



**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: 08/31/2007 Expiration Date: 08/30/2012  
Mod 1 Effective Date: 08/20/2010 Expiration Date: 08/30/2012

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 New York City and operated by the Wildlife Conservation Society (WCS). The facility operates a cogeneration plant, an incinerator and a microturbine plant at the Center for Global Conservation (CGC) building consisting of eight microturbines and exempt sources such as small boilers, emergency generators, and maintenance, laboratory and graphics operations.

With this permit modification the applicant has proposed to restrict the operation of microturbines at the Center for Global Conservation (CGC) building to 38% (23KW) load or greater, after start up, to achieve compliance with a permit that establishes an emission limit of 9 parts per million by volume (ppmvd) NO<sub>x</sub>.

**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
  - Applications for Permit Renewals and Modifications
  - Permit modifications, suspensions or revocations by the Department
  - Permit modifications, suspensions or revocations by the Department
  - Permit Modifications, Suspensions and 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: Applications for Permit Renewals and Modifications**  
**Applicable State Requirement: 6 NYCRR 621.13**

**Item 4.1:**

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

**Item 4.2:**

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 4.3:**

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

**Item 5.1:**

The Department reserves the right 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.

**Condition 1-1: Permit modifications, suspensions or revocations by the Department**  
**Applicable State Requirement: 6 NYCRR 621.13**

**Item 1-1.1:**

The Department reserves the right 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.

**Condition 6: Permit Modifications, Suspensions and Revocations by the Department**  
**Applicable State Requirement: 6 NYCRR 621.14**

**Item 6.1:**

The Department reserves the right 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 7: Submission of application for permit modification or renewal - REGION 2 HEADQUARTERS**  
**Applicable State Requirement: 6 NYCRR 621.6 (a)**

**Item 7.1:**

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**

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2300 SOUTHERN BLVD  
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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: 08/31/2007

Permit Expiration Date: 08/30/2012

Mod 1 Permit Effective Date: 08/20/2010

Permit Expiration Date: 08/30/2012



## LIST OF CONDITIONS

### FEDERALLY ENFORCEABLE CONDITIONS

#### Facility Level

- 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
- 2 6 NYCRR 201-6.5 (a) (7): Fees
- 3 6 NYCRR 201-6.5 (c): Recordkeeping and reporting of compliance monitoring
- 4 6 NYCRR 201-6.5 (c) (2): Monitoring, Related Recordkeeping, and Reporting Requirements.
- 5 6 NYCRR 201-6.5 (c) (3) (ii): Compliance Certification
- 6 6 NYCRR 201-6.5 (e): Compliance Certification
- 7 6 NYCRR 202-2.1: Compliance Certification
- 8 6 NYCRR 202-2.5: Recordkeeping requirements
- 1-1 6 NYCRR 215.2: Open Fires - Prohibitions
- 10 6 NYCRR 200.7: Maintenance of Equipment
- 11 6 NYCRR 201-1.7: Recycling and Salvage
- 12 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
- 13 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
- 14 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 15 6 NYCRR 201-6.5 (a) (4): Standard Requirement - Provide Information
- 16 6 NYCRR 201-6.5 (a) (8): General Condition - Right to Inspect
- 17 6 NYCRR 201-6.5 (d) (5): Standard Requirements - Progress Reports
- 18 6 NYCRR 201-6.5 (f) (6): Off Permit Changes
- 1-2 6 NYCRR 202-1.1: Required Emissions Tests
- 20 6 NYCRR 211.3: Visible Emissions Limited
- 21 40 CFR Part 68: Accidental release provisions.
- 22 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 23 6 NYCRR Subpart 201-6: Emission Unit Definition
- 24 6 NYCRR 225.1 (a) (3): Compliance Certification
- 25 6 NYCRR 225.7 (a): Compliance Certification
- 27 6 NYCRR 230.2 (b): Gasoline Tanks  $\geq$  250 Gallons Installed after 1/1/79 Required Stage 1 in NYCMA
- 28 40CFR 60, NSPS Subpart A: Applicability of Subpart A General Provisions

#### Emission Unit Level

- 29 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 30 6 NYCRR Subpart 201-6: Process Definition By Emission Unit
- 31 6 NYCRR 201-7.1: Emission Unit Permissible Emissions
- 32 6 NYCRR 201-7.1: Process Permissible Emissions

#### EU=C-00001

- \*1-3 6 NYCRR 201-7.1: Capping Monitoring Condition
- 34 6 NYCRR 227-1.3: Compliance Certification
- 35 6 NYCRR 227-1.3 (a): Compliance Certification

#### EU=C-00001,Proc=003,ES=00108

- 36 6 NYCRR 227-2.4 (f) (2): Compliance Certification

#### EU=C-00001,Proc=003,ES=00208



37 6 NYCRR 227-2.4 (f) (2): Compliance Certification

**EU=C-00001,Proc=003,ES=00312**

38 6 NYCRR 227-2.4 (f) (2): Compliance Certification

**EU=C-00001,Proc=003,ES=00416**

39 6 NYCRR 227-2.4 (f) (2): Compliance Certification

**EU=G-00001**

40 6 NYCRR Part 212: Compliance Certification

41 6 NYCRR 212.6 (a): Compliance Certification

42 6 NYCRR 227-2.4 (g): Compliance Certification

43 6 NYCRR 227-2.4 (g) (1): Compliance Certification

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

1-4 6 NYCRR 227-2.4 (g): Compliance Certification

1-5 6 NYCRR 227-2.4 (g): Compliance Plan

**STATE ONLY ENFORCEABLE CONDITIONS**

**Facility Level**

44 ECL 19-0301: Contaminant List

1-6 6 NYCRR 201-1.4: Unavoidable noncompliance and violations

1-7 6 NYCRR 211.2: Air pollution prohibited

48 6 NYCRR 231-1.5: Compliance Demonstration

**Emission Unit Level**

**EU=1-00001**

49 6 NYCRR 219-4.3: Compliance Demonstration

50 6 NYCRR 219-4.5 (a): Compliance Demonstration

51 6 NYCRR 219-4.5 (a): Compliance Demonstration

1-8 6 NYCRR 219-4.10: Operator training and certification requirements.

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

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

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

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

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

**Item 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 201-6.3 (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 201-6.3 (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 201-6.5 (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 201-6.5 (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 201-6.5 (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 201-6.5 (a) (6)**

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



**Item I: Severability - 6 NYCRR 201-6.5 (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 201-6.5 (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 201-6.5 (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 08/31/2007 and 08/30/2012**

**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 2: Fees**  
**Effective between the dates of 08/31/2007 and 08/30/2012**

**Applicable Federal Requirement:6 NYCRR 201-6.5 (a) (7)**

**Item 2.1:**  
The owner and/or operator of a stationary source shall pay fees to the Department consistent with the fee schedule authorized by ECL 72-0302.

**Condition 3: Recordkeeping and reporting of compliance monitoring**  
**Effective between the dates of 08/31/2007 and 08/30/2012**

**Applicable Federal Requirement:6 NYCRR 201-6.5 (c)**

**Item 3.1:**



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 201-6.3 of this Part 201.

**Condition 4: Monitoring, Related Recordkeeping, and Reporting Requirements.**

**Effective between the dates of 08/31/2007 and 08/30/2012**

**Applicable Federal Requirement: 6 NYCRR 201-6.5 (c) (2)**

**Item 4.1:**

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 5: Compliance Certification**

**Effective between the dates of 08/31/2007 and 08/30/2012**

**Applicable Federal Requirement: 6 NYCRR 201-6.5 (c) (3) (ii)**

**Item 5.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 5.2:**

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 Hotline phone number at 1-800-457-7362 shall be used. A



written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.3(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 201-6.5(e), contained elsewhere in this permit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2008.  
Subsequent reports are due every 6 calendar month(s).



**Condition 6: Compliance Certification**  
Effective between the dates of 08/31/2007 and 08/30/2012

**Applicable Federal Requirement: 6 NYCRR 201-6.5 (e)**

**Item 6.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 6.2:**

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 recordkeeping 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

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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 45 days after the reporting period.  
The initial report is due 8/14/2008.  
Subsequent reports are due on the same day each year

**Condition 7: Compliance Certification**  
**Effective between the dates of 08/31/2007 and 08/30/2012**

**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 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 08/31/2007 and 08/30/2012**

**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 1-1: Open Fires - Prohibitions**  
**Effective between the dates of 08/20/2010 and 08/30/2012**

**Applicable Federal Requirement:6 NYCRR 215.2**

**Item 1-1.1:**

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 1-1.2**

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 08/31/2007 and 08/30/2012**

**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 11: Recycling and Salvage  
Effective between the dates of 08/31/2007 and 08/30/2012**

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

**Item 11.1:**

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



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

**Effective between the dates of 08/31/2007 and 08/30/2012**

**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 13: Exempt Sources - Proof of Eligibility**

**Effective between the dates of 08/31/2007 and 08/30/2012**

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

**Item 13.1:**

The owner and/or operator of an emission source or unit that is eligible to be exempt may be required to certify that it operates within the specific criteria described in this Subpart. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 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.

**Condition 14: Trivial Sources - Proof of Eligibility**

**Effective between the dates of 08/31/2007 and 08/30/2012**

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

**Item 14.1:**

The owner and/or operator of an emission source or unit that is listed as being trivial in this Part may be required to certify that it operates within the specific criteria described in this Subpart. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 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.

**Condition 15: Standard Requirement - Provide Information**

**Effective between the dates of 08/31/2007 and 08/30/2012**

**Applicable Federal Requirement:6 NYCRR 201-6.5 (a) (4)**

**Item 15.1:**

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





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 201-6.6 shall not apply to any change made pursuant to this paragraph.

**Condition 1-2: Required Emissions Tests**  
**Effective between the dates of 08/20/2010 and 08/30/2012**

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

**Item 1-2.1:**

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: Visible Emissions Limited**  
**Effective between the dates of 08/31/2007 and 08/30/2012**

**Applicable Federal Requirement:6 NYCRR 211.3**

**Item 20.1:**

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

**Condition 21: Accidental release provisions.**  
**Effective between the dates of 08/31/2007 and 08/30/2012**

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

**Item 21.1:**

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 22:     Recycling and Emissions Reduction**  
**Effective between the dates of 08/31/2007 and 08/30/2012**

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

**Item 22.1:**

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 08/31/2007 and 08/30/2012**

**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: 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 (as far from the burner as possible) and the second is located at the exit of the secondary chamber.



Building(s): FARM

**Item 23.2(From Mod 1):**

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

Emission Unit: C-00001

Emission Unit Description:

This emissions unit (hereinafter the "cogen plant") presently consists of four (4) dual fuel (natural gas/diesel fuel) lean burn internal combustion engines/generators with waste heat boilers. 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 (spark ignition) endyn cleanburn engines of the same size. 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.

Building(s): JWC

**Item 23.3(From Mod 1):**

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 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 will be directed connected to 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 microturbines units are stand-alone and independent of the PureComfort Model 360M, and will provide peak electrical generation. None of the 8 microturbines will be connected to the internal WCS electrical grid or Con Ed grid.

Building(s): CGC

**Condition 24: Compliance Certification**

**Effective between the dates of 08/31/2007 and 08/30/2012**

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

**Item 24.1:**

The Compliance Certification activity will be performed for the Facility.

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**Item 24.2:**

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 1/30/2008.

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

**Condition 25: Compliance Certification**

**Effective between the dates of 08/31/2007 and 08/30/2012**

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

**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: 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 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 1/30/2008.

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

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Condition 27: Gasoline Tanks >= 250 Gallons Installed after 1/1/79  
Required Stage 1 in NYCMA  
Effective between the dates of 08/31/2007 and 08/30/2012

Applicable Federal Requirement:6 NYCRR 230.2 (b)

Item 27.1:

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 28: Applicability of Subpart A General Provisions  
Effective between the dates of 08/31/2007 and 08/30/2012

Applicable Federal Requirement:40CFR 60, NSPS Subpart A

Item 28.1:

This emission source is subject to the applicable general provisions of 40 CFR 60. The facility owner is responsible for complying with all applicable technical, administrative and reporting requirements.

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

Condition 29: Emission Point Definition By Emission Unit  
Effective between the dates of 08/31/2007 and 08/30/2012

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 29.1(From Mod 1):

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 29.2(From Mod 1):

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 29.3(From Mod 1):**

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 30: Process Definition By Emission Unit  
Effective between the dates of 08/31/2007 and 08/30/2012**

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

**Item 30.1(From Mod 1):**

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 once per month) and runs for approximately five hours per operation. At all other times, the farm incinerator is in shut-down mode and is 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 30.2(From Mod 1):**

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 30.3(From Mod 1):**

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, electricity 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 31: Emission Unit Permissible Emissions**  
**Effective between the dates of 08/31/2007 and 08/30/2012**

**Applicable Federal Requirement:6 NYCRR 201-7.1**

**Item 31.1:**

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 1)

Name: OXIDES OF NITROGEN

PTE(s): 0.24 pounds per hour

2,102 pounds per year

**Condition 32: Process Permissible Emissions**  
**Effective between the dates of 08/31/2007 and 08/30/2012**

**Applicable Federal Requirement:6 NYCRR 201-7.1**

**Item 32.1:**

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

Emission Unit: G-00001 Process: G10

CAS No: 0NY210-00-0 (From Mod 1)

Name: OXIDES OF NITROGEN

PTE(s): 0.24 pounds per hour

2,102 pounds per year

**Condition 1-3: Capping Monitoring Condition**  
**Effective between the dates of 08/20/2010 and 08/30/2012**

**Applicable Federal Requirement:6 NYCRR 201-7.1**

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**Item 1-3.1:**

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

6 NYCRR Subpart 231-2

**Item 1-3.2:**

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

**Item 1-3.3:**

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

**Item 1-3.4:**

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

**Item 1-3.5:**

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

**Item 1-3.6:**

The Compliance Certification activity will be performed for:

Emission Unit: C-00001

Regulated Contaminant(s):

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

**Item 1-3.7:**

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 NOx/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 NOx 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 NOx

Engine #2 - 895 BHP, 8 cylinder, EnDyn Cleanburn 8 GTLX, 1.5 gm/bhp-hr, 14.2 tpy of NOx

Engine #3 - 1650 BHP, 12 cylinder, EnDyn Cleanburn 12 GTLX, 1.5 gm/bhp-hr, 23.9 tpy of NOx

Engine #4 - 2200 BHP, 16 cylinder, EnDyn Cleanburn 16 GTLX, 1.5 gm/bhp-hr, 31.9 tpy of NOx

Total 84.2 tons per year of NOx

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 1/30/2011.

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

**Condition 34: Compliance Certification**

**Effective between the dates of 08/31/2007 and 08/30/2012**

**Applicable Federal Requirement:6 NYCRR 227-1.3**

**Item 34.1:**

The Compliance Certification activity will be performed for:

Emission Unit: C-00001

**Item 34.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

1) Observe the stack for each internal combustion engine which is operating on oil once per day for visible emissions. This observation(s) must be conducted during



daylight hours except during adverse weather conditions (fog, rain, or snow).

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

- weather condition
- was a plume observed?

This logbook must be retained at the facility for five (5) years after the date of the last entry.

3) If the operator observes any visible emissions (other than steam - see below) two consecutive days firing oil (the firing of other fuels in between days of firing oil does not count as an interruption in the consecutive days of firing oil), then a Method 9 analysis (based upon a 6-minute mean) of the affected emission point(s) must be conducted within two (2) business days of such occurrence.

The results of the Method 9 analysis must be recorded in the logbook. The operator must contact the Regional Air Pollution Control Engineer within one (1) business day of performing the Method 9 analysis if the opacity standard is contravened. Upon notification, any corrective actions or future compliance schedules shall be presented to the Department for acceptance.

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

Monitoring Frequency: DAILY  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2008.  
Subsequent reports are due every 6 calendar month(s).

**Condition 35: Compliance Certification**  
**Effective between the dates of 08/31/2007 and 08/30/2012**

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

**Item 35.1:**

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Facility DEC ID: 2600500125



The Compliance Certification activity will be performed for:

Emission Unit: C-00001

**Item 35.2:**

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 1/30/2008.

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

**Condition 36: Compliance Certification**

**Effective between the dates of 08/31/2007 and 08/30/2012**

**Applicable Federal Requirement: 6 NYCRR 227-2.4 (f) (2)**

**Item 36.1:**

The Compliance Certification activity will be performed for:

Emission Unit: C-00001

Process: 003

Emission Source: 00108

Regulated Contaminant(s):

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

**Item 36.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NOx emission limit for a lean burn spark ignited natural gas fired stationary internal combustion engine. Stack testing will be required in order to demonstrate compliance with the regulatory standard. The owner or operator must submit a stack test protocol to the Department for approval prior to testing. The owner or

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operator shall submit stack test results, to the Department for approval, within 60 days of stack test completion.

Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 1.5 grams per brake horsepower-hour  
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 37: Compliance Certification**  
**Effective between the dates of 08/31/2007 and 08/30/2012**

**Applicable Federal Requirement:6 NYCRR 227-2.4 (f) (2)**

**Item 37.1:**

The Compliance Certification activity will be performed for:

Emission Unit: C-00001  
Process: 003 Emission Source: 00208

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

**Item 37.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NOx emission limit for a lean burn spark ignited natural gas fired stationary internal combustion engine. Stack testing will be required in order to demonstrate compliance with the regulatory standard. The owner or operator must submit a stack test protocol to the Department for approval prior to testing. The owner or operator shall submit stack test results, to the Department for approval, within 60 days of stack test completion.

Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 1.5 grams per brake horsepower-hour  
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 38: Compliance Certification**  
**Effective between the dates of 08/31/2007 and 08/30/2012**

**Applicable Federal Requirement:6 NYCRR 227-2.4 (f) (2)**

**Item 38.1:**

The Compliance Certification activity will be performed for:



Emission Unit: C-00001  
Process: 003

Emission Source: 00312

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

**Item 38.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NOx emission limit for a lean burn spark ignited natural gas fired stationary internal combustion engine. Stack testing will be required in order to demonstrate compliance with the regulatory standard. The owner or operator must submit a stack test protocol to the Department for approval prior to testing. The owner or operator shall submit stack test results, to the Department for approval, within 60 days of stack test completion.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 1.5 grams per brake horsepower-hour

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 39: Compliance Certification**

**Effective between the dates of 08/31/2007 and 08/30/2012**

**Applicable Federal Requirement:6 NYCRR 227-2.4 (f) (2)**

**Item 39.1:**

The Compliance Certification activity will be performed for:

Emission Unit: C-00001  
Process: 003

Emission Source: 00416

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

**Item 39.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NOx emission limit for a lean burn spark ignited natural gas fired stationary internal combustion engine. Stack testing will be required in order to demonstrate compliance with the regulatory standard. The owner or operator must submit a stack test protocol to the

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Department for approval prior to testing. The owner or operator shall submit stack test results, to the Department for approval, within 60 days of stack test completion.

Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 1.5 grams per brake horsepower-hour  
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 40: Compliance Certification**  
**Effective between the dates of 08/31/2007 and 08/30/2012**

**Applicable Federal Requirement:6 NYCRR Part 212**

**Item 40.1:**

The Compliance Certification activity will be performed for:

Emission Unit: G-00001

Regulated Contaminant(s):  
CAS No: 0NY998-00-0 VOC

**Item 40.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:  
VOC emissions

Parameter Monitored: VOC  
Upper Permit Limit: 4205 pounds per year  
Reference Test Method: epa approved  
Monitoring Frequency: MONTHLY  
Averaging Method: 12-month rolling average  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2008.  
Subsequent reports are due every 6 calendar month(s).

**Condition 41: Compliance Certification**  
**Effective between the dates of 08/31/2007 and 08/30/2012**

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

**Item 41.1:**

The Compliance Certification activity will be performed for:

Emission Unit: G-00001

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**Item 41.2:**

Compliance Certification shall include the following monitoring:

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

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, 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 when the process is 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

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA 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 1/30/2008.

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

**Condition 42: Compliance Certification**

**Effective between the dates of 08/31/2007 and 08/30/2012**

**Applicable Federal Requirement: 6 NYCRR 227-2.4 (g)**

**Item 42.1:**

The Compliance Certification activity will be performed for:

Emission Unit: G-00001

Regulated Contaminant(s):

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

**Item 42.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

A stack test will be performed within 6 months after the microturbine(s), PureComfort Model C360 are installed, for each representative unit, to verify NOx emissions.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 9 parts per million by volume (dry,  
corrected to 15% O<sub>2</sub>)

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Reference Test Method: EPA approved  
Monitoring Frequency: SINGLE OCCURRENCE  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2008.  
Subsequent reports are due every 6 calendar month(s).

**Condition 43: Compliance Certification**  
**Effective between the dates of 08/31/2007 and 08/30/2012**

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

**Item 43.1:**

The Compliance Certification activity will be performed for:

Emission Unit: G-00001

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

**Item 43.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:  
Oxides of Nitrogen emissions

Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 2102 pounds per year  
Reference Test Method: epa approved  
Monitoring Frequency: MONTHLY  
Averaging Method: 12-month rolling average  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2008.  
Subsequent reports are due every 6 calendar month(s).

**Condition 1-4: Compliance Certification**  
**Effective between the dates of 08/20/2010 and 08/30/2012**

**Applicable Federal Requirement:6 NYCRR 227-2.4 (g)**

**Item 1-4.1:**

The Compliance Certification activity will be performed for:

Emission Unit: G-00001  
Process: G10

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

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Facility DEC ID: 2600500125



**Item 1-4.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The power output for each microturbine after start up, shall not be less than 23KW (38% load). Electric production shall be monitored and recorded per turbine on an hourly basis. Records of the power output for each microturbine shall be maintained at the facility for 5 years and submitted to the Department upon request.

Parameter Monitored: ELECTRICAL LOAD OUTPUT

Lower Permit Limit: 23 kilowatts

Monitoring Frequency: HOURLY

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

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2011.

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

**Condition 1-5: Compliance Plan**

**Effective between the dates of 08/20/2010 and 08/30/2012**

**Applicable Federal Requirement: 6 NYCRR 227-2.4 (g)**

**Item 1-5.1:**

Compliance will be achieved according to the following schedule for the emission units, processes, sources or emission points specified in this permit:

Emission Unit: G-00001

Process: G10

Consent Order: 091021-618

**Item 1-5.2:**

Remedial Measure:

Schedule Date: 05/31/2010

Submit to DEC a report on winter operations to demonstrate compliance with 38% load minimum operating requirement.

**Item 1-5.3:**

Remedial Measure:

Schedule Date: 10/29/2010

Submit to DEC a report on summer operations to demonstrate compliance with 38% load minimum operating requirement.



**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 44: Contaminant List**  
**Effective between the dates of 08/31/2007 and 08/30/2012**

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

**Item 44.1:**  
Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).

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



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

CAS No: 0NY998-00-0  
Name: VOC

**Condition 1-6: Unavoidable noncompliance and violations**  
**Effective between the dates of 08/20/2010 and 08/30/2012**

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

**Item 1-6.1:**

At the discretion of the commissioner a violation of any applicable emission standard for necessary scheduled equipment maintenance, start-up/shutdown conditions and malfunctions or upsets may be excused if such violations are unavoidable. The following actions and recordkeeping and reporting requirements must be adhered to in such circumstances.

(a) The facility owner and/or operator shall compile and maintain records of all equipment 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 commissioner's representative when requested to do so in writing or when so required by a condition of a permit issued for the corresponding air contamination source except where conditions elsewhere in this permit which contain more stringent reporting and notification provisions for an applicable requirement, in which case they supercede those stated here. Such reports shall describe why the violation was unavoidable and shall include the time, frequency and duration of the maintenance and/or start-up/shutdown activities and the identification of air contaminants, and the estimated emission rates. If a facility owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, he need not submit reports for equipment maintenance or start-up/shutdown for the facility to the commissioner's representative.

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superceded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

(c) The Department may also require the owner and/or operator to include in reports described under (a) and (b) above an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions depending on the deviation of the malfunction and the air contaminants emitted.

(d) In the event of maintenance, start-up/shutdown or malfunction conditions which result in emissions exceeding any applicable emission standard, the facility owner and/or operator shall take appropriate action to prevent emissions which will result in contravention of any applicable ambient air quality standard. Reasonably available control technology, as



determined by the commissioner, shall be applied during any maintenance, start-up/shutdown or malfunction condition subject to this paragraph.

(e) 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.

**Condition 1-7: Air pollution prohibited**  
**Effective between the dates of 08/20/2010 and 08/30/2012**

**Applicable State Requirement:6 NYCRR 211.2**

**Item 1-7.1:**

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

**Condition 48: Compliance Demonstration**  
**Effective between the dates of 08/31/2007 and 08/30/2012**

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

**Item 48.1:**

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

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

**Item 48.2:**

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>

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4. Smithtown (DEC ID:1-4734-00169, Emission Unit ID: 22) -  
12.82 tpy of NOx

5. Ramapo (DEC ID:2-6301-00006, Emission Unit ID: from  
ConEd, Astoria) - 49.10 tpy of NOx

All 171.2 tpy of NOx 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 NOx 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 45 days after the reporting period.

The initial report is due 8/14/2008.

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

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

**Condition 49: Compliance Demonstration**  
**Effective between the dates of 08/31/2007 and 08/30/2012**

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

**Item 49.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-00001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 49.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

No later than 180 days after the issuance of the TV permit, the owner/operator of the facility shall conduct perform test to demonstrate compliance and submit the Department written report of such performance test.

Parameter Monitored: PARTICULATES

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**Permit ID: 2-6005-00125/00003**

**Facility DEC ID: 2600500125**



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: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2008.

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

**Condition 50: Compliance Demonstration**  
**Effective between the dates of 08/31/2007 and 08/30/2012**

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

**Item 50.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-00001

**Item 50.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Temperature monitoring of primary and secondary  
combustion chambers.

The primary chamber must be operated at a temperature of  
at least 1400 F and the secondary chamber must be operated  
at a temperature of at least 1800 F . Within six months  
of the issuance of this permit, the permittee must install  
a temperature strip chart recorder to monitor and record  
the temperatures in the primary chamber and the exit of  
the secondary chamber. The records (in the form of the  
charts from this recording device) shall be kept and  
maintained for every firing, and shall be made available  
to the Department upon request. To establish ramp-up  
time, and to ensure that the unit is operating at the  
required temperatures, the permittee must also (during the  
Method 5 and Method 9 tests) record the time from initial  
start-up to full "steady state" operation. The ramp up  
time will then become an operating parameter of the final  
Title V 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 1/30/2008.

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



**Condition 51: Compliance Demonstration**  
Effective between the dates of 08/31/2007 and 08/30/2012

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

**Item 51.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-00001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 51.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

Opacity emission limit for crematories and pathological incinerators. The permittee must initially demonstrate compliance with the standards in this Subpart by either (1) onsite testing, or (2) submittal of a test report for an identical incinerator tested in New York and approved by the commissioner.

Parameter Monitored: OPACITY

Upper Permit Limit: 10.0 percent

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

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 1/30/2008.

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

**Condition 1-8: Operator training and certification requirements.**  
Effective between the dates of 08/20/2010 and 08/30/2012

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

**Item 1-8.1:**

This Condition applies to Emission Unit: 1-00001

**Item 1-8.2:**

(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.

