



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

**IDENTIFICATION INFORMATION**

Permit Type: Air State Facility  
Permit ID: 2-6206-01492/00002  
Mod 0 Effective Date: 06/26/2014 Expiration Date: 06/25/2024  
Mod 1 Effective Date: 07/13/2015 Expiration Date: 06/25/2024  
Mod 2 Effective Date: 09/03/2015 Expiration Date: 06/25/2024  
Mod 3 Effective Date: 02/11/2016 Expiration Date: 06/25/2024  
Mod 4 Effective Date: 10/06/2017 Expiration Date: 06/25/2024

Permit Issued To: NEW YORK UNIVERSITY  
NEW YORK UNIVERSITY  
70 WASHINGTON SQ S  
NEW YORK, NY 10012-1019

Contact: RICHARD COHEN  
NYU HOSPITAL OF MEDICINE  
545 1ST AVE SC2-122  
NEW YORK, NY 10016  
(212) 263-5268

Facility: NYU LANGONE MEDICAL CENTER  
550 FIRST AVE  
NEW YORK, NY 10016

Contact: RICHARD COHEN  
NYU HOSPITAL OF MEDICINE  
545 1ST AVE SC2-122  
NEW YORK, NY 10016  
(212) 263-5268

Description:  
The NYU Langone Medical Center operates a 10 MW combined heat and power (CHP) plant, including a natural gas-fired combustion turbine with a maximum heat input rating of 86.15 mmBtu/hr, with additional steam generated by a supplemental gas-fired duct burner rated at 116 mmBtu/hr using a heat recovery steam generator (HRSG) and equipped with selective catalytic reduction (SCR) and an oxidation catalyst. In addition to the CHP plant, the facility also operates installation of two dual-fuel back-up boilers, each with a capacity of approximately 150,000 lb/hr of steam (173.78 mmBtu/hr on natural gas and 180.7 mmBtu/hr on no. 2 fuel oil). The two boilers as well as the CHP system



will be fitted with Continuous Emission Monitoring System (CEMS) for oxides of nitrogen (NO<sub>x</sub>) measurement. In addition, the facility operates eight (8) new 2,500 kW emergency generators, which are exempt from permitting per 201-3. Four existing emergency generators, also exempt from permitting at the facility and finally a new gas firing reciprocating engine (General Electric Jenbacher JMS 620 GS-NL/F09 rated at maximum heat input of 27.375 mmBtu/hr or 4601 hp).

This permit modification is to update NO<sub>x</sub> emission factors for turbine, duct burner and two B&W Boilers that were originally provided in the permit have been found to be substantially higher than guaranteed by the manufacturer. The basis for updating the emission factors for turbine and duct burner are from a test performed by a certified testing company (see attached). For B&W Boilers, the basis for updating the emission factors are from Boilers tune-up test report from Process Control (Boiler suppliers/tune-up company) as well as emission guarantees provided by the manufacturers.

Mod Item (Correction of Turbine Plus Duct Burner Gas and two B&W Boilers NO<sub>x</sub> Emission Factors):

1. Capping Monitoring Condition NO<sub>x</sub> emission factor B for operation of a turbine on natural gas, will be corrected from its current value of 93.7 lbs/mmscf to a value of 40 lbs/mmscf before SCR controls. Additionally, NO<sub>x</sub> emission factor D for operation of a turbine plus a duct burner will also be corrected from its current value of 93.7 lbs/mmscf to a value of 40 lbs/mmscf. These initial values were overestimated and are being corrected due to an emissions test conducted by Environmental Labs Inc. on 07/13/2017, see attached test report.
2. Capping Monitoring Condition NO<sub>x</sub> emission factor F for operation of boilers on natural gas, will be corrected from its current value of 204 lbs/mmscf to a value of 57 lbs/mmscf. Additionally, NO<sub>x</sub> emission factor H for operation boilers on ultra-low sulfur oil, will be corrected from its current value of 0.028 lbs/gallons to a value of 0.008 lbs/gallons. The initial values are being corrected based on the results from process control testing company. The corrected values are selected from the highest of the emission factors of Boiler 1 and Boiler 2 tune-up reports and then an added factor of 10%. This may be considered as a reasonably conservative emission factor. See attached Process Control (Boiler suppliers/tune-up company) test report.

The above mentioned tested factors are being requested to be utilized for durations when the NO<sub>x</sub> CEMS is either not certified or non-functional. Once certified, the NO<sub>x</sub> emissions including hourly averages, 30 day rolling averages, and annual rolling averages will be verified by CEMS for turbine plus duct burner system as well as the two B&W boiler systems. However, in lieu of



CEMS for any reason, the tested factors will be used provisionally. The CEMS certification process is underway and expected to be completed before end of year, 2017.

Accordingly, this modification application is submitted to seek above described correction of NOx emission factors for turbine, duct burner and two B&W Boilers as well as utilize CEMS to verify NOx emissions.

The facility NOx (oxides of nitrogen) emissions are capped at 24.9 tons per year. Records demonstrating compliance with this cap will be kept in accordance with the permit specific conditions.

The facility is subject to the provisions of State Facility specified under 6NYCRR 201-7.

The Air State Facility permit contains a listing of the applicable federal, state, and specific monitoring requirements for the facility.

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

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

Authorized Signature: \_\_\_\_\_ Date: \_\_\_ / \_\_\_ / \_\_\_\_\_



**Notification of Other State Permittee Obligations**

**Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification**

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

**Item B: Permittee's Contractors to Comply with Permit**

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

**Item C: Permittee Responsible for Obtaining Other Required Permits**

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

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

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



**LIST OF CONDITIONS**

**DEC GENERAL CONDITIONS**

**General Provisions**

- Facility Inspection by the Department
- Relationship of this Permit to Other Department Orders and Determinations
  - Applications for permit renewals, modifications and transfers
  - Applications for permit renewals, modifications and transfers
  - 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 \*\*\*\***  
**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 3-1: Applications for permit renewals, modifications and transfers**

**Applicable State Requirement: 6 NYCRR 621.11**

**Item 3-1.1:**

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

**Item 3-1.3:**

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 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 4-1: Applications for permit renewals, modifications and transfers**  
**Applicable State Requirement: 6 NYCRR 621.11**

**Item 4-1.1:**

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 4-1.2:**

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

**Item 4-1.3**

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: 2-6206-01492/00002

Facility DEC ID: 2620601492



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

**ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY  
PERMIT**

**IDENTIFICATION INFORMATION**

Permit Issued To: NEW YORK UNIVERSITY  
NEW YORK UNIVERSITY  
70 WASHINGTON SQ S  
NEW YORK, NY 10012-1019

Facility: NYU LANGONE MEDICAL CENTER  
550 FIRST AVE  
NEW YORK, NY 10016

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

|   |                                    |
|---|------------------------------------|
| Mod 0 Permit Effective Date: 06/26/2014 | Permit Expiration Date: 06/25/2024 |
| Mod 1 Permit Effective Date: 07/13/2015 | Permit Expiration Date: 06/25/2024 |
| Mod 2 Permit Effective Date: 09/03/2015 | Permit Expiration Date: 06/25/2024 |
| Mod 3 Permit Effective Date: 02/11/2016 | Permit Expiration Date: 06/25/2024 |
| Mod 4 Permit Effective Date: 10/06/2017 | Permit Expiration Date: 06/25/2024 |



## LIST OF CONDITIONS

### FEDERALLY ENFORCEABLE CONDITIONS

#### Facility Level

- 1 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
- 2 6 NYCRR 201-3.2 (a): Compliance Demonstration
- 3 6 NYCRR Subpart 201-7: Facility Permissible Emissions
- \*4-1 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- \*3-3 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 8 6 NYCRR Subpart 202-1: Compliance Demonstration
- 9 6 NYCRR 211.1: Air pollution prohibited
- 11 6 NYCRR 225-1.2 (g): Compliance Demonstration
- 12 6 NYCRR 225-1.2 (h): Compliance Demonstration
- 13 6 NYCRR 225-1.6 (d): Record Availability
- 14 6 NYCRR 225-1.6 (f): Compliance Demonstration
- 15 6 NYCRR 227-1.3 (a): Compliance Demonstration
- 16 6 NYCRR Subpart 231-13: Compliance Demonstration
- 17 40CFR 60, NSPS Subpart IIII: Applicability
- 3-4 40CFR 60, NSPS Subpart KKKK: Compliance and Enforcement
- 18 40CFR 63, Subpart JJJJJ: Applicability
- 19 40CFR 63, Subpart ZZZZ: Engines at Area sources of HAP

#### Emission Unit Level

##### EU=U-00001

- 20 40CFR 60.13(c), NSPS Subpart A: Compliance Demonstration
- 21 40CFR 60.49b(b), NSPS Subpart Db: Compliance Demonstration

##### EU=U-00001,Proc=001,ES=00001

- 22 40CFR 60.4320(a), NSPS Subpart KKKK: Compliance Demonstration
- 23 40CFR 60.4330, NSPS Subpart KKKK: Compliance Demonstration

##### EU=U-00001,Proc=002

- 24 40CFR 60.48b(b), NSPS Subpart Db: Compliance Demonstration

##### EU=U-00001,Proc=003

- 25 40CFR 60.48b(b), NSPS Subpart Db: Compliance Demonstration

##### EU=U-00001,Proc=TOL,ES=00001

- 3-5 6 NYCRR 227.2 (b) (1): Compliance Demonstration
- 26 40CFR 60.48b(a), NSPS Subpart Db: Compliance Demonstration

##### EU=U-00001,EP=00001,Proc=001,ES=00001

- 27 40CFR 60.4340(b), NSPS Subpart KKKK: Alternative means of demonstrating compliance
- 28 40CFR 60.4365(a), NSPS Subpart KKKK: Compliance Demonstration

### STATE ONLY ENFORCEABLE CONDITIONS

#### Facility Level

- 29 ECL 19-0301: Contaminant List
- 30 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities



**New York State Department of Environmental Conservation**

**Permit ID: 2-6206-01492/00002**

**Facility DEC ID: 2620601492**

- 31 6 NYCRR Subpart 201-5: Emission Unit Definition
- 32 6 NYCRR 201-5.2 (c): Renewal deadlines for state facility permits
- 1-1 6 NYCRR 201-5.3 (c): Compliance Demonstration
- 34 6 NYCRR 211.2: Visible Emissions Limited

**Emission Unit Level**

- 35 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
- 36 6 NYCRR Subpart 201-5: Process Definition By Emission Unit
- 37 6 NYCRR 227-1.4 (a): Compliance Demonstration

NOTE: \* preceding the condition number indicates capping.



**FEDERALLY ENFORCEABLE CONDITIONS**

**\*\*\*\* Facility Level \*\*\*\***

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

**This section contains terms and conditions which are federally enforceable. Permittees may also have other obligations under regulations of general applicability**

**Item A: Sealing - 6 NYCRR 200.5**

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation.

Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

No person shall operate any air contamination source sealed by the Commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification.

Unless authorized by the Commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section.

**Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6**

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.

**Item C: Maintenance of Equipment - 6 NYCRR 200.7**

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.

**Item D: Unpermitted Emission Sources - 6 NYCRR 201-1.2**

If an existing emission source was subject to the permitting requirements of 6 NYCRR Part 201 at the time of construction or modification, and the owner and/or operator failed to apply for a permit for such emission source then the following provisions apply:

(a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.

(b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

**Item E: Recycling and Salvage - 6 NYCRR 201-1.7**

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.

**Item F: Prohibition of Reintroduction of Collected Contaminants to the Air - 6 NYCRR 201-1.8**

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.

**Item G: Proof of Eligibility for Sources Defined as Exempt Activities - 6 NYCRR 201-3.2 (a)**

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source 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 which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

**Item H: Proof of Eligibility for Sources Defined as Trivial**





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.

**FEDERAL APPLICABLE REQUIREMENTS**  
**The following conditions are federally enforceable.**

**Condition 1: Exempt Sources - Proof of Eligibility**  
**Effective between the dates of 06/26/2014 and 06/25/2024**

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

**Item 1.1:**

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 2: Compliance Demonstration**  
**Effective between the dates of 06/26/2014 and 06/25/2024**

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

**Item 2.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 2.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

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

Work Practice Type: HOURS PER YEAR OPERATION

Upper Permit Limit: 500.0 hours

Monitoring Frequency: MONTHLY

**New York State Department of Environmental Conservation**

Permit ID: 2-6206-01492/00002

Facility DEC ID: 2620601492



Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY  
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 3: Facility Permissible Emissions**  
**Effective between the dates of 06/26/2014 and 06/25/2024**

**Applicable Federal Requirement:6 NYCRR Subpart 201-7**

**Item 3.1:**

The sum of emissions from the emission units specified in this permit shall not equal or exceed the following

Potential To Emit (PTE) rate for each regulated contaminant:

CAS No: 0NY210-00-0 (From Mod 4) PTE: 49,800 pounds  
per year

Name: OXIDES OF NITROGEN

**Condition 4-1: Capping Monitoring Condition**  
**Effective between the dates of 10/06/2017 and 06/25/2024**

**Applicable Federal Requirement:6 NYCRR Subpart 201-7**

**Item 4-1.1:**

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

6 NYCRR Subpart 201-6

6 NYCRR Subpart 231-2

**Item 4-1.2:**

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

**Item 4-1.3:**

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

**Item 4-1.4:**

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

**Item 4-1.5:**



**New York State Department of Environmental Conservation**

Permit ID: 2-6206-01492/00002

Facility DEC ID: 2620601492



The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

**Item 4-1.6:**

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

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

**Item 4-1.7:**

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

Plant-wide NOx emissions are being capped at 24.9 tons/year.

The owner or operator shall maintain a record of the quantity of each fuel fired at the facility. Also, the owner or operator shall calculate NOx emissions (based on the fuel quantity) using the following formula:

$AxB + CxD + ExF + GxH + IxJ + KxL + MxN + OxP < 49,800$   
lbs/yr of Oxides of Nitrogen emissions.

Where:

A = 12-month rolling total of natural gas fired (from turbine 00001), in mmscf/yr without duct firing;

B = 40 lbs/mmscf - NOx emission factor from operation of turbine on natural gas (lbs/mmscf), to be verified by CEMS.

C = 12-month rolling total of natural gas fired (from duct burner 00002), in mmscf/yr with duct firing;

D = 40 lbs/mmscf - NOx emission factor from operation of the turbine+duct burner (lbs/mmscf), to be verified by CEMS.

E = 12-month rolling total of natural gas fired (from boilers 00005 and 00006) in mmscf/yr;

F = NOx emission factor from the operation of the back-up boilers on natural gas (lbs/mmscf). Emission factor of 57 lb/mmscf, to be verified by CEMS.

G = 12-month rolling total of distillate oil fired (from boilers 00005 and 00006) in gals/yr;

H = NOx emission factor from the operation of the back-up boilers on ultra low sulfur fuel #2 oil (lbs/gallon).

Based on an emission factor of 0.008 lbs/gallon, to be verified by CEMS.

I = 12-month rolling total of distillate oil fired (from new engines and one existing engine) in gals/yr;



J = NO<sub>x</sub> emission factor of 0.179 lbs/gal from operation of the new engines and the existing engine in the HCC building firing an ultra low sulfur fuel oil HHV of 140,000 Btu/gallon, based on an NSPS emission factor.

K = 12-month rolling total of distillate oil fired (from old engines) in gals/yr;

L = NO<sub>x</sub> emission factor of 0.409 lbs/gal from operation of the old engines (Skirball and Smilow Buildings) on distillate fuel oil, based on an AP-42 emission factor.

M = 12-month rolling total of natural gas fired (from engine SGGNK) in mmscf/yr;

N = 316 lb/mmscf - NO<sub>x</sub> emission factor from the operation of the engine SGGNK on natural gas (lbs/mmcf). Emission factor of 316 lb/mmscf is based on 40CFR60 Subpart JJJJ Table 1 requirements of 1.0 g/hp-hr of NO<sub>x</sub> with the assumption that the heating value of natural gas is 1020 Btu/scf and should be demonstrated through the stack test.

O = 12-month rolling total of ULSD diesel fired (from turbine 00001), in gal/yr;

P = 0.005 lbs/gal - NO<sub>x</sub> emission factor from operation of turbine on ULSD diesel (lbs/gal). To be verified by CEMS.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 24.9 tons per year

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 1/30/2018.

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

**Condition 3-3: Capping Monitoring Condition**  
**Effective between the dates of 02/11/2016 and 06/25/2024**

**Applicable Federal Requirement: 6 NYCRR Subpart 201-7**

**Item 3-3.1:**

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

6 NYCRR Subpart 201-6

**Item 3-3.2:**

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

**Item 3-3.3:**

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request.



**New York State Department of Environmental Conservation**

Permit ID: 2-6206-01492/00002

Facility DEC ID: 2620601492



The Compliance Demonstration applies to:

Emission Unit: U-00001

Emission Point: 00001

**Item 8.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

CEMS requirements.

The owner or operator of an emission source that monitors NOx emissions with a CEMS must submit for department approval a CEMS plan at least 180 days prior to equipment installation.

The owner or operator of an emission source that monitors NOx emissions with a CEMS must submit for department approval a CEMS certification protocol at least 60 days prior to compliance testing. The certification protocol must include the location of and specifications for each instrument or device, as well as procedures for calibration, operation, data evaluation, and data reporting.

The owner or operator of an emission source that monitors NOx emissions with a CEMS must install, calibrate, maintain, and operate a CEMS for measuring NOx at locations approved in the CEMS certification protocol and must record the output of each such system.

Reference Test Method: EPA

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 9: Air pollution prohibited**

**Effective between the dates of 06/26/2014 and 06/25/2024**

**Applicable Federal Requirement:6 NYCRR 211.1**

**Item 9.1:**

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 11: Compliance Demonstration**  
Effective between the dates of 06/26/2014 and 06/25/2024

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

**Item 11.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 11.2:**

Compliance Demonstration 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 12: Compliance Demonstration**  
Effective between the dates of 06/26/2014 and 06/25/2024

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

**Item 12.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 12.2:**

Compliance Demonstration shall include the following monitoring:

**New York State Department of Environmental Conservation**

Permit ID: 2-6206-01492/00002

Facility DEC ID: 2620601492



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 13: Record Availability**

**Effective between the dates of 06/26/2014 and 06/25/2024**

**Applicable Federal Requirement:6 NYCRR 225-1.6 (d)**

**Item 13.1: Facility owners required to maintain and retain records pursuant to this Subpart must make such records available for inspection by the Department.**

**Condition 14: Compliance Demonstration**

**Effective between the dates of 06/26/2014 and 06/25/2024**

**Applicable Federal Requirement:6 NYCRR 225-1.6 (f)**

**Item 14.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 14.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:



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

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.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 15: Compliance Demonstration**  
**Effective between the dates of 06/26/2014 and 06/25/2024**

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

**Item 15.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 15.2:**

Compliance Demonstration 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 6 minute period per hour of not more than 27 percent opacity. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

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



potential to exceed the opacity standard.

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

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

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 16: Compliance Demonstration**  
**Effective between the dates of 06/26/2014 and 06/25/2024**

**Applicable Federal Requirement:6 NYCRR Subpart 231-13**

**Item 16.1:**

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY750-00-0 CARBON DIOXIDE EQUIVALENTS

**Item 16.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Plant-wide Greenhouse Gas emissions (as CO<sub>2</sub>e) are limited to an annual maximum of 100,000 tons per year rolled monthly.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: FUEL







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

**Condition 20: Compliance Demonstration**  
Effective between the dates of 06/26/2014 and 06/25/2024

**Applicable Federal Requirement:40CFR 60.13(c), NSPS Subpart A**

**Item 20.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001

**Item 20.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If the owner or operator of an affected facility elects to submit continuous opacity monitoring system (COMS) data for compliance with the opacity standard as provided under §60.11(e)(5), he or she shall conduct a performance evaluation of the COMS as specified in Performance Specification 1, appendix B, of 40CFR 60 before the performance test required under §60.8 is conducted. Otherwise, the owner or operator of an affected facility shall conduct a performance evaluation of the COMS or continuous emission monitoring system (CEMS) during any performance test required under §60.8 or within 30 days thereafter in accordance with the applicable performance specification in appendix B of 40CFR 60. The owner or operator of an affected facility shall conduct COMS or CEMS performance evaluations at such other times as may be required by the Administrator under section 114 of the Act.

(1) The owner or operator of an affected facility using a COMS to determine opacity compliance during any performance test required under §60.8 and as described in §60.11(e)(5) shall furnish the Administrator two or, upon request, more copies of a written report of the results of the COMS performance evaluation described in 40CFR60.13(c) at least 10 days before the performance test required under §60.8 is conducted.

(2) Except as provided in paragraph 40CFR60.13(c)(1), the owner or operator of an affected facility shall furnish the Administrator within 60 days of completion two or, upon request, more copies of a written report of the results of the performance evaluation.



**New York State Department of Environmental Conservation**

Permit ID: 2-6206-01492/00002

Facility DEC ID: 2620601492



**Item 22.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001

Process: 001

Emission Source: 00001

Regulated Contaminant(s):

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

**Item 22.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

For a facility with a new turbine firing natural gas and if the combustion turbine heat input at peak load (HHV) is greater than 50 mmBtu/hr and less than or equal to 850 mmBtu/hr, the facility must not exceed the NOx emission standard of 25 ppm at 15% O<sub>2</sub>.

Compliance with this emission standard shall be determined according to the annual performance tests as specified in §60.4340(a).

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 25 parts per million by volume (dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: EPA Method 7E or Met

Monitoring Frequency: ANNUALLY

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2015.

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

**Condition 23: Compliance Demonstration**

**Effective between the dates of 06/26/2014 and 06/25/2024**

**Applicable Federal Requirement:40CFR 60.4330, NSPS Subpart KKKK**

**Item 23.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001

Process: 001

Emission Source: 00001

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

**Item 23.2:**

Compliance Demonstration shall include the following monitoring:

**New York State Department of Environmental Conservation**

Permit ID: 2-6206-01492/00002

Facility DEC ID: 2620601492



Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emission limit for sulfur dioxide from a stationary combustion turbine is 0.060 lb SO<sub>2</sub>/MMBtu heat input. If the turbine simultaneously fires multiple fuels, each fuel must meet this requirement.

Parameter Monitored: SULFUR DIOXIDE

Upper Permit Limit: 0.060 pounds per million Btus

Reference Test Method: ASTM D5287

Monitoring Frequency: MONTHLY

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 24: Compliance Demonstration**  
**Effective between the dates of 06/26/2014 and 06/25/2024**

**Applicable Federal Requirement:40CFR 60.48b(b), NSPS Subpart Db**

**Item 24.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001

Process: 002

Regulated Contaminant(s):

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

**Item 24.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The owner or operator shall install, calibrate, maintain, and operate a continuous monitoring system for measuring nitrogen oxides emissions discharged to the atmosphere and record the output of the system.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 204 pounds per million cubic feet

Monitoring Frequency: CONTINUOUS

Averaging Method: 30-DAY ROLLING AVERAGE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 25: Compliance Demonstration**  
**Effective between the dates of 06/26/2014 and 06/25/2024**

**Applicable Federal Requirement:40CFR 60.48b(b), NSPS Subpart Db**

**Item 25.1:**

The Compliance Demonstration activity will be performed for:





**New York State Department of Environmental Conservation**

Permit ID: 2-6206-01492/00002

Facility DEC ID: 2620601492



The owner or operator shall install, calibrate, maintain, and operate a continuous monitoring system for measuring the opacity of emissions discharged to the atmosphere and record the output of the system.

Parameter Monitored: OPACITY  
Upper Permit Limit: 20 percent  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 6 MINUTE AVERAGE  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 7/30/2014.  
Subsequent reports are due every 3 calendar month(s).

**Condition 27: Alternative means of demonstrating compliance**  
**Effective between the dates of 06/26/2014 and 06/25/2024**

**Applicable Federal Requirement:40CFR 60.4340(b), NSPS Subpart**

**KKKK**

**Item 27.1:**

This Condition applies to Emission Unit: U-00001 Emission Point: 00001  
Process: 001 Emission Source: 00001

**Item 27.2:** As an alternate means of demonstrating compliance , the facility may install, calibrate, maintain and operate one of the following continuous monitoring systems:  
(1) Continuous emission monitoring as described in 40 CFR 60.4335(b) and 60.4345, or  
(2) Continuous parameter monitoring as follows:  
(i) For a diffusion flame turbine without add-on selective catalytic reduction (SCR) controls, you must define parameters indicative of the unit's NO<sub>x</sub> formation characteristics, and you must monitor these parameters continuously.  
(ii) For any lean premix stationary combustion turbine, you must continuously monitor the appropriate parameters to determine whether the unit is operating in low-NO<sub>x</sub> mode.  
(iii) For any turbine that uses SCR to reduce NO<sub>x</sub> emissions, you must continuously monitor appropriate parameters to verify the proper operation of the emission controls.  
(iv) For affected units that are also regulated under 40 CFR Part 75, with state approval you can monitor the NO<sub>x</sub> emission rate using the methodology in appendix E to 40 CFR Part 75 of this chapter, or the low mass emissions methodology in §75.19, the requirements of this paragraph (b) may be met by performing the parametric monitoring described in section 2.3 of part 75 appendix E or in §75.19(c)(1)(iv)(H).

**Condition 28: Compliance Demonstration**  
**Effective between the dates of 06/26/2014 and 06/25/2024**

**Applicable Federal Requirement:40CFR 60.4365(a), NSPS Subpart**

**KKKK**

**Item 28.1:**

The Compliance Demonstration activity will be performed for:



**New York State Department of Environmental Conservation**

**Permit ID: 2-6206-01492/00002**

**Facility DEC ID: 2620601492**



Emission Unit: U-00001  
Process: 001

Emission Point: 00001  
Emission Source: 00001

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

**Item 28.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility may elect not to monitor the total sulfur content of the fuel combusted in the turbine, if the fuel is demonstrated not to exceed potential sulfur emissions of 26 ng SO<sub>2</sub>/J (0.060 lb SO<sub>2</sub>/mmBtu) heat input.

The facility must use the fuel quality characteristics in a current, valid purchase contract, tariff sheet, or transportation contract for the fuel, specifying that:

- 1) The maximum total sulfur content for oil use is 0.05% by weight (500 ppmw) or less, or
- 2) The total sulfur content for natural gas use is 20 grains of sulfur or less per 100 standard cubic feet, or
- 3) Has potential sulfur emissions of less than 26 ng SO<sub>2</sub>/J (0.060 lb SO<sub>2</sub>/mmBtu) heat input.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY



**STATE ONLY ENFORCEABLE CONDITIONS**

**\*\*\*\* Facility Level \*\*\*\***

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

**This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability**

**Item A: Emergency Defense - 6 NYCRR 201-1.5**

An emergency, as defined by subpart 201-2, constitutes an affirmative defense to penalties sought in an enforcement action brought by the Department for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

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

(1) An emergency occurred and that the facility owner or operator can identify the cause(s) of the emergency;

(2) The equipment at the permitted facility causing the emergency was at the time being properly operated and maintained;

(3) During the period of the emergency the facility owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

(4) The facility owner or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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

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

**Item B: Public Access to Recordkeeping for Facilities With State Facility Permits - 6 NYCRR 201-1.10 (a)**

Where facility owners and/or operators keep records pursuant to compliance with the requirements of 6 NYCRR Subpart 201-5.4, and/or the emission capping requirements of 6 NYCRR Subpart 201-7, the Department will make such records available to the public upon request in accordance with 6 NYCRR Part 616 - Public Access to Records.



Facility owners and/or operators must submit the records required to comply with the request within sixty working days of written notification by the Department.

**Item C: 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 only enforceable.**

**Condition 29: Contaminant List  
Effective between the dates of 06/26/2014 and 06/25/2024**

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

**Item 29.1:**

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

CAS No: 0NY750-00-0



New York State Department of Environmental Conservation

Permit ID: 2-6206-01492/00002

Facility DEC ID: 2620601492



Emission Unit: U-00001

Emission Unit Description:

This emission unit is comprised of one 10 MW CHP plant, which includes one natural gas-fired (Process 001) turbine (ES 00001) with added capability to fire ultra low sulfur diesel (Process TOL) with a duct firing heat recovery steam generator and a 2.4 MW steam turbine generator.

This emission unit also includes two back-up boilers each rated at 150,000 lbs/hr of steam heat. The boilers would be used in an emergency condition when the CHP plant is not operating and may operate concurrently with the gas turbine to add reliability to the steam system. The boilers will burn natural gas or ultra low sulfur fuel oil. The emission points listed under this emission unit, 00001 and 00002 are the main stack and the emergency stack, which exhaust both the CHP plant and the back-up boilers. Emission point 00002 will be used during construction of the Kimmel Building, during initial start-up and testing of the CHP and back-up boilers, and during purge and start-up of the boilers and turbine. Emission sources listed under this emission unit are 00001 and 00002 for the turbine and the duct-burner respectively, 00003 and 00004 for the SCR and oxidation catalyst controls, and 00005 and 00006 for the two back-up boilers.

Building(s): ENERGY

**Item 31.2(From Mod 3):**

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

Emission Unit: U-00002

Emission Unit Description:

This unit consists of four existing generators that will participate in non-emergency programs. Each generator has independent stack and fires diesel. 4601 hp gas reciprocating engine (non-emergency) is being added to this unit. The engine will have it own independent stack and will be located on the roof top of Kimmel Pavilion.

Building(s): HCC  
KIMMEL  
SKIRBALL  
SMILLOW

**Condition 32: Renewal deadlines for state facility permits  
Effective between the dates of 06/26/2014 and 06/25/2024**

**Applicable State Requirement:6 NYCRR 201-5.2 (c)**



**New York State Department of Environmental Conservation**

Permit ID: 2-6206-01492/00002

Facility DEC ID: 2620601492

**Item 32.1:**

The owner or operator of a facility having an issued state facility 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.

**Condition 1-1: Compliance Demonstration**

**Effective between the dates of 07/13/2015 and 06/25/2024**

**Applicable State Requirement:6 NYCRR 201-5.3 (c)**

**Item 1-1.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 1-1.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any reports or submissions required by this permit shall be submitted to the Regional Air Pollution Control Engineer (RAPCE) at the following address:

Division of Air Resources  
NYS Dept. of Environmental Conservation  
Region 2  
47-40 21st St.  
Long Island City, NY 11101

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 34: Visible Emissions Limited**

**Effective between the dates of 06/26/2014 and 06/25/2024**

**Applicable State Requirement:6 NYCRR 211.2**

**Item 34.1:**

Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

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

**Condition 35: Emission Point Definition By Emission Unit**

**Effective between the dates of 06/26/2014 and 06/25/2024**

**New York State Department of Environmental Conservation**

Permit ID: 2-6206-01492/00002

Facility DEC ID: 2620601492



**Applicable State Requirement:6 NYCRR Subpart 201-5**

**Item 35.1(From Mod 0):**

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

Emission Unit: U-00001

Emission Point: 00001

Height (ft.): 429

Diameter (in.): 48

NYTMN (km.): 4510.7

NYTME (km.): 586.7

Building: KIMMEL

Emission Point: 00002

Height (ft.): 135

Diameter (in.): 44

NYTMN (km.): 4510.7

NYTME (km.): 586.7

Building: ENERGY

**Item 35.2(From Mod 3):**

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

Emission Unit: U-00002

Emission Point: EGEN1

Height (ft.): 328

Diameter (in.): 18

NYTMN (km.): 4510.7

NYTME (km.): 586.7

Building: SMILLOW

Emission Point: EGEN2

Height (ft.): 288

Diameter (in.): 18

NYTMN (km.): 4510.7

NYTME (km.): 586.7

Building: SMILLOW

Emission Point: EGEN3

Height (ft.): 288

Diameter (in.): 18

NYTMN (km.): 4510.7

NYTME (km.): 586.7

Building: SKIRBALL

Emission Point: EGEN4

Height (ft.): 54

Diameter (in.): 18

NYTMN (km.): 4510.7

NYTME (km.): 586.7

Building: HCC

Emission Point: GGNKP

Height (ft.): 364

Diameter (in.): 26

NYTMN (km.): 4510.7

NYTME (km.): 586.7

Building: KIMMEL

**Condition 36: Process Definition By Emission Unit**

**Effective between the dates of 06/26/2014 and 06/25/2024**

**Applicable State Requirement:6 NYCRR Subpart 201-5**

**Item 36.1(From Mod 0):**

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

Emission Unit: U-00001

Process: 001

Source Classification Code: 2-03-002-03

Process Description: Firing natural gas in the turbine and duct burner.

**New York State Department of Environmental Conservation**

Permit ID: 2-6206-01492/00002

Facility DEC ID: 2620601492



Emission Source/Control: 00001 - Combustion  
Design Capacity: 10 megawatt

Emission Source/Control: 00002 - Combustion  
Design Capacity: 116 million Btu per hour

Emission Source/Control: 00003 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: 00004 - Control  
Control Type: CATALYTIC OXIDATION

**Item 36.2(From Mod 0):**

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

Emission Unit: U-00001  
Process: 002 Source Classification Code: 1-03-006-01  
Process Description:  
Firing natural gas in the back-up boilers. The heat input capacity for each boiler is 173.78 mmBtu/hr on natural gas.

Emission Source/Control: 00005 - Combustion  
Design Capacity: 150,000 pound steam per hour

Emission Source/Control: 00006 - Combustion  
Design Capacity: 150,000 pound steam per hour

**Item 36.3(From Mod 0):**

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

Emission Unit: U-00001  
Process: 003 Source Classification Code: 1-03-005-01  
Process Description:  
Firing #2 fuel oil in boilers. The heat input capacity for each boiler is 180.7 mmBtu/hr on ultra low sulfur oil.

Emission Source/Control: 00005 - Combustion  
Design Capacity: 150,000 pound steam per hour

Emission Source/Control: 00006 - Combustion  
Design Capacity: 150,000 pound steam per hour

**Item 36.4(From Mod 3):**

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

Emission Unit: U-00001  
Process: TOL Source Classification Code: 2-01-001-01  
Process Description: Firing ULSD (ultra low sulfur diesel) in turbine.

Emission Source/Control: 00001 - Combustion





**New York State Department of Environmental Conservation**

Permit ID: 2-6206-01492/00002

Facility DEC ID: 2620601492

Design Capacity: 10 megawatt

**Item 36.5(From Mod 3):**

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

Emission Unit: U-00002  
Process: GEN Source Classification Code: 2-01-001-02  
Process Description: Firing diesel fuel in four existing engines.

Emission Source/Control: SGEN1 - Combustion  
Design Capacity: 1,400 kilowatts

Emission Source/Control: SGEN2 - Combustion  
Design Capacity: 1,400 kilowatts

Emission Source/Control: SGEN3 - Combustion  
Design Capacity: 1,250 kilowatts

Emission Source/Control: SGEN4 - Combustion  
Design Capacity: 1,000 kilowatts

**Item 36.6(From Mod 3):**

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

Emission Unit: U-00002  
Process: GKP Source Classification Code: 2-01-002-02  
Process Description: Firing natural gas in engines.

Emission Source/Control: SGGNK - Combustion  
Design Capacity: 3,332 kilowatts

**Condition 37: Compliance Demonstration**  
**Effective between the dates of 06/26/2014 and 06/25/2024**

**Applicable State Requirement:6 NYCRR 227-1.4 (a)**

**Item 37.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00001  
Process: 002 Emission Source: 00005

Emission Unit: U-00001  
Process: 002 Emission Source: 00006

Emission Unit: U-00001  
Process: 003 Emission Source: 00005

Emission Unit: U-00001  
Process: 003 Emission Source: 00006

**New York State Department of Environmental Conservation**

Permit ID: 2-6206-01492/00002

Facility DEC ID: 2620601492



**Item 37.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

Any person who owns a stationary combustion installation (excluding gas turbines), with a total maximum heat input capacity exceeding 250 million Btu per hour shall install, operate in accordance with manufacturer's instructions, and properly maintain, accurate instruments satisfying the criteria in appendix B of title 40, part 60 of the Code of Federal Regulations, or approved by the commissioner on an individual case basis, for continuously monitoring and recording opacity, and when sulfur dioxide continuous monitoring is required by Part 225 of this Title, for continuously monitoring and recording either the percent oxygen or carbon dioxide in the flue gases from such installations at all times that the combustion installation is in service. Where gas is the only fuel burned, monitoring and recording of opacity is not required.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Appendix B, 40 CFR 60

Monitoring Frequency: CONTINUOUS

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2014.

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