



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

**IDENTIFICATION INFORMATION**

Permit Type: Air Title V Facility  
Permit ID: 2-6005-00125/00003  
Mod 0 Effective Date: 08/23/2012 Expiration Date: 08/22/2017  
Mod 1 Effective Date: 11/05/2013 Expiration Date: 08/22/2017

Permit Issued To: WILDLIFE CONSERVATION SOCIETY  
2300 SOUTHERN BLVD  
BRONX, NY 10460-1099

NYC DEPT OF CULTURAL AFFAIRS  
330 WEST 42ND ST  
NEW YORK, NY 10036

Contact: TRACEY KNUCKLES  
NYC DEPARTMENT OF CULTURAL AFFAIRS  
31 CHAMBERS STREET, 2ND FLOOR  
NEW YORK, NY 10007  
(212) 513-9300

Facility: BRONX ZOO  
2300 SOUTHERN BLVD  
BRONX, NY 10460

Contact: BRENDA BURBACH  
WILDLIFE CONSERVATION SOCIETY  
2300 SOUTHERN BLVD  
BRONX, NY 10460  
(718) 220-7153

Description:  
The facility is a public zoo owned by the city and operated by WCS. The facility operates a cogeneration plant, an incinerator, a microturbine plant at the Center for Global Conservation (CGC) building consisting of eight microturbines and numerous exempt sources such as small boilers, emergency generators, and maintenance, laboratory and graphics operations.

This modification application is to install two ethylene sterilzers to Bronx Zoo's Title V permit.

**New York State Department of Environmental Conservation**  
Facility DEC ID: 2600500125



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

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

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



**Notification of Other State Permittee Obligations**

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

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

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

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

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

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

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

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



**LIST OF CONDITIONS**

**DEC GENERAL CONDITIONS**

**General Provisions**

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

**Facility Level**

- Submission of application for permit modification or renewal -

REGION 2 HEADQUARTERS



**DEC GENERAL CONDITIONS**

**\*\*\*\* General Provisions \*\*\*\***

**For the purpose of your Title V permit, the following section contains state-only enforceable terms and conditions.**

**GENERAL CONDITIONS - Apply to ALL Authorized Permits.**

**Condition 1: Facility Inspection by the Department**

**Applicable State Requirement: ECL 19-0305**

**Item 1.1:**

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

**Item 1.2:**

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

**Item 1.3:**

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

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

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

**Item 2.1:**

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

**Condition 3: Applications for permit renewals, modifications and transfers**

**Applicable State Requirement: 6 NYCRR 621.11**

**Item 3.1:**

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

**Item 3.2:**

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

**Item 3.3:**

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



submitted prior to actual transfer of ownership.

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

**Item 4.1:**

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

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

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

**Condition 5: Submission of application for permit modification or renewal - REGION 2 HEADQUARTERS**  
**Applicable State Requirement: 6 NYCRR 621.6 (a)**

**Item 5.1:**

Submission of applications for permit modification or renewal are to be submitted to:

NYSDEC Regional Permit Administrator  
Region 2 Headquarters  
Division of Environmental Permits  
1 Hunters Point Plaza, 4740 21st Street  
Long Island City, NY 11101-5407  
(718) 482-4997



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

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

**IDENTIFICATION INFORMATION**

Permit Issued To: WILDLIFE CONSERVATION SOCIETY  
2300 SOUTHERN BLVD  
BRONX, NY 10460-1099

NYC DEPT OF CULTURAL AFFAIRS  
330 WEST 42ND ST  
NEW YORK, NY 10036

Facility: BRONX ZOO  
2300 SOUTHERN BLVD  
BRONX, NY 10460

Authorized Activity By Standard Industrial Classification Code:  
8422 - BOTANICAL AND ZOOLOGICAL GARDENS

Mod 0 Permit Effective Date: 08/23/2012

Permit Expiration Date: 08/22/2017

Mod 1 Permit Effective Date: 11/05/2013

Permit Expiration Date: 08/22/2017



## LIST OF CONDITIONS

### FEDERALLY ENFORCEABLE CONDITIONS

#### Facility Level

- 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
- 1-1 6 NYCRR 201-6.4 (a) (7): Fees
- 1-2 6 NYCRR 201-6.4 (c): Recordkeeping and Reporting of Compliance  
Monitoring
- 1-3 6 NYCRR 201-6.4 (c) (2): Records of Monitoring, Sampling, and  
Measurement
- 1-4 6 NYCRR 201-6.4 (c) (3) (ii): Compliance Certification
- 1-5 6 NYCRR 201-6.4 (e): Compliance Certification
- 7 6 NYCRR 202-2.1: Compliance Certification
- 8 6 NYCRR 202-2.5: Recordkeeping requirements
- 9 6 NYCRR 215.2: Open Fires - Prohibitions
- 10 6 NYCRR 200.7: Maintenance of Equipment
- 1-6 6 NYCRR 201-1.7: Recycling and Salvage
- 12 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected  
Contaminants to the air
- 1-7 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
- 1-8 6 NYCRR 201-3.2 (a): Compliance Certification
- 1-9 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 1-10 6 NYCRR 201-6.4 (a) (4): Requirement to Provide Information
- 1-11 6 NYCRR 201-6.4 (a) (8): Right to Inspect
- 1-12 6 NYCRR 201-6.4 (f) (6): Off Permit Changes
- 19 6 NYCRR 202-1.1: Required Emissions Tests
- 20 40 CFR Part 68: Accidental release provisions.
- 21 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 23 6 NYCRR Subpart 201-6: Emission Unit Definition
- 1-13 6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
- 24 6 NYCRR 211.1: Air pollution prohibited
- 25 6 NYCRR 225.1 (a) (3): Compliance Certification
- 26 6 NYCRR 225.7 (a): Compliance Certification
- 27 40CFR 60.4207(b), NSPS Subpart III: Compliance Certification
- 28 40CFR 60.4207(b), NSPS Subpart III: Compliance Certification
- 29 40CFR 60.4209(a), NSPS Subpart III: Compliance Certification
- 30 40CFR 60.4211(c), NSPS Subpart III: Compliance Certification
- 31 40CFR 60.4211(e), NSPS Subpart III: Compliance Certification

#### Emission Unit Level

- 32 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
  - 33 6 NYCRR Subpart 201-6: Process Definition By Emission Unit
  - 34 6 NYCRR Subpart 201-7: Emission Unit Permissible Emissions
  - 35 6 NYCRR 230.2 (b): Gasoline Tanks >= 250 Gallons Installed after  
1/1/79 Required Stage 1 in NYCMA
- EU=C-00001**
- \*36 6 NYCRR Subpart 201-7: Capping Monitoring Condition
  - 37 6 NYCRR 227-1.3 (a): Compliance Certification
  - 52 6 NYCRR 227-2.4 (f) (1): Compliance Certification



**EU=E-00001**

- \*38 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 39 40CFR 60.4205(b), NSPS Subpart IIII: Compliance Certification

**EU=G-00001**

- 41 6 NYCRR 227-1.3 (a): Compliance Certification

**EU=G-00001,Proc=G10**

- \*40 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 53 6 NYCRR 227-2.4 (d): Compliance Certification

**EU=S-00001**

- 1-14 6 NYCRR 212.6 (a): Compliance Certification
- 1-15 40CFR 63.10390, Subpart WWWW: Management practice standard
- 1-16 40CFR 63.10420, Subpart WWWW: Compliance Certification

**EU=S-00001**

- 1-17 40CFR 63.10432, Subpart WWWW: Compliance Certification

**EU=S-00001,Proc=00S,ES=STER2**

- 1-18 6 NYCRR 212.4: Compliance Certification

**STATE ONLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 42 ECL 19-0301: Contaminant List
- 1-19 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 44 6 NYCRR 231-1.5: Compliance Demonstration

**Emission Unit Level**

**EU=1-00001**

- 45 6 NYCRR 219-4.3: Compliance Demonstration
- 46 6 NYCRR 219-4.5 (a): Compliance Demonstration
- 47 6 NYCRR 219-4.5 (b): Compliance Demonstration
- 48 6 NYCRR 219-4.6: This section describes other wastes that can and can not be burned in a crematory.
- 49 6 NYCRR 219-4.10: Operator training and certification requirements.

**EU=1-00001,Proc=00A,ES=00001**

- 50 6 NYCRR 219-4.5 (b): Compliance Demonstration
- 51 6 NYCRR 219-4.5 (b): Compliance Demonstration

NOTE: \* preceding the condition number indicates capping.



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

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**  
**The items listed below are not subject to the annual compliance certification requirements under Title V. Permittees may also have other obligations under regulations of general applicability.**

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

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

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

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

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

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

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

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

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

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

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



**Item C: Timely Application for the Renewal of Title V Permits - 6 NYCRR 201-6.2 (a) (4)**

Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

**Item D: Certification by a Responsible Official - 6 NYCRR 201-6.2 (d) (12)**

Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

**Item E: Requirement to Comply With All Conditions - 6 NYCRR 201-6.4 (a) (2)**

The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

**Item F: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR 201-6.4 (a) (3)**

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

**Item G: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.4 (a) (5)**

It shall not be a defense for a permittee in an enforcement action to claim that a cessation or reduction in the permitted activity would have been necessary in order to maintain compliance with the conditions of this permit.

**Item H: Property Rights - 6 NYCRR 201-6.4 (a) (6)**

This permit does not convey any property rights of any sort or any exclusive privilege.



**Item I: Severability - 6 NYCRR 201-6.4 (a) (9)**

If any provisions, parts or conditions of this permit are found to be invalid or are the subject of a challenge, the remainder of this permit shall continue to be valid.

**Item J: Permit Shield - 6 NYCRR 201-6.4 (g)**

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6 NYCRR Subpart 201-6. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

- i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;
- iii. The applicable requirements of Title IV of the Act;
- iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

**Item K: Reopening for Cause - 6 NYCRR 201-6.4 (i)**

This Title V permit shall be reopened and revised under any of the following circumstances:

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is



three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.

ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.

iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

Proceedings to reopen and issue Title V facility permits shall follow the same procedures as apply to initial permit issuance but shall affect only those parts of the permit for which cause to reopen exists.

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the permit is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

**Item L: Permit Exclusion - ECL 19-0305**

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



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

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

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS  
SUBJECT TO ANNUAL CERTIFICATIONS AT ALL TIMES**

**The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements at all times.**

**Condition 1: Acceptable Ambient Air Quality**  
**Effective between the dates of 08/23/2012 and 08/22/2017**

**Applicable Federal Requirement:6 NYCRR 200.6**

**Item 1.1:**  
Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

**Condition 1-1: Fees**  
**Effective between the dates of 11/05/2013 and 08/22/2017**

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

**Item 1-1.1:**  
The owner and/or operator of a stationary source shall pay fees to the Department consistent with the fee schedule authorized by ECL 72-0303.

**Condition 1-2: Recordkeeping and Reporting of Compliance Monitoring**  
**Effective between the dates of 11/05/2013 and 08/22/2017**

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



**Item 1-2.1:**

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

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

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

**Condition 1-3: Records of Monitoring, Sampling, and Measurement  
Effective between the dates of 11/05/2013 and 08/22/2017**

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

**Item 1-3.1:**

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

**Condition 1-4: Compliance Certification  
Effective between the dates of 11/05/2013 and 08/22/2017**

**Applicable Federal Requirement: 6 NYCRR 201-6.4 (c) (3) (ii)**

**Item 1-4.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 1-4.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To meet the requirements of this facility permit with respect to reporting, the permittee must:



Submit reports of any required monitoring at a minimum frequency of every 6 months, based on a calendar year reporting schedule. These reports shall be submitted to the Department within 30 days after the end of a reporting period. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by the responsible official for this facility.

Notify the Department and report permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. Where the underlying applicable requirement fails to address the time frame for reporting deviations, reports of deviations shall be submitted to the permitting authority based on the following schedule:

- (1) For emissions of a hazardous air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.
- (2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.
- (3) For all other deviations from permit requirements, the report shall be contained in the 6 month monitoring report required above.
- (4) This permit may contain a more stringent reporting requirement than required by paragraphs (1), (2) or (3) above. If more stringent reporting requirements have been placed in this permit or exist in applicable requirements that apply to this facility, the more stringent reporting requirement shall apply.

If above paragraphs (1) or (2) are met, the source must notify the permitting authority by telephone during normal business hours at the Regional Office of jurisdiction for this permit, attention Regional Air Pollution Control Engineer (RAPCE) according to the timetable listed in paragraphs (1) and (2) of this section. For deviations and incidences that must be reported outside of normal business hours, on weekends, or holidays, the DEC Spill

**New York State Department of Environmental Conservation**

Permit ID: 2-6005-00125/00003

Facility DEC ID: 2600500125



Hotline phone number at 1-800-457-7362 shall be used. A written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.2(d)(12), must be submitted within 10 working days of an occurrence for deviations reported under (1) and (2). All deviations reported under paragraphs (1) and (2) of this section must also be identified in the 6 month monitoring report required above.

The provisions of 6 NYCRR 201-1.4 shall apply if the permittee seeks to have a violation excused unless otherwise limited by regulation. In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets. Notwithstanding any recordkeeping and reporting requirements in 6 NYCRR 201-1.4, reports of any deviations shall not be on a less frequent basis than the reporting periods described in paragraphs (1) and (4) above.

In the case of any condition contained in this permit with a reporting requirement of "Upon request by regulatory agency" the permittee shall include in the semiannual report, a statement for each such condition that the monitoring or recordkeeping was performed as required or requested and a listing of all instances of deviations from these requirements.

In the case of any emission testing performed during the previous six month reporting period, either due to a request by the Department, EPA, or a regulatory requirement, the permittee shall include in the semiannual report a summary of the testing results and shall indicate whether or not the Department or EPA has approved the results.

All semiannual reports shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.4(e), contained elsewhere in this permit.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.



The initial report is due 1/30/2014.  
Subsequent reports are due every 6 calendar month(s).

**Condition 1-5: Compliance Certification**  
**Effective between the dates of 11/05/2013 and 08/22/2017**

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

**Item 1-5.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 1-5.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Requirements for compliance certifications with terms and conditions contained in this facility permit include the following:

- i. Compliance certifications shall contain:
  - the identification of each term or condition of the permit that is the basis of the certification;
  - the compliance status;
  - whether compliance was continuous or intermittent;
  - the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related record keeping and reporting requirements of this permit;
  - such other facts as the Department may require to determine the compliance status of the facility as specified in any special permit terms or conditions; and
  - such additional requirements as may be specified elsewhere in this permit related to compliance certification.
- ii. The responsible official must include in the annual certification report all terms and conditions contained in this permit which are identified as being subject to certification, including emission limitations, standards, or work practices. That is, the provisions labeled herein as "Compliance Certification" are not the only provisions of this permit for which an annual certification is required.
- iii. Compliance certifications shall be submitted annually. Certification reports are due 30 days after the anniversary date of four consecutive calendar quarters. The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the



Department.

iv. All compliance certifications shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office). Please send annual compliance certifications to Chief of the Stationary Source Compliance Section, the Region 2 EPA representative for the Administrator, at the following address:

USEPA Region 2  
Air Compliance Branch  
290 Broadway  
New York, NY 10007-1866

The address for the RAPCE is as follows:

Hunters Point Plaza  
47-40 21st Street  
Long Island City, NY 11101-5407

The address for the BQA is as follows:

NYSDEC  
Bureau of Quality Assurance  
625 Broadway  
Albany, NY 12233-3258

Monitoring Frequency: ANNUALLY  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 7/30/2013.  
Subsequent reports are due on the same day each year

**Condition 7: Compliance Certification**  
**Effective between the dates of 08/23/2012 and 08/22/2017**

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

**Item 7.1:**  
The Compliance Certification activity will be performed for the Facility.

**Item 7.2:**  
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

Emission statements shall be submitted on or before April 15th each year for emissions of the previous calendar year. Statements are to be mailed to: New York State

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Department of Environmental Conservation, Division of Air Resources, Bureau of Air Quality Planning, 625 Broadway, Albany NY 12233-3251

Monitoring Frequency: ANNUALLY  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due by April 15th for previous calendar year

**Condition 8: Recordkeeping requirements**  
**Effective between the dates of 08/23/2012 and 08/22/2017**

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

**Item 8.1:**

(a) The following records shall be maintained for at least five years:

- (1) a copy of each emission statement submitted to the department; and
- (2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.

(b) These records shall be made available at the facility to the representatives of the department upon request during normal business hours.

**Condition 9: Open Fires - Prohibitions**  
**Effective between the dates of 08/23/2012 and 08/22/2017**

**Applicable Federal Requirement:6 NYCRR 215.2**

**Item 9.1:**

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

**Item 9.2**

Per Section 215.3, burning in an open fire, provided it is not contrary to other law or regulation, will be allowed as follows:

- (a) On-site burning in any town with a total population less than 20,000 of downed limbs and branches (including branches with attached leaves or needles) less than six inches in diameter and eight feet in length between May 15th and the following March 15th. For the purposes of this subdivision, the total population of a town shall include the population of any village or portion thereof located within the town. However, this subdivision shall not be construed to allow burning within any village.
- (b) Barbecue grills, maple sugar arches and similar outdoor cooking devices when actually used for cooking or processing food.
- (c) Small fires used for cooking and camp fires provided that only charcoal or untreated wood is used as fuel and the fire is not left unattended until extinguished.
- (d) On-site burning of agricultural wastes as part of a valid agricultural operation on contiguous agricultural lands larger than five acres actively devoted to agricultural or horticultural use, provided such waste is actually grown or generated on those lands and such waste is capable of being fully burned within a 24-hour period.
- (e) The use of liquid petroleum fueled smudge pots to prevent frost damage to crops.
- (f) Ceremonial or celebratory bonfires where not otherwise prohibited by law, provided that only



untreated wood or other agricultural products are used as fuel and the fire is not left unattended until extinguished.

(g) Small fires that are used to dispose of a flag or religious item, and small fires or other smoke producing process where not otherwise prohibited by law that are used in connection with a religious ceremony.

(h) Burning on an emergency basis of explosive or other dangerous or contraband materials by police or other public safety organization.

(i) Prescribed burns performed according to Part 194 of this Title.

(j) Fire training, including firefighting, fire rescue, and fire/arson investigation training, performed under applicable rules and guidelines of the New York State Department of State's Office of Fire Prevention and Control. For fire training performed on acquired structures, the structures must be emptied and stripped of any material that is toxic, hazardous or likely to emit toxic smoke (such as asbestos, asphalt shingles and vinyl siding or other vinyl products) prior to burning and must be at least 300 feet from other occupied structures. No more than one structure per lot or within a 300 foot radius (whichever is bigger) may be burned in a training exercise.

(k) Individual open fires as approved by the Director of the Division of Air Resources as may be required in response to an outbreak of a plant or animal disease upon request by the commissioner of the Department of Agriculture and Markets, or for the destruction of invasive plant and insect species.

(l) Individual open fires that are otherwise authorized under the environmental conservation law, or by rule or regulation of the Department.

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS  
SUBJECT TO ANNUAL CERTIFICATIONS ONLY IF APPLICABLE**

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

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

**Condition 10: Maintenance of Equipment  
Effective between the dates of 08/23/2012 and 08/22/2017**

**Applicable Federal Requirement:6 NYCRR 200.7**

**Item 10.1:**

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

**Condition 1-6: Recycling and Salvage  
Effective between the dates of 11/05/2013 and 08/22/2017**

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

**Item 1-6.1:**

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

**Condition 12: Prohibition of Reintroduction of Collected Contaminants to the air**

**Effective between the dates of 08/23/2012 and 08/22/2017**

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

**Item 12.1:**

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

**Condition 1-7: Exempt Sources - Proof of Eligibility**

**Effective between the dates of 11/05/2013 and 08/22/2017**

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

**Item 1-7.1:**

The owner or operator of an emission source or activity that is listed as being exempt may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all records necessary for demonstrating compliance with this Subpart on-site for a period of five years, and make them available to representatives of the department upon request.

**Condition 1-8: Compliance Certification**

**Effective between the dates of 11/05/2013 and 08/22/2017**

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

**Item 1-8.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 1-8.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

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

Work Practice Type: HOURS PER YEAR OPERATION

Upper Permit Limit: 500.0 hours

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY



**Condition 1-9: Trivial Sources - Proof of Eligibility**  
Effective between the dates of 11/05/2013 and 08/22/2017

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

**Item 1-9.1:**

The owner or operator of an emission source or activity that is listed as being trivial in this Section may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all required records on-site for a period of five years and make them available to representatives of the department upon request.

**Condition 1-10: Requirement to Provide Information**  
Effective between the dates of 11/05/2013 and 08/22/2017

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

**Item 1-10.1:**

The owner and/or operator shall furnish to the department, within a reasonable time, any information that the department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the department copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the administrator along with a claim of confidentiality, if the administrator initiated the request for information or otherwise has need of it.

**Condition 1-11: Right to Inspect**  
Effective between the dates of 11/05/2013 and 08/22/2017

**Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (8)**

**Item 1-11.1:**

The department or an authorized representative shall be allowed upon presentation of credentials and other documents as may be required by law to:

(i) enter upon the permittee's premises where a facility subject to the permitting requirements of this Subpart is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;

(ii) have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

(iii) inspect at reasonable times any emission sources, equipment (including monitoring and air pollution control equipment), practices, and operations regulated or required under the permit; and

(iv) sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.



**Condition 1-12: Off Permit Changes**

**Effective between the dates of 11/05/2013 and 08/22/2017**

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

**Item 1-12.1:**

No permit revision will be required for operating changes that contravene an express permit term, provided that such changes would not violate applicable requirements as defined under this Part or contravene federally enforceable monitoring (including test methods), recordkeeping, reporting, or compliance certification permit terms and conditions. Such changes may be made without requiring a permit revision, if the changes are not modifications under any provision of title I of the act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions) provided that the facility provides the administrator and the department with written notification as required below in advance of the proposed changes within a minimum of seven days. The facility owner or operator, and the department shall attach each such notice to their copy of the relevant permit.

(i) For each such change, the written notification required above shall include a brief description of the change within the permitted facility, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

(ii) The permit shield described in section 6 NYCRR 201-6.4 shall not apply to any change made pursuant to this paragraph.

**Condition 19: Required Emissions Tests**

**Effective between the dates of 08/23/2012 and 08/22/2017**

**Applicable Federal Requirement:6 NYCRR 202-1.1**

**Item 19.1:**

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

**Condition 20: Accidental release provisions.**

**Effective between the dates of 08/23/2012 and 08/22/2017**

**Applicable Federal Requirement:40 CFR Part 68**

**Item 20.1:**

If a chemical is listed in Tables 1,2,3 or 4 of 40 CFR §68.130 is present in a process in quantities greater than the threshold quantity listed in Tables 1,2,3 or 4, the following requirements will apply:

a) The owner or operator shall comply with the provisions of 40 CFR Part 68 and;

b) The owner or operator shall submit at the time of permit issuance (if not previously submitted) one of the following, if such quantities are present:

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1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR §68.10(a) or,

2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan. Information should be submitted to:

Risk Management Plan Reporting Center  
C/O CSC  
8400 Corporate Dr  
Carrollton, Md. 20785

**Condition 21: Recycling and Emissions Reduction**  
**Effective between the dates of 08/23/2012 and 08/22/2017**

**Applicable Federal Requirement:40CFR 82, Subpart F**

**Item 21.1:**

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

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

**Condition 23: Emission Unit Definition**  
**Effective between the dates of 08/23/2012 and 08/22/2017**

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

**Item 23.1(From Mod 1):**

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

Emission Unit: S-00001

Emission Unit Description:

This emission unit is comprised of two small ethylene oxide(EtO) sterilization units manufactured by Anderson Products Inc. The existing unit used a 17.6 gram ampule of EtO for each batch cycle(minimum cycle time is 24 hours). The second unit will be installed in 2013 and will have a 110-gram cartridge charge of EtO for each batch cycle which last 16 hours. The new unit will come equipped with an abator capable of greater than 99% destruction efficiency. Emissions from the smaller, existing unit are uncontrolled which is typical for units of this size. The combined total potential EtO emissions from these units is 15 lbs per year.

Building(s): AHC

**Item 23.2(From Mod 0):**



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

Emission Unit: 1-00001

Emission Unit Description:

This emissions unit (hereinafter the "farm incinerator") is a model CT-5 incinerator manufactured by Silent Glow Corporation. The farm incinerator was installed at the facility in or around 1966 and is subject to 6 NYCRR PART 219-4. The farm incinerator has a design capacity charge rate of 300 pounds per hour and a thruput capacity of 2400 pounds per day based on an eight-hour operating day.

The design is similar to that of a "heated hearth" as the combustion gases pass under the primary section and re-enter the burner chamber before they are discharged through the stack. There are two temperature gauges, one is located in the primary chamber and one located in the secondary chamber. A continous strip chart temperature recorder, Omega Engineering, Model CT7100 was installed on January 3, 2008.

Building(s): FARM

**Item 23.3(From Mod 0):**

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

Emission Unit: C-00001

Emission Unit Description:

This emissions unit (thereinafter the "cogen plant") presently consists of four natural gas-fired (spark ignition) Endyn Cleanburn engines: Two( 2) 895 bhp and one(1) 1650 bhp and one(1) 2250 bhp. Pursuant to the DEC- approved NOx RACT plan, revised and updated as of December 22, 2005, WCS and the City has replaced all four of the dual fuel engines with manufacturer rebuilt (zero operating hour) 100% natural gas fired engines. This modification to the cogen plant has reduced the level of NOx formed during the combustion process below the April 1, 2005 emission requirement of 1.5 gr/bhp-hr for this type of engine.

All these engines were ordered and purchased prior to June 12, 2006 , so these units are not subject to Subpart JJJ.

Building(s): JWC

**Item 23.4(From Mod 0):**

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

Emission Unit: E-00001

Emission Unit Description:

This emission unit has five(5) emergency generators.The combined potential NOx emissions from the five generators are 5.4 tons per year ( each with 500 hours of operation



limit per year).

**Item 23.5(From Mod 0):**

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

Emission Unit: G-00001

Emission Unit Description:

The emission unit G-00001 consists of a total of eight(8) microturbines each rated at 60KW and a chiller/heating unit as supplied by UTC Power. All of the microturbine are Capstone Model C60. Six(6) of the microturbines are incorporated into the PureComfort Model 360M unit, and are directed connected to the chiller/heater to generate electricity as well as cooling and/or heating. Waste gases from these microturbines drive the chiller/heater at any operating level between full exhaust and complete diversion to the chiller/heater. The remaining two (2) Capstone Model C60 microturbine units are stand-alone and independent of the PureComfort Model 360M, and will provide peak electrical generation.

Building(s): CGC

**Condition 1-13: Progress Reports Due Semiannually**  
**Effective between the dates of 11/05/2013 and 08/22/2017**

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

**Item 1-13.1:**

Progress reports consistent with an applicable schedule of compliance are to be submitted at least semiannually, or at a more frequent period if specified in the applicable requirement or by the department. Such progress reports shall contain the following:

(i) dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and

(ii) an explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

**Condition 24: Air pollution prohibited**  
**Effective between the dates of 08/23/2012 and 08/22/2017**

**Applicable Federal Requirement:6 NYCRR 211.1**

**Item 24.1:**

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 25: Compliance Certification**  
**Effective between the dates of 08/23/2012 and 08/22/2017**

**Applicable Federal Requirement:6 NYCRR 225.1 (a) (3)**

**Item 25.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 25.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

No person shall sell, offer for sale, purchase or use any distillate oil which has sulfur content greater than 0.20 percent by weight. A log of the sulfur content in oil per delivery must be maintained on site for a minimum of five years after the date of the last entry.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.20 percent by weight

Reference Test Method: epa approved

Monitoring Frequency: PER DELIVERY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2013.

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

**Condition 26: Compliance Certification**  
**Effective between the dates of 08/23/2012 and 08/22/2017**

**Applicable Federal Requirement:6 NYCRR 225.7 (a)**

**Item 26.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 26.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The permittee shall retain fuel oil supplier certifications for each shipment of oil received. Such certifications shall contain, as a minimum, supplier name, date of shipment, quantity shipped, heating value of the oil, oil sulfur content, and the method used to determine the sulfur content. Such certifications shall be available for inspection by, or submitted to, the NYSDEC

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as per the stated reporting requirement.

Reference Test Method: epa approved  
Monitoring Frequency: PER DELIVERY  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2013.  
Subsequent reports are due every 6 calendar month(s).

**Condition 27: Compliance Certification**  
**Effective between the dates of 08/23/2012 and 08/22/2017**

**Applicable Federal Requirement:40CFR 60.4207(b), NSPS Subpart IIII**

**Item 27.1:**  
The Compliance Certification activity will be performed for the Facility.

**Item 27.2:**  
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

Beginning October 1, 2010, the owner or operator of a stationary compression ignition internal combustion engine displacing less than 30 liters per cylinder and which is subject to the requirements of subpart IIII of 40 CFR Part 60 may not fire any diesel fuel which exceeds a sulfur content of 15 ppm as per the non-road diesel fuel sulfur content standard set forth in 40 CFR Part 80.510(b). Compliance shall be demonstrated by either sampling each delivery and conducting an appropriate analysis or by obtaining a certificate of analysis showing the sulfur content or range of sulfur content for each shipment of non-road diesel fuel provided by the fuel supplier. In either case, the owner or operator must verify that any required fuel analysis has been conducted using methodology acceptable to the Department. Records of all certificates of analysis provided by the fuel supplier and on-site fuel sampling results must be maintained on site for a minimum of five years.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2013.  
Subsequent reports are due every 6 calendar month(s).

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**Condition 28: Compliance Certification**

Effective between the dates of 08/23/2012 and 08/22/2017

**Applicable Federal Requirement: 40CFR 60.4207(b), NSPS Subpart III**

**Item 28.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 28.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Beginning October 1, 2010, the owner or operator of a stationary compression ignition internal combustion engine displacing less than 30 liters per cylinder and which is subject to the requirements of subpart III of 40 CFR Part 60 may not fire diesel fuel;

(a) below a minimum cetane index of 40 as referenced in 40 CFR Part 80.510(b). Compliance shall be demonstrated by either sampling each delivery and conducting an appropriate analysis or by obtaining a certificate of analysis showing the cetane index for each shipment of diesel fuel provided by the fuel supplier. In either case, the owner or operator must verify that any required fuel analysis has been conducted using methodology acceptable to the Department. Records of all certificates of analysis provided by the fuel supplier and on-site fuel sampling results must be maintained on site for a minimum of five years.

or

(b) above a maximum aromatic content of 35 percent per gallon as referenced in 40 CFR Part 80.510(b). Compliance shall be demonstrated by either sampling each delivery and conducting an appropriate analysis or by obtaining a certificate of analysis showing the aromatic content for each shipment of diesel fuel provided by the fuel supplier. In either case, the owner or operator must verify that any required fuel analysis has been conducted using methodology acceptable to the Department. Records of all certificates of analysis provided by the fuel supplier and on-site fuel sampling results must be maintained on site for a minimum of five years.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2013.

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



**Condition 29: Compliance Certification**  
Effective between the dates of 08/23/2012 and 08/22/2017

**Applicable Federal Requirement:40CFR 60.4209(a), NSPS Subpart III**

**Item 29.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 29.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an emergency stationary compression ignition IC engine must install and maintain a non-resettable hour meter prior to startup to monitor engine usage.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2013.

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

**Condition 30: Compliance Certification**  
Effective between the dates of 08/23/2012 and 08/22/2017

**Applicable Federal Requirement:40CFR 60.4211(c), NSPS Subpart III**

**Item 30.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 30.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners or operators of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in §60.4204(b) or §60.4205(b), or if you are an owner or operator of a CI fire pump engine that is manufactured during or after the model year that applies to your fire pump engine power rating in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), must comply by purchasing an engine certified to the emission standards in §60.4204(b), or §60.4205(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power.

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The engine must be installed and configured according to the manufacturer's specifications.

The manufacturer's certification of compliance with the emission standards specified in 40 CFR 60 Subpart IIII for major pollutants will be sent to the Department prior to commencement of operation of the engines.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 31: Compliance Certification**  
**Effective between the dates of 08/23/2012 and 08/22/2017**

**Applicable Federal Requirement:40CFR 60.4211(e), NSPS Subpart IIII**

**Item 31.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 31.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. For owners and operators of emergency engines meeting standards under §60.4205 but not §60.4204, any operation other than emergency operation, and maintenance and testing as permitted in this section, is prohibited.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2013.

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

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



**Condition 32: Emission Point Definition By Emission Unit**  
Effective between the dates of 08/23/2012 and 08/22/2017

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

**Item 32.1(From Mod 1):**

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

Emission Unit: S-00001

Emission Point: 00008  
Height (ft.): 35 Diameter (in.): 1  
NYTMN (km.): 4522.932 NYTME (km.): 594.405 Building: AHC

Emission Point: 00009  
Height (ft.): 35 Diameter (in.): 3  
NYTMN (km.): 4522.759 NYTME (km.): 594.532 Building: AHC

**Item 32.2(From Mod 0):**

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

Emission Unit: 1-00001

Emission Point: 00001  
Height (ft.): 30 Length (in.): 20 Width (in.): 20  
NYTMN (km.): 4522.759 NYTME (km.): 594.532 Building: FARM

**Item 32.3(From Mod 0):**

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

Emission Unit: C-00001

Emission Point: 00108  
Height (ft.): 42 Diameter (in.): 14  
NYTMN (km.): 4523. NYTME (km.): 594.2 Building: JWC

Emission Point: 00208  
Height (ft.): 42 Diameter (in.): 14  
NYTMN (km.): 4523. NYTME (km.): 594.2 Building: JWC

Emission Point: 00312  
Height (ft.): 42 Diameter (in.): 18  
NYTMN (km.): 4523. NYTME (km.): 594.2 Building: JWC

Emission Point: 00416  
Height (ft.): 42 Diameter (in.): 24  
NYTMN (km.): 4523. NYTME (km.): 594.2 Building: JWC

**Item 32.4(From Mod 0):**

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



Emission Unit: G-00001

Emission Point: 00010  
Height (ft.): 16 Diameter (in.): 20  
NYTMN (km.): 4522.759 NYTME (km.): 594.532 Building: CGC

Emission Point: 00011  
Height (ft.): 16 Diameter (in.): 20  
NYTMN (km.): 4522.759 NYTME (km.): 594.532 Building: CGC

Emission Point: 00012  
Height (ft.): 8 Diameter (in.): 8  
NYTMN (km.): 4522.759 NYTME (km.): 594.532 Building: CGC

Emission Point: 00013  
Height (ft.): 8 Diameter (in.): 8  
NYTMN (km.): 4522.759 NYTME (km.): 594.532 Building: CGC

**Condition 33: Process Definition By Emission Unit  
Effective between the dates of 08/23/2012 and 08/22/2017**

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

**Item 33.1(From Mod 1):**

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

Emission Unit: S-00001  
Process: 00S Source Classification Code: 3-15-020-01  
Process Description:  
This process represents the use of ethylene oxide (EtO)  
in the two sterilization units.

Emission Source/Control: STER1 - Process  
Design Capacity: 17.6 grams per day

Emission Source/Control: STER2 - Process  
Design Capacity: 110 grams per day

**Item 33.2(From Mod 0):**

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

Emission Unit: 1-00001  
Process: 00A Source Classification Code: 5-02-001-02  
Process Description:

The farm incinerator is used to dispose of animal carcasses and animal tissues, and a small amount of clear plastic bags, latex gloves and paper used during necropsy procedures (less than 5% by weight). The farm incinerator is fired and used on an "as needed basis" (which at present is approximately three times per month) and runs for approximately five hours per operation. At all other times, the farm incinerator is in shut-down mode and is

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not running or fired. The actual hours/days of operation and quantity of material incinerated at the farm incinerator typically are much less than its design capacity and the limitations imposed under the NYCDEP certificate of operation.

Emission Source/Control: 00001 - Incinerator  
Design Capacity: 2,400 pounds per day  
Waste Feed Method: MANUAL DIRECT FEED  
Waste Type: CREMATORY WASTE (INCLUDING HUMAN AND/OR ANIMAL BODY PARTS AND ASSOCIATED ANIMAL BEDDING) ONLY

**Item 33.3(From Mod 0):**

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

Emission Unit: C-00001  
Process: 003 Source Classification Code: 2-03-002-04  
Process Description:

The cogen plant will consist of four (4) 100% natural gas-fired (spark ignition) endyn cleanburn engines - two (2) 8 cylinder engines, one 12 cylinder engine and one 16 cylinder engine and associated waste heat boilers for the production of electricity and hot water for the Bronx Zoo.

Emission Source/Control: 00108 - Combustion  
Design Capacity: 895 brake horsepower

Emission Source/Control: 00208 - Combustion  
Design Capacity: 895 brake horsepower

Emission Source/Control: 00312 - Combustion  
Design Capacity: 1,650 brake horsepower

Emission Source/Control: 00416 - Combustion  
Design Capacity: 2,200 brake horsepower

**Item 33.4(From Mod 0):**

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

Emission Unit: E-00001  
Process: 0EG Source Classification Code: 2-03-001-07  
Process Description: Emergency generators on distillate oil.

Emission Source/Control: 0EMG1 - Combustion

Emission Source/Control: 0EMG2 - Combustion

Emission Source/Control: 0EMG3 - Combustion

Emission Source/Control: 0EMG4 - Combustion



Emission Source/Control: OEMG5 - Combustion

**Item 33.5(From Mod 0):**

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

Emission Unit: G-00001

Process: G10

Source Classification Code: 2-03-002-03

Process Description:

Natural gas fueled 8 microturbines turbines to provide heating, cooling, electriciy for the CGC building.

Emission Source/Control: 00010 - Combustion

Design Capacity: 60 kilowatts

Emission Source/Control: 00020 - Combustion

Design Capacity: 60 kilowatts

Emission Source/Control: 00021 - Combustion

Design Capacity: 60 kilowatts

Emission Source/Control: 00022 - Combustion

Design Capacity: 60 kilowatts

Emission Source/Control: 00023 - Combustion

Design Capacity: 60 kilowatts

Emission Source/Control: 00024 - Combustion

Design Capacity: 60 kilowatts

Emission Source/Control: 00025 - Combustion

Design Capacity: 60 kilowatts

Emission Source/Control: 00026 - Combustion

Design Capacity: 60 kilowatts

**Condition 34: Emission Unit Permissible Emissions**

**Effective between the dates of 08/23/2012 and 08/22/2017**

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

**Item 34.1:**

The sum of emissions from all regulated processes specified in this permit for the emission unit cited

shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit: G-00001

CAS No: 0NY210000 (From Mod 0)

Name: OXIDES OF NITROGEN

PTE(s): 16,663 pounds per year

**New York State Department of Environmental Conservation**

Permit ID: 2-6005-00125/00003

Facility DEC ID: 2600500125



**Condition 35: Gasoline Tanks  $\geq$  250 Gallons Installed after 1/1/79**  
**Required Stage 1 in NYCMA**  
**Effective between the dates of 08/23/2012 and 08/22/2017**

**Applicable Federal Requirement:6 NYCRR 230.2 (b)**

**Item 35.1:**  
(this space used for Emission Unit)

**Item 35.2:**  
Gasoline tanks greater than or equal to 250 gallons and installed after January 1, 1979 are required to install Stage I vapor collection systems in NYCMA.

**Condition 36: Capping Monitoring Condition**  
**Effective between the dates of 08/23/2012 and 08/22/2017**

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

**Item 36.1:**  
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 231-2

**Item 36.2:**  
Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

**Item 36.3:**  
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 36.4:**  
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 36.5:**  
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 36.6:**  
The Compliance Certification activity will be performed for:



Emission Unit: C-00001

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

**Item 36.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

All the new rebuilt 100% natural gas fired (EnDyn Cleanburn) cogeneration engines with 1.5 gms of NO<sub>x</sub>/bhp-hr are installed and are in full operation. Emission Unit C-00001 will be subject to a cap of 84.2 tons per year of NO<sub>x</sub> and to the monitoring requirements as set forth below in this condition.

Engine #1 895 BHP, 8 cylinder, EnDyn Cleanburn 8 GTLX, 1.5 gm/bhp-hr, 14.2 tpy of NO<sub>x</sub>

Engine #2 - 895 BHP, 8 cylinder, EnDyn Cleanburn 8 GTLX, 1.5 gm/bhp-hr, 14.2 tpy of NO<sub>x</sub>

Engine #3 - 1650 BHP, 12 cylinder, EnDyn Cleanburn 12 GTLX, 1.5 gm/bhp-hr, 23.9 tpy of NO<sub>x</sub>

Engine #4 - 2200 BHP, 16 cylinder, EnDyn Cleanburn 16 GTLX, 1.5 gm/bhp-hr, 31.9 tpy of NO<sub>x</sub>

Total 84.2 tons per year of NO<sub>x</sub>

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NATURAL GAS

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 84.2 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: 12 MONTH AVERAGE - ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2013.

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

**Condition 37: Compliance Certification**  
**Effective between the dates of 08/23/2012 and 08/22/2017**

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

**Item 37.1:**

**New York State Department of Environmental Conservation**

Permit ID: 2-6005-00125/00003

Facility DEC ID: 2600500125



The Compliance Certification activity will be performed for:

Emission Unit: C-00001

**Item 37.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No owner or operator of a combustion installation shall operate the installation in such a way to emit greater than 20 percent opacity except for one six minute 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.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: ANNUALLY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2013.

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

**Condition 52: Compliance Certification**

Effective between the dates of 08/23/2012 and 08/22/2017

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

**Item 52.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: C-00001

Process: 003

Emission Source: 00108

Emission Unit: C-00001

Process: 003

Emission Source: 00208

Emission Unit: C-00001

Process: 003

Emission Source: 00312

Emission Unit: C-00001

Process: 003

Emission Source: 00416

Regulated Contaminant(s):

CAS No: 0NY210-00-0

OXIDES OF NITROGEN

**Item 52.2:**

**New York State Department of Environmental Conservation**

Permit ID: 2-6005-00125/00003

Facility DEC ID: 2600500125



Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition applies to stationary internal combustion engines that have a maximum mechanical output rating equal to or greater than 200 brake horsepower in a severe ozone nonattainment area or 400 brake horsepower outside a severe ozone nonattainment area and are fired by natural gas. The owner or operator is required to submit a compliance testing protocol to the department for approval at least 30 days prior to testing. The owner or operator will maintain all records on-site for a minimum of five years.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 1.5 grams per brake horsepower-hour

Reference Test Method: 40 CFR 60 Appendix A - Method 7, 7E, or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2013.

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

**Condition 38: Capping Monitoring Condition**

**Effective between the dates of 08/23/2012 and 08/22/2017**

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

**Item 38.1:**

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 231-6.1

**Item 38.2:**

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

**Item 38.3:**

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 38.4:**

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the

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facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

**Item 38.5:**

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 38.6:**

The Compliance Certification activity will be performed for:

Emission Unit: E-00001

Regulated Contaminant(s):

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

**Item 38.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

NOx emissions from five emergency generators listed in this emission unit are limited to 5.4 tons per year.

Facility should calculate total monthly NOx emission of emergency generators listed in this emission unit using approved emission factors, operation hours and fuel usage

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2013.

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

**Condition 39: Compliance Certification**

**Effective between the dates of 08/23/2012 and 08/22/2017**

**Applicable Federal Requirement:40CFR 60.4205(b), NSPS Subpart III**

**Item 39.1:**

The Compliance Certification activity will be performed for:

Emission Unit: E-00001

**Item 39.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES



Monitoring Description:

The owner or operator of a 2007 model year or later emergency stationary compression ignition (CI) internal combustion engine with a maximum engine power less than or equal to 2,237 kW (3,000 HP) that is not a fire pump engine and has a displacement of less than 10 liters/cylinder will require certification to the following emission standards:

1. For engines with a maximum engine power less than 37 kW (50 HP):
  - 2007 model year engines - emission standards specified in 40 CFR 89.112 and 40CFR 89.113, as applicable,
  - 2008 model year and later - emission standards specified in 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable.
2. For engines with a maximum engine power greater than or equal to 37 kW (50 HP):
  - 2007 model year and later - emission standards specified in 40 CFR 89.112 and 40CFR 89.113, as applicable, for all pollutants, for the same model year and maximum engine power.

Compliance with this requirement will be established by purchasing an engine certified to the applicable emission standard referenced above and installed and configured according to the manufacturer's specifications. Records documenting these actions must be kept on-site.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2013.

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

**Condition 41: Compliance Certification**  
**Effective between the dates of 08/23/2012 and 08/22/2017**

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

**Item 41.1:**

The Compliance Certification activity will be performed for:

Emission Unit: G-00001

**Item 41.2:**

Compliance Certification shall include the following monitoring:

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

**New York State Department of Environmental Conservation**

Permit ID: 2-6005-00125/00003

Facility DEC ID: 2600500125



**Monitoring Description:**

No owner or operator of a combustion installation shall operate the installation in such a way to emit greater than 20 percent opacity except for one six minute 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.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: ANNUALLY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2013.

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

**Condition 40: Capping Monitoring Condition**  
**Effective between the dates of 08/23/2012 and 08/22/2017**

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

**Item 40.1:**

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 231-6.1

**Item 40.2:**

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

**Item 40.3:**

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 40.4:**

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 40.5:**

The emission of pollutants that exceed the applicability thresholds for an applicable requirement,



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Emission Unit: G-00001

Process: G10

Emission Source: 00023

Emission Unit: G-00001

Process: G10

Emission Source: 00024

Emission Unit: G-00001

Process: G10

Emission Source: 00025

Emission Unit: G-00001

Process: G10

Emission Source: 00026

Regulated Contaminant(s):

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

**Item 53.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a small boiler, small combustion turbine, or small internal combustion engine must perform an annual tune-up of their equipment. This tune-up should be performed in accordance with the requirements of the DAR-5 guidance document. Records of each tune-up must be kept on-site for a minimum of five years.

Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2013.

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

**Condition 1-14: Compliance Certification**

**Effective between the dates of 11/05/2013 and 08/22/2017**

**Applicable Federal Requirement:6 NYCRR 212.6 (a)**

**Item 1-14.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

**Item 1-14.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

No person shall cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source,

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except only the emission of uncombined water. Compliance with this requirement shall be determined by the facility owner/operator conducting a daily survey of visible emissions whenever sterilizers are in operation. If any visible emissions are identified, corrective action is required. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation.

If the process does not experience any visible emission problems during the first year of operation, then the monitoring frequency can be changed to upon request by the Department.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

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

**Condition 1-15: Management practice standard**  
**Effective between the dates of 11/05/2013 and 08/22/2017**

**Applicable Federal Requirement:40CFR 63.10390, Subpart WWWW**

**Item 1-15.1:**  
This Condition applies to Emission Unit: S-00001

**Item 1-15.2:**  
The facility must sterilize full loads of items having a common aeration time, except under medically necessary circumstances, as that term is defined in §63.10448.

**Condition 1-16: Compliance Certification**  
**Effective between the dates of 11/05/2013 and 08/22/2017**

**Applicable Federal Requirement:40CFR 63.10420, Subpart WWWW**

**Item 1-16.1:**  
The Compliance Certification activity will be performed for the facility:  
The Compliance Certification applies to:

Emission Unit: S-00001

Process: 00S

Emission Source: STER1

Regulated Contaminant(s):

CAS No: 000075-21-8

ETHYLENE OXIDE

**Item 1-16.2:**  
Compliance Certification shall include the following monitoring:

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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For each sterilization unit not equipped with an air pollution control device, the facility must demonstrate continuous compliance with the management practice standard in §63.10390 by recording the date and time of each sterilization cycle, whether each sterilization cycle contains a full load of items, and if not, a statement from a hospital central services staff, a hospital administrator, or a physician that it was medically necessary.

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

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

**Condition 1-17: Compliance Certification**  
**Effective between the dates of 11/05/2013 and 08/22/2017**

**Applicable Federal Requirement:40CFR 63.10432, Subpart WWWW**

**Item 1-17.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Regulated Contaminant(s):

CAS No: 000075-21-8 ETHYLENE OXIDE

**Item 1-17.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must keep the following records:

(a) A copy of the Initial Notification of Compliance Status that you submitted to comply with this subpart.

(b) Records required by §63.10420 for each sterilization unit not equipped with an air pollution control device.

The facility records must be in a form suitable and readily available for expeditious review, and the facility must keep each record for 5 years following the date of each record. Records must be kept onsite for at least 2 years after the date of each record and may be kept offsite for the remaining 3 years.

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Facility DEC ID: 2600500125



Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

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

**Condition 1-18: Compliance Certification**

Effective between the dates of 11/05/2013 and 08/22/2017

**Applicable Federal Requirement:6 NYCRR 212.4**

**Item 1-18.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Process: 00S

Emission Source: STER2

Regulated Contaminant(s):

CAS No: 000075-21-8

ETHYLENE OXIDE

**Item 1-18.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility shall reduce Ethylene oxide emissions by 99% destruction efficiency by using an abator. Maintenance of EtO's shall be performed as per manufacturer recommendations and the abator shall be serviced at least annually. All records shall be maintained on-site for at least five years.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

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



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

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

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

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

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

**STATE ONLY APPLICABLE REQUIREMENTS**

**The following conditions are state applicable requirements and are not subject to compliance certification requirements unless otherwise noted or required under 6 NYCRR Part 201.**

**Condition 42: Contaminant List**  
**Effective between the dates of 08/23/2012 and 08/22/2017**

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

**Item 42.1:**

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

CAS No: 000075-21-8  
Name: ETHYLENE OXIDE



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

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

**Condition 1-19: Malfunctions and start-up/shutdown activities**  
**Effective between the dates of 11/05/2013 and 08/22/2017**

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

**Item 1-19.1:**

(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 44: Compliance Demonstration**  
**Effective between the dates of 08/23/2012 and 08/22/2017**

**Applicable State Requirement:6 NYCRR 231-1.5**

**New York State Department of Environmental Conservation**

Permit ID: 2-6005-00125/00003

Facility DEC ID: 2600500125



**Item 44.1:**

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

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

**Item 44.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In accordance with 231-1.5, the applicant has permanently secured Emission reduction Credit (ERC) for its Oxides of Nitrogen (NO<sub>x</sub>) emissions of 171.2 tons per year (tpy) from the following sources.

1. Keyspan (DEC ID:1-2822-00481, Emission Unit ID: U00018/U00019) - 78.36 tpy of NO<sub>x</sub>
2. Oceanside (DEC ID:1-2820-02479, Emission Unit ID: ET003/ET007/ET008) - 15.86 tpy of NO<sub>x</sub>
3. Old Bethpage Landfill Gas Recovery (DEC ID:1-2824-00077, Emission Unit ID: 27/29) - 15.06 tpy of NO<sub>x</sub>
4. Smithtown (DEC ID:1-4734-00169, Emission Unit ID: 22) - 12.82 tpy of NO<sub>x</sub>
5. Ramapo (DEC ID:2-6301-00006, Emission Unit ID: from ConEd, Astoria) - 49.10 tpy of NO<sub>x</sub>

All 171.2 tpy of NO<sub>x</sub> ERCs from these sources have been obtained and applied to offset the project emission potential associated with the construction of engine 4 on or about 1995 and Maximum Annual Potential (MAP) of 131.2 tpy of NO<sub>x</sub> has been established. The facility has to maintain the credit and MAP at all the times. The Department has accepted this in full satisfaction of the requirement to obtain offset to account for the construction of engine 4.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2013.

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



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

**Condition 45: Compliance Demonstration**  
Effective between the dates of 08/23/2012 and 08/22/2017

**Applicable State Requirement:6 NYCRR 219-4.3**

**Item 45.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-00001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 45.2:**

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 of particulates into the outdoor atmosphere from any emission source located in a crematory facility in excess of 0.08 grains per dry standard cubic foot of flue gas, corrected to seven percent oxygen.

A stack test shall be performed to demonstrate compliance with this limit, upon request from the Department, using a Department approved test protocol.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.08 grains per dry standard cubic  
foot (corrected to 7% O<sub>2</sub>)

Reference Test Method: EPA Reference 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 7/30/2013.

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

**Condition 46: Compliance Demonstration**  
Effective between the dates of 08/23/2012 and 08/22/2017

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

**Item 46.1:**

The Compliance Demonstration activity will be performed for:

New York State Department of Environmental Conservation

Permit ID: 2-6005-00125/00003

Facility DEC ID: 2600500125



Emission Unit: 1-00001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 46.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

No person may cause or allow emissions to the outdoor atmosphere having a six-minute average opacity of 10 percent or greater from any emission source subject to these requirements. A Method 9 test shall be performed upon request by the Department

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2013.

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

**Condition 47: Compliance Demonstration**

**Effective between the dates of 08/23/2012 and 08/22/2017**

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

**Item 47.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-00001

**Item 47.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The incinerator ramp-up time for initial start-up to full "steady state"operation shall be 2 hours as determined during the approved April 2008 stack test.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2013.

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

**Condition 48: This section describes other wastes that can and can not**



**be burned in a crematory.**

**Effective between the dates of 08/23/2012 and 08/22/2017**

**Applicable State Requirement:6 NYCRR 219-4.6**

**Item 48.1:**

This Condition applies to Emission Unit: 1-00001

**Item 48.2:**

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

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

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

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

**Condition 49: Operator training and certification requirements.**

**Effective between the dates of 08/23/2012 and 08/22/2017**

**Applicable State Requirement:6 NYCRR 219-4.10**

**Item 49.1:**

This Condition applies to Emission Unit: 1-00001

**Item 49.2:**

(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 50: Compliance Demonstration**

**Effective between the dates of 08/23/2012 and 08/22/2017**

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

**Item 50.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-00001



Process: 00A

Emission Source: 00001

**Item 50.2:**

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 51: Compliance Demonstration**  
**Effective between the dates of 08/23/2012 and 08/22/2017**

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

**Item 51.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-00001

Process: 00A

Emission Source: 00001

**Item 51.2:**

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

