Each engine has 12 cylinders, and each cylinder is below 10 liters in volume. Their compression ratio is 8:1 and fuel LHV is 900 Btu/cubic feet. Flue gases exit through two separate identical stacks (Emission Points 00002 & 00003). Emission Point 00002 is associated with Emission Source 00004, and Emission Point 00003 is associated with Emission Source 00005. Typically, both engines are operated 85% of the time, except for repair and maintenance.

These co-generator engines are not EPA certified, however; new Federal Rule 40 CFR 63, Subpart ZZZZ is applicable and accordingly, the engines have been retrofitted with Carbon Monoxide (CO) Reduction Catalyst system (70% or more) with CPMS systems in November, 2013, to monitor exhaust inlet temperature and pressure drop on both engines. Initial performance testing was performed in April, 2014 which showed reduction efficiency in excess of 70%. Reports have been submitted to EPA and NYSDEC as required (semi-annually). Subsequent performance test, continuous monitoring, maintenance, recordkeeping and reporting is being performed per Subpart ZZZZ requirements. Subpart ZZZZ requirements/conditions are added to this permit.

The facility operates other sources which are considered exempt from permitting in accordance with 6 NYCRR 201-3.2 (c), including six (6) exempt boilers/water-heaters (under 10 MM Btu/hr each) in various hospital buildings (two 3.0 MM Btu/hr, and four < 1 MM Btu/hr), five (5) emergency generators (<500 hours per year each), and ten (10) fuel oil storage tanks (<300,000 barrels), which consist of four (4) underground storage tank (UST) for storing #2 fuel oil, one (1) AST for storing diesel fuel oil, and five (5) day tanks for supply of diesel to the generators.

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

**New York State Department of Environmental Conservation**  
**Facility DEC ID: 2610300158**



Special Conditions included as part of this permit.

Permit Administrator: JOHN F CRYAN  
NYSDEC - REGION 2  
47-40 21ST ST  
LONG ISLAND CITY, NY 11101-5407

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 separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

**Item 3.2:**

The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for 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: 2-6103-00158/00001

Facility DEC ID: 2610300158



**Permit Under the Environmental Conservation Law (ECL)**

**ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT**

**IDENTIFICATION INFORMATION**

Permit Issued To: THE NEW YORK METHODIST HOSPITAL  
506 6TH ST  
BROOKLYN, NY 11215-3609

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

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

Permit Effective Date: 03/16/2015

Permit Expiration Date: 03/15/2020



## 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 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 15 6 NYCRR 201-6.4 (a) (4): Requirement to Provide Information
- 16 6 NYCRR 201-6.4 (a) (8): Right to Inspect
- 17 6 NYCRR 201-6.4 (f) (6): Off Permit Changes
- 18 6 NYCRR 202-1.1: Required Emissions Tests
- 19 40 CFR Part 68: Accidental release provisions.
- 20 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 21 6 NYCRR Subpart 201-1: Compliance Certification
- 22 6 NYCRR Subpart 201-6: Emission Unit Definition
- 23 6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
- 24 6 NYCRR 202-2.5: Compliance Certification
- 25 6 NYCRR 211.1: Air pollution prohibited
- 26 6 NYCRR 225-1.2 (f): Compliance Certification
- 27 6 NYCRR 225-1.2 (g): Compliance Certification
- 28 6 NYCRR 225-1.2 (h): Compliance Certification
- 29 6 NYCRR 225-1.6: Compliance Certification
- 30 6 NYCRR 227-2.4 (c) (1) (ii): Compliance Certification
- 31 6 NYCRR 227-2.4 (c) (1) (ii): Compliance Certification
- 32 6 NYCRR 227-2.4 (f) (1): Compliance Certification
- 33 6 NYCRR 227.2 (b) (1): Compliance Certification
- 34 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 35 40CFR 60.7(b), NSPS Subpart A: Recordkeeping requirements.
- 36 40CFR 60.7(c), NSPS Subpart A: Compliance Certification
- 37 40CFR 60.7(d), NSPS Subpart A: Excess emissions report.
- 38 40CFR 60.7(f), NSPS Subpart A: Facility files for subject sources.
- 39 40CFR 60.9, NSPS Subpart A: Availability of information.
- 40 40CFR 60.14, NSPS Subpart A: Modifications.
- 41 40CFR 60.15, NSPS Subpart A: Reconstruction
- 42 40CFR 60, NSPS Subpart III: Applicability
- 43 40CFR 60, NSPS Subpart III: Compliance and Enforcement



- 44 40CFR 63, Subpart ZZZZ: Applicability
- 45 40CFR 63, Subpart ZZZZ: Compliance and Enforcement
- Emission Unit Level**
- 46 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 47 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

**EU=U-00001**

- 48 40CFR 60.7(a), NSPS Subpart A: Date of Construction Notification - if a COM is used.

**EU=U-00001,EP=00001**

- 49 6 NYCRR 227-1.3 (a): Compliance Certification
- 50 40CFR 60.43c(c), NSPS Subpart Dc: Compliance Certification
- 51 6 NYCRR 227-2.4 (c) (1) (ii): Compliance Certification

**EU=U-00001,EP=00001,Proc=BNG,ES=B0005**

- 52 6 NYCRR 227-2.4 (c) (1) (ii): Compliance Certification

**EU=U-00001,EP=00001,Proc=BOI**

- 53 40CFR 60.40c, NSPS Subpart Dc: Compliance Certification
- 54 40CFR 60.40c, NSPS Subpart Dc: Compliance Certification
- 55 40CFR 60.42c(d), NSPS Subpart Dc: Compliance Certification
- 56 40CFR 60.42c(h), NSPS Subpart Dc: Exemption from the averaging period.
- 57 40CFR 60.44c(h), NSPS Subpart Dc: Compliance Certification
- 58 40CFR 60.45c, NSPS Subpart Dc: Compliance methods for particulate matter.
- 59 40CFR 60.46c(d)(2), NSPS Subpart Dc: Compliance Certification
- 60 40CFR 60.47c, NSPS Subpart Dc: Compliance Certification
- 61 40CFR 60.48c(f)(1), NSPS Subpart Dc: Compliance Certification

**EU=U-00001,EP=00001,Proc=BOI,ES=00001**

- 62 40CFR 60.40c, NSPS Subpart Dc: Applicability of this Subpart to this emission source

**EU=U-00001,EP=00001,Proc=BOI,ES=00002**

- 63 40CFR 60.40c, NSPS Subpart Dc: Applicability of this Subpart to this emission source

**EU=U-00001,EP=00001,Proc=BOI,ES=B0004**

- 64 40CFR 60.40c, NSPS Subpart Dc: Applicability of this Subpart to this emission source

**EU=U-00002,EP=00002,Proc=CNG,ES=00004**

- 65 6 NYCRR 227-2.6 (b): Compliance Certification
- 66 6 NYCRR 227-2.6 (c): Compliance Certification

**EU=U-00002,EP=00003,Proc=CNG,ES=00005**

- 67 6 NYCRR 227-2.6 (b): Compliance Certification
- 68 6 NYCRR 227-2.6 (c): Compliance Certification

**STATE ONLY ENFORCEABLE CONDITIONS**



**Facility Level**

69 ECL 19-0301: Contaminant List

70 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities



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

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



**Item C: Timely Application for the Renewal of Title V Permits - 6 NYCRR 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 D: 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 E: 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 F: 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 G: 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 H: 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 I: 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 J: 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 K: 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 L: Permit Exclusion - ECL 19-0305**

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



(NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

**Item M: Federally Enforceable Requirements - 40 CFR 70.6 (b)**  
All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

**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 03/16/2015 and 03/15/2020**

**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 emission control required.

**Condition 2: Fees**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (7)**

**Item 2.1:**  
The owner and/or operator of a stationary source shall pay fees to the Department consistent with the fee schedule authorized by ECL 72-0303.

**Condition 3: Recordkeeping and Reporting of Compliance Monitoring**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

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



**Item 3.1:**

The following information must be included in any required compliance monitoring records and reports:

- (i) The date, place, and time of sampling or measurements;
- (ii) The date(s) analyses were performed;
- (iii) The company or entity that performed the analyses;
- (iv) The analytical techniques or methods used including quality assurance and quality control procedures if required;
- (v) The results of such analyses including quality assurance data where required; and
- (vi) The operating conditions as existing at the time of sampling or measurement.

Any deviation from permit requirements must be clearly identified in all records and reports. Reports must be certified by a responsible official, consistent with Section 201-6.2 of Part 201.

**Condition 4: Records of Monitoring, Sampling, and Measurement  
Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement: 6 NYCRR 201-6.4 (c) (2)**

**Item 4.1:**

Compliance monitoring and recordkeeping shall be conducted according to the terms and conditions contained in this permit and shall follow all quality assurance requirements found in applicable regulations. Records of all monitoring data and support information must be retained for a period of at least 5 years from the date of the monitoring, sampling, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

**Condition 5: Compliance Certification  
Effective between the dates of 03/16/2015 and 03/15/2020**

**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 7/30/2015.  
Subsequent reports are due every 6 calendar month(s).

**Condition 6: Compliance Certification**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

**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.

**New York State Department of Environmental Conservation**

Permit ID: 2-6103-00158/00001

Facility DEC ID: 2610300158



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  
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 1/30/2016.  
Subsequent reports are due on the same day each year

**Condition 7: Compliance Certification**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:6 NYCRR 202-2.1**

**Item 7.1:**

The Compliance Certification activity will be performed for the Facility.

**New York State Department of Environmental Conservation**

Permit ID: 2-6103-00158/00001

Facility DEC ID: 2610300158



**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 03/16/2015 and 03/15/2020**

**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 03/16/2015 and 03/15/2020**

**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**

**The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements only if effectuated during the reporting period.**

**[NOTE: The corresponding annual compliance certification for those conditions not effectuated during the reporting period shall be specified as "not applicable".]**

**Condition 10: Maintenance of Equipment  
Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement: 6 NYCRR 200.7**

**Item 10.1:**

Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and



procedures, inclusive of manufacturer's specifications, required to operate such device effectively.

**Condition 11: Recycling and Salvage**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:6 NYCRR 201-1.7**

**Item 11.1:**

Where practical, the owner or operator of an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of the ECL.

**Condition 12: Prohibition of Reintroduction of Collected Contaminants to the air**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:6 NYCRR 201-1.8**

**Item 12.1:**

No person shall unnecessarily remove, handle or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

**Condition 13: Exempt Sources - Proof of Eligibility**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

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

**Item 13.1:**

The owner or operator of an emission source or activity that is listed as being exempt 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 records necessary for demonstrating compliance with this Subpart on-site for a period of five years, and make them available to representatives of the department upon request.

**Condition 14: Trivial Sources - Proof of Eligibility**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

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

**Item 14.1:**

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 15: Requirement to Provide Information**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

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







**Item 20.1:**

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

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

**Condition 21: Compliance Certification**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:6 NYCRR Subpart 201-1**

**Item 21.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 21.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 22: Emission Unit Definition**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:6 NYCRR Subpart 201-6**

**Item 22.1:**

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 a total of four (4) mid-size boilers dual fuel external combustion Cleaver Brooks boilers (Emission Sources 00001, 00002, B0004 & B0005). The four boilers provide heat and hot water to the hospital. The two boilers identified as Emission Sources 00001 & 00002 and one of the two new identical (installed in 2004) Cleaver Brooks CBLE 200-750- 200ST



boilers (Emission Source B0004) of capacity of 30.6 MM Btu/hr each, are capable of firing either #2 fuel oil (Process BOI) or natural gas (Process BNG). Natural gas as the primary fuel and #2 fuel oil as the secondary fuel.

The boiler identified as Emission Source B0004 is capable of firing either #2 fuel oil (Process BOI) or natural gas (Process BNG). The boiler identified as Emission Source B0005 has been modified to burn natural gas only (Process BNG). All four boilers are located in the sub-basement of the main building. Flue gases from these processes exit through a common stack (Emission Point 00001) connected to the boilers. The four boilers at New York Methodist Hospital are identified as:

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

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

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

Building(s): 1

**Item 22.2:**

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 two (2) identical internal combustion cogeneration engines that burn natural gas (Process CNG) only. These cogeneration engines are



used to produce electricity for hospital purposes. They are rated at 940 KW (1259.6 hp or 3.21 MM Btu/hr) each and they are identified as Emission Sources 00004 & 00005. These engines are turbo (not naturally aspired) 4-stroke type and lean burn. Each engine has 12 cylinders, and each cylinder is below 10 liters in volume. Their compression ratio is 8:1 and fuel LHV is 900 Btu/cubic feet. Flue gases exit through two separate identical stacks (Emission Points 00002 & 00003). Emission Point 00002 is associated with Emission Source 00004, and Emission Point 00003 is associated with Emission Source 00005. Typically, both engines are operated 85% of the time, except for repair and maintenance.

These engines are not EPA certified, however; Subpart ZZZZ is applicable and accordingly, the engines have been retrofitted with Carbon Monoxide Reduction Catalyst system (70% or more) with CPMS systems. Initial testing was performed in April, 2014 and reports have been submitted to EPA and NYSDEC as required (semi-annually).

New Federal Rule 40 CFR 63, Subpart ZZZZ applies to these two Waukesha gas firing engines.

Building(s): 1

**Condition 23: Progress Reports Due Semiannually**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

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

**Item 23.1:**

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 24: Compliance Certification**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:6 NYCRR 202-2.5**

**Item 24.1:**

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



Emission Unit: U-00001 Process: BNG	Emission Point: 00001 Emission Source: 00001
Emission Unit: U-00001 Process: BNG	Emission Point: 00001 Emission Source: 00002
Emission Unit: U-00001 Process: BNG	Emission Point: 00001 Emission Source: B0004
Emission Unit: U-00001 Process: BNG	Emission Point: 00001 Emission Source: B0005
Emission Unit: U-00001 Process: BOI	Emission Point: 00001 Emission Source: 00001
Emission Unit: U-00001 Process: BOI	Emission Point: 00001 Emission Source: 00002
Emission Unit: U-00001 Process: BOI	Emission Point: 00001 Emission Source: B0004
Emission Unit: U-00002 Process: CNG	Emission Point: 00002 Emission Source: 00004
Emission Unit: U-00002 Process: CNG	Emission Point: 00003 Emission Source: 00005

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

**Item 24.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Since the NO<sub>x</sub> emissions is a surrogate of the fuel consumption, the facility is to monitor and keep records of the natural gas and #2 fuel oil consumption on a daily basis and report it annually. Fuel consumption records will be maintained at the facility of the quantity of each fuel fired in Boilers 00001, 00002, B0004 & B0005 on a daily, monthly, and every twelve consecutive months basis to prove compliance. The annual emission statement documenting the fuel consumption will be submitted to NYSDEC every April 15 of each year.

The boiler identified as Emission Source B0005 has been modified to burn natural gas only.

The facility has the following emission sources:



Emission Source 00001 - one existing (since 1996) Cleaver Brooks CB-200-600 boiler of capacity of 25.1 MM Btu/hr, and burns natural gas (Process BNG) and # 2 fuel oil (Process BOI).

Emission Source 00002 - one existing (since 1996) Cleaver Brooks CB-200-750 boiler of capacity 31.4 MM Btu/hr, and burns natural gas (Process BNG) and # 2 fuel oil (Process BOI).

Emission Sources B0004 & B0005 - two new identical (installed in 2004) Cleaver Brooks CBLE 200-750- 200ST boilers of capacity of 30.6 MM Btu/hr each, and burn natural gas (Process BNG) and # 2 fuel oil (Process BOI).

Emission Sources 00004 & 00005 - two (2) existing (since 1991) identical internal combustion cogeneration engines Waukesha VHP-700GL that burn natural gas (Process CNG) only. These cogeneration engines are rated at 940 KW (1259.6 hp or 3.21 MM Btu/hr) each, and burns natural gas (Process BNG) only.

The owner or operator shall maintain a record of the quantity of each fuel fired in Boilers 00001, 00002, B0004 & B0005 at the facility. The following formula will be used to calculate (based on the fuel quantity), the monthly NO<sub>x</sub> emissions for Boilers 00001, 00002, B0004 & B0005 on a rolling 12-month basis for Boilers 00001, 00002, B0004 & B0005, and cogeneration engines 00004 & 00005 where the individual monthly NO<sub>x</sub> emissions will be determined from the following equation:

$$D (0.02) + G (100) + (I \times J) = \text{lbs/yr of Oxides of Nitrogen emissions:}$$

Where;

D = 12-month rolling total of distillate oil fired (from Boilers 00001, 00002 & B0004) in gals/yr;  
G = 12-month rolling total of natural gas fired (from Boilers 00001, 00002, B0004 & B0005) in MM SCF/yr;  
I = 12-month rolling total of natural gas fired (from Engines 00004 & 00005) in MM SCF/yr; and  
J = 2,345 lbs NO<sub>x</sub> / million cubic feet burned (based on EPA's AP-42 emission factor).

Monitoring Frequency: MONTHLY  
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2016.



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

**Condition 25: Air pollution prohibited**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:6 NYCRR 211.1**

**Item 25.1:**

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 26: Compliance Certification**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

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

**Item 26.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 26.2:**

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 27: Compliance Certification**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

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

**Item 27.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 27.2:**

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 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 28: Compliance Certification**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

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

**Item 28.1:**

The Compliance Certification activity will be performed for the Facility.



**Item 28.2:**

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 29: Compliance Certification**

**Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:6 NYCRR 225-1.6**

**Item 29.1:**

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

**Item 29.2:**

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



exceedances takes place.

Monitoring Frequency: PER DELIVERY  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2016.  
Subsequent reports are due every 12 calendar month(s).

**Condition 30: Compliance Certification**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

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

**Item 30.1:**

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

Emission Unit: U-00001 Emission Point: 00001  
Process: BNG Emission Source: B0005

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

**Item 30.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The boiler identified as Emission Source B0005 has been modified to burn natural gas only (Process BNG).

This condition applies to natural gas only fired mid-size boilers (Emission Source B0005). The owner or operator shall submit a testing protocol to the Department for approval a minimum of 30 days prior to any stack testing.

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 owner or operator will maintain records on-site for a minimum of five years.

The compliance deadline, with the NOx RACT emission limitation of 0.05 pounds NOx per million Btus listed in this condition, is July 1, 2014 for operating on natural gas only. Compliance with the monitoring, record keeping, or reporting requirements listed in this condition begins on July 1, 2014.

Parameter Monitored: OXIDES OF NITROGEN

**New York State Department of Environmental Conservation**

**Permit ID: 2-6103-00158/00001**

**Facility DEC ID: 2610300158**



Upper Permit Limit: 0.05 pounds per million Btus  
Reference Test Method: 40 CFR 60 Appedix A - Method 7 or 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 7/30/2015.  
Subsequent reports are due every 6 calendar month(s).

**Condition 31: Compliance Certification**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

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

**Item 31.1:**

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

Emission Unit: U-00001 Process: BNG	Emission Point: 00001 Emission Source: 00001
Emission Unit: U-00001 Process: BNG	Emission Point: 00001 Emission Source: 00002
Emission Unit: U-00001 Process: BNG	Emission Point: 00001 Emission Source: B0004
Emission Unit: U-00001 Process: BOI	Emission Point: 00001 Emission Source: 00001
Emission Unit: U-00001 Process: BOI	Emission Point: 00001 Emission Source: 00002
Emission Unit: U-00001 Process: BOI	Emission Point: 00001 Emission Source: B0004
Regulated Contaminant(s): CAS No: 0NY210-00-0	OXIDES OF NITROGEN

**Item 31.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The three boilers identified as Emission Sources 00001, 00002 & B0004 are all mid-size boilers and burn distillate oil and natural gas (Processes BNG & BOI).

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.



This condition applies to distillate oil/natural gas fired mid-size boilers (Emission Sources 00001, 00002 & B0004). The owner or operator shall submit a testing protocol to the Department for approval a minimum of 30 days prior to any stack testing.

The owner or operator will maintain records on-site for a minimum of five years.

The compliance deadline, with the NOx RACT emission limitation of 0.08 pounds NOx per million Btus listed in this condition, is July 1, 2014 for operating on distillate oil/natural gas. Compliance with the monitoring, record keeping, or reporting requirements listed in this condition begins on July 1, 2014.

Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 0.08 pounds per million Btus  
Reference Test Method: App A, Method 7 or 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 7/30/2015.  
Subsequent reports are due every 6 calendar month(s).

**Condition 32: Compliance Certification**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement: 6 NYCRR 227-2.4 (f) (1)**

**Item 32.1:**

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

Emission Unit: U-00002	Emission Point: 00002
Process: CNG	Emission Source: 00004

Emission Unit: U-00002	Emission Point: 00003
Process: CNG	Emission Source: 00005

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

**Item 32.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

(f) Stationary internal combustion engines. The owner or operator of a stationary internal combustion engine either having a maximum mechanical output rating equal to or

**New York State Department of Environmental Conservation**

Permit ID: 2-6103-00158/00001

Facility DEC ID: 2610300158



greater than 200 brake horsepower in a severe ozone nonattainment area or having a maximum mechanical output rating equal to or greater than 400 brake horsepower outside a severe ozone nonattainment area and are fired by natural gas, must comply with the emission limit listed in paragraph (1) below of this subdivision:

(1) For internal combustion engines fired solely with natural gas: 1.5 grams per brake horsepower-hour.

Compliance with these emission limits must be determined with a one hour average unless the owner or operator chooses to use a CEMS under the provisions of section 227-2.6(b) of this Subpart.

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.

Manufacturer Name/Model Number: 940 kilowatts WAUKESHA VHP-700GL (internal combustion engine)

Upper Permit Limit: 1.5 grams per brake horsepower-hour

Reference Test Method: 40 CFR 60 App A, Method 7 or 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 7/30/2015.

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

**Condition 33: Compliance Certification**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

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

**Item 33.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001  
Process: BOI

Emission Point: 00001  
Emission Source: 00001

Emission Unit: U-00001  
Process: BOI

Emission Point: 00001  
Emission Source: 00002

Emission Unit: U-00001  
Process: BOI

Emission Point: 00001  
Emission Source: B0004

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES



**Item 33.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The two hour average emission of particulates from this stationary combustion installation shall not exceed 0.10 pounds per million Btu of heat input.

The facility shall perform the following:

- 1) Submit to the Department an acceptable protocol for the testing of particulate emissions in a manner that will determine compliance with the 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) Submit an acceptable stack test report that outlines the results obtained from the testing done to meet the requirement of #2 above.
- 4) Facility shall keep records of all testing done at this stationary combustion installation for a period of 5 years.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: EPA RM 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2015.

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

**Condition 34: EPA Region 2 address.**

**Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:40CFR 60.4, NSPS Subpart A**

**Item 34.1:**

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: 2-6103-00158/00001

Facility DEC ID: 2610300158



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 35: Recordkeeping requirements.**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:40CFR 60.7(b), NSPS Subpart A**

**Item 35.1:**

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 36: Compliance Certification**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:40CFR 60.7(c), NSPS Subpart A**

**Item 36.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 36.2:**

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 and/or a summary report form (as defined in 40 CFR 60.7(d)) semi-annually (or more frequently as required by the applicable Subpart or the Administrator), to the Administrator. These reports shall be post marked no later than 30 days after each six (6) month period (or as appropriate), 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 and 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 7/30/2015.

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

**Condition 37: Excess emissions report.**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:40CFR 60.7(d), NSPS Subpart A**

**Item 37.1:**

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 38: Facility files for subject sources.**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:40CFR 60.7(f), NSPS Subpart A**

**Item 38.1:**

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 performance evaluations; all continuous 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 inspections. The file shall be maintained for at least two years following the date of such measurements, reports, and records.

**Condition 39: Availability of information.**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:40CFR 60.9, NSPS Subpart A**

**Item 39.1:**

The availability to the public of information provided to, or otherwise obtained by, the Administrator under this part shall be governed by 40 CFR Part 2.



**Condition 40: Modifications.**  
Effective between the dates of 03/16/2015 and 03/15/2020

**Applicable Federal Requirement:40CFR 60.14, NSPS Subpart A**

**Item 40.1:**  
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 41: Reconstruction**  
Effective between the dates of 03/16/2015 and 03/15/2020

**Applicable Federal Requirement:40CFR 60.15, NSPS Subpart A**

**Item 41.1:**  
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 42: Applicability**  
Effective between the dates of 03/16/2015 and 03/15/2020

**Applicable Federal Requirement:40CFR 60, NSPS Subpart III**

**Item 42.1:**  
This Condition applies to:

Emission Unit: U00002      Emission Point: 00002  
Process: CNG                  Emission Source: 00004

Emission Unit: U00002      Emission Point: 00003  
Process: CNG                  Emission Source: 00005





**Applicable Federal Requirement:40CFR 63, Subpart ZZZZ**

**Item 45.1:**

This Condition applies to:

Emission Unit: U00002      Emission Point: 00002  
Process: CNG                      Emission Source: 00004

Emission Unit: U00002      Emission Point: 00003  
Process: CNG                      Emission Source: 00005

**Item 45.2:**

The Department has not accepted delegation of 40 CFR Part 63 Subpart ZZZZ. Any questions concerning compliance and/or enforcement of this regulation should be referred to USEPA Region 2, 290 Broadway, 21st Floor, New York, NY 10007-1866; (212) 637-4080. Should the Department decide to accept delegation of 40 CFR Part 63 Subpart ZZZZ during the term of this permit, enforcement of this regulation will revert to the Department as of the effective date of delegation.

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

**Condition 46:      Emission Point Definition By Emission Unit**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:6 NYCRR Subpart 201-6**

**Item 46.1:**

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

Emission Unit:    U-00001

Emission Point:    00001  
                            Height (ft.): 160                      Diameter (in.): 80  
                            NYTMN (km.): 4502.2                      NYTME (km.): 586.2                      Building: 1

**Item 46.2:**

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

Emission Unit:    U-00002

Emission Point:    00002  
                            Height (ft.): 130                      Diameter (in.): 20  
                            NYTMN (km.): 4502.423                      NYTME (km.): 586.233                      Building: 1

Emission Point:    00003



Height (ft.): 130 Diameter (in.): 20  
NYTMN (km.): 4502.423 NYTME (km.): 586.233 Building: 1

**Condition 47: Process Definition By Emission Unit**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:6 NYCRR Subpart 201-6**

**Item 47.1:**

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 burning of natural gas as the primary fuel in three out of the four (4) external combustion Cleaver Brooks boilers (Emission Sources 00001, 00002, B0004 & B0005) in Emission Unit U-00001. One of the 30.6 MM Btu/hr Cleaver Brooks boilers (Emission Source B0005) has been modified to burn natural gas only. The four boilers provide heat and hot water to the hospital. Flue gases from this process exit through a common stack (Emission Point 00001) connected to all four boilers. The four boilers at New York Methodist Hospital are identified as:

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

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

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

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

Emission Source/Control: 00001 - Combustion  
Design Capacity: 25.1 million Btu per hour

Emission Source/Control: 00002 - Combustion  
Design Capacity: 31.4 million Btu per hour



Emission Source/Control: B0004 - Combustion  
Design Capacity: 30.6 million Btu per hour

Emission Source/Control: B0005 - Combustion  
Design Capacity: 30.6 million Btu per hour

**Item 47.2:**

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

Emission Unit: U-00001

Process: BOI

Source Classification Code: 1-03-004-02

Process Description:

Process BOI is the burning of #2 fuel oil as the secondary fuel in three out of the four (4) external combustion Cleaver Brooks boilers (Emission Sources 00001, 00002 & B0004) in Emission Unit U-00001. One of the 30.6 MM Btu/hr Cleaver Brooks boilers (Emission Source B0005) has been modified to burn natural gas only. The four boilers provide heat and hot water to the hospital. Flue gases from this process exit through a common stack (Emission Point 00001) connected to the four boilers. The four boilers at New York Methodist Hospital are identified as:

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

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

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

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

Emission Source/Control: 00001 - Combustion  
Design Capacity: 25.1 million Btu per hour

Emission Source/Control: 00002 - Combustion  
Design Capacity: 31.4 million Btu per hour

Emission Source/Control: B0004 - Combustion  
Design Capacity: 30.6 million Btu per hour



**Item 47.3:**

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

Emission Unit: U-00002

Process: CNG

Source Classification Code: 1-01-006-02

Process Description:

Process CNG is the burning of natural gas in the two identical internal combustion cogeneration engines (Emission Sources 00004 & 00005) in Emission Unit U-00002.

Flue gases from this process exit through two separate identical stacks (Emission Points 00002 & 00003). Emission Point 00002 is associated with Emission Source 00004, and Emission Point 00003 is associated with Emission Source 00005. The two internal combustion engines in Emission Unit U-00002 are used to produce electricity for hospital purposes. They are rated at 940 kilowatts (1259.6 hp or 3.21 MM Btu/hr) each, fire natural gas only, are 4-stroke type and lean burn and with compression ignition source. Typically, both engines are operated 85% of the time, except for repair and maintenance. The two internal combustion engines are identified as:

Emission Source 00004 - one existing (since 1991) Waukesha VHP-700GL internal combustion engine rated at 940 kilowatts (type: 4-stroke, lean burn type).

Emission Source 00005 - one existing (since 1991) Waukesha VHP-700GL internal combustion engine rated at 940 kilowatts (type: 4-stroke, lean burn type).

Emission Source/Control: 00004 - Combustion  
Design Capacity: 940 kilowatts

Emission Source/Control: 00005 - Combustion  
Design Capacity: 940 kilowatts

**Condition 48: Date of Construction Notification - if a COM is used.  
Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement: 40CFR 60.7(a), NSPS Subpart A**

**Item 48.1:**

This Condition applies to Emission Unit: U-00001

**Item 48.2:**

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 49: Compliance Certification**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

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

**Item 49.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

**Item 49.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one-six-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

New York State Department of Environmental Conservation

Permit ID: 2-6103-00158/00001

Facility DEC ID: 2610300158



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  
Reference Test Method: Method 9  
Monitoring Frequency: DAILY  
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 7/30/2015.  
Subsequent reports are due every 6 calendar month(s).

**Condition 50: Compliance Certification**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:40CFR 60.43c(c), NSPS Subpart Dc**

**Item 50.1:**  
The Compliance Certification activity will be performed for:

Emission Unit: U-00001                      Emission Point: 00001

**Item 50.2:**  
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 percent  
Reference Test Method: Method 9  
Monitoring Frequency: CONTINUOUS  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 7/30/2015.  
Subsequent reports are due every 6 calendar month(s).

**Condition 51: Compliance Certification**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

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

**Item 51.1:**

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

Emission Unit: U-00001 Process: BNG	Emission Point: 00001 Emission Source: 00001
Emission Unit: U-00001 Process: BNG	Emission Point: 00001 Emission Source: 00002
Emission Unit: U-00001 Process: BNG	Emission Point: 00001 Emission Source: B0004
Emission Unit: U-00001 Process: BOI	Emission Point: 00001 Emission Source: 00001
Emission Unit: U-00001 Process: BOI	Emission Point: 00001 Emission Source: 00002
Emission Unit: U-00001 Process: BOI	Emission Point: 00001 Emission Source: B0004

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

**Item 51.2:**

**New York State Department of Environmental Conservation**

**Permit ID: 2-6103-00158/00001**

**Facility DEC ID: 2610300158**



Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition applies to distillate oil/gas fired mid-size boilers. The owner or operator shall submit a testing protocol to the Department for approval a minimum of 30 days prior to any stack testing.

The owner or operator will maintain records on-site for a minimum of five years.

The compliance deadline, with the emission limitation listed in this condition, is July, 1 2014. Compliance with the monitoring, record keeping, or reporting requirements listed in this condition begins on July, 1 2014.

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: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2015.

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

**Condition 52: Compliance Certification**

**Effective between the dates of 03/16/2015 and 03/15/2020**

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

**Item 52.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: BNG

Emission Source: B0005

Regulated Contaminant(s):

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

**Item 52.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition applies to natural gas only fired mid-size boilers. The owner or operator shall submit a testing protocol to the Department for approval a minimum of 30 days prior to any stack testing.



**New York State Department of Environmental Conservation**

Permit ID: 2-6103-00158/00001

Facility DEC ID: 2610300158



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 or less to facilities in the severe ozone non-attainment area such as New York City on or after July 1, 2012.

New York Methodist Hospital must comply with the 0.0015 percent by weight sulfur content limit 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

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 7/30/2015.

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

**Condition 54: Compliance Certification**

**Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:40CFR 60.40c, NSPS Subpart Dc**

**Item 54.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: BOI

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

**Item 54.2:**

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 (SO<sub>2</sub>) 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.

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 7/30/2015.

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

**Condition 55: Compliance Certification**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:40CFR 60.42c(d), NSPS Subpart Dc**

**Item 55.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: BOI

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

**Item 55.2:**

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 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.

New York Methodist Hospital must comply with the 0.0015 percent by weight sulfur content limit as per 6 NYCRR 225-1.2, which has more stringent limit for New York City

**New York State Department of Environmental Conservation**

Permit ID: 2-6103-00158/00001

Facility DEC ID: 2610300158



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.

The initial report is due 7/30/2015.

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

**Condition 56: Exemption from the averaging period.  
Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:40CFR 60.42c(h), NSPS Subpart Dc**

**Item 56.1:**

This Condition applies to Emission Unit: U-00001 Emission Point: 00001  
Process: BOI

**Item 56.2:**

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 57: Compliance Certification  
Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:40CFR 60.44c(h), NSPS Subpart Dc**

**Item 57.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00001  
Process: BOI

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

**Item 57.2:**

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

New York State Department of Environmental Conservation

Permit ID: 2-6103-00158/00001

Facility DEC ID: 2610300158



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 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.

New York Methodist Hospital must comply with the 0.0015 percent by weight sulfur content limit 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  
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 7/30/2015.  
Subsequent reports are due every 6 calendar month(s).

**Condition 58: Compliance methods for particulate matter.  
Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:40CFR 60.45c, NSPS Subpart Dc**

**Item 58.1:**

This Condition applies to Emission Unit: U-00001 Emission Point: 00001  
Process: BOI

**Item 58.2:**

The facility shall conduct compliance testing for particulate matter by the methods listed in this section 40 CFR 60-Dc.45c.

**Condition 59: Compliance Certification  
Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:40CFR 60.46c(d)(2), NSPS Subpart Dc**



**Item 59.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001                      Emission Point: 00001  
Process: BOI

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

**Item 59.2:**

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

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 0.0015 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.

New York Methodist Hospital must comply with the 0.0015 percent by weight sulfur content limit 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.

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: 30-DAY ROLLING AVERAGE  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 7/30/2015.  
Subsequent reports are due every 6 calendar month(s).

**New York State Department of Environmental Conservation**

Permit ID: 2-6103-00158/00001

Facility DEC ID: 2610300158



**Condition 60: Compliance Certification**  
Effective between the dates of 03/16/2015 and 03/15/2020

**Applicable Federal Requirement: 40CFR 60.47c, NSPS Subpart Dc**

**Item 60.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001                      Emission Point: 00001  
Process: BOI

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

**Item 60.2:**

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 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 Appendix 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 7/30/2015.  
Subsequent reports are due every 6 calendar month(s).

**Condition 61: Compliance Certification**  
Effective between the dates of 03/16/2015 and 03/15/2020

**Applicable Federal Requirement: 40CFR 60.48c(f)(1), NSPS Subpart Dc**

**Item 61.1:**

The Compliance Certification activity will be performed for:

New York State Department of Environmental Conservation  
Permit ID: 2-6103-00158/00001 Facility DEC ID: 2610300158



Emission Unit: U-00001 Emission Point: 00001  
Process: BOI

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

**Item 61.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Fuel supplier certification shall include the following information for distillate oil:

- i) The name of the oil supplier, and
- ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in §60.41c. 60-Dc 41c defines distillate oil as fuel that complies with the specifications for fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396-78, A standard Specification for Fuel Oils.

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 7/30/2015.

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

**Condition 62: Applicability of this Subpart to this emission source  
Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:40CFR 60.40c, NSPS Subpart Dc**

**Item 62.1:**

This Condition applies to Emission Unit: U-00001 Emission Point: 00001  
Process: BOI Emission Source: 00001

**Item 62.2:**

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

**Condition 63: Applicability of this Subpart to this emission source  
Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:40CFR 60.40c, NSPS Subpart Dc**



**Item 63.1:**

This Condition applies to Emission Unit: U-00001 Emission Point: 00001  
Process: BOI Emission Source: 00002

**Item 63.2:**

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

**Condition 64: Applicability of this Subpart to this emission source  
Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable Federal Requirement:40CFR 60.40c, NSPS Subpart Dc**

**Item 64.1:**

This Condition applies to Emission Unit: U-00001 Emission Point: 00001  
Process: BOI Emission Source: B0004

**Item 64.2:**

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

**Condition 65: Compliance Certification  
Effective between the dates of 03/16/2015 and 03/15/2020**

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

**Item 65.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00002 Emission Point: 00002  
Process: CNG Emission Source: 00004

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

**Item 65.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)  
Monitoring Description:

The owner or operator of stationary internal combustion engines may choose to employ a continuous emissions



monitoring system (CEMS), or equivalent, in lieu of the monitoring requirements to perform initial compliance stack tests as described in 6 NYCRR 227-2.6 (c). Also, the NO<sub>x</sub> emissions must be measured in accordance with the emission test requirements as described in 6 NYCRR 227-2.6 (c).

Alternatively, a stack testing will be sufficient to fulfill the NO<sub>x</sub> RACT requirement. CEMS for NO<sub>x</sub> is not required if stack testing is conducted during the term of the permit. The NO<sub>x</sub> RACT emission limit regulatory standard for a lean burn internal combustion engine with compression ignition source is the standard of 1.5 gm/bhp-hr NO<sub>x</sub> emission limit for natural gas fired only beginning April 1, 2005.

(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<sub>x</sub> at locations approved in the CEMS certification protocol under paragraph (2) of this subdivision, and must record





New York State Department of Environmental Conservation

Permit ID: 2-6103-00158/00001

Facility DEC ID: 2610300158



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.

Manufacturer Name/Model Number: 940 kilowatts WAUKESHA VHP-700GL (# 1 internal combustion engine)

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 1.5 grams per brake horsepower-hour

Reference Test Method: 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 67: Compliance Certification**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

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

**Item 67.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Emission Point: 00003

Process: CNG

Emission Source: 00005

Regulated Contaminant(s):

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

**Item 67.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The owner or operator of stationary internal combustion engines may choose to employ a continuous emissions monitoring system (CEMS), or equivalent, in lieu of the monitoring requirements to perform initial compliance stack tests as described in 6 NYCRR 227-2.6 (c). Also, the NO<sub>x</sub> emissions must be measured in accordance with the emission test requirements as described in 6 NYCRR 227-2.6 (c).

Alternatively, a stack testing will be sufficient to fulfill the NO<sub>x</sub> RACT requirement. CEMS for NO<sub>x</sub> is not required if stack testing is conducted during the term of the permit. The NO<sub>x</sub> RACT emission limit regulatory standard for a lean burn internal combustion engine with compression ignition source is the standard of 1.5 gm/bhp-hr NO<sub>x</sub> emission limit for natural gas fired only beginning April 1, 2005.



(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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> emission rates from block hourly arithmetic emission rate averages calculated by the CEMS and expressed in terms of pounds of NO<sub>x</sub> 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<sub>x</sub> and calculating a 24-hour daily heat input-weighted average NO<sub>x</sub> emission rate using 40 CFR part 60, Appendix A, Method 19 for nonturbine 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 nonturbine sources; and

(c) determine the 24-hour daily heat input-weighted average NO<sub>x</sub> 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<sub>x</sub> emission rate.

Manufacturer Name/Model Number: CEMS  
Upper Permit Limit: 1.5 grams per brake horsepower-hour  
Reference Test Method: Method 19 App A  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 24 HOUR DAILY AVERAGE (ARITHMETIC MEAN)  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 60 days after the reporting period.  
The initial report is due 5/30/2015.  
Subsequent reports are due every 3 calendar month(s).

**Condition 68: Compliance Certification**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

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

**Item 68.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00002                      Emission Point: 00003  
Process: CNG                                      Emission Source: 00005

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

**Item 68.2:**

Compliance Certification shall include the following monitoring:

**New York State Department of Environmental Conservation**

**Permit ID: 2-6103-00158/00001**

**Facility DEC ID: 2610300158**



Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The two stationary internal combustion engines (Emission Sources 00004 & 00005) in Emission Unit U-00002 are 940 kilowatts (1259.6 hp) each, fire natural gas only, are lean burn internal combustion engines with compression ignition source. Stack testing will be required in order to demonstrate compliance with the NO<sub>x</sub> RACT emission limit regulatory standard of 1.5 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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.

Manufacturer Name/Model Number: 940 kilowatts WAUKESHA VHP-700GL (# 2 internal combustion engine)

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 1.5 grams per brake horsepower-hour

Reference Test Method: 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





**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: 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 69: Contaminant List**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable State Requirement:ECL 19-0301**

**Item 69.1:**  
Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).

CAS No: 007446-09-5  
Name: SULFUR DIOXIDE



CAS No: 0NY075-00-0  
Name: PARTICULATES

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

**Condition 70: Malfunctions and start-up/shutdown activities**  
**Effective between the dates of 03/16/2015 and 03/15/2020**

**Applicable State Requirement: 6 NYCRR 201-1.4**

**Item 70.1:**

- (a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.
- (b) The facility owner or operator shall compile and maintain records of all equipment malfunctions, maintenance, or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when requested to do so, or when so required by a condition of a permit issued for the corresponding air contamination source. Such reports shall state whether any violations occurred and, if so, whether they were unavoidable, include the time, frequency and duration of the maintenance and/or start-up/shutdown activities, and an estimate of the emission rates of any air contaminants released. Such records shall be maintained for a period of at least five years and made available for review to department representatives upon request. Facility owners or operators subject to continuous stack monitoring and quarterly reporting requirements need not submit additional reports for equipment maintenance or start-up/shutdown activities for the facility to the department.
- (c) In the event that emissions of air contaminants in excess of any emission standard in this Subchapter occur due to a malfunction, the facility owner or operator shall compile and maintain records of the malfunction and notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates.
- (d) The department may also require the owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions.
- (e) A violation of any applicable emission standard resulting from start-up, shutdown, or malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements listed above must be adhered to in such circumstances.

