



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 2-6201-00056/00009
Effective Date: 01/21/2015 Expiration Date: 01/20/2025

Permit Issued To: TRUSTEES OF COLUMBIA UNIVERSITY IN CITY OF NEW YORK
535 W 116TH ST
NEW YORK, NY 10027

Contact: JAMES T THOMPSEN
COLUMBIA UNIVERSITY MEDICAL CENTER
650 WEST 168TH ST RM B-08
NEW YORK, NY 10032
(212) 305-3751

Facility: COLUMBIA UNIVERSITY MEDICAL CENTER
630-650 & 722 W 168TH ST
NEW YORK, NY 10032

Description:

Conversion from an Air Title V Facility permit to an Air State Facility Permit for the campus.
Conversion of fuel type for three boilers at 100 Haven Avenue from #6 fuel oil to natural gas with #2 oil as a backup.

The COLUMBIA UNIVERSITY MEDICAL CENTER is located at 630-650 West 168th Street and Broadway and comprises 13 buildings in various locations between Riverside Drive to the west, Audubon Ave to the east, Haven Avenue and 173rd Street to the north and 165th Street to the south. One residential structure is located at 390 Fort Washington Avenue, apart from the main cluster of facility buildings. There are three operating entities at Columbia, the residential entity comprising dormitory use and consisting of 7 buildings (Bard Tower and Hall, 154 Haven Residence Administrative, 106 Haven Residence, and 390 Fort Washington Avenue), the research and development entity consisting of 3 buildings (Armand Hammer, William Black, and the College of Physicians and Surgeons - known as "P&S"), and the Audubon entity consisting of 3 buildings (Audubon 1- known as Lasker, Audubon 11- known as Berrie, and Audubon III - known as Irving pavilion). The structure located at 390 Fort Washington Avenue is isolated from the main campus described above, but has been included in this application.

The facility operates combustion emission sources in the various buildings of the facility.

The facility nitrogen oxides (NOx) emissions are limited to 24.9 tons per year.

Records demonstrating compliance with this cap will be kept in accordance with the permit special conditions.

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

The Air State Facility permit contains a listing of the applicable federal, state, and compliance

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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: 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 ******
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: 2-6201-00056/00009

Facility DEC ID: 2620100056



Permit Under the Environmental Conservation Law (ECL)

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

IDENTIFICATION INFORMATION

Permit Issued To: TRUSTEES OF COLUMBIA UNIVERSITY IN CITY OF NEW YORK
535 W 116TH ST
NEW YORK, NY 10027

Facility: COLUMBIA UNIVERSITY MEDICAL CENTER
630-650 & 722 W 168TH ST
NEW YORK, NY 10032

Authorized Activity By Standard Industrial Classification Code:
8062 - GENERAL MEDICAL & SURGICAL HOSPITALS
8221 - COLLEGES AND UNIVERSITIES, NEC

Permit Effective Date: 01/21/2015

Permit Expiration Date: 01/20/2025



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 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 4 6 NYCRR 202-1.1: Required Emissions Tests
- 5 6 NYCRR Subpart 201-7: Facility Permissible Emissions
- *6 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 7 6 NYCRR 211.1: Air pollution prohibited
- 8 6 NYCRR 225-1.2 (f): Compliance Demonstration
- 9 6 NYCRR 225-1.2 (g): Compliance Demonstration
- 10 6 NYCRR 225-1.2 (h): Compliance Demonstration
- 11 6 NYCRR 225-1.6 (f): Compliance Demonstration
- 12 6 NYCRR 227-1.3 (a): Compliance Demonstration
- 13 40CFR 60.48c(f)(1), NSPS Subpart Dc: Compliance Demonstration
- 14 40CFR 60, NSPS Subpart IIII: Compliance and Enforcement
- 15 40CFR 63, Subpart JJJJJ: Compliance and Enforcement
- 16 40CFR 63, Subpart ZZZZ: Compliance and Enforcement

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 17 ECL 19-0301: Contaminant List
- 18 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 19 6 NYCRR Subpart 201-5: Emission Unit Definition
- 20 6 NYCRR 201-5.2 (c): Renewal deadlines for state facility permits
- 21 6 NYCRR 201-5.3 (c): Compliance Demonstration
- 22 6 NYCRR 211.2: Visible Emissions Limited
- 23 6 NYCRR 219-4.7: Compliance Demonstration
- 24 6 NYCRR 219-4.11: Compliance Demonstration

Emission Unit Level

- 25 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
- 26 6 NYCRR Subpart 201-5: Process Definition By Emission Unit

EU=1-PAS01

- 27 6 NYCRR 219-4.3: Compliance Demonstration
- 28 6 NYCRR 219-4.4: This section describes design requirements for crematories and pathological incinerators.
- 29 6 NYCRR 219-4.5: Operating requirements for crematories as outlined in this Subpart.
- 30 6 NYCRR 219-4.6: This section describes other wastes that can and can not be burned in a crematory.
- 31 6 NYCRR 219-4.8: Stack Testing requirements

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: Emergency Defense - 6 NYCRR 201-1.5

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

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

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

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



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

Item F: 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 G: 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 H: 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 I: Proof of Eligibility for Sources Defined as Trivial Activities - 6 NYCRR 201-3.3 (a)

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 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 J: Required Emission Tests - 6 NYCRR 202-1.1



An acceptable report of measured emissions shall be submitted, as may be required by the Commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the Commissioner within the time stated shall be sufficient reason for the Commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6 NYCRR Subpart 202-1.

Item K: Open Fires Prohibitions - 6 NYCRR 215.2

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

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.

FEDERAL APPLICABLE REQUIREMENTS
The following conditions are federally enforceable.

Condition 1: Exempt Sources - Proof of Eligibility



Effective between the dates of 01/21/2015 and 01/20/2025

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 01/21/2015 and 01/20/2025

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

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 3: Trivial Sources - Proof of Eligibility
Effective between the dates of 01/21/2015 and 01/20/2025

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

Item 3.1:

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 4: Required Emissions Tests
Effective between the dates of 01/21/2015 and 01/20/2025



Applicable Federal Requirement:6 NYCRR 202-1.1

Item 4.1:

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

Condition 5: Facility Permissible Emissions
Effective between the dates of 01/21/2015 and 01/20/2025

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 5.1:

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

PTE: 49,800 pounds per year

Name: OXIDES OF NITROGEN

Condition 6: Capping Monitoring Condition
Effective between the dates of 01/21/2015 and 01/20/2025

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 6.1:

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 6.2:

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

Item 6.3:

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 6.4:

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

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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 6.5:

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

Item 6.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 6.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

The NO_x (oxides of nitrogen) emissions are capped at 24.9 tons per 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 (based on the fuel quantity) using the following formula:

$D(0.02) + G(100) + E(0.44) < 49,800$ lbs/yr of Oxides of Nitrogen emissions.

Where:

D = 12-month rolling total of distillate oil fired (from boilers) in gals/yr

(based on AP-42 emission factor);

G = 12-month rolling total of natural gas fired (from boilers) in MMSCF/yr

(based on AP-42 emission factor);

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

(based on AP-42 emission factor).

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: FUEL

Upper Permit Limit: 49800 pounds per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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The initial report is due 1/30/2016.
Subsequent reports are due every 12 calendar month(s).

Condition 7: Air pollution prohibited
Effective between the dates of 01/21/2015 and 01/20/2025

Applicable Federal Requirement:6 NYCRR 211.1

Item 7.1:

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 8: Compliance Demonstration
Effective between the dates of 01/21/2015 and 01/20/2025

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

Item 8.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 8.2:

Compliance Demonstration 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 9: Compliance Demonstration
Effective between the dates of 01/21/2015 and 01/20/2025

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

Item 9.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 9.2:

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 10: Compliance Demonstration
Effective between the dates of 01/21/2015 and 01/20/2025

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

Item 10.1:

The Compliance Demonstration activity will be performed for the Facility.



Item 10.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners and/or operators of a stationary combustion 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 11: Compliance Demonstration
Effective between the dates of 01/21/2015 and 01/20/2025

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

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: 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

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 12: Compliance Demonstration
Effective between the dates of 01/21/2015 and 01/20/2025

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

Item 12.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 12.2:

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 13: Compliance Demonstration
Effective between the dates of 01/21/2015 and 01/20/2025

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

Item 13.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 13.2:

Compliance Demonstration 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.
- iii) The sulfur content or maximum sulfur content of the oil.

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Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING
DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 14: Compliance and Enforcement
Effective between the dates of 01/21/2015 and 01/20/2025

Applicable Federal Requirement:40CFR 60, NSPS Subpart IIII

Item 14.1:

The Department has not accepted delegation of 40 CFR Part 60 Subpart IIII. 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 60 Subpart IIII during the term of this permit, enforcement of this regulation will revert to the Department as of the effective date of delegation.

Condition 15: Compliance and Enforcement
Effective between the dates of 01/21/2015 and 01/20/2025

Applicable Federal Requirement:40CFR 63, Subpart JJJJJJ

Item 15.1:

The Department has not accepted delegation of 40 CFR Part 63 Subpart JJJJJJ. 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 JJJJJJ during the term of this permit, enforcement of this regulation will revert to the Department as of the effective date of delegation.

Condition 16: Compliance and Enforcement
Effective between the dates of 01/21/2015 and 01/20/2025

Applicable Federal Requirement:40CFR 63, Subpart ZZZZ

Item 16.1:

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.





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

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

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

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state only enforceable.

Condition 17: Contaminant List
Effective between the dates of 01/21/2015 and 01/20/2025



Applicable State Requirement:ECL 19-0301

Item 17.1:

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

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

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

**Condition 18: Malfunctions and start-up/shutdown activities
Effective between the dates of 01/21/2015 and 01/20/2025**

Applicable State Requirement:6 NYCRR 201-1.4

Item 18.1:

(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.

Condition 19: Emission Unit Definition
Effective between the dates of 01/21/2015 and 01/20/2025

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 19.1:

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

Emission Unit: 1-HAVEN

Emission Unit Description:

Emission Unit 1-HAVEN represents 3 identical Rockmills Steel Products boilers. These three boilers vent to a single flue stack, designated emission point HAVEN and are located in building HAV. The boilers have the following emission source ids: HAV01, HAV02, HAV03.

Building(s): HAV

Item 19.2:

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

Emission Unit: 1-IRV01

Emission Unit Description:

Emission Unit 1-IRV01 represents 6 dual fuel (natural gas and No. 2 fuel oil) fired Cleaver Brooks boilers. Three of the boilers (IRV01, IRV02, IRV03) are rated at 16.75 MMBtu/hr each, are located in building IRV, and all vent to a single stack (IRV01). The boilers are Cleaver Brooks Model 200-400-125. One boiler (IRV06), a Cleaver Brooks Model 200-125-125 rated at 5.3 MMBtu/hr also vents to emission point IRV01. All 4 of these boilers were installed in 2002. Two of the boilers are rated at 12.5 MMBtu/hr each, are located in the building IRV and both vent to a single stack (IRV02). These boilers are Cleaver Brooks Model 200-300-150 and were installed in 2004. These two boilers have the following emission source ids: IRV04 and IRV05.

Building(s): IRV

Item 19.3:

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

Emission Unit: 1--LASK

Emission Unit Description:

Emission Unit 1-LASK represents 1 Bryant Flexible Tube Boiler rated at 2.4 mmBTU/hr, 2 York Paraflow Absorption Units ('chillers') rated at 6.7 mmBTU/hr each and 1 Detroit Diesel 750 KL generator rated at 8.83 mmBTU/hr(3518 hp).

Item 19.4:



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

Emission Unit: 1-NSR01

Emission Unit Description:

Emission unit 1-NSR01 represents all new sources added during the 1999 to 2004 contemporaneous period. These sources represent those that have operating limits (fuel use for the boilers/water heaters and operating hours for the emergency power engines). In order to limit NOx emission increases to less than 25 tons per year over the contemporaneous period. Note that emissions of VOC, on an unrestricted PTE basis, are well below 25 tons per year. As such, operating limits applied to control NOx will, by default, limit VOC to well under the NNSR applicability threshold of 25 tons per year. Emission unit 1-NSR01 consists of the following emission sources: IRVEP, BBEP1, BBEP2, HAMEP, 722EP, BERR1, BERR2 and BERR3. Emission sources BERR1, BERR2 and BERR3 emit to emission point BERR1. Emission source BBEP1 emits to emission point BBEP1. Emission source BBEP2 emits to emission point BBEP2. Emission source HAMEP emits to emission point HAMEP. Emission source 722EP emits to emission point 722EP.

Building(s): BER
BLK
HAM
IRV
PI

Item 19.5:

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

Emission Unit: 1-PAS01

Emission Unit Description:

Emission Unit 1-PAS01 represents a single crematory waste (type 4) incinerator. The type 4 waste consists of animal carcasses. The incinerator has primary and secondary combustion chambers that both fire natural gas. The primary chamber is rated at 8.0 MMBtu/hr and the secondary chamber is rated at 1.45 MMBtu/hr. The incinerator was installed in 1987 and was completely rebuilt during late 1995 and early 1996. The incinerator uses a breeching scrubber for emission control and has a maximum charge of 200 pounds per hour via hydraulic ram feed. The unit runs twice per week and waste is charged at the 200 pound per hour rate between the hours of 8 am to 3 pm. The unit is activated at 7 am and requires one hour to ramp up. Waste is then fed between 8 a m and 3 pm and then the unit ramps down for another hour. Emission unit 1-PAS01 is located in the PAS (P&S) building and vents to emission point PAS01. This incinerator has the following emission source id: PAS01. The incinerator was manufactured by Morse Boulger and the unit carries a "P200" model number.

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Building(s): PAS

Condition 20: Renewal deadlines for state facility permits
Effective between the dates of 01/21/2015 and 01/20/2025

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

Item 20.1:

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 21: Compliance Demonstration
Effective between the dates of 01/21/2015 and 01/20/2025

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

Item 21.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 21.2:

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 22: Visible Emissions Limited
Effective between the dates of 01/21/2015 and 01/20/2025

Applicable State Requirement:6 NYCRR 211.2

Item 22.1:

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.

Condition 23: Compliance Demonstration
Effective between the dates of 01/21/2015 and 01/20/2025

Applicable State Requirement:6 NYCRR 219-4.7

Item 23.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 23.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any person who owns or operates a crematory facility must install, operate and maintain in accordance with manufacturer's instructions, instruments meeting specifications acceptable to the commissioner for continuously monitoring and recording the following emission and operating parameters:

- (1) primary combustion chamber exit temperature;
- (2) secondary (or last) combustion chamber exit temperature.

Monitoring Frequency: CONTINUOUS

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 24: Compliance Demonstration
Effective between the dates of 01/21/2015 and 01/20/2025

Applicable State Requirement:6 NYCRR 219-4.11

Item 24.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 24.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Each owner or operator of a crematory facility must annually inspect the facility and submit a written report to the department, certifying that the condition and operation of the facility, including the calibration of all instrumentation, meets manufacturer's specifications.

Monitoring Frequency: ANNUALLY

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Averaging Method: AVERAGING METHOD - SEE MONITORING
DESCRIPTION

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).

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

Condition 25: Emission Point Definition By Emission Unit
Effective between the dates of 01/21/2015 and 01/20/2025

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 25.1:

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

Emission Unit: 1-HAVEN

Emission Point: HAVEN

Height (ft.): 350 Length (in.): 28 Width (in.): 64
NYTMN (km.): 4522.049 NYTME (km.): 589.087 Building: HAV

Item 25.2:

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

Emission Unit: 1-IRV01

Emission Point: IRV01

Height (ft.): 374 Diameter (in.): 44
NYTMN (km.): 4521.52 NYTME (km.): 589.411 Building: IRV

Emission Point: IRV02

Height (ft.): 374 Diameter (in.): 38
NYTMN (km.): 4521.473 NYTME (km.): 589.409 Building: IRV

Item 25.3:

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

Emission Unit: 1-NSR01

Emission Point: 722EP

Height (ft.): 0 Diameter (in.): 8
NYTMN (km.): 4521.788 NYTME (km.): 589.052 Building: PI

Emission Point: BBEP1

Height (ft.): 317 Diameter (in.): 18
NYTMN (km.): 4521.717 NYTME (km.): 589.186 Building: BLK

Emission Point: BBEP2

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Height (ft.): 317 Diameter (in.): 18
NYTMN (km.): 4521.708 NYTME (km.): 589.207 Building: BLK

Emission Point: BERR1
Height (ft.): 154 Diameter (in.): 14
NYTMN (km.): 4521.559 NYTME (km.): 589.415 Building: BER

Emission Point: HAMEP
Height (ft.): 39 Diameter (in.): 14
NYTMN (km.): 4521.848 NYTME (km.): 589.118 Building: HAM

Emission Point: IREVP
Height (ft.): 372 Diameter (in.): 14
NYTMN (km.): 4521.511 NYTME (km.): 589.432 Building: IRV

Item 25.4:

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

Emission Unit: 1-PAS01

Emission Point: PAS01
Height (ft.): 272 Diameter (in.): 40
NYTMN (km.): 4521.666 NYTME (km.): 589.2 Building: PAS

**Condition 26: Process Definition By Emission Unit
Effective between the dates of 01/21/2015 and 01/20/2025**

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 26.1:

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

Emission Unit: 1-HAVEN
Process: NAT Source Classification Code: 1-03-006-02
Process Description: Firing natural gas.

Emission Source/Control: HAV01 - Combustion
Design Capacity: 16.9 million Btu per hour

Emission Source/Control: HAV02 - Combustion
Design Capacity: 16.9 million Btu per hour

Emission Source/Control: HAV03 - Combustion
Design Capacity: 16.9 million Btu per hour

Item 26.2:

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

Emission Unit: 1-HAVEN
Process: OH2 Source Classification Code: 1-03-005-02
Process Description: Firing #2 fuel oil.



Emission Source/Control: HAV01 - Combustion
Design Capacity: 16.9 million Btu per hour

Emission Source/Control: HAV02 - Combustion
Design Capacity: 16.9 million Btu per hour

Emission Source/Control: HAV03 - Combustion
Design Capacity: 16.9 million Btu per hour

Item 26.3:

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

Emission Unit: 1-IRV01
Process: GR1 Source Classification Code: 1-03-006-02
Process Description: Firing natural gas.

Emission Source/Control: IRV01 - Combustion
Design Capacity: 16.75 million Btu per hour

Emission Source/Control: IRV02 - Combustion
Design Capacity: 16.75 million Btu per hour

Emission Source/Control: IRV03 - Combustion
Design Capacity: 16.75 million Btu per hour

Emission Source/Control: IRV04 - Combustion
Design Capacity: 12.56 million Btu per hour

Emission Source/Control: IRV05 - Combustion
Design Capacity: 12.56 million Btu per hour

Emission Source/Control: IRV06 - Combustion
Design Capacity: 5.3 million Btu per hour

Item 26.4:

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

Emission Unit: 1-IRV01
Process: OR1 Source Classification Code: 1-03-005-02
Process Description: Firing #2 fuel oil.

Emission Source/Control: IRV01 - Combustion
Design Capacity: 16.75 million Btu per hour

Emission Source/Control: IRV02 - Combustion
Design Capacity: 16.75 million Btu per hour

Emission Source/Control: IRV03 - Combustion
Design Capacity: 16.75 million Btu per hour

Emission Source/Control: IRV04 - Combustion
Design Capacity: 12.56 million Btu per hour

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Emission Source/Control: IRV05 - Combustion
Design Capacity: 12.56 million Btu per hour

Emission Source/Control: IRV06 - Combustion
Design Capacity: 5.3 million Btu per hour

Item 26.5:

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

Emission Unit: 1--LASK
Process: BF2 Source Classification Code: 1-03-005-03
Process Description: Bryan Flexible Tube Boiler firing #2 oil.

Emission Source/Control: LASK1 - Combustion
Design Capacity: 2.4 million Btu per hour

Item 26.6:

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

Emission Unit: 1--LASK
Process: BFG Source Classification Code: 1-03-006-03
Process Description: Bryan Flexible Tube Boiler firing natural gas.

Emission Source/Control: LASK1 - Combustion
Design Capacity: 2.4 million Btu per hour

Item 26.7:

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

Emission Unit: 1--LASK
Process: DD2 Source Classification Code: 2-03-001-01
Process Description: Detroit Diesel 750 KL firing #2 oil.

Emission Source/Control: LASK4 - Combustion
Design Capacity: 8.83 million Btu per hour

Item 26.8:

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

Emission Unit: 1--LASK
Process: YP2 Source Classification Code: 1-03-005-03
Process Description: York Paraflow (Chiller) firing #2 oil.

Emission Source/Control: LASK2 - Combustion
Design Capacity: 6.9 million Btu per hour

Emission Source/Control: LASK3 - Combustion
Design Capacity: 6.9 million Btu per hour

Item 26.9:

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



Emission Unit: 1--LASK
Process: YPG Source Classification Code: 1-03-006-03
Process Description: York Paraflow (chiller) firing natural gas.

Emission Source/Control: LASK2 - Combustion
Design Capacity: 6.9 million Btu per hour

Emission Source/Control: LASK3 - Combustion
Design Capacity: 6.9 million Btu per hour

Item 26.10:

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

Emission Unit: 1-NSR01
Process: 772 Source Classification Code: 2-03-001-01
Process Description:
Emission source 772EP (449 HP Caterpillar 3406 engine)
fires #2 distillate (diesel) fuel oil.

Emission Source/Control: 772EP - Combustion
Design Capacity: 449 horsepower (mechanical)

Item 26.11:

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

Emission Unit: 1-NSR01
Process: BG1 Source Classification Code: 1-03-006-03
Process Description:
Emission source BERR1 (6 MMBtu/hr Cleaver Brooks
1200-600-160 boiler) fires natural gas.

Emission Source/Control: BERR1 - Combustion
Design Capacity: 6 million Btu per hour

Item 26.12:

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

Emission Unit: 1-NSR01
Process: BG2 Source Classification Code: 1-03-006-03
Process Description:
Emission source BERR2 (6 MMBtu/hr Cleaver Brooks
1200-600-160 boiler) fires natural gas.

Emission Source/Control: BERR2 - Combustion
Design Capacity: 6 million Btu per hour

Item 26.13:

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

Emission Unit: 1-NSR01
Process: BG3 Source Classification Code: 1-03-006-03

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Process Description:

Emission source BERR3 (6 MMBtu/hr Cleaver Brooks
1200-600-160 boiler) fires natural gas.

Emission Source/Control: BERR3 - Combustion

Design Capacity: 6 million Btu per hour

Item 26.14:

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

Emission Unit: 1-NSR01

Process: BO1

Source Classification Code: 1-03-005-03

Process Description:

Emission source BERR1 (6 MMBtu/hr Cleaver Brooks
1200-600-160 boiler) fires #2 distillate fuel oil.

Emission Source/Control: BERR1 - Combustion

Design Capacity: 6 million Btu per hour

Item 26.15:

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

Emission Unit: 1-NSR01

Process: BO2

Source Classification Code: 1-03-005-03

Process Description:

Emission source BERR2 (6 MMBtu/hr Cleaver Brooks
1200-600-160 boiler) fires #2 distillate fuel oil.

Emission Source/Control: BERR2 - Combustion

Design Capacity: 6 million Btu per hour

Item 26.16:

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

Emission Unit: 1-NSR01

Process: BO3

Source Classification Code: 1-03-005-03

Process Description:

Emission source BERR3 (6 MMBtu/hr Cleaver Brooks
1200-600-160 boiler) fires #2 distillate fuel oil.

Emission Source/Control: BERR3 - Combustion

Design Capacity: 6 million Btu per hour

Item 26.17:

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

Emission Unit: 1-NSR01

Process: BP1

Source Classification Code: 2-03-001-01

Process Description:

Emission source BBEP1 (1818 HP Caterpillar 3512 engine)
fires #2 distillate (diesel) fuel oil.

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Emission Source/Control: BBEP1 - Combustion
Design Capacity: 1,818 horsepower (mechanical)

Item 26.18:

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

Emission Unit: 1-NSR01
Process: BP2 Source Classification Code: 2-03-001-01
Process Description:
Emission source BBEP2 (1818 HP Caterpillar 3512 engine)
fires #2 distillate (diesel) fuel oil.

Emission Source/Control: BBEP2 - Combustion
Design Capacity: 1,818 horsepower (mechanical)

Item 26.19:

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

Emission Unit: 1-NSR01
Process: DRV Source Classification Code: 2-03-001-01
Process Description:
Emission source IRVEP (200 HP Caterpillar 3516 engine)
fires #2 distillate (diesel) fuel oil.

Emission Source/Control: IRVEP - Combustion
Design Capacity: 2,001 horsepower (mechanical)

Item 26.20:

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

Emission Unit: 1-NSR01
Process: HMP Source Classification Code: 2-03-001-01
Process Description:
Emission source HAMEP (1818 HP Caterpillar 3512 engine)
fires #2 distillate (diesel) fuel oil.

Emission Source/Control: HAMEP - Combustion
Design Capacity: 1,818 horsepower (mechanical)

Item 26.21:

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

Emission Unit: 1-PAS01
Process: GPS Source Classification Code: 3-15-021-01
Process Description:
PAS01: Morse Boulger P200 incinerator rated @ 200
pounds/hr.
PASGS: Unspecified Gas Scrubber Emission Control

Emission Source/Control: PASGS - Control
Control Type: GAS SCRUBBER (GENERAL, NOT CLASSIFIED)

New York State Department of Environmental Conservation

Permit ID: 2-6201-00056/00009

Facility DEC ID: 2620100056



Emission Source/Control: PAS01 - Incinerator
Design Capacity: 200 pounds per hour
Waste Feed Method: AUTOMATIC RAM FEED
Waste Type: CREMATORY WASTE (INCLUDING HUMAN
AND/OR ANIMAL BODY PARTS AND
ASSOCIATED ANIMAL BEDDING) ONLY

Condition 27: Compliance Demonstration
Effective between the dates of 01/21/2015 and 01/20/2025

Applicable State Requirement:6 NYCRR 219-4.3

Item 27.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-PAS01

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

Item 27.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Particulate emissions limit for new and modified crematories and for incineration of associated bedding. The permittee must initially demonstrate compliance with the standards in this Subpart by either (1) onsite testing, or (2) submittal of a test report for an identical incinerator tested in New York and approved by the commissioner.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.08 grains per dry standard cubic foot (corrected to 7% O₂)

Reference Test Method: EPA Ref Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 28: This section describes design requirements for crematories and pathological incinerators.

Effective between the dates of 01/21/2015 and 01/20/2025

Applicable State Requirement:6 NYCRR 219-4.4

Item 28.1:

This Condition applies to Emission Unit: 1-PAS01

Item 28.2:



(a) Furnace design must provide for a residence time for combustion gas of at least one second at no less than 1800F. For a multichamber incinerator, these parameters must be met after the primary combustion chamber and the primary combustion chamber temperature must be maintained at no less than 1400F.

(b) Auxiliary burners must be designed to provide combustion chamber temperatures as described in subdivision (a) of this section by means of automatic modulating controls.

(c) Mechanically fed crematories must incorporate an air lock system to prevent opening the crematory to the room environment. The volume of the loading system must be designed so as to prevent overcharging to assure complete combustion of the charge.

Condition 29: Operating requirements for crematories as outlined in this Subpart.

Effective between the dates of 01/21/2015 and 01/20/2025

Applicable State Requirement:6 NYCRR 219-4.5

Item 29.1:

This Condition applies to Emission Unit: 1-PAS01

Item 29.2:

(a) No person may cause or allow emissions to the outdoor atmosphere having a six minute average opacity of ten percent or greater from any crematory.

(b) No person may operate a crematory facility unless the temperatures described in section 219-4.4 of this Subpart are maintained at all times that waste is being burned.

(c) The department must be notified in writing at least ten days prior to the initial commencement of operation of a crematory.

Condition 30: This section describes other wastes that can and can not be burned in a crematory.

Effective between the dates of 01/21/2015 and 01/20/2025

Applicable State Requirement:6 NYCRR 219-4.6

Item 30.1:

This Condition applies to Emission Unit: 1-PAS01

Item 30.2:

(a) Municipal solid waste may not be burned in a crematory.

(b) Infectious waste (other than pathological waste and animal bedding) in excess of five percent of the total permitted hourly charging rate may not be burned in a crematory.

(c) Radioactive waste may not be burned in a crematory unless that crematory is exempt from or has been issued a permit pursuant to Part 380 of this Title.



(d) Hazardous waste may not be burned in a crematory unless that crematory is exempt from or has been issued a permit pursuant to Part 373 of this Title.

Condition 31: Stack Testing requirements
Effective between the dates of 01/21/2015 and 01/20/2025

Applicable State Requirement: 6 NYCRR 219-4.8

Item 31.1:

This Condition applies to Emission Unit: 1-PAS01

Item 31.2:

(a) Each incinerator to be installed in a crematory facility must demonstrate compliance by either (1) onsite testing, or (2) submittal of a test report for an identical incinerator tested in New York and approved by the commissioner.

(b) A test protocol, including the configuration of breaching, stack and test port locations and test methods must be submitted for the commissioner's approval at least 30 days prior to stack testing.

(c) Witnessing of all stack tests by the commissioner's representative is required. Results of any stack test done in the absence of an approved protocol, or which is not witnessed, will not be accepted.

(d) Three copies of the stack test report must be submitted by the permittee to the commissioner within 60 days after completion of the tests, in accordance with Part 202.

