



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 1-4738-00028/00030
Effective Date: 01/02/2015 Expiration Date: 01/01/2025

Permit Issued To: US DEPT OF HOMELAND SECURITY
NEBRASKA AVE NW
WASHINGTON, DC 20528

Facility: PLUM ISLAND ANIMAL DISEASE CTR
BUILDING 102: WASTEWATER EFFLUENT DECONTAMINATION
SYSTEM (EDS)
PLUM ISLAND, NY

Contact: CHARLES WENDEROTH
US DEPT OF HOMELAND SECURITY
PO BOX 848
GREENPORT, NY 11944-0848
(631) 323-3007

Description:

Application for renewal of Air State Facility. Changes made since the last permit application are as follows.

The West incinerator no longer burns institutional waste and the compliance plan has been completed.

Due to fuel availability the site uses ultra low sulfur diesel (ULSD) interchangeably with low sulfur No. 2 fuel oil, to meet federal and state compliance limits of <0.5 % sulfur in fuel. ULSD by definition contains no more than 15 ppm sulfur.

The Building 101 footprint has changed due to building expansion. The addition does not affect incinerator operation or waste feed.

Automatic controls were added to the boilers to improve Flue Gas Recirculation (FGR) and reduce oxides of nitrogen (NOx) emissions. This is a best management practice as NOx emissions at PIADC are regulated through capping of fuel volume.

The emergency generators meet the 6NYCRR 201-1-(CQ) definition and the exempt source requirements per 6NYCRR 201-3.2(c)(6) providing power only when the usual supply is unavailable, none of which operate for no more than 500 hours per year, including emergency situations, routine maintenance, and routine exercising. None of the generators are used for peak shaving generation.

New York State Department of Environmental Conservation
Facility DEC ID: 1473800028



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: ROGER EVANS
 NYSDEC - REGION 1 SUNY @ STONY BROOK
 50 CIRCLE RD
 STONY BROOK, NY 11790-3409

Authorized Signature: _____ Date: ___ / ___ / _____



Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

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

Item B: Permittee's Contractors to Comply with Permit

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

Item C: Permittee Responsible for Obtaining Other Required Permits

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

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

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



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

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

Facility Level

- Submission of application for permit modification or renewal -
REGION 1 HEADQUARTERS



DEC GENERAL CONDITIONS
****** General Provisions ******
GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

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

Item 1.2:

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

Item 1.3:

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

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

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

Item 2.1:

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

Condition 3: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

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

Item 3.2:

The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits.

Item 3.3:

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



Condition 4: Permit modifications, suspensions or revocations by the Department
Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:

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

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

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

Condition 5: Submission of application for permit modification or renewal - REGION 1 HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

Applications for permit modification or renewal are to be submitted to:

NYSDEC Regional Permit Administrator
Region 1 Headquarters
Division of Environmental Permits
Stony Brook University
50 Circle Road
Stony Brook, NY 11790-3409
(631) 444-0365

New York State Department of Environmental Conservation

Permit ID: 1-4738-00028/00030

Facility DEC ID: 1473800028



Permit Under the Environmental Conservation Law (ECL)

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

IDENTIFICATION INFORMATION

Permit Issued To: US DEPT OF HOMELAND SECURITY
NEBRASKA AVE NW
WASHINGTON, DC 20528

Facility: PLUM ISLAND ANIMAL DISEASE CTR
BUILDING 102: WASTEWATER EFFLUENT DECONTAMINATION
SYSTEM (EDS)
PLUM ISLAND, NY

Authorized Activity By Standard Industrial Classification Code:
8733 - NONCOMMERCIAL RESEARCH ORGANIZATIONS
8734 - TESTING LABORATORIES
8999 - SERVICES, NEC

Permit Effective Date: 01/02/2015

Permit Expiration Date: 01/01/2025



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
- 2 6 NYCRR 200.7: Maintenance of Equipment
- 3 40 CFR Part 68: Accidental release provisions.
- 4 6 NYCRR 200.2: Safeguarding information
- 5 6 NYCRR 200.3: False statement
- *6 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 7 6 NYCRR Part 201: Compliance Plan
- 8 6 NYCRR 211.1: Air pollution prohibited
- 9 6 NYCRR 227-1.3: Compliance Demonstration
- 10 40CFR 60.7(a), NSPS Subpart A: Date of construction notification -
If a COM is not used.
- 11 40CFR 60.8(a), NSPS Subpart A: Performance testing timeline.
- 12 40CFR 60.9, NSPS Subpart A: Availability of information.
- 13 40CFR 60.11, NSPS Subpart A: Opacity standard compliance testing.
- 14 40CFR 60.12, NSPS Subpart A: Circumvention.
- 15 40CFR 60.13, NSPS Subpart A: Monitoring requirements.
- 16 40CFR 60.14, NSPS Subpart A: Modifications.
- 17 40CFR 60.48c(d), NSPS Subpart Dc: Compliance Demonstration
- 18 40CFR 60.48c(g), NSPS Subpart Dc: Compliance Demonstration

Emission Unit Level

- 19 6 NYCRR Subpart 201-7: Process Permissible Emissions
- 20 6 NYCRR 227.2 (b) (1): Compliance Demonstration

EU=1-109BL,Proc=OIL

- 21 40CFR 60.42c(d), NSPS Subpart Dc: Compliance Demonstration
- 22 40CFR 60.42c(h), NSPS Subpart Dc: Exemption from the averaging period.

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 23 ECL 19-0301: Contaminant List
- 24 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 25 6 NYCRR Subpart 201-5: Emission Unit Definition
- 26 6 NYCRR 201-5.2 (c): Renewal deadlines for state facility permits
- 27 6 NYCRR 201-5.3 (c): Radioactive Waste Requirements
- 28 6 NYCRR 201-5.3 (c): Compliance Demonstration
- 29 6 NYCRR 211.2: Visible Emissions Limited
- 30 6 NYCRR 219-4.7: Compliance Demonstration
- 31 6 NYCRR 225-1.2: Compliance Demonstration

Emission Unit Level

- 32 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
- 33 6 NYCRR Subpart 201-5: Process Definition By Emission Unit

EU=1-101EO

- 34 6 NYCRR 219-4.3: Compliance Demonstration
- 35 6 NYCRR 219-4.4: This section describes design requirements for crematories and pathological incinerators.

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- 36 6 NYCRR 219-4.5 (a): Compliance Demonstration
- 37 6 NYCRR 219-4.5 (b): Compliance Demonstration
- 38 6 NYCRR 219-4.5 (b): Compliance Demonstration
- 39 6 NYCRR 219-4.8: Stack Testing requirements
- 40 6 NYCRR 219-4.10: Operator training and certification requirements.
- 41 6 NYCRR 219-4.11: Inspection and Reporting requirements.

EU=1-101WE

- 42 6 NYCRR 219-4.3: Compliance Demonstration
- 43 6 NYCRR 219-4.4: This section describes design requirements for crematories and pathological incinerators.
- 44 6 NYCRR 219-4.5 (a): Compliance Demonstration
- 45 6 NYCRR 219-4.5 (b): Compliance Demonstration
- 46 6 NYCRR 219-4.5 (b): Compliance Demonstration
- 47 6 NYCRR 219-4.8: Stack Testing requirements
- 48 6 NYCRR 219-4.10: Operator training and certification requirements.
- 49 6 NYCRR 219-4.11: Inspection and Reporting requirements.

NOTE: * preceding the condition number indicates capping.



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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

Item A: Sealing - 6 NYCRR 200.5

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

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

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

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

Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6

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

Item C: Maintenance of Equipment - 6 NYCRR 200.7

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



required to operate such device effectively.

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

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

- (a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.
- (b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

Item E: Emergency Defense - 6 NYCRR 201-1.5

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

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

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

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



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

Item F: Recycling and Salvage - 6 NYCRR 201-1.7

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

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

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

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

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

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

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Item J: Required Emission Tests - 6 NYCRR 202-1.1



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

Item K: Open Fires Prohibitions - 6 NYCRR 215.2

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

Item L: Permit Exclusion - ECL 19-0305

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

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

All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

FEDERAL APPLICABLE REQUIREMENTS
The following conditions are federally enforceable.

Condition 1: Acceptable Ambient Air Quality



Effective between the dates of 01/02/2015 and 01/01/2025

Applicable Federal Requirement:6 NYCRR 200.2

Item 4.1:

Information pertaining to manufacture, production or secret processes submitted in connection with applications, reports, plans and specifications or testing and designated by the person submitting such information as secret or proprietary, shall be kept confidential as provided by Part 616 of this Title dealing with trade secret confidentiality. The quantity and physical and chemical characteristics of actual and allowable air contaminant emissions shall be considered public information.

Condition 5: False statement

Effective between the dates of 01/02/2015 and 01/01/2025

Applicable Federal Requirement:6 NYCRR 200.3

Item 5.1:

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

Condition 6: Capping Monitoring Condition

Effective between the dates of 01/02/2015 and 01/01/2025

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 6.1:

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

6 NYCRR Subpart 201-6

Item 6.2:

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

Item 6.3:

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

Item 6.4:

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

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Item 6.5:

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

Item 6.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

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

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 6.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The facility will cap the amount of #2 oil fired to 2.5 million gallons per year with a sulfur content of 0.5%.

This is required in order to cap the SO₂ and NO_x emissions below the Title V thresholds.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 2 OIL

Parameter Monitored: VOLUME

Upper Permit Limit: 2500000 gallons per year

Monitoring Frequency: ANNUALLY

Averaging Method: ANNUAL TOTAL ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2015.

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

Condition 7: Compliance Plan

Effective between the dates of 01/02/2015 and 01/01/2025

Applicable Federal Requirement:6 NYCRR Part 201

Item 7.1:

Compliance will be achieved according to the following schedule for the Facility:

Consent Order: 1200701193

Progress Report Begin Date: 07/06/2010

Item 7.2:

Remedial Measure:

Schedule Date: 07/06/2010

The facility must comply with all requirements of the

Consent Order CO-1-20070119-3 signed July 6,2010.



Intermediate Milestones:

Schedule Date: 07/06/2010

A semi annual compliance certification must be submitted to the Department documenting no more than 5% of the total permitted charging rate of infectious waste.

Condition 8: Air pollution prohibited
Effective between the dates of 01/02/2015 and 01/01/2025

Applicable Federal Requirement:6 NYCRR 211.1

Item 8.1:

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 9: Compliance Demonstration
Effective between the dates of 01/02/2015 and 01/01/2025

Applicable Federal Requirement:6 NYCRR 227-1.3

Item 9.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 9.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operators of oil-fired boilers which are not exempt from permitting and where a continuous opacity monitor is not utilized for measuring smoke emissions, shall be required to perform the following:

1) Observe the stack for each boiler which is operating on oil once per day for visible emissions. This observation(s) must be conducted during daylight hours except during adverse weather conditions (fog, rain, or snow).

2) The results of each observation must be recorded in a bound logbook or other format acceptable to the Department. The following data must be recorded for each stack:

- date and time of day
- observer's name
- identity of emission point



- weather condition
- was a plume observed?

Inclement weather conditions shall be recorded for those days when observations are prohibited. This logbook must be retained at the facility for five (5) years after the date of the last entry.

3) If the operator observes any visible emissions (other than steam - see below) two consecutive days firing oil (the firing of other fuels in between days of firing oil does not count as an interruption in the consecutive days of firing oil), then a 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 results of the Method 9 analysis must be 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 the Department 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.

Monitoring Frequency: DAILY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2015.
Subsequent reports are due every 12 calendar month(s).

**Condition 10: Date of construction notification - If a COM is not used.
Effective between the dates of 01/02/2015 and 01/01/2025**

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

Item 10.1:

Any owner or operator subject to this part shall furnish the Administrator with the following information:

- 1) a notification of the date construction or reconstruction commenced, post marked no later than 30 days after such date;



Condition 14: Circumvention.
Effective between the dates of 01/02/2015 and 01/01/2025

Applicable Federal Requirement:40CFR 60.12, NSPS Subpart A

Item 14.1:

No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

Condition 15: Monitoring requirements.
Effective between the dates of 01/02/2015 and 01/01/2025

Applicable Federal Requirement:40CFR 60.13, NSPS Subpart A

Item 15.1:

All continuous monitoring systems and devices shall be installed, calibrated, maintained, and operated in accordance with the requirements of section 60.13.

Condition 16: Modifications.
Effective between the dates of 01/02/2015 and 01/01/2025

Applicable Federal Requirement:40CFR 60.14, NSPS Subpart A

Item 16.1:

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

Condition 17: Compliance Demonstration
Effective between the dates of 01/02/2015 and 01/01/2025

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

Item 17.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 17.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of each affected facility subject to the SO₂ emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.42c shall submit semi-annual reports to the Administrator.

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2015.

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

Condition 18: Compliance Demonstration
Effective between the dates of 01/02/2015 and 01/01/2025

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

Item 18.1:
The Compliance Demonstration activity will be performed for the Facility.

Item 18.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day.

Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2015.
Subsequent reports are due every 12 calendar month(s).

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

Condition 19: Process Permissible Emissions
Effective between the dates of 01/02/2015 and 01/01/2025

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 19.1:
The sum of emissions from the regulated process cited shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit: 1-101EO Process: CRM
CAS No: 007446-09-5
Name: SULFUR DIOXIDE
PTE(s): 3.95 pounds per hour
4,734 pounds per year

Emission Unit: 1-101WE Process: CRW
CAS No: 007446-09-5
Name: SULFUR DIOXIDE
PTE(s): 3.95 pounds per hour
4,734 pounds per year

New York State Department of Environmental Conservation

Permit ID: 1-4738-00028/00030

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Emission Unit: 1-109BL Process: OIL
CAS No: 007446-09-5
Name: SULFUR DIOXIDE
PTE(s): 8.1 pounds per hour
71,000 pounds per year

Emission Unit: 1-109EG Process: EPG
CAS No: 007446-09-5
Name: SULFUR DIOXIDE
PTE(s): 13 pounds per hour
2,080 pounds per year

Emission Unit: 1-101EO Process: CRM
CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN
PTE(s): 4.99 pounds per hour
5,984 pounds per year

Emission Unit: 1-101WE Process: CRW
CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN
PTE(s): 2.5 pounds per hour
2,992 pounds per year

Emission Unit: 1-109BL Process: OIL
CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN
PTE(s): 2.28 pounds per hour
20,000 pounds per year

Emission Unit: 1-109EG Process: EPG
CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN
PTE(s): 85.87 pounds per hour
13,739 pounds per year

Condition 20: Compliance Demonstration
Effective between the dates of 01/02/2015 and 01/01/2025

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

Item 20.1:

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

Emission Unit: 1-109BL

New York State Department of Environmental Conservation

Permit ID: 1-4738-00028/00030

Facility DEC ID: 1473800028



Emission Unit: 1-109EG

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 20.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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

At the monitoring frequency stated below the facility shall perform the following:

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

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: EPA RM 5

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 21: Compliance Demonstration

Effective between the dates of 01/02/2015 and 01/01/2025

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

Item 21.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-109BL

Process: OIL



STATE ONLY ENFORCEABLE CONDITIONS
****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS
This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability

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

Where facility owners and/or operators keep records pursuant to compliance with the requirements of 6 NYCRR Subpart 201-5.4, and/or the emission capping requirements of 6 NYCRR Subpart 201-7, the Department will make such records available to the public upon request in accordance with 6 NYCRR Part 616 - Public Access to Records. Facility owners and/or operators must submit the records required to comply with the request within sixty working days of written notification by the Department.

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

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

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

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state only enforceable.

Condition 23: Contaminant List
Effective between the dates of 01/02/2015 and 01/01/2025



Applicable State Requirement:ECL 19-0301

Item 23.1:

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

CAS No: 007446-09-5

Name: SULFUR DIOXIDE

CAS No: 0NY075-00-0

Name: PARTICULATES

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

**Condition 24: Malfunctions and start-up/shutdown activities
Effective between the dates of 01/02/2015 and 01/01/2025**

Applicable State Requirement:6 NYCRR 201-1.4

Item 24.1:

(a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.

(b) The facility owner or operator shall compile and maintain records of all equipment malfunctions, maintenance, or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when requested to do so, or when so required by a condition of a permit issued for the corresponding air contamination source. Such reports shall state whether any violations occurred and, if so, whether they were unavoidable, include the time, frequency and duration of the maintenance and/or start-up/shutdown activities, and an estimate of the emission rates of any air contaminants released. Such records shall be maintained for a period of at least five years and made available for review to department representatives upon request. Facility owners or operators subject to continuous stack monitoring and quarterly reporting requirements need not submit additional reports for equipment maintenance or start-up/shutdown activities for the facility to the department.

(c) In the event that emissions of air contaminants in excess of any emission standard in this Subchapter occur due to a malfunction, the facility owner or operator shall compile and maintain records of the malfunction and notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates.

(d) The department may also require the owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions.



(e) A violation of any applicable emission standard resulting from start-up, shutdown, or malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements listed above must be adhered to in such circumstances.

Condition 25: Emission Unit Definition
Effective between the dates of 01/02/2015 and 01/01/2025

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 25.1:

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

Emission Unit: 1-101EO

Emission Unit Description:

The East and Orient incinerators are identical Environmental Control Products Model 2000TL No. 2 oil-fired units with the capacity for 1600lb/hr of pathological waste. The units are modular, controlled-air and refractory-lined. Typically only one of the incinerators is operated at a time, between 1 and 10 days per month, depending on the waste generated by the facility. This varies based on the number of carcasses generated from research projects, veterinary schools and seminars. A typical charge is between 25 and 300 pounds, and multiple charges are possible per hour. The waste includes animal body parts (animal carcasses) and associated animal bedding (waste associated with the animal testing).Radioactive waste may not be burned in these incinerators. The facility has agreed to limit the amount of pathological waste charged to the incinerator to no more than 1200 pounds per hour. A compliance monitoring plan for certifying/documenting no more than 5% of the total permitted hourly charging rate of infectious waste must be maintained at all times.

Building(s): 101

Item 25.2:

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

Emission Unit: 1-101WE

Emission Unit Description:

The West incinerator is an Environmental Control Products Model 2000TL No. 2 oil-fired incinerator with the capacity for 1600lb/hr of pathological waste identical to the East and Orient incinerators, being modular, controlled-air and refractory-lined. The West incinerator is not currently in use. When returned to use, the incinerator will be operated like the East and Orient incinerators, between 0 and 10 days per month, depending on the waste generated by



the facility. A typical charge is between 25 and 300 pounds, and multiple charges are possible per hour. The waste includes animal body parts (animal carcasses) and associated animal bedding (waste associated with the animal testing). Radioactive waste may not be burned in this incinerator. The facility has agreed to limit the amount of pathological waste charged to the incinerator to no more than 1200 pounds per hour. A compliance monitoring plan for certifying/documenting no more than 5% of the total permitted hourly charging rate of infectious waste must be maintained at all times.

Building(s): 101

Item 25.3:

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

Emission Unit: 1-109BL

Emission Unit Description:

The building 109 boiler plant consists of three Cleaver-Brooks boilers rated at 19.3 MMBtu/hr. All boilers fire no. 2 fuel oil only and are used to respond to steam demand for buildings 100, 101 and 102 as needed. The intermittent emission testing compliance demonstration for particulates (stack testing) was completed during the initial term of the current permit and PIADC may submit the previous stack testing results as long as there is no change to the system or operation that would affect the stack test results.

Building(s): 109

Item 25.4:

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

Emission Unit: 1-109EG

Emission Unit Description:

This emission unit consists of three Caterpillar model 3606 generator sets with straight 6 cylinder diesel-driven engines capable of 900 rpm installed at the facility in March of 2003. Each generator is rated 1820eKw prime, 13200 volts, 3 phase, 4-wire, 60 Hz, at 0.8 power factor (pf). Each generator consumes 121 gallons of fuel per hour when operating at 100% capacity. PIADC will operate these units to ensure consistent, balanced power to the island and will not use them as part of the utility company peak reduction power program. Generators will also be used for periodic testing, training, operational needs or requirements, electrical work, cutovers during construction and during the delivery of unbalanced power (under/over voltage or amperage) by the utility. The anticipated operating schedule is "as required", however, the operating time over a twelve month period will be approximately 8 hours per generator per month over the 6



months of winter, and 18 hours per month over 6 months of summer, or a total of 156 hours per generator per year. The intermittent emission testing compliance demonstration for particulates (stack testing) was completed during the initial term of the current permit and PIADC may submit the previous stack testing results as long as there is no change to the system or operation that would affect the stack test results.

Building(s): 109

Condition 26: Renewal deadlines for state facility permits
Effective between the dates of 01/02/2015 and 01/01/2025

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

Item 26.1:

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 27: Radioactive Waste Requirements
Effective between the dates of 01/02/2015 and 01/01/2025

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

Item 27.1: The incineration of radioactive waste must be conducted in accordance with a valid radioactive materials license issued by the US Nuclear Regulatory Commission.

Condition 28: Compliance Demonstration
Effective between the dates of 01/02/2015 and 01/01/2025

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

Item 28.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 28.2:

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 1

New York State Department of Environmental Conservation

Permit ID: 1-4738-00028/00030

Facility DEC ID: 1473800028



SUNY at Stony Brook
Building 40
Stony Brook, NY 11790-2356

Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2015.
Subsequent reports are due every 12 calendar month(s).

Condition 29: Visible Emissions Limited
Effective between the dates of 01/02/2015 and 01/01/2025

Applicable State Requirement:6 NYCRR 211.2

Item 29.1:

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 30: Compliance Demonstration
Effective between the dates of 01/02/2015 and 01/01/2025

Applicable State Requirement:6 NYCRR 219-4.7

Item 30.1:

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

Emission Unit: 1-101EO	Emission Point: 00001
Emission Unit: 1-101EO	Emission Point: 00002
Emission Unit: 1-101WE	Emission Point: 00003

Item 30.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

New York State Department of Environmental Conservation

Permit ID: 1-4738-00028/00030

Facility DEC ID: 1473800028



Monitoring Frequency: CONTINUOUS
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2015.
Subsequent reports are due every 12 calendar month(s).

Condition 31: Compliance Demonstration
Effective between the dates of 01/02/2015 and 01/01/2025

Applicable State Requirement:6 NYCRR 225-1.2

Item 31.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 31.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners and/or operators of a stationary combustion installation that fires distillate oil other than number two heating oil are limited to the purchase of distillate oil with 0.0015 percent sulfur by weight or less on or after July 1, 2014 and are limited to the firing of distillate oil including number two heating oil with 0.0015 percent sulfur by weight or less on or after July 1, 2016.

The department will require fuel analyses, information on the quantity of fuel received, fired or sold, and results of stack sampling, stack monitoring, and other procedures to ensure compliance with the provisions of this Subpart. All records must be maintained at the facility for a minimum of five years.

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

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: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2015.
Subsequent reports are due every 3 calendar month(s).

**** Emission Unit Level ****

Condition 32: Emission Point Definition By Emission Unit
Effective between the dates of 01/02/2015 and 01/01/2025

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 32.1:

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

Emission Unit: 1-101EO

Emission Point: 00001
Height (ft.): 44 Diameter (in.): 42
NYTMN (km.): 4562.2 NYTME (km.): 734.53 Building: 101

Emission Point: 00002
Height (ft.): 44 Diameter (in.): 42
NYTMN (km.): 4562.2 NYTME (km.): 734.53 Building: 101

Item 32.2:

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

Emission Unit: 1-101WE

Emission Point: 00003
Height (ft.): 44 Diameter (in.): 41
NYTMN (km.): 4562.12 NYTME (km.): 734.43 Building: 101

Item 32.3:

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

Emission Unit: 1-109BL

Emission Point: 00009
Height (ft.): 23 Diameter (in.): 20
NYTMN (km.): 4562.05 NYTME (km.): 731.29 Building: 109

Emission Point: 00010
Height (ft.): 23 Diameter (in.): 20
NYTMN (km.): 4562.05 NYTME (km.): 731.29 Building: 109



Emission Point: 00011
Height (ft.): 23 Diameter (in.): 20
NYTMN (km.): 4562.05 NYTME (km.): 731.29 Building: 109

Item 32.4:

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

Emission Unit: 1-109EG

Emission Point: 00013
Height (ft.): 23 Diameter (in.): 20
NYTMN (km.): 4562.09 NYTME (km.): 734.29 Building: 109

Emission Point: 00014
Height (ft.): 23 Diameter (in.): 20
NYTMN (km.): 4562.09 NYTME (km.): 734.29 Building: 109

Emission Point: 00015
Height (ft.): 23 Diameter (in.): 20
NYTMN (km.): 4562.09 NYTME (km.): 734.29 Building: 109

**Condition 33: Process Definition By Emission Unit
Effective between the dates of 01/02/2015 and 01/01/2025**

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 33.1:

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

Emission Unit: 1-101EO
Process: CRM Source Classification Code: 5-01-005-05
Process Description:

A typical operating day for an incinerator begins at the start of the day shift and includes approximately 2 hours of warm up time to ensure both chambers are at the minimum operating temperature. Waste feed to the incinerator occurs for 6 to 10 hours, depending on the number of carcasses for disposal, and is followed by an automatic burnout/cool down period of approximately 4 to 6 hours. The waste includes animal body parts (animal carcasses) and associated animal bedding (waste associated with the animal testing). Waste is fed to the primary chamber in controlled batches. Waste is loaded into the floor level charging chute through a mechanically-controlled hatch located in the necropsy room above each incinerator. Operators place each charge of waste into the chute, which is sealed from the primary combustion chamber by an intervening double-door system. When the chute is loaded the upper hatch is closed and the incinerator operator opens the lower double doors dropping the waste into the primary chamber. After a set interval and the incinerator operator makes sure both the primary and secondary chamber



body parts (animal carcasses) and associated animal bedding (waste associated with the animal testing).

Emission Source/Control: 10103 - Incinerator
Design Capacity: 1,600 pounds per hour
Waste Feed Method: CHUTE FED
Waste Type: CREMATORY WASTE (INCLUDING HUMAN AND/OR ANIMAL BODY PARTS AND ASSOCIATED ANIMAL BEDDING) ONLY

Item 33.3:

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

Emission Unit: 1-109BL
Process: OIL Source Classification Code: 1-03-005-02
Process Description:

Three no.2 fuel oil/diesel-fired package boilers provide steam for comfort heating and sterilization needs for PIADC. At least one boiler is on-line at all times. Annual fuel usage will be up to 1,000,000 gallons per year total for the three units. Steam demand is satisfied by combustion of units at less than individual capacities.

Emission Source/Control: 10901 - Combustion
Design Capacity: 133 gallons per hour

Emission Source/Control: 10902 - Combustion
Design Capacity: 133 gallons per hour

Emission Source/Control: 10903 - Combustion
Design Capacity: 133 gallons per hour

Item 33.4:

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

Emission Unit: 1-109EG
Process: EPG Source Classification Code: 3-10-004-11
Process Description:

Three emergency power generators, each rated at 1820 eKW, use a combined 363 gallons per hour of fuel at full power. These emergency generators will be operated during power interruptions. Also, the generators will be used as needed for periodic testing, training, operational needs or requirements, electrical work, cutovers during construction, or when the utility delivers unbalanced power (under/over voltage or amperage). The operating schedule will be approximately 8 hours per generator per month of winter, 18 hours per generator per month of summer, and additionally as required.

Emission Source/Control: 10905 - Combustion
Design Capacity: 1,820 kilowatts



Emission Source/Control: 10906 - Combustion
Design Capacity: 1,820 kilowatts

Emission Source/Control: 10907 - Combustion
Design Capacity: 1,820 kilowatts

Condition 34: Compliance Demonstration
Effective between the dates of 01/02/2015 and 01/01/2025

Applicable State Requirement:6 NYCRR 219-4.3

Item 34.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-101EO

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

Item 34.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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

Parameter Monitored: PARTICULATES

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

Reference Test Method: EPA Ref Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2015.

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

Condition 35: This section describes design requirements for crematories and pathological incinerators.

Effective between the dates of 01/02/2015 and 01/01/2025

Applicable State Requirement:6 NYCRR 219-4.4

Item 35.1:

New York State Department of Environmental Conservation

Permit ID: 1-4738-00028/00030

Facility DEC ID: 1473800028



This Condition applies to Emission Unit: 1-101EO

Item 35.2:

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

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

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

Condition 36: Compliance Demonstration
Effective between the dates of 01/02/2015 and 01/01/2025

Applicable State Requirement: 6 NYCRR 219-4.5 (a)

Item 36.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-101EO

Item 36.2:

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 emissions to the outdoor atmosphere having a six minute average opacity of ten percent or greater from any crematory.

Parameter Monitored: OPACITY

Upper Permit Limit: 10 percent

Reference Test Method: EPA Method 9

Monitoring Frequency: DAILY

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 37: Compliance Demonstration
Effective between the dates of 01/02/2015 and 01/01/2025

Applicable State Requirement: 6 NYCRR 219-4.5 (b)

Item 37.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-101EO

New York State Department of Environmental Conservation

Permit ID: 1-4738-00028/00030

Facility DEC ID: 1473800028



Item 37.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

No person may operate a crematory unless the primary chamber temperature is maintained at 1400 degrees Fahrenheit at all times waste is being burned.

Parameter Monitored: TEMPERATURE

Lower Permit Limit: 1400 degrees Fahrenheit

Monitoring Frequency: CONTINUOUS

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 38: Compliance Demonstration
Effective between the dates of 01/02/2015 and 01/01/2025

Applicable State Requirement:6 NYCRR 219-4.5 (b)

Item 38.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-101EO

Item 38.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

No person may operate a crematory unless the secondary chamber temperature is maintained at 1800 degrees Fahrenheit at all times waste is being burned.

Parameter Monitored: TEMPERATURE

Lower Permit Limit: 1800 degrees Fahrenheit

Monitoring Frequency: CONTINUOUS

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 39: Stack Testing requirements
Effective between the dates of 01/02/2015 and 01/01/2025

Applicable State Requirement:6 NYCRR 219-4.8

Item 39.1:

This Condition applies to Emission Unit: 1-101EO

Item 39.2:



Effective between the dates of 01/02/2015 and 01/01/2025

Applicable State Requirement:6 NYCRR 219-4.3

Item 42.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-101WE

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 42.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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

Parameter Monitored: PARTICULATES

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

Reference Test Method: EPA Ref Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2015.

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

Condition 43: This section describes design requirements for crematories and pathological incinerators.

Effective between the dates of 01/02/2015 and 01/01/2025

Applicable State Requirement:6 NYCRR 219-4.4

Item 43.1:

This Condition applies to Emission Unit: 1-101WE

Item 43.2:

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

New York State Department of Environmental Conservation

Permit ID: 1-4738-00028/00030

Facility DEC ID: 1473800028



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

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

Condition 44: Compliance Demonstration
Effective between the dates of 01/02/2015 and 01/01/2025

Applicable State Requirement: 6 NYCRR 219-4.5 (a)

Item 44.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-101WE

Item 44.2:

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 emissions to the outdoor atmosphere having a six minute average opacity of ten percent or greater from any crematory.

Parameter Monitored: OPACITY

Upper Permit Limit: 10 percent

Reference Test Method: EPA Method 9

Monitoring Frequency: DAILY

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 45: Compliance Demonstration
Effective between the dates of 01/02/2015 and 01/01/2025

Applicable State Requirement: 6 NYCRR 219-4.5 (b)

Item 45.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-101WE

Item 45.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

No person may operate a crematory unless the primary chamber temperature is maintained at 1400 degrees



Fahrenheit at all times waste is being burned.

Parameter Monitored: TEMPERATURE
Lower Permit Limit: 1400 degrees Fahrenheit
Monitoring Frequency: CONTINUOUS
Averaging Method: MINIMUM - NOT TO FALL BELOW STATED
VALUE - SEE MONITORING DESCRIPTION
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 46: Compliance Demonstration
Effective between the dates of 01/02/2015 and 01/01/2025

Applicable State Requirement:6 NYCRR 219-4.5 (b)

Item 46.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: 1-101WE

Item 46.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)
Monitoring Description:
No person may operate a crematory unless the secondary chamber temperature is maintained at 1800 degrees Fahrenheit at all times waste is being burned.

Parameter Monitored: TEMPERATURE
Lower Permit Limit: 1800 degrees Fahrenheit
Monitoring Frequency: CONTINUOUS
Averaging Method: MINIMUM - NOT TO FALL BELOW STATED
VALUE - SEE MONITORING DESCRIPTION
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 47: Stack Testing requirements
Effective between the dates of 01/02/2015 and 01/01/2025

Applicable State Requirement:6 NYCRR 219-4.8

Item 47.1:
This Condition applies to Emission Unit: 1-101WE

Item 47.2:
(a) Each incinerator to be installed in a crematory facility must demonstrate compliance by either (1) onsite testing, or (2) submittal of a test report for an identical incinerator tested in New York and approved by the commissioner.

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



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

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

**Condition 48: Operator training and certification requirements.
Effective between the dates of 01/02/2015 and 01/01/2025**

Applicable State Requirement:6 NYCRR 219-4.10

Item 48.1:

This Condition applies to Emission Unit: 1-101WE

Item 48.2:

(a) This facility may not operate except under the onsite direction of a person possessing an appropriate incinerator operator certification issued by the commissioner.

(b) Persons operating this facility must be certified in writing by the holder of an incinerator operator certification, relative to:

(1) proper operation and maintenance of equipment at that facility; and

(2) knowledge of environmental permit conditions and the impact of plant operation on emissions for that facility.

**Condition 49: Inspection and Reporting requirements.
Effective between the dates of 01/02/2015 and 01/01/2025**

Applicable State Requirement:6 NYCRR 219-4.11

Item 49.1:

This Condition applies to Emission Unit: 1-101WE

Item 49.2:

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

