

Facility DEC ID: 9140200680

PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 9-1402-00680/00030
Effective Date:

Expiration Date:

Permit Issued To: STATE UNIVERSITY OF NEW YORK
STATE UNIVERSITY PLAZA
381 BROADWAY
ALBANY, NY 12246

Facility: SUNY AT BUFFALO - SOUTH CAMPUS
3435 MAIN ST
Buffalo, NY 14214

Contact: BRIAN FOTI
SUNY BUFFALO ENV HEALTH & SAFETY
220 WINSPEAR AVE
BUFFALO, NY 14215
(716) 829-3301

Description:

The facility is a State University of New York that operates four (4) boilers along with one (1) animal and one (1) human cremation unit. Processes pertinent to air emissions permitting include three (3) dual-fired boilers, one (1) natural gas-fired boiler, two (2) natural gas-fired cremation units, and seventeen (17) emergency generators. This is Air State Facility (ASF) permit, renewal 2, for the continued operation of the four boilers and two cremation units. This ASF permit replaces the facility's existing permit, issued on March 18, 2015, and incorporates the following:

- 1) New rule applicability for animal cremation unit, which is now subject to 6 NYCRR Subpart 219-4 – Human and Animal Crematories. Previously, the animal cremation unit was subject to 6 NYCRR Subpart 219-5 – Existing Incinerators, however, this subpart was repealed during the revisions to 6 NYCRR Part 219 – Incinerators promulgated in March 2020.
- 2) Applicable requirements per 6 NYCRR Subpart 227-1 – Stationary Combustion Installation for facility boilers.

The permit includes conditions limiting emissions of oxides of nitrogen (NO_x) and carbon monoxide (CO) to below Air Title V thresholds. The facility is required to track NO_x and CO emissions monthly from fuel usage and submit an annual capping certification.

The facility operates two (2) emission units and is subject to 40 CFR 60 Subpart Dc New Source Performance Standard Small Industrial, Commercial, Institutional Steam

Facility DEC ID: 9140200680

Generating Units, 6 NYCRR Subpart 219-4, 6 NYCRR Subpart 225-1 – Fuel Composition and Use -- Sulfur Limitations, and Subpart 227-1, as described below:

E-00001: This emission unit consists of four (4) boilers. Within the Mackay Power Plant there are three (3) low NO_x dual-fired boilers; defined as emission sources ES0001 to ES0003, rated at 72.6 million Btu/hr. These boilers were manufactured in 2003 and supply steam for heat, humidity, autoclaves, cage washers and pure water systems throughout the South Campus. There is one (1) additional natural gas boiler within Farber Hall; defined as emission source ES0004, rated at 25 million btu/hr. This boiler was installed in 1997 and supplies steam for the Cary, Farber, Sherman, Biomedical Research and Biomedical Education buildings. All boilers in operation at the facility are subject to 40 CFR 60 Subpart Dc, the opacity limit and annual tune-up requirements of Subpart 227-1, and the three (3) dual-fired boilers are also subject to the sulfur limitation for fuel within Subpart 225-1. The (3) dual-fired boilers are not subject to the particulate limit per Subpart 227-1.3 as 40 CFR 60 Subpart Dc sets a more stringent limit for distillate oil fired boilers.

I-00002: This emission unit consists of two (2) cremation units, one (1) human and one (1) animal. Both cremation units operate with two combustion chambers powered by natural gas burners. The primary combustion chamber performs the cremation process, while the secondary combustion chamber controls emissions from the cremation process via combustion. The two (2) cremation units are subject to Subpart 219-4 and are as follows:

The first is a B&L model N20 (B&L N20), defined as emission source ES0005. The unit cremates human remains and associated containers and was installed in March 2006 within the Biomedical Education Building. This unit has a maximum feed rate of 150 pounds per hour and emits to emission point 00002.

The second is a Consumat C125P (C125P), defined as emission source ES0006. The unit cremates animals and incidental animal bedding from the lab animal facilities (LAF) and was installed in June 1985 within the Biomedical Research Building. This unit has a maximum feed rate of 350 pounds per hour and emits to emission point 00003.

ES0005 and ES0006 were installed before the revisions to Subpart 219-4 promulgated on March 14, 2020, therefore they are considered “existing cremation units” and must limit particulate matter (PM) emissions to 0.08 grains per dry standard cubic foot, corrected to 7% oxygen per Subpart 219-4.3(a). The facility submitted and showed compliance with this limit for the B&L N20 cremation unit by submitting a representative stack test per Subpart 219-4.5. For the C125P cremation unit it was required by NYSDEC that the facility conduct a stack test to show compliance with this limit, completed on May 29, 2025.

No cremation units at this facility are authorized to combust materials other than human and animal remains, their associated containers, pathological waste, and incidental animal bedding, unless prior written authorization has been obtained from the NYSDEC per Subpart 219-4.4(e).

Facility DEC ID: 9140200680

The facility also operates diesel-fired emergency generators and cold cleaning degreasers (i.e. parts washers), all of which meet permitting exemptions under 6 NYCRR Subpart 201-3, but must still follow applicable regulations. Facility-operated emergency generators, seventeen (17) in total, shall comply with the applicable parts of 40 CFR 63 Subpart ZZZZ and 40 CFR 60 Subpart IIII. Cold cleaning degreasers on site shall comply with the applicable parts of Subpart 226-1 – Solvent Cleaning Processes including the maximum volatile organic compounds content of the cleaning solution per Subpart 226-1.4(a)(4).

Non-applicability: The Mackay power plant boilers are not subject to 40 CFR 63 Subpart JJJJJ – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources. The facility's fuel usage records confirm that fuel oil combustion in its boiler systems have not exceeded 48 hours during a calendar year and therefore meet the definition of a gas-fired boiler per §63.11237 and are exempt. If fuel oil combustion in the boiler system exceeds 48 hours during a calendar year the facility shall submit a permit modification.

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: MATTHEW J SMITH
NYSDEC
700 DELAWARE AVE
BUFFALO, NY 14209

Authorized Signature: _____ Date: ____ / ____ / ____

Facility DEC ID: 9140200680

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.

Facility DEC ID: 9140200680

PAGE LOCATION OF CONDITIONS

PAGE

DEC GENERAL CONDITIONS

General Provisions

- | | | |
|---|---|---|
| 6 | 1 | Facility Inspection by the Department |
| 6 | 2 | Relationship of this Permit to Other Department Orders and Determinations |
| 6 | 3 | Applications for permit renewals, modifications and transfers |
| 7 | 4 | Permit modifications, suspensions or revocations by the Department |

Facility Level

- | | | |
|---|---|--|
| 7 | 5 | Submission of application for permit modification or renewal-REGION 9 HEADQUARTERS |
|---|---|--|

Facility DEC ID: 9140200680

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 the expiration of permits for Title V and State Facility Permits.

Item 3.3

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

Facility DEC ID: 9140200680

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 9

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 9 Headquarters
Division of Environmental Permits
700 Delaware Ave.,
Buffalo, NY 14209
(716) 851-7130

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: STATE UNIVERSITY OF NEW YORK
STATE UNIVERSITY PLAZA
381 BROADWAY
ALBANY, NY 12246

Facility: SUNY AT BUFFALO - SOUTH CAMPUS
3435 MAIN ST
Buffalo, NY 14214

Authorized Activity By Standard Industrial Classification Code:
8221 - COLLEGES AND UNIVERSITIES, NEC

Permit Effective Date:

Permit Expiration Date:

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

PAGE LOCATION OF CONDITIONS

PAGE

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

7	1 6 NYCRR 201-7.1: Facility Permissible Emissions
7	*2 6 NYCRR 201-7.1: Capping Monitoring Condition
10	*3 6 NYCRR 201-7.1: Capping Monitoring Condition
12	4 6 NYCRR 211.2: Visible Emissions Limited
12	5 6 NYCRR 225-1.2 (d): Compliance Demonstration
14	6 6 NYCRR 227-1.3 (c): Compliance Demonstration
14	7 6 NYCRR 227-1.4 (a): Compliance Demonstration
16	8 40CFR 60.42c(h), NSPS Subpart Dc: Exemption from the averaging period
16	9 40CFR 60.42c(i), NSPS Subpart Dc: Enforceability
17	10 40CFR 60.45c(a), NSPS Subpart Dc: Compliance Demonstration
17	11 40CFR 60.46c(e), NSPS Subpart Dc: Exemption from sulfur dioxide monitoring requirements
18	12 40CFR 60.47c(a), NSPS Subpart Dc: Compliance Demonstration
20	13 40CFR 60.47c(f), NSPS Subpart Dc: Compliance Demonstration
21	14 40CFR 60.48c(a), NSPS Subpart Dc: Compliance Demonstration
22	15 40CFR 60.48c(b), NSPS Subpart Dc: Compliance Demonstration
22	16 40CFR 60.48c(c), NSPS Subpart Dc: Compliance Demonstration
24	17 40CFR 60.48c(e), NSPS Subpart Dc: Compliance Demonstration
25	18 40CFR 60.48c(g), NSPS Subpart Dc: Compliance Demonstration
25	19 40CFR 60, NSPS Subpart IIII: Applicability
26	20 40CFR 63, Subpart ZZZZ: Applicability

Emission Unit Level

EU=E-00001,Proc=001

26	21 40CFR 60.43c(d), NSPS Subpart Dc: Enforceability of particulate matter and opacity standards
----	---

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

28	22 ECL 19-0301: Contaminant List
29	23 6 NYCRR 201-1.4: Malfunctions and Start-up/Shutdown Activities
29	24 6 NYCRR Subpart 201-5: Emission Unit Definition
30	25 6 NYCRR 201-5.2 (c): Renewal deadlines for state facility permits
31	26 6 NYCRR 201-5.3 (c): Compliance Demonstration
31	27 6 NYCRR 211.1: Air pollution prohibited
31	28 6 NYCRR 219-4.3 (a): Compliance Demonstration
32	29 6 NYCRR 219-4.4 (a): Compliance Demonstration
33	30 6 NYCRR 219-4.4 (b): Compliance Demonstration
35	31 6 NYCRR 219-4.4 (d): Operating Requirements - Allowed Materials
35	32 6 NYCRR 219-4.4 (e): Compliance Demonstration
36	33 6 NYCRR 219-4.5: Compliance Demonstration
37	34 6 NYCRR 219-4.6 (a): Operator Training and Certification
37	35 6 NYCRR 219-4.7 (a): Compliance Demonstration
37	36 6 NYCRR 219-4.8 (a): Compliance Demonstration
38	37 6 NYCRR 219-4.8 (b): Compliance Demonstration

Emission Unit Level

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

- 39 38 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
40 39 6 NYCRR Subpart 201-5: Process Definition By Emission Unit

EU=I-00002,EP=00002,Proc=P02,ES=ES005

- 41 40 6 NYCRR 219-4.4 (f): Compliance Demonstration

EU=I-00002,EP=00003,Proc=P02,ES=ES006

- 42 41 6 NYCRR 219-4.4 (f): Compliance Demonstration

NOTE: * preceding the condition number indicates capping.

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

FEDERALLY ENFORCEABLE CONDITIONS

Renewal 2/DRAFT

**** 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,

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

required to operate such device effectively.

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

(a) Except as otherwise provided by this Part, construction or operation of a new, modified or existing air contamination source without a registration or permit issued pursuant to this Part is prohibited.

(b) If an existing facility or emission source was subject to the permitting requirements of this Part at the time of construction or modification, and the owner or operator failed to apply for a permit or registration as described in this Part, the owner or operator must apply for a permit or registration in accordance with the provisions of this Part. The facility or emission source is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing emission sources.

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

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

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 I: 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 J: 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 K: Permit Exclusion - ECL 19-0305

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

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

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

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: Facility Permissible Emissions
Effective for entire length of Permit****Applicable Federal Requirement: 6 NYCRR 201-7.1****Item 1.1:**

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: 000630-08-0
Name: CARBON MONOXIDE

PTE: 180,000 pounds per year

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

PTE: 180,000 pounds per year

**Condition 2: Capping Monitoring Condition
Effective for entire length of Permit****Applicable Federal Requirement: 6 NYCRR 201-7.1****Item 2.1:**

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 201-6.1

Item 2.2:

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

Item 2.3:

The owner or operator of the permitted facility must maintain all required records on-site for a

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

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 2.4:

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 2.5:

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 2.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 2.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

(1) Facility-wide emissions of carbon monoxide (CO) shall not equal or exceed 180,000 pounds per year (lbs/yr). The facility has accepted these emission limitations, below the major source threshold of 200,000 lbs/yr, to avoid Title V applicability.

(2) Operation of the three (3) dual-fired Mackay Power Plant boilers account for almost all the facility's CO emissions. These boilers are capable of combusting natural gas and No. 2 fuel oil and account for approximately 97% of facility wide actual CO emissions. The remaining CO emissions from the facility typically equate to less than 3% from the Farber Hall boiler, two (2) cremation units, and emergency generator usage.

(3) Since the majority of CO emissions are emitted from the Mackay Power Plant boilers, the CO emissions from the combustion of natural gas and No. 2 fuel oil in the Mackay Power Plant boilers shall be monitored on a monthly basis. The total facility CO emissions shall be certified annually. If the 12-month rolling CO emissions from the

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

combustion of fuels within the Mackay Power Plant boilers are greater than 150,000 lbs/yr, then CO emissions from all CO sources, including exempt and trivial sources, shall immediately be inventoried and tracked on a 12-month rolling basis.

(4) On-going compliance monitoring of the CO emissions shall be documented as follows:

(a) Monthly CO emission calculations shall be completed by utilizing monthly fuel usage, natural gas and No. 2 fuel oil. The CO emissions for each month must be added to the previous 11 months to generate the 12-month rolling total CO emissions for each month.

(b) An annual emission calculation shall be completed to demonstrate the facility total CO emissions do not equal or exceed 180,000 lbs/yr.

(c) The following or similar information shall be maintained to demonstrate the emission calculations are verifiable and enforceable:

(i) a spreadsheet documenting fuel usage within all boilers at the facility; emergency generator hourly runtimes per month; the monthly CO emission estimate from fuel combustion; and the 12-month rolling total CO emission estimate from fuel combustion.

(ii) all purchase orders, invoices, and other documents to support information in the compliance demonstration.

(5) An exceedance of the 180,000 lbs/yr total CO emission limit or failure to fulfill the recordkeeping and reporting requirements constitutes a violation and shall be reported immediately upon discovery.

(6) The facility must maintain all required records on-site for a period of five years and make them available to NYSDEC representatives upon request.

(7) On an annual basis, the facility shall submit to the Regional Air Pollution Control Engineer an Annual Capping Certification for the previous calendar year by January 30th of each year. The report must include the monthly CO emissions and total CO emissions for each rolling 12-month period throughout the calendar year. The report must be signed and certified by the facility's responsible official as to the truth, completeness, and accuracy of all the submitted information.

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

Parameter Monitored: CARBON MONOXIDE
Upper Permit Limit: 90 tons per year
Monitoring Frequency: MONTHLY
Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 12 calendar month(s).

Condition 3: Capping Monitoring Condition
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 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 201-6.1
6 NYCRR 227-2.1

Item 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:

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 3.4:

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 3.5:

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 3.6:

The Compliance Demonstration activity will be performed for the Facility.

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

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

Item 3.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

(1) Facility-wide emissions of oxides of nitrogen (NO_x) shall not equal or exceed 180,000 pounds per year (lbs/yr). The facility has accepted these emission limitations, below the major source threshold of 200,000 lbs/yr, to avoid Title V applicability.

(2) Operation of the three (3) dual-fired Mackay Power Plant boilers account for almost all the facility's NO_x emissions. These boilers are capable of combusting natural gas and No. 2 fuel oil and account for approximately 96% of facility wide actual NO_x emissions. The remaining NO_x emissions from the facility typically equate to less than 4% from the Farber Hall boiler, two (2) cremation units, and emergency generator usage.

(3) Since the majority of NO_x emissions are emitted from the Mackay Power Plant boilers, the NO_x emissions from the combustion of natural gas and No. 2 fuel oil in the Mackay Power Plant boilers shall be monitored on a monthly basis. The total facility NO_x emissions shall be certified annually. If the 12-month rolling NO_x emissions from the combustion of fuels within the Mackay Power Plant boilers are greater than 150,000 lbs/yr, then NO_x emissions from all NO_x sources, including exempt and trivial sources, shall immediately be inventoried and tracked on a 12-month rolling basis.

(4) On-going compliance monitoring of the NO_x emissions shall be documented as follows:

(a) Monthly NO_x emission calculations shall be completed by utilizing monthly fuel usage, natural gas and No. 2 fuel oil. The NO_x emissions for each month must be added to the previous 11 months to generate the 12-month rolling total NO_x emissions for each month.

(b) An annual emission calculation shall be completed to demonstrate the facility total NO_x emissions do not equal or exceed 180,000 lbs/yr.

(c) The following or similar information shall be maintained to demonstrate the emission calculations are verifiable and enforceable:

(i) a spreadsheet documenting fuel usage within all

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

boilers at the facility; emergency generator hourly runtimes per month; the monthly NO_x emission estimate from fuel combustion; and the 12-month rolling total NO_x emission estimate from fuel combustion.

(ii) all purchase orders, invoices, and other documents to support information in the compliance demonstration.

(5) An exceedance of the 180,000 lbs/yr total NO_x emission limit or failure to fulfill the recordkeeping and reporting requirements constitutes a violation and shall be reported immediately upon discovery.

(6) The facility must maintain all required records on-site for a period of five years and make them available to NYSDEC representatives upon request.

(7) On an annual basis, the facility shall submit to the Regional Air Pollution Control Engineer an Annual Capping Certification for the previous calendar year by January 30th of each year. The report must include the monthly NO_x emissions and total NO_x emissions for each rolling 12-month period throughout the calendar year. The report must be signed and certified by the facility's responsible official as to the truth, completeness, and accuracy of all the submitted information.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 90 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 4: Visible Emissions Limited
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 211.2

Item 4.1:

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 5: Compliance Demonstration
Effective for entire length of Permit

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

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

Item 5.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 5.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners or operators of emission sources that fire distillate oil is limited to a 0.0015 percent sulfur content by weight of the fuel. Compliance with the sulfur-in-fuel limitation is based on fuel supplier certifications. All fuel supplier certifications shall be reported to NYSDEC on a semi-annual basis and maintained on-site (physical or electronic) for at least 5 years and include the following information:

- i) The name of the oil supplier, and
- ii) A statement from the supplier that the oil complies with the specifications of distillate oil (i.e., American Society of Testing and Materials [ASTM] grade numbers 1 and 2 fuel oil, ASTM grade numbers 1-D and 2-D diesel fuel oil), and
- iii) The sulfur content or maximum sulfur content of the oil.

Boilers subject to 40 CFR 60 Subpart Dc New Source Performance Standards (NSPS) for Small Industrial-Commercial-Institutional Steam Generating Units that fire distillate oil at or below the specified sulfur fuel content are in compliance with the sulfur fuel content requirements per §40.42c(d). Distillate oil fuel supplier certifications that contain the above information are in compliance with the content requirements per §40.48c(f)(1).

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: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

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

Condition 6: Compliance Demonstration
Effective for entire length of Permit

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

Item 6.1:

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

Emission Unit: E-00001

Item 6.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a stationary combustion installation must perform an annual tune-up on each emission source subject to 6 NYCRR Subpart 227-1. Records of the tune-up shall be maintained at the facility or at a Department approved alternative location for a minimum of five years. The records shall, at a minimum, include the date the tune-up(s) occurred and the details of the tune-up procedures for each emission source.

Monitoring Frequency: ANNUALLY

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 7: Compliance Demonstration
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 227-1.4 (a)

Item 7.1:

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

Emission Unit: E-00001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 7.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

No owner or operator of a stationary combustion installation shall emit greater than 20 percent opacity

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

(on a six-minute block period) except for one six-minute block period per hour, not to exceed 27 percent, based upon the six-minute average in reference test method 9 in Appendix A of 40 CFR 60. NYSDEC reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

Operators of stationary combustion installations, that are not exempt from permitting requirements and where a continuous opacity monitor is not utilized for measuring smoke emissions, shall be required to perform visible emission observations once daily when firing distillate oil and once monthly when firing natural gas. Visual emission observations shall be conducted during daylight hours and recorded in a bound logbook or an equivalent method, including electronic media. These records shall include the date, time, observer's name, weather conditions and a description of the observations (steam, visible emissions, etc.). Inclement weather conditions shall be recorded for those days when observations are prohibited. These records shall be kept on-site for a period of 5 years from the date of the last entry and be readily available to NYSDEC representative upon request.

If the operator observes any visible emissions (other than steam) two consecutive days, then the Method 9 analysis (based upon a 6-minute mean) of the affected emission point(s) must be conducted within two (2) business days of such occurrence. The firing of other fuels in between days of firing distillate oil does not count as an interruption in the consecutive days. EPA Visible Emission Observation Form 1 must be completed in accordance with USEPA Method 9 and the results of the Method 9 analysis recorded in the logbook. The operator must contact the Regional Air Pollution Control Engineer within one (1) business day of performing the Method 9 analysis if the opacity standard is contravened. Upon notification, any corrective actions or future compliance schedules shall be presented to NYSDEC for acceptance.

**** NOTE **** Steam plumes generally form after leaving the top of the stack (this is known as a detached plume). The distance between the stack and the beginning of the detached plume may vary, however, there is (normally) a distinctive distance between the plume and stack. Steam plumes are white in color and have a billowy consistency. Steam plumes dissipate within a short distance of the stack (the colder the air the longer the steam plume will last) and leave no dispersion trail downwind of the stack.

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

At all times stationary combustion installations shall be operated and maintained according to manufacturer's specifications to ensure proper performance and compliance with the regulatory limit for opacity. Facility records, including those demonstrating hours of operation, fuel usage, monitoring, stack testing, corrective actions taken, manufacturer's maintenance requirements and procedures and maintenance performed for these sources, shall be maintained on-site for five years and be readily available to NYSDEC representatives upon request.

Boilers that fire distillate oil, have a rated heat input capacity greater than 30 MMBtu/hr, and are subject to 40 CFR 60 Subpart Dc NSPS for Small Industrial-Commercial-Institutional Steam Generating Units shall be monitored as specified above to be in compliance with the opacity monitoring requirements per §60.43c(c).

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: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 8: Exemption from the averaging period
Effective for entire length of Permit

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

Item 8.1:

This Condition applies to:

Emission Unit: E00001

Process: 001

Item 8.2:

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

Condition 9: Enforceability
Effective for entire length of Permit

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

Item 9.1:

This Condition applies to:

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

Emission Unit: E00001
Process: 001

Item 9.2:

The sulfur dioxide emission limits, percentage reductions, and fuel oil sulfur limitations shall apply at all times, including periods of startup, shutdown, and malfunction.

**Condition 10: Compliance Demonstration
Effective for entire length of Permit**

Applicable Federal Requirement: 40 CFR 60.45c(a), NSPS Subpart Dc

Item 10.1:

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

Emission Unit: E-00001
Process: 001

Item 10.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The owner or operator of a boiler subject to the particulate matter and/or opacity standards of 40 CFR 60 NSPS Subpart Dc per §60.43c shall conduct an initial performance test as required under §60.8. Subsequent performance tests shall be conducted as required by NYSDEC to determine compliance with these standards using the reference methods below:

8) Method 9 of appendix A-4 of this part shall be used for determining the opacity of stack emissions.

The facility conducted an initial performance test on January 18, 2005, overall average opacity for three 1-hour runs was 1.8 percent with the three (3) distillate oil fired boilers operating utilizing Number 2 fuel oil and emitting to a singular emission point.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 11: Exemption from sulfur dioxide monitoring requirements
Effective for entire length of Permit**

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

Applicable Federal Requirement: 40CFR 60.46c(e), NSPS Subpart Dc

Item 11.1:

This Condition applies to:

Emission Unit: E00001
Process: 001

Item 11.2:

Facilities subject to paragraphs 40 CFR 60-Dc.42c(h)(1), (2), or (3) showing compliance through vendor certification shall be exempt from section 40 CFR 60-Dc.46c.

**Condition 12: Compliance Demonstration
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 60.47c(a), NSPS Subpart Dc

Item 12.1:

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

Emission Unit: E-00001
Process: 001

Item 12.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

INITIAL OPACITY TESTING REQUIREMENTS:

The owner or operator of an oil-fired boiler affected subject to an opacity standard in §60.43c(c) and that has elected to not use a continuous opacity monitoring system (COMS) shall conduct an initial performance test using Method 9 of appendix A-4 of this part per §60.45c(a).

SUBSEQUENT OPACITY TESTING REQUIREMENTS:

The owner or operator of an oil-fired boiler shall comply with the requirement for subsequent testing, when firing distillate oil, in accordance with either paragraphs (a)(1), (a)(2), or (a)(3) of this section.

(a)(1) Except as provided in paragraph (a)(2) and (a)(3) of this section, the owner or operator shall conduct subsequent Method 9 of appendix A-4 of this part performance tests using the procedures in paragraph (a) of this section according to the applicable schedule in paragraphs (a)(1)(i) through (a)(1)(iv) of this section, as determined by the most recent Method 9 of appendix A-4

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

of this part performance test results.

(i) If no visible emissions are observed, a subsequent Method 9 of appendix A-4 of this part performance test must be completed within 12 calendar months from the date that the most recent performance test was conducted or within 45 days of the next day that fuel with an opacity standard is combusted, whichever is later;

(ii) If visible emissions are observed but the maximum 6-minute average opacity is less than or equal to 5 percent, a subsequent Method 9 of appendix A-4 of this part performance test must be completed within 6 calendar months from the date that the most recent performance test was conducted or within 45 days of the next day that fuel with an opacity standard is combusted, whichever is later;

(iii) If the maximum 6-minute average opacity is greater than 5 percent but less than or equal to 10 percent, a subsequent Method 9 of appendix A-4 of this part performance test must be completed within 3 calendar months from the date that the most recent performance test was conducted or within 45 days of the next day that fuel with an opacity standard is combusted, whichever is later; or

(iv) If the maximum 6-minute average opacity is greater than 10 percent, a subsequent Method 9 of appendix A-4 of this part performance test must be completed within 45 calendar days from the date that the most recent performance test was conducted.

(a)(2) If the maximum 6-minute opacity is less than 10 percent during the most recent Method 9 of appendix A-4 of this part performance test, the owner or operator may, as an alternative to performing subsequent Method 9 of appendix A-4 of this part performance tests, elect to perform subsequent monitoring using Method 22 of appendix A-7 of this part according to the procedures specified in paragraphs (a)(2)(i) and (ii) of this section.

(i) The owner or operator shall conduct 10-minute observations (during normal operation) each operating day the affected facility fires fuel for which an opacity standard is applicable using Method 22 of appendix A-7 of this part and demonstrate that the sum of the occurrences of any visible emissions is not in excess of 5 percent of the observation period (i.e., 30 seconds per 10 minute period). If the sum of the occurrence of any visible emissions is greater than 30 seconds during the initial 10-minute observation, immediately conduct a 30-minute observation. If the sum of the occurrence of visible

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

emissions is greater than 5 percent of the observation period (i.e., 90 seconds per 30-minute period), the owner or operator shall either document and adjust the operation of the facility and demonstrate within 24 hours that the sum of the occurrence of visible emissions is equal to or less than 5 percent during a 30 minute observation (i.e., 90 seconds) or conduct a new Method 9 of appendix A-4 of this part performance test using the procedures in paragraph (a) of this section within 45 calendar days according to the requirements in §60.45c(a)(8).

(ii) If no visible emissions are observed for 10 operating days during which an opacity standard is applicable, observations can be reduced to once every 7 operating days during which an opacity standard is applicable. If any visible emissions are observed, daily observations shall be resumed.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9 and/or 22

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTIONAveraging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 13: Compliance Demonstration
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.47c(f), NSPS Subpart Dc

Item 13.1:

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

Emission Unit: E-00001

Process: 001

Item 13.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

An owner or operator of an affected facility that is subject to an opacity standard in §60.43c(c) is not required to operate a continuous opacity monitoring system (COMS) provided that the affected facility meets the conditions in either paragraphs (f)(1), (2), or (3) of this section.

3) An affected facility that burns only gaseous fuels or

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

fuel oils that contain less than or equal to 0.5 weight percent sulfur and operates according to a written site-specific monitoring plan approved by the appropriate delegated permitting authority is not required to operate a COMS for measuring opacity. This monitoring plan must include procedures and criteria for establishing and monitoring specific parameters for the affected facility indicative of compliance with the opacity standard.

For testing performed as part of this site-specific monitoring plan, NYSDEC may require as an alternative to the notification and reporting requirements specified in §60.8 and §60.11 that the owner or operator submit any deviations with the excess emissions report required under §60.48c(c).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 14: Compliance Demonstration
Effective for entire length of Permit

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

Item 14.1:

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

Emission Unit: E-00001

Item 14.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner and operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup, as provided by 40 CFR 60.7 of this part. This notification shall include:

- (1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.
- (2) If applicable, a copy of any Federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under 40 CFR 60.42c., or 40 CFR 60.43c.
- (3) The annual capacity factor at which the owner or

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.

Monitoring Frequency: SINGLE OCCURRENCE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 15: Compliance Demonstration
Effective for entire length of Permit

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

Item 15.1:

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

Emission Unit: E-00001

Process: 001

Item 15.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a boiler subject to the sulfur dioxide (SO₂) emission limits, or the particulate matter and/or opacity limits of 40 CFR 60 NSPS Subpart Dc per §60.42c and §60.43c, respectively, shall submit performance test data from the initial and any subsequent performance tests to NYSDEC 60 days after its completion. A complete protocol must be submitted to NYSDEC for approval 30 days in advance of any testing being conducted.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 16: Compliance Demonstration
Effective for entire length of Permit

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

Item 16.1:

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

Emission Unit: E-00001

Process: 001

Item 16.2:

Compliance Demonstration shall include the following monitoring:

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a coal-fired, oil-fired, or wood-fired boiler subject to the opacity limits of 40 CFR 60 NSPS Subpart Dc per §60.43c(c) shall submit semi-annual excess emission reports for any excess emissions from the affected facility that occur during the reporting period. The affected facility shall maintain records according to the requirements specified in paragraphs (c)(1) through (3) of this section, as applicable to the visible emissions monitoring method used.

(1) For each performance test conducted using Method 9 of appendix A-4 of this part, the owner or operator shall keep the records including the information specified in paragraphs (c)(1)(i) through (iii) of this section.

(i) Dates and time intervals of all opacity observation periods;

(ii) Name, affiliation, and copy of current visible emission reading certification for each visible emission observer participating in the performance test; and

(iii) Copies of all visible emission observer opacity field data sheets;

(2) For each performance test conducted using Method 22 of appendix A-4 of this part, the owner or operator shall keep the records including the information specified in paragraphs (c)(2)(i) through (iv) of this section.

(i) Dates and time intervals of all visible emissions observation periods;

(ii) Name and affiliation for each visible emission observer participating in the performance test;

(iii) Copies of all visible emission observer opacity field data sheets; and

(iv) Documentation of any adjustments made and the time the adjustments were completed to the affected facility operation by the owner or operator to demonstrate compliance with the applicable monitoring requirements.

(3) For each digital opacity compliance system, the owner or operator shall maintain records and submit reports

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

according to the requirements specified in the
site-specific monitoring plan approved by the
Administrator.

Monitoring Frequency: When firing distillate fuel oil

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 17: Compliance Demonstration
Effective for entire length of Permit

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

Item 17.1:

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

Emission Unit: E-00001

Process: 001

Item 17.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a boiler subject to the sulfur dioxide (SO₂) emission limits, fuel oil sulfur limits, or percent reduction requirements of 40 CFR 60 NSPS Subpart Dc per §60.43c shall submit semi-annual reports as required under paragraph (d) of this section that contain the following:

1) Calendar dates covered in the reporting period,
and

11) If fuel supplier certifications are used to demonstrate compliance, records of the fuel supplier certifications on a per delivery basis as described under paragraph (f)(1)-(4) of this section, as applicable. In addition to records of fuel supplier certifications, the report shall include the fuel oil delivery dates, quantity of fuel oil delivered, the quantity of fuel oil combusted in each affected boiler and a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.

Monitoring Frequency: PER DELIVERY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

Condition 18: Compliance Demonstration
Effective for entire length of Permit

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

Item 18.1:

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

Emission Unit: E-00001

Item 18.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(1) Except as provided under paragraphs (g)(2) and (g)(3) of this section, the owner or operator of each affected facility shall record and maintain records of the amount of each fuel combusted during each operating day.

(2) As an alternative to meeting the requirements of paragraph (g)(1) of this section, the owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in §60.48c(f) to demonstrate compliance with the SO₂ standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month.

(3) As an alternative to meeting the requirements of paragraph (g)(1) of this section, the owner or operator of an affected facility or multiple affected facilities located on a contiguous property unit where the only fuels combusted in any steam generating unit (including steam generating units not subject to this subpart) at that property are natural gas, wood, distillate oil meeting the most current requirements in §60.42C to use fuel certification to demonstrate compliance with the SO₂ standard, and/or fuels, excluding coal and residual oil, not subject to an emissions standard (excluding opacity) may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 19: Applicability
Effective for entire length of Permit

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

Applicable Federal Requirement:40CFR 60, NSPS Subpart IIII

Item 19.1:

Facilities that have stationary compression ignition internal combustion engines must comply with applicable portions of 40 CFR 60 Subpart IIII.

Condition 20: Applicability
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 63, Subpart ZZZZ

Item 20.1:

Facilities that have reciprocating internal combustion engines must comply with applicable portions of 40 CFR 63 Subpart ZZZZ.

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

Condition 21: Enforceability of particulate matter and opacity standards
Effective for entire length of Permit

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

Item 21.1:

This Condition applies to Emission Unit: E-00001
Process: 001

Item 21.2:

The particulate matter and opacity standards of section 40 CFR 60-Dc.43c apply at all times, except during periods of startup, shutdown, and malfunction.

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

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 in 6 NYCRR 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 demonstrate, 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 facility was being properly operated and maintained;

(3) during the period of the emergency the facility owner or operator took all reasonable steps to minimize the 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 any 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 malfunction 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

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

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 22: Contaminant List
Effective for entire length of Permit

Applicable State Requirement:ECL 19-0301

Item 22.1:

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

CAS No: 000630-08-0
Name: CARBON MONOXIDE

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

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

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

Condition 23: Malfunctions and Start-up/Shutdown Activities
Effective for entire length of Permit

Applicable State Requirement: 6 NYCRR 201-1.4

Item 23.1:

(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 maintenance and start-up/shutdown activities when they are expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when required by a permit condition or upon request by the department. Such reports shall state whether an exceedance occurred and if it was unavoidable, include the time, frequency and duration of the exceedance, 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 monitoring and quarterly reporting requirements need not submit additional reports of exceedances to the department.

(c) In the event that air contaminant emissions exceed any applicable emission standard due to a malfunction, the facility owner or operator shall 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. In addition, the facility owner or operator shall compile and maintain a record of all malfunctions. Such records shall be maintained at the facility for a period of at least five years and must be made available to the department upon request. 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, the air contaminants emitted, and the resulting emission rates and/or opacity.

(d) The department may also require the facility 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 24: Emission Unit Definition
Effective for entire length of Permit

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 24.1:

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

Emission Unit: E-00001

Emission Unit Description:

This emission unit consists of two boiler rooms containing four (4) boilers as follows:

Mackay Power Plant - Three (3) low NO_x dual-fired boilers; defined as emission sources ES0001 to ES0003, rated at 72.6 million Btu/hr. These boilers were manufactured in 2003 and supply steam for heat, humidity, autoclaves, cage washers and pure water systems throughout the South Campus.

Farber Hall - One (1) natural gas boiler; defined as emission source ES0004, rated at 25 million btu/hr. This boiler was installed in 1997 and supplies steam for the Cary, Farber, Sherman, Biomedical Research and Biomedical Education buildings.

Building(s): FARBER
MACKAY

Item 24.2:

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

Emission Unit: I-00002

Emission Unit Description:

This emission unit consists of two (2) cremation units as follows:

ES0005: B&L model N20 (B&L N20) cremation unit for human remains and associated containers. The unit and was installed in March 2006 within the Biomedical Education Building. This unit has a maximum feed rate of 150 pounds per hour and emits to emission point 00002.

ES0006: Consumat C125P (C125P) cremation unit for animals and incidental animal bedding from the lab animal facilities (LAF). The unit was installed in June 1985 within the Biomedical Research Building. This unit has a maximum feed rate of 350 pounds per hour and emits to emission point 00003.

Building(s): BIOMED EDU
BIOMED RES

**Condition 25: Renewal deadlines for state facility permits
Effective for entire length of Permit**

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

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

Item 25.1:

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 26: Compliance Demonstration
Effective for entire length of Permit

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

Item 26.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 26.2:

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 9
700 Delaware Ave.,
Buffalo, N.Y. 14209

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 27: Air pollution prohibited
Effective for entire length of Permit

Applicable State Requirement:6 NYCRR 211.1

Item 27.1:

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 28: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement:6 NYCRR 219-4.3 (a)

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

Item 28.1:

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

Emission Unit: I-00002

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

Item 28.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

No person may cause or allow emissions of particulates into the outdoor atmosphere from an existing cremation unit in excess of 0.08 grains per dry standard cubic foot of flue gas, corrected to seven percent oxygen.

Compliance with this condition will be demonstrated according to the stack testing requirements outlined in 6 NYCRR Section 219-4.5.

Parameter Monitored: PARTICULATES

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

Reference Test Method: EPA Reference Test Method 5

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 29: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement: 6 NYCRR 219-4.4 (a)

Item 29.1:

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

Emission Unit: I-00002

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

Item 29.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

No Facility owner or operator shall cause or allow emissions having an average opacity during any six consecutive minutes of 10 percent or greater from any process emission source or emission point, except for the emission of uncombined water. NYSDEC reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during Facility operation.

The Facility shall conduct periodic visual observations of the emission points corresponding to the cremation units when the source is operating at least once per week. Normal operation of the cremators should not result in visible emissions from the incineration of remains utilizing natural gas.

If visible emissions are observed from cremation unit operation, the facility owner or operator shall notify NYSDEC in writing (electronic or equivalent method) as soon as possible during normal working hours, but not later than two working days after visible emissions were observed. The Facility shall determine the cause of any instance where there are visible emissions other than condensing moisture or steam, make the necessary correction, and verify that the visible emissions problem has been corrected.

Records of visible emissions observations, investigations and corrective actions will be kept on-site in a bound logbook or an equivalent method, including electronic media. These records shall include the date, time, observer's name, weather conditions and a description of the observations (steam, visible emissions, etc.). These records shall be kept on-site for a period of 5 years from the date of the last entry. Should NYSDEC determine that the record keeping format is inadequate to demonstrate compliance, it shall provide written notice stating the inadequacies, and the Facility shall have 90 days to revise its prospective record keeping format in a manner acceptable to NYSDEC.

Parameter Monitored: OPACITY

Upper Permit Limit: 10 percent

Reference Test Method: Method 9

Monitoring Frequency: WEEKLY

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 30: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement: 6 NYCRR 219-4.4 (b)

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

Item 30.1:

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

Emission Unit: I-00002

Item 30.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The Facility owner or operator of a cremation unit must maintain a one-hour average temperature of at least 1600 Deg. F in the secondary combustion chamber, with a minimum residence time for combustion gases of at least one second, at all times remains are being cremated.

The Facility must install continuous monitors to be used to observe and record the secondary combustion chamber temperature on each cremation unit. The continuous monitors shall be calibrated and maintained per manufacturer specifications. Each continuous monitor shall operate and record temperature data continuously while the respective emission unit is in operation. Temperature of the secondary combustion chamber can be recorded via a temperature circular chart that is replaced as needed or an equivalent electronic method. Records must also indicate the cremation unit, date, and the start/end time for each cremation performed.

If the secondary combustion chamber temperature or minimum residence time requirement is not met during the cremation of remains, the facility owner or operator shall notify NYSDEC in writing (electronic or equivalent method) as soon as possible during normal working hours, but not later than two working days after failing to meet the operating requirements. The Facility shall investigate, in a timely manner, any instance where the temperature of the secondary combustion chamber falls below 1600 Deg. F over a one-hour average or any instance where it is believed that the minimum residence time of one second for combustion gases is not reached.

Temperature records and records of malfunctions and corrective actions shall be maintained on-site for a period of 5 years and be readily available upon request from a NYSDEC representative. Should NYSDEC determine that the record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice stating the inadequacies, and the Facility shall have 90 days to revise its' prospective record keeping

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

format in a manner acceptable to NYSDEC.

Parameter Monitored: TEMPERATURE

Lower Permit Limit: 1600 degrees Fahrenheit for at least
one second for residence time

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 31: Operating Requirements - Allowed Materials
Effective for entire length of Permit**

Applicable State Requirement: 6 NYCRR 219-4.4 (d)

Item 31.1:

This Condition applies to:

Emission Unit: I00002

Item 31.2:

No person may combust materials other than human and animal remains, their associated containers, pathological waste, and incidental animal bedding in any cremation unit unless prior written authorization has been obtained from the Department.

**Condition 32: Compliance Demonstration
Effective for entire length of Permit**

Applicable State Requirement: 6 NYCRR 219-4.4 (e)

Item 32.1:

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

Emission Unit: I-00002

Item 32.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

No person may cause or allow the combustion of human and animal remains in any cremation unit unless a cremation certification form has been completed. Each cremation certification form shall contain the following information at a minimum:

(1) The name, title, and affiliation of the person providing the remains for cremation;

(2) An attestation signed by the person providing the

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

remains for cremation attesting that the remains and their container do not contain materials prohibited from being combusted by 6 NYCRR Subpart 219-4;

(3) The name and signature of the person accepting the remains for cremation; and

(4) The date the remains were accepted for cremation.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 33: Compliance Demonstration
Effective for entire length of Permit**

Applicable State Requirement: 6 NYCRR 219-4.5

Item 33.1:

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

Emission Unit: I-00002

Item 33.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility owner or operator must conduct an on-site stack test of all cremation units or submit a representative stack test conducted on identical cremation units, upon request from NYSDEC. The NYSDEC reserves the right to perform or require the performance of an emissions stack test evaluation at any time.

The Facility showed compliance with the particulate emission limits specified in 6 NYCRR 219-4.3 – Particulate Emissions by submitting a representative stack test for the B&L N20 cremation unit, per 6 NYCRR 219-4.5. A compliance stack test was performed and completed on May 29, 2025 for the C125P cremation unit, which demonstrated compliance with the applicable limit.

Records of the most recent stack test submitted to NYSDEC for each cremation unit shall be kept on-site and provided to a NYSDEC representative upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

Condition 34: Operator Training and Certification
Effective for entire length of Permit

Applicable State Requirement: 6 NYCRR 219-4.6 (a)

Item 34.1:

This Condition applies to:

Emission Unit: I00002

Item 34.2:

No cremation unit subject to the requirements of 6 NYCRR Subpart 219-4 is permitted to operate unless it is operated under the onsite supervision of a person possessing a valid crematory operator certification issued by the Department.

Condition 35: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement: 6 NYCRR 219-4.7 (a)

Item 35.1:

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

Emission Unit: I-00002

Item 35.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a crematory facility must inspect each cremation unit at that facility at least once per calendar year. The facility owner or operator shall perform all necessary repairs and routine maintenance in order to ensure that each cremation unit, monitoring device, and control device is operated and maintained in accordance with manufacturer's instructions.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 36: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement: 6 NYCRR 219-4.8 (a)

Item 36.1:

The Compliance Demonstration activity will be performed for the facility:

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

The Compliance Demonstration applies to:

Emission Unit: I-00002

Item 36.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a crematory facility must maintain the following records at the facility for a period of at least five years:

- (1) Continuous secondary chamber temperature monitoring records indicating the date and time of each cremation performed;
- (2) Operator training and certification records for all operators at the facility;
- (3) A record of the date, time, and cause of all malfunctions and any corrective action taken to resolve them;
- (4) A record of any maintenance performed on each cremation unit, including the annual inspection required by 6 NYCRR Section 219-4.7, and the routine replacement of parts and components; and
- (5) A copy of each cremation certification form created pursuant to 6 NYCRR Subdivision 219-4.4(e).

All records kept pursuant to this condition must be provided to the Department upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 37: Compliance Demonstration
Effective for entire length of Permit**

Applicable State Requirement: 6 NYCRR 219-4.8 (b)

Item 37.1:

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

Emission Unit: I-00002

Item 37.2:

Compliance Demonstration shall include the following monitoring:

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a crematory facility must maintain the following records at the facility for the lifetime of each cremation unit installed at the facility:

(1) Manufacturer's operating instructions for each cremation unit and any associated monitoring equipment or emissions controls; and

(2) A copy of the most recent stack test submitted to the Department to demonstrate compliance with the requirements of 6 NYCRR Subpart 219-4.

Records kept pursuant to this condition must be provided to the Department upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

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

Condition 38: Emission Point Definition By Emission Unit
Effective for entire length of Permit

Applicable State Requirement: 6 NYCRR Subpart 201-5

Item 38.1:

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

Emission Unit: E-00001

Emission Point: 00001

Height (ft.): 165

Diameter (in.): 126

NYTMN (km.): 4762.291

NYTME (km.): 188.52

Building: MACKAY

Emission Point: 00004

Height (ft.): 80

Diameter (in.): 27

NYTMN (km.): 4762.699

NYTME (km.): 188.762

Building: FARBER

Item 38.2:

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

Emission Unit: I-00002

Emission Point: 00002

Height (ft.): 63

Diameter (in.): 24

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

NYTMN (km.): 4762.808 NYTME (km.): 188.668 Building: BIOMED EDU

Emission Point: 00003

Height (ft.): 80

Diameter (in.): 18

NYTMN (km.): 4762.794 NYTME (km.): 188.733 Building: BIOMED RES

**Condition 39: Process Definition By Emission Unit
Effective for entire length of Permit**

Applicable State Requirement: 6 NYCRR Subpart 201-5

Item 39.1:

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

Emission Unit: E-00001

Process: 001

Source Classification Code: 1-01-006-02

Process Description:

Operation of the three (3) dual-fired boilers within the Mackay Power Plant.

Emission Source/Control: ES001 - Combustion

Design Capacity: 72.6 million Btu per hour

Emission Source/Control: ES002 - Combustion

Design Capacity: 72.6 million Btu per hour

Emission Source/Control: ES003 - Combustion

Design Capacity: 72.6 million Btu per hour

Item 39.2:

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

Emission Unit: E-00001

Process: 008

Source Classification Code: 1-01-006-02

Process Description:

Operation of the natural gas boiler within Farber Hall.

Emission Source/Control: ES004 - Combustion

Design Capacity: 25 million Btu per hour

Item 39.3:

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

Emission Unit: I-00002

Process: P02

Source Classification Code: 3-15-021-01

Process Description:

Incineration of human and/or animal remains, associated containers, and incidental animal bedding within associated cremation units in accordance with 6 NYCRR Subpart 219-4.

Emission Source/Control: ESC05 - Control

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

Control Type: THERMAL OXIDATION

Emission Source/Control: ESC06 - Control

Control Type: THERMAL OXIDATION

Emission Source/Control: ES005 - Incinerator

Design Capacity: 150 pounds per hour

Waste Feed Method: MANUAL DIRECT FEED

Waste Type: Crematory Waste (only Human Body
parts)

Emission Source/Control: ES006 - Incinerator

Design Capacity: 350 pounds per hour

Waste Feed Method: AUTOMATIC PNEUMATIC FEED, SCREW
CONVEYOR

Waste Type: Crematory Waste (Including Animal Body
parts and associated animal bedding
only)

Condition 40: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement: 6 NYCRR 219-4.4 (f)

Item 40.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: I-00002

Emission Point: 00002

Process: P02

Emission Source: ES005

Item 40.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

No person may cause or allow human or animal remains to
be charged at a crematory facility in excess of the
manufacturer's rated hourly capacity of the cremation
unit.

The facility owner or operator shall maintain records
indicating the weight of remains charged to the cremation
unit at the facility for a period of at least five years
from the date of the record. Such records must be made
available to the Department upon request.

Parameter Monitored: FEED RATE

Upper Permit Limit: 350 pounds per hour

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1 HOUR MAXIMUM - NOT TO BE EXCEEDED AT

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680

ANY TIME

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 41: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement: 6 NYCRR 219-4.4 (f)

Item 41.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: I-00002

Emission Point: 00003

Process: P02

Emission Source: ES006

Item 41.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

No person may cause or allow human or animal remains to be charged at a crematory facility in excess of the manufacturer's rated hourly capacity of the cremation unit.

The facility owner or operator shall maintain records indicating the weight of remains charged to the cremation unit at the facility for a period of at least five years from the date of the record. Such records must be made available to the Department upon request.

Parameter Monitored: FEED RATE

Upper Permit Limit: 150 pounds per hour

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1 HOUR MAXIMUM - NOT TO BE EXCEEDED AT
ANY TIME

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Permit ID: 9-1402-00680/00030

Facility DEC ID: 9140200680