



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Solid Waste Management
Permit ID: 3-3342-00105/00009
Effective Date: 12/03/2010 Expiration Date: 12/02/2020

Permit Type: Air State Facility
Permit ID: 3-3342-00105/00012
Effective Date: 12/03/2010 Expiration Date: No expiration date

Permit Issued To: TAYLOR HOLDINGS GROUP LTD
350 NEELYTOWN RD
MONTGOMERY, NY 12549

Contact: JAMES W TAYLOR
TAYLOR RECYCLING
350 NEELYTOWN RD
MONTGOMERY, NY 12549
(845) 457-4021

Facility: TAYLOR BIOMASS GASIFICATION FACILITY
350 NEELYTOWN RD
MONTGOMERY, NY 12549

Contact: JAMES W TAYLOR
TAYLOR RECYCLING
350 NEELYTOWN RD
MONTGOMERY, NY 12549
(845) 457-4021

Description:

Taylor Holdings Group, Ltd is proposing to construct a Biomass Gasification Facility at the existing Taylor Construction and Demolition (C&D) Processing Facility located at 350 Neelytown Road in the Town of Montgomery, Orange County. The proposed Biomass facility would receive up to 450 tons per day (tpd) of C&D, up to 100 tpd of unadulterated wood waste and up to 500 tpd of Municipal Solid Waste (MSW). All received waste would be processed and separated in enclosed buildings. All non-organic material suitable for alternative use as well as recyclables will be separated from the waste stream. The resulting feed material will then be transported via enclosed conveyor to Biomass storage silos and then on to the gasifier. The gasifier will convert the feed material into a gaseous fuel by reacting it at high temperatures with a controlled amount of oxygen. The proposed gasifier would be capable of handling up to 300 tpd of feed material. The gaseous fuel or synthetic gas would in turn be routed to a turbine capable of producing 20 to 25 Megawatts (MW) of power. Generated power will be conveyed to market via an existing Central Hudson Gas and Electric substation located adjacent to the Taylor property.



Pursuant to Section 621.2(f) of Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York [6 NYCRR 621.2(f)], a “complete application” means an application for a permit which is in an approved form and is determined by the Department to be complete for the purpose of commencing review of the application but which may need to be supplemented during the course of review in order to enable the Department to make the findings and determinations required by law.

Department Staff has not made any determinations with regard to the issuance of a permit for the proposed solid waste management facility. However, Department Staff has made a tentative determination regarding the application for the requested Air State Facility Pre Construction permit. Based on information available to the Department at this time, the regulated emissions have been determined to satisfy minimum standards for permit issuance. This tentative determination is required by federal regulations and does not signify Department approval or endorsement of the activities for which the permits are sought or for the overall proposed project at this time. The Department seeks comments on the proposed application before making final decisions on them.

As required by Federal regulation, the Department has prepared a Draft Permit pursuant to Article 19 (Air Pollution Control) of the NYS Environmental Conservation Law (ECL) and made a tentative determination to issue a new State Facility Permit for the operation of the Taylor Biomass Gasification Facility. The Draft permit is available for review as indicated below. This draft permit requires the facility-wide emissions of oxides of nitrogen (NO_x) to be capped at 100 tons per year (tpy). This cap will keep the facility below a major source requirement of 6 NYCRR Part 231. Within 1 year of “start up” of the facility, an application for a Title V permit must be submitted to the Department.

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: ALEXANDER F CIESLUK, JR
 DIVISION OF ENVIRONMENTAL PERMITS
 21 SOUTH PUTT CORNERS RD
 NEW PALTZ, NY 12561-1696

Authorized Signature: _____ Date: ____ / ____ / ____



Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

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

Item B: Permittee's Contractors to Comply with Permit

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

Item C: Permittee Responsible for Obtaining Other Required Permits

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

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

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



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

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

Facility Level

- Submission of application for permit modification or renewal-REGION 3 HEADQUARTERS



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

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

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

Item 1.2:

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

Item 1.3:

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

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

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

Item 2.1:

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

Condition 3: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

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

Item 3.2:

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

Item 3.3:

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



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

Item 4.1:

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

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

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

Condition 5: Submission of application for permit modification or renewal-REGION 3 HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 3 Headquarters
Division of Environmental Permits
21 South Putt Corners Road
New Paltz, NY 12561-1696
(845) 256-3054

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



Permit Under the Environmental Conservation Law (ECL)

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

IDENTIFICATION INFORMATION

Permit Issued To: TAYLOR HOLDINGS GROUP LTD
350 NEELYTOWN RD
MONTGOMERY, NY 12549

Facility: TAYLOR BIOMASS GASIFICATION FACILITY
350 NEELYTOWN RD
MONTGOMERY, NY 12549

Authorized Activity By Standard Industrial Classification Code:
4911 - ELECTRIC SERVICES
4953 - REFUSE SYSTEMS

Permit Effective Date: 12/03/2010
date.

Permit Expiration Date: No expiration
date.



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 2 6 NYCRR 200.7: Maintenance of Equipment
- 3 6 NYCRR 202-1.1: Required Emissions Tests
- 4 6 NYCRR 200.7: Compliance Demonstration
- 5 6 NYCRR 201-6.3 (a) (2): Title V Permit Requirement
- 6 6 NYCRR 202-1.1: Compliance Demonstration
- 7 40CFR 60, NSPS Subpart A: Applicability of Subpart A General Provisions
- 8 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 9 40CFR 60.7(a), NSPS Subpart A: Date of Construction Notification - if a COM is used
- 10 40CFR 60.7(a)(1), NSPS Subpart A: Compliance Demonstration
- 11 40CFR 60.7(a)(4), NSPS Subpart A: Compliance Demonstration
- 12 40CFR 60.7(a)(6), NSPS Subpart A: Compliance Demonstration
- 13 40CFR 60.7(b), NSPS Subpart A: Recordkeeping requirements.
- 14 40CFR 60.7(c), NSPS Subpart A: Compliance Demonstration
- 15 40CFR 60.7(d), NSPS Subpart A: Excess emissions report.
- 16 40CFR 60.7(e), NSPS Subpart A: Monitoring frequency waiver.
- 17 40CFR 60.7(f), NSPS Subpart A: Facility files for subject sources.
- 18 40CFR 60.7(g), NSPS Subpart A: Notification Similar to State or Local Agency
- 19 40CFR 60.8(a), NSPS Subpart A: Performance testing timeline.
- 20 40CFR 60.8(b), NSPS Subpart A: Performance test methods.
- 21 40CFR 60.8(c), NSPS Subpart A: Required performance test information.
- 22 40CFR 60.8(d), NSPS Subpart A: Prior notice.
- 23 40CFR 60.8(e), NSPS Subpart A: Performance testing facilities.
- 24 40CFR 60.8(f), NSPS Subpart A: Number of required tests.
- 25 40CFR 60.9, NSPS Subpart A: Availability of information.
- 26 40CFR 60.11, NSPS Subpart A: Opacity standard compliance testing.
- 27 40CFR 60.11(d), NSPS Subpart A: Compliance with Standards and Maintenance Requirements
- 28 40CFR 60.11(e)(1), NSPS Subpart A: Compliance Demonstration
- 29 40CFR 60.11(g), NSPS Subpart A: Use of credible evidence
- 30 40CFR 60.12, NSPS Subpart A: Circumvention.
- 31 40CFR 60.13(a), NSPS Subpart A: Continuous Monitoring Requirements
- 32 40CFR 60.13(d), NSPS Subpart A: Compliance Demonstration
- 33 40CFR 60.13(e), NSPS Subpart A: Compliance Demonstration
- 34 40CFR 60.13(h), NSPS Subpart A: Compliance Demonstration
- 35 40CFR 60.14, NSPS Subpart A: Modifications.
- 36 40CFR 60.15, NSPS Subpart A: Reconstruction
- 37 40CFR 60.18(c)(1), NSPS Subpart A: Visible Emissions from Flares
- 38 40CFR 60.54b(a), NSPS Subpart Eb: Compliance Demonstration
- 39 40CFR 60.54b(b), NSPS Subpart Eb: Compliance Demonstration
- 40 40CFR 60.54b(c), NSPS Subpart Eb: Compliance Demonstration
- 41 40CFR 60.54b(e), NSPS Subpart Eb: Compliance Demonstration
- 42 40CFR 60.54b(f), NSPS Subpart Eb: Compliance Demonstration
- 43 40CFR 60.57b, NSPS Subpart Eb: Compliance Demonstration

Emission Unit Level



EU=0-00001

- 1 40CFR 60.58b(k), NSPS Subpart Eb: Compliance Demonstration
- 44 6 NYCRR Subpart 201-7: Process Permissible Emissions
- 45 40CFR 60.7(a)(3), NSPS Subpart A: Compliance Demonstration

EU=0-00001

- 46 40CFR 60.11(c), NSPS Subpart A: Opacity Standard During Periods of Startup, Shutdown or Malfunction
- 47 40CFR 60.13(b), NSPS Subpart A: Compliance Demonstration
- 48 40CFR 60.13(f), NSPS Subpart A: Compliance Demonstration
- 49 40CFR 60.53b(b), NSPS Subpart Eb: Compliance Demonstration
- 50 40CFR 60.53b(b), NSPS Subpart Eb: Compliance Demonstration
- 51 40CFR 60.53b(b), NSPS Subpart Eb: Compliance Demonstration

EU=0-00001,Proc=001,ES=000CT

- 52 40CFR 60.4320, NSPS Subpart KKKK: Compliance Demonstration
- 53 40CFR 60.4330, NSPS Subpart KKKK: Compliance Demonstration

EU=0-00001,Proc=002,ES=000PC

- 54 40CFR 60.53b(c), NSPS Subpart Eb: Compliance Demonstration

EU=0-00001,EP=00001

- 55 40CFR 60.52b(a)(1)(ii), NSPS Subpart Eb: Compliance Demonstration
- 56 40CFR 60.52b(a)(2), NSPS Subpart Eb: Compliance Demonstration
- 57 40CFR 60.52b(a)(2), NSPS Subpart Eb: Compliance Demonstration
- 58 40CFR 60.52b(a)(3)(ii), NSPS Subpart Eb: Compliance Demonstration
- 59 40CFR 60.52b(a)(4)(ii), NSPS Subpart Eb: Compliance Demonstration
- 60 40CFR 60.52b(a)(5)(ii), NSPS Subpart Eb: Compliance Demonstration
- 61 40CFR 60.52b(b)(1), NSPS Subpart Eb: Compliance Demonstration
- 62 40CFR 60.52b(b)(1), NSPS Subpart Eb: Compliance Demonstration
- 63 40CFR 60.52b(b)(2), NSPS Subpart Eb: Compliance Demonstration
- 64 40CFR 60.52b(c)(2), NSPS Subpart Eb: Compliance Demonstration
- 65 40CFR 60.52b(d)(1), NSPS Subpart Eb: Compliance Demonstration
- 66 40CFR 60.52b(d)(1), NSPS Subpart Eb: Compliance Demonstration
- 67 40CFR 60.52b(d)(2), NSPS Subpart Eb: Compliance Demonstration

EU=0-00001,EP=00001,Proc=001

- 68 6 NYCRR Subpart 202-1: Compliance Demonstration

EU=0-00001,EP=00001,Proc=004,ES=000SH

- *69 6 NYCRR Subpart 201-7: Capping Monitoring Condition

EU=0-00001,EP=00001,Proc=CLW

- 70 6 NYCRR 227-1.3: Compliance Demonstration
- 71 6 NYCRR 227-1.7: Compliance Demonstration
- 72 6 NYCRR 227-1.7: Compliance Demonstration

EU=0-00002,EP=00002,Proc=FLA,ES=000FL

- *73 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 74 40CFR 60.18(e), NSPS Subpart A: Compliance Demonstration



EU=0-00003,Proc=003,ES=000SB

75 40CFR 60.48c(g), NSPS Subpart Dc: Compliance Demonstration

EU=0-00003,EP=00003

76 6 NYCRR 227-1.3 (a): Compliance Demonstration

EU=0-00003,EP=00003,Proc=003,ES=000SB

*77 6 NYCRR Subpart 201-7: Capping Monitoring Condition

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

78 ECL 19-0301: Contaminant List

79 6 NYCRR 201-1.4: Unavoidable noncompliance and violations

80 6 NYCRR Subpart 201-5: Emission Unit Definition

81 6 NYCRR Subpart 201-5: Compliance Demonstration

82 6 NYCRR Subpart 201-5: Compliance Demonstration

83 6 NYCRR 211.2: Air pollution prohibited

Emission Unit Level

84 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit

85 6 NYCRR Subpart 201-5: Process Definition By Emission Unit

EU=0-00001

86 6 NYCRR Subpart 201-5: Compliance Demonstration

EU=0-00001,Proc=001,ES=000CT

87 6 NYCRR Subpart 201-5: Compliance Demonstration

EU=0-00001,Proc=002,ES=000PC

88 6 NYCRR Subpart 201-5: Compliance Demonstration

89 6 NYCRR Subpart 201-5: Compliance Demonstration

EU=0-00001,Proc=002,ES=PCFAB

90 6 NYCRR Subpart 201-5: Compliance Demonstration

EU=0-00001,EP=00001

91 6 NYCRR Subpart 201-5: Compliance Demonstration

92 6 NYCRR Subpart 201-5: Compliance Demonstration

93 6 NYCRR Subpart 201-5: Compliance Demonstration

NOTE: * preceding the condition number indicates capping.



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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

Item A: Sealing - 6 NYCRR 200.5

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

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

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

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

Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6

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

Item C: Maintenance of Equipment - 6 NYCRR 200.7

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



required to operate such device effectively.

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

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

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

Item E: Emergency Defense - 6 NYCRR 201-1.5

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

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

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

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



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

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

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

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

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

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

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

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

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

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



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

Item K: Visible Emissions Limited - 6 NYCRR 211.3

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.

Item L: Open Fires Prohibitions - 6 NYCRR 215.2

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

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

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



regulations.

FEDERAL APPLICABLE REQUIREMENTS
The following conditions are federally enforceable.

Condition 2: Maintenance of Equipment
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 200.7

Item 2.1:

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 3: Required Emissions Tests
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 3.1:

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 4: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 200.7

Item 4.1:

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

Emission Unit: 0-00001 Emission Point: 00001

Regulated Contaminant(s):
CAS No: 007664-41-7 AMMONIA

Item 4.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Emissions shall be controlled by efficient use of the SCR
and are limited to 10 ppmvd corrected to 15% Oxygen.

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



Manufacturer Name/Model Number: SCR
Parameter Monitored: AMMONIA
Upper Permit Limit: 10 parts per million by volume (dry,
corrected to 15% O₂)

Reference Test Method: Appendix F
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2011.
Subsequent reports are due every 6 calendar month(s).

Condition 5: Title V Permit Requirement
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 201-6.3 (a) (2)

Item 5.1:

A Title V permit application must be submitted to the Department within one year of commencement of operation of this facility.

Condition 6: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 6.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 6.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any emission test protocols or reports prepared to demonstrate compliance with the terms of this permit, or used in support of qualification under New York State's Renewable Energy Portfolio Standards shall be submitted to the Department's Region 3 office.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 7: Applicability of Subpart A General Provisions
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60, NSPS Subpart A

Item 7.1:

This emission source is subject to the applicable general provisions of 40 CFR 60. The facility

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



owner is responsible for complying with all applicable technical, administrative and reporting requirements.

Condition 8: EPA Region 2 address.
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.4, NSPS Subpart A

Item 8.1:

All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the following address:

Director, Division of Enforcement and Compliance Assistance
USEPA Region 2
290 Broadway, 21st Floor
New York, NY 10007-1886

Copies of all correspondence to the administrator pursuant to this part shall also be submitted to the NYSDEC Regional Office issuing this permit (see address at the beginning of this permit) and to the following address:

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

Condition 9: Date of Construction Notification - if a COM is used
Effective between the dates of 12/03/2010 and Permit Expiration Date

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

Item 9.1:

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

- 1) a notification of the date construction or reconstruction commenced, post marked no later than 30 days after such date;
- 3) a notification of the actual date of initial start up, post marked within 15 days after such date;
- 4) a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless the change is specifically exempted under this part. The notice shall be post marked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capability of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional information regarding the change;
- 5) a notification of the date upon which the demonstration of continuous monitoring system performance commences, post marked not less than 30 days prior to such date;



6) a notification of the anticipated date for conducting the opacity observations, post marked not less than 30 days prior to such date, if a continuous opacity monitor is not being used at the facility; and

7) a notification that continuous opacity monitoring system data results will be used to determine compliance with the applicable opacity standard during the performance test, post marked not less than 30 days prior to the performance test.

Condition 10: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.7(a)(1), NSPS Subpart A

Item 10.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 10.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any owner or operator subject to the provisions of this part shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, as follows:

A notification of the date construction (or reconstruction as defined under 40 CFR Part 60.15) of an affected facility is commenced postmarked no later than 30 days after such date. This requirement shall not apply in the case of mass-produced facilities which are purchased in completed form.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 11: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.7(a)(4), NSPS Subpart A

Item 11.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 11.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:



Any owner or operator subject to the provisions of 40 CFR 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, as follows:

A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 12: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.7(a)(6), NSPS Subpart A

Item 12.1:
The Compliance Demonstration activity will be performed for the Facility.

Item 12.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

Any owner or operator subject to the provisions of 40 CFR 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, as follows:

A notification of the anticipated date for conducting the opacity observations required by 40 CFR 60.11(e)(1). The notification shall also include, if appropriate, a request for the Administrator to provide a visible emissions reader during a performance test. The notification shall be postmarked not less than 30 days prior to such date.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION



Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 13: Recordkeeping requirements.
Effective between the dates of 12/03/2010 and Permit Expiration Date

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

Item 13.1:

Affected owners or operators shall maintain records of occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

Condition 14: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

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

Item 14.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 14.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Affected owners or operators shall submit an excess emissions report and/or a summary report form (as defined in 40 CFR 60.7(d)) semi-annually (or more frequently as required by the applicable Subpart or the Administrator), to the Administrator. These reports shall be post marked no later than 30 days after each six (6) month period (or as appropriate), and shall contain the following information:

- 1) the magnitude of excess emissions computed, any conversion factors used, the date and time of each occurrence, and the process operating time during the reporting period;
- 2) specific identification of each period of excess emissions that occur during startup, shutdown, or malfunction, where the nature, cause, and corrective action are provided for a malfunction;
- 3) the date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments; and
- 4) when no excess emissions have occurred or when the continuous monitoring system(s) have not been inoperative,



repaired, or adjusted, such information shall be provided in the report.

Monitoring Frequency: CONTINUOUS
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 15: Excess emissions report.
Effective between the dates of 12/03/2010 and Permit Expiration Date

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

Item 15.1:

A summary report form, for each pollutant monitored, shall be sent to the Administrator in the form prescribed in Figure 1 of 40 CFR Part 60.7(d).

Condition 16: Monitoring frequency waiver.
Effective between the dates of 12/03/2010 and Permit Expiration Date

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

Item 16.1: Notwithstanding the frequency of reporting requirements specified in paragraph (c) of this section, an owner or operator who is required by an applicable subpart to submit excess emissions and monitoring systems performance reports (and summary reports) on a quarterly (or more frequent) basis may reduce the frequency of reporting for that standard to semiannual if the conditions in 40 CFR 60.7(e) are met.

Condition 17: Facility files for subject sources.
Effective between the dates of 12/03/2010 and Permit Expiration Date

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

Item 17.1:

The following files shall be maintained at the facility for all affected sources: all measurements, including continuous monitoring systems, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part, recorded in permanent form suitable for inspections. The file shall be maintained for at least two years following the date of such measurements, reports, and records.

Condition 18: Notification Similar to State or Local Agency
Effective between the dates of 12/03/2010 and Permit Expiration Date

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

Item 18.1:

If notification substantially similar to that in 40 CFR Part 60.7(a) is required by any other State or local agency, sending the Administrator a copy of that notification will satisfy the requirements of 40 CFR Part 60.7(a).



Condition 19: Performance testing timeline.
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.8(a), NSPS Subpart A

Item 19.1:

Within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup of the facility, the owner or operator of the facility shall conduct performance testing and provide the results of such tests, in a written report, to the Administrator.

Condition 20: Performance test methods.
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.8(b), NSPS Subpart A

Item 20.1:

Performance testing shall be conducted in accordance with the methods and procedures prescribed in 40 CFR 60 or by alternative methods and procedures approved by the Administrator.

Condition 21: Required performance test information.
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.8(c), NSPS Subpart A

Item 21.1:

Performance tests shall be conducted under such conditions specified by the Administrator, based upon representative performance data supplied by the owner or operator of the facility.

Condition 22: Prior notice.
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.8(d), NSPS Subpart A

Item 22.1:

The owner or operator shall provide the Administrator with prior notice of any performance test at least 30 days in advance of testing.

Condition 23: Performance testing facilities.
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.8(e), NSPS Subpart A

Item 23.1:

The following performance testing facilities shall be provided during all tests:

- 1) sampling ports adequate for tests methods applicable to such facility;
- 2) a safe sampling platform;
- 3) a safe access to the sampling platform; and



4) utilities for sampling and testing equipment.

Condition 24: Number of required tests.
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.8(f), NSPS Subpart A

Item 24.1:

Each performance test shall consist of three separate runs, at the specified duration required in the applicable test method. Compliance with all applicable standards shall be determined by using the arithmetic means of the results of the three runs.

Condition 25: Availability of information.
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.9, NSPS Subpart A

Item 25.1:

The availability to the public of information provided to, or otherwise obtained by, the Administrator under this part shall be governed by 40 CFR Part 2.

Condition 26: Opacity standard compliance testing.
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.11, NSPS Subpart A

Item 26.1:

The following conditions shall be used to determine compliance with the opacity standards:

1) observations shall be conducted in accordance with Reference Method 9, in Appendix A of 40 CFR Part 60(or an equivalent method approved by the Administrator including continuous opacity monitors);

2) the opacity standards apply at all times except during periods of start up, shutdown, and malfunction; and

3) all other applicable conditions cited in section 60.11 of this part.

Condition 27: Compliance with Standards and Maintenance Requirements
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.11(d), NSPS Subpart A

Item 27.1:

At all times, including periods of startup, shutdown, and malfunction, owners and operators of this facility shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Department and the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.



Condition 28: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.11(e)(1), NSPS Subpart A

Item 28.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 28.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

For the purpose of demonstrating initial compliance, opacity observations shall be conducted concurrently with the initial performance test required in 40 CFR Part 60.8 unless one of the following conditions apply. If no performance test under 40 CFR Part 60.8 is required, then opacity observations shall be conducted within 60 days after achieving the maximum production rate at which the affected facility will be operated but no later than 180 days after initial startup of the facility. If visibility or other conditions prevent the opacity observations from being conducted concurrently with the initial performance test required under 40 CFR Part 60.8, the source owner or operator shall reschedule the opacity observations as soon after the initial performance test as possible, but not later than 30 days thereafter, and shall advise the Administrator of the rescheduled date. In these cases, the 30-day prior notification to the Administrator required in 40 CFR Part 60.7(a)(6) shall be waived. The rescheduled opacity observations shall be conducted (to the extent possible) under the same operating conditions that existed during the initial performance test conducted under 40 CFR Part 60.8. The visible emissions observer shall determine whether visibility or other conditions prevent the opacity observations from being made concurrently with the initial performance test in accordance with procedures contained in Method 9 of appendix B of this part. Opacity readings of portions of plumes which contain condensed, uncombined water vapor shall not be used for purposes of determining compliance with opacity standards. The owner or operator of an affected facility shall make available, upon request by the Administrator, such records as may be necessary to determine the conditions under which the visual observations were made and shall provide evidence indicating proof of current visible observer emission certification. Except as provided in 40 CFR Part 60.11(e)(5), the results of continuous monitoring by transmissometer which indicate that the opacity at the



time visual observations were made was not in excess of the standard are probative but not conclusive evidence of the actual opacity of an emission, provided that the source shall meet the burden of proving that the instrument used meets (at the time of the alleged violation) Performance Specification 1 in appendix B of this part, has been properly maintained and (at the time of the alleged violation) that the resulting data have not been altered in any way.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA RM 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 29: Use of credible evidence
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.11(g), NSPS Subpart A

Item 29.1:

For the purpose of submitting compliance certifications or establishing whether or not a person has violated or is in violation of any standard in this part, nothing in this part shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed.

Condition 30: Circumvention.
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.12, NSPS Subpart A

Item 30.1:

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

Condition 31: Continuous Monitoring Requirements
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.13(a), NSPS Subpart A

Item 31.1: For the purposes of this section, 40 CFR Part 60.13, all continuous monitoring systems required under applicable subparts of 40 CFR Part 60 shall be subject to the provisions of this section, upon promulgation of performance specifications for continuous monitoring systems under appendix B to this part, 40 CFR Part 60, and, if the continuous monitoring system



is used to demonstrate compliance with emission limits on a continuous basis, appendix F to this part, unless otherwise specified in an applicable subpart or by the Administrator.

Condition 32: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.13(d), NSPS Subpart A

Item 32.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 32.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners and operators of all continuous emission monitoring systems installed in accordance with the provisions of this part shall check the zero (or low-level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) calibration drifts at least once daily in accordance with a written procedure. The zero and span shall, as a minimum, be adjusted whenever the 24-hour zero drift or 24-hour span drift exceeds two times the limits of the applicable performance specifications in appendix B. The system must allow the amount of excess zero and span drift measured at the 24-hour interval checks to be recorded and quantified, whenever specified. For continuous monitoring systems measuring opacity of emissions, the optical surfaces exposed to the effluent gases shall be cleaned prior to performing the zero and span drift adjustments except that for systems using automatic zero adjustments. The optical surfaces shall be cleaned when the cumulative automatic zero compensation exceeds 4 percent opacity.

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2011.

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

Condition 33: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.13(e), NSPS Subpart A

Item 33.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 33.2:

Compliance Demonstration shall include the following monitoring:



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Except for system breakdowns, repairs, calibration checks, and zero and span adjustments required under paragraph 40 CFR 60.13 (d) of this section, all continuous monitoring systems shall be in continuous operation and shall meet minimum frequency of operation requirements as follows:

(1) All continuous monitoring systems referenced by paragraph 40 CFR 60.13 (c) of this section for measuring opacity of emissions shall complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period.

(2) All continuous monitoring systems referenced by paragraph 40 CFR 60.13 (c) of this section for measuring emissions, except opacity, shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2011.

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

Condition 34: Compliance Demonstration

Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.13(h), NSPS Subpart A

Item 34.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 34.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners or operators of all continuous monitoring systems for measurement of opacity shall reduce all data to 6-minute averages and for continuous monitoring systems other than opacity to 1-hour averages for time periods as defined in §60.2. Six-minute opacity averages shall be calculated from 36 or more data points equally spaced over each 6-minute period. For continuous monitoring systems other than opacity, 1-hour averages shall be computed from four or more data points equally spaced over each 1-hour period. Data recorded during periods of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments shall not be included in the data averages computed under this paragraph. An arithmetic or integrated average of all data may be used. The data



may be recorded in reduced or nonreduced form (e.g., ppm pollutant and percent O₂ or ng/J of pollutant). All excess emissions shall be converted into units of the standard using the applicable conversion procedures specified in subparts. After conversion into units of the standard, the data may be rounded to the same number of significant digits as used in the applicable subparts to specify the emission limit.

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2011.

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

Condition 35: Modifications.
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.14, NSPS Subpart A

Item 35.1:

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

Condition 36: Reconstruction
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.15, NSPS Subpart A

Item 36.1:

The following shall be submitted to the Administrator prior to reconstruction (as defined in section 60.15):

- 1) a notice of intent to reconstruct 60 days prior to the action;
- 2) name and address of the owner or operator;
- 3) the location of the existing facility;
- 4) a brief description of the existing facility and the components to be replaced;
- 5) a description of the existing air pollution control equipment and the proposed air pollution control equipment;
- 6) an estimate of the fixed capital cost of the replacements and of constructing a comparable entirely new facility;
- 7) the estimated life of the facility after the replacements; and
- 8) a discussion of any economic or technical limitations the facility may have in complying with the applicable standards of performance after the proposed replacements.

Condition 37: Visible Emissions from Flares



Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.18(c)(1), NSPS Subpart A

Item 37.1:

Flares shall be designed for and operated with no visible emissions as determined by the methods specified in 40 CFR 60.18(f) (Method 22), except for periods not to exceed 5 minutes during any 2 consecutive hours.

Condition 38: Compliance Demonstration

Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.54b(a), NSPS Subpart Eb

Item 38.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 38.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

No later than 6 months after the date of start up of a large municipal waste combustor each chief facility operator and shift supervisor shall obtain and maintain a current provisional operator certification from either the American Society of Mechanical Engineers [QRO-1-1994 (incorporated by reference in Section 60.17)] or a State certification program.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 39: Compliance Demonstration

Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.54b(b), NSPS Subpart Eb

Item 39.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 39.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

No later than 6 months after the date of start up of a large municipal waste combustor each chief facility operator and shift supervisor shall have completed full certification or shall have scheduled a full certification exam with either the American Society of Mechanical

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



Engineers [QRO-1-1994 (incorporated by reference in Section 60.17)] or a State certification program.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 40: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.54b(c), NSPS Subpart Eb

Item 40.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 40.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

No owner or operator of a large municipal waste combustor shall allow the facility to be operated at any time unless one of the following persons is on duty and at the facility: A fully certified chief facility operator, a provisionally certified chief facility operator who is scheduled to take the full certification exam according to the schedule in paragraph (b) of Section 60.54b, a fully certified shift supervisor, or a provisionally certified shift supervisor who is scheduled to take the full certification exam according to the schedule in paragraph (b) of Section 60.54b.

(1) This requirement takes effect 6 months after the start up date of the large municipal waste combustor.

(2) If both the certified chief facility operator and certified shift supervisor are unavailable, a provisionally certified control room operator on site at the municipal waste combustion unit may fulfill the certified operator requirement. Depending on the length of time that a certified chief facility operator and certified shift supervisor are away, the owner or operator of the affected facility must meet one of three criteria:

(i) When the certified chief facility operator and certified shift supervisor are both off site for 12 hours or less, and no other certified operator is on site, the provisionally certified control room operator may perform the duties of the certified chief facility operator or certified shift supervisor.



(ii) When the certified chief facility operator and certified shift supervisor are off site for more than 12 hours, but for two weeks or less, and no other certified operator is on site, the provisionally certified control room operator may perform the duties of the certified chief facility operator or certified shift supervisor without notice to, or approval by, the Department. However, the owner or operator of the affected facility must record the period when the certified chief facility operator and certified shift supervisor are off site and include that information in the annual report as specified under §60.59b(g)(5).

(iii) When the certified chief facility operator and certified shift supervisor are off site for more than two weeks, and no other certified operator is on site, the provisionally certified control room operator may perform the duties of the certified chief facility operator or certified shift supervisor without approval by the Department. However, the owner or operator of the affected facility must take two actions:

(a) Notify the Department in writing. In the notice, state what caused the absence and what actions are being taken by the owner or operator of the facility to ensure that a certified chief facility operator or certified shift supervisor is on site as expeditiously as practicable.

(b) Submit a status report and corrective action summary to the Department every four weeks following the initial notification. If the Department provides notice that the status report or corrective action summary is disapproved, the municipal waste combustion unit may continue operation for 90 days, but then must cease operation. If corrective actions are taken in the 90-day period such that the Department withdraws the disapproval, municipal waste combustion unit operation may continue.

(3) A provisionally certified operator who is newly promoted or recently transferred to a shift supervisor position or a chief facility operator position at the municipal waste combustion unit may perform the duties of the certified chief facility operator or certified shift supervisor without notice to, or approval by, the Department for up to six months before taking the ASME QRO certification exam.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION



Condition 41: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.54b(e), NSPS Subpart Eb

Item 41.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 41.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a large municipal waste combustor shall develop and update on a yearly basis a site-specific operating manual that shall, at a minimum, address the elements of municipal waste combustor unit operation specified below:

- (1) A summary of the applicable standards under 40 CFR 60 Subpart Eb;
- (2) A description of basic combustion theory applicable to the municipal waste combustor unit;
- (3) Procedures for receiving, handling, and feeding municipal solid waste;
- (4) Municipal waste combustor unit start-up, shut down, and malfunction procedures;
- (5) Procedures for maintaining proper combustion air supply levels;
- (6) procedures for operating the municipal waste combustor unit within the standards established under 40 CFR 60 Subpart Eb;
- (7) Procedures for responding to periodic upset or off-specification conditions;
- (8) Procedures for minimizing particulate matter carryover;
- (9) Procedures for handling ash;
- (10) Procedures for monitoring municipal waste combustor emissions; and
- (11) Reporting and record keeping procedures.

A copy of the manual shall be kept on site in an easily

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



accessible location and made available to Department personnel upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 42: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.54b(f), NSPS Subpart Eb

Item 42.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 42.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a large municipal waste combustor shall establish a training program to review the contents of the facility's operating manual with each person who has responsibilities affecting the operation of the facility, including, but not limited to, chief facility operators, shift supervisors, control room operators, ash handlers, maintenance personnel, and crane load handlers according to the following schedule:

(1) Each person specified above shall undergo initial training no later than the date 6 months after the date of start-up of the large municipal waste combustor, or the date prior to the day the person assumes responsibilities affecting municipal waste combustor unit operation; and

(2) Annually, following the initial review described above.

A record of this training shall be kept on site and made available to Department personnel upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 43: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.57b, NSPS Subpart Eb

Item 43.1:



The Compliance Demonstration activity will be performed for the Facility.

Item 43.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility shall prepare a materials separation plan, as defined in §60.51b, for the affected facility and its service area, and shall comply with the requirements specified in paragraphs §60.57b(a)(1) through §60.57b(a)(10). The initial application is due concurrent with processing the draft permit and shall be considered as representing a good faith submittal as determined by EPA.

The facility shall obtain a compliance determination from USEPA pursuant to §60.50b(n)(3) prior to achieving electrical production capability.

Monitoring Frequency: PER DELIVERY

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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

Condition 1: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.58b(k), NSPS Subpart Eb

Item 1.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001

Item 1.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The owner or operator of a large municipal waste combustor shall conduct a performance test for emissions of fugitive ash on an annual basis in accordance with the procedures described in Section 60.58b(k). Performance test reports shall be submitted to the Department no later than 30 days after the completion of the test.

Parameter Monitored: VISIBLE EMISSIONS

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



Upper Permit Limit: 5 percent
Reference Test Method: EPA Reference Method 22
Monitoring Frequency: ANNUALLY
Averaging Method: 9 MINUTES PER 3-HOUR PERIOD
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 44: Process Permissible Emissions
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 44.1:

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: 0-00001 Process: 004

CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN
PTE(s): 432 pounds per year

Emission Unit: 0-00002 Process: FLA

CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN
PTE(s): 910 pounds per year

Emission Unit: 0-00003 Process: 003

CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN
PTE(s): 120 pounds per year

Condition 45: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.7(a)(3), NSPS Subpart A

Item 45.1:

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

Emission Unit: 0-00003

Item 45.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any owner or operator subject to the provisions of this part shall furnish the Administrator written notification



or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, as follows:

A notification of the actual date of initial startup of an affected facility postmarked within 15 days after such date.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 46: Opacity Standard During Periods of Startup, Shutdown or Malfunction
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.11(c), NSPS Subpart A

Item 46.1:

This Condition applies to Emission Unit: 0-00001

Item 46.2:

The opacity standards set forth in this part shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard.

Condition 47: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.13(b), NSPS Subpart A

Item 47.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001

Item 47.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

All continuous monitoring systems and monitoring devices shall be installed and operational prior to conducting performance tests under §60.8. Verification of operational status shall, as a minimum, include completion of the manufacturer's written requirements or recommendations for installation, operation, and calibration of the device.

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2011.

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



Condition 48: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.13(f), NSPS Subpart A

Item 48.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001

Item 48.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

All continuous monitoring systems or monitoring devices shall be installed such that representative measurements of emissions or process parameters from the affected facility are obtained. Additional procedures for location of continuous monitoring systems contained in the applicable Performance Specifications of appendix B of this part shall be used.

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2011.

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

Condition 49: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.53b(b), NSPS Subpart Eb

Item 49.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001

Item 49.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The facility shall not operate at load greater than 110% of the maximum demonstrated load.

The facility shall install, calibrate, maintain, and operate a steam flow meter or a feedwater flow meter; measure steam (or feedwater) flow in kilograms per hour (or pounds per hour) on a continuous basis; and record the output of the monitor. Steam (or feedwater) flow shall be



calculated in 4-hour block arithmetic averages.

The method included in the “American Society of Mechanical Engineers Power Test Codes: Test Code for Steam Generating Units, Power Test Code 4.1—1964 (R1991)” section 4 shall be used for calculating the steam (or feedwater) flow. The recommendations in “American Society of Mechanical Engineers Interim Supplement 19.5 on Instruments and Apparatus: Application, part II of Fluid Meters, 6th edition (1971),” chapter 4 shall be followed for design, construction, installation, calibration, and use of nozzles and orifices.

The maximum demonstrated load shall be the highest 4-hour arithmetic average achieved during 4 consecutive hours during the most recent test during which compliance with the dioxin/furan emission limit was achieved.

Parameter Monitored: STEAM FLOW RATE
Upper Permit Limit: 110 percent
Reference Test Method: FLOW MONITOR
Monitoring Frequency: CONTINUOUS
Averaging Method: 4-HOUR BLOCK (ARITHMETIC AVERAGE)
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 50: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.53b(b), NSPS Subpart Eb

Item 50.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001

Item 50.2:
Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The facility shall not operate at level greater than 110% of the maximum demonstrated limit established for the fuel rate to the combustion turbine (measured by orifice plate).

The maximum demonstrated limit shall be the highest 4-hour arithmetic average achieved during 4 consecutive hours during the most recent test during which compliance with

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



the dioxin/furan emission limit was achieved.

Parameter Monitored: FUEL

Upper Permit Limit: 110 percent

Reference Test Method: orifice plate

Monitoring Frequency: CONTINUOUS

Averaging Method: 4-HOUR BLOCK (ARITHMETIC AVERAGE)

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 51: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.53b(b), NSPS Subpart Eb

Item 51.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001

Item 51.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The facility shall not operate at level greater than 110% of the maximum demonstrated limit established for the feed rate to the gasifier (measured by load cells).

The maximum demonstrated limit shall be the highest 4-hour arithmetic average achieved during 4 consecutive hours during the most recent test during which compliance with the dioxin/furan emission limit was achieved.

Parameter Monitored: MASS FLOW RATE

Upper Permit Limit: 110 percent

Reference Test Method: load cells

Monitoring Frequency: CONTINUOUS

Averaging Method: 4-HOUR BLOCK (ARITHMETIC AVERAGE)

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 52: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.4320, NSPS Subpart KKKK

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



Item 52.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001

Process: 001

Emission Source: 000CT

Regulated Contaminant(s):

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

Item 52.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility shall conduct an initial performance test for Oxides of Nitrogen. Compliance with the Oxides of Nitrogen emission limit of 74 parts per million by volume, corrected to 15% Oxygen (dry basis) shall be determined using the continuous emission monitoring system. Subsequent Oxides of Nitrogen performance tests shall be conducted on an annual basis (no more than 14 calendar months following the previous performance test).

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 74 parts per million by volume (dry, corrected to 15% O₂)

Reference Test Method: EPA Reference Method 7E

Monitoring Frequency: ANNUALLY

Averaging Method: 4-HOUR ROLLING AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 53: Compliance Demonstration

Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.4330, NSPS Subpart KKKK

Item 53.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001

Process: 001

Emission Source: 000CT

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 53.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:



The facility shall not burn in the stationary combustion turbine any fuel which contains total potential sulfur emissions in excess of 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input.

Taylor will follow the following acceptable custom monitoring schedule for determination of total sulfur content of the gaseous fuel. The program will be repeated from the beginning when the fuel changes from clean wood to MSW.

The operator shall obtain daily total sulfur content measurements for 30 consecutive unit operating days, using the applicable methods specified in this subpart. Based on the results of the 30 daily samples, the required frequency for subsequent monitoring of the fuel's total sulfur content shall be as specified in paragraph (ii), (iii), or (iv) of this section, as applicable.

(ii) If none of the 30 daily measurements of the fuel's total sulfur content exceeds half the applicable standard, subsequent sulfur content monitoring may be performed at 12-month intervals. If any of the samples taken at 12-month intervals has a total sulfur content greater than half but less than the applicable limit, follow the procedures in paragraph (iii) of this section. If any measurement exceeds the applicable limit, follow the procedures in paragraph (iv) of this section.

(iii) If at least one of the 30 daily measurements of the fuel's total sulfur content is greater than half but less than the applicable limit, but none exceeds the applicable limit, then:

(A) Collect and analyze a sample every 30 days for 3 months. If any sulfur content measurement exceeds the applicable limit, follow the procedures in paragraph (iv) of this section. Otherwise, follow the procedures in paragraph (iii)(B) of this section.

(B) Begin monitoring at 6-month intervals for 12 months. If any sulfur content measurement exceeds the applicable limit, follow the procedures in paragraph (iv) of this section. Otherwise, follow the procedures in paragraph (iii)(C) of this section.

(C) Begin monitoring at 12-month intervals. If any sulfur content measurement exceeds the applicable limit, follow the procedures in paragraph (iv) of this section. Otherwise, continue to monitor at this frequency.

(iv) If a sulfur content measurement exceeds the



applicable limit, immediately begin daily monitoring according to paragraph (i) of this section. Daily monitoring shall continue until 30 consecutive daily samples, each having a sulfur content no greater than the applicable limit, are obtained. At that point, the applicable procedures of paragraph (ii) or (iii) of this section shall be followed.

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.06 pounds per million Btus

Reference Test Method: Custom Schedule

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED 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 54: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.53b(c), NSPS Subpart Eb

Item 54.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001

Process: 002

Emission Source: 000PC

Item 54.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The facility shall not operate at a temperature, measured at the particulate matter control device inlet, exceeding 17 °C above the maximum demonstrated particulate matter control device temperature.

Maximum demonstrated particulate matter control device temperature means the highest 4-hour arithmetic average flue gas temperature measured at the particulate matter control device inlet during four consecutive hours during the most recent dioxin/furan performance test



demonstrating compliance with the applicable limit.

To determine compliance with the maximum particulate matter control device temperature requirement, the facility shall install, calibrate, maintain, and operate a device for measuring on a continuous basis the temperature of the flue gas stream at the inlet to each particulate matter control device utilized by the affected facility. Temperature shall be calculated in 4-hour block arithmetic averages

During the annual dioxin/furan or mercury performance test and the 2 weeks preceding the annual dioxin/furan or mercury performance test, no particulate matter control device temperature limitations are applicable.

Parameter Monitored: TEMPERATURE

Upper Permit Limit: 17 Deg C above demonstrated temperature of PM Control Device

Reference Test Method: EPA Approved

Monitoring Frequency: CONTINUOUS

Averaging Method: 4-HOUR BLOCK (ARITHMETIC AVERAGE)

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 55: Compliance Demonstration

Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.52b(a)(1)(ii), NSPS Subpart

Eb

Item 55.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001

Emission Point: 00001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 55.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

On or after the the date on which the initial performance test is completed or is required to be completed, the facility shall not discharge into the atmosphere any gases that contain particulate matter in excess of 20 milligrams per dry standard cubic meter, corrected to 7 percent oxygen.

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



Subsequent performance testing is required on an annual basis no less than 9 calendar months and no more than than 15 calendar months following previous testing. Five performance tests are required for each five year calendar period.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 20 milligrams per dry standard cubic meter (corrected to 7% oxygen)

Reference Test Method: EPA Method 5

Monitoring Frequency: ANNUALLY

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 56: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.52b(a)(2), NSPS Subpart Eb

Item 56.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001

Emission Point: 00001

Item 56.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

On or after the the date on which the initial performance test is completed or is required to be completed, the facility shall not discharge into the atmosphere any gases that exhibit greater than 10% opacity.

Subsequent performance testing is required on an annual basis no less than 9 calendar months and no more than than 15 calendar months following previous testing. Five performance tests are required for each five year calendar period.

Parameter Monitored: OPACITY

Upper Permit Limit: 10 percent

Reference Test Method: Method 9

Monitoring Frequency: ANNUALLY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 57: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date



Applicable Federal Requirement:40CFR 60.52b(a)(2), NSPS Subpart Eb

Item 57.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001

Emission Point: 00001

Item 57.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The facility shall install, calibrate, maintain, and operate a continuous opacity monitoring system for measuring opacity and shall follow the methods and procedures specified below.

1. The output of the continuous opacity monitoring system shall be recorded on a 6-minute average basis.
2. The continuous opacity monitoring system shall be installed, evaluated, and operated in accordance with §60.13.
3. The continuous opacity monitoring system shall conform to Performance Specification 1 in appendix B of this part.

Manufacturer Name/Model Number: COM

Parameter Monitored: OPACITY

Upper Permit Limit: 10 percent

Reference Test Method: CEM

Monitoring Frequency: CONTINUOUS

Averaging Method: 6 MINUTE AVERAGE

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 58: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.52b(a)(3)(ii), NSPS Subpart

Eb

Item 58.1:

The Compliance Demonstration activity will be performed for:

New York State Department of Environmental Conservation
Permit ID: 3-3342-00105/00012 Facility DEC ID: 3334200105



Emission Unit: 0-00001 Emission Point: 00001

Regulated Contaminant(s):
CAS No: 007440-43-9 CADMIUM

Item 58.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

On or after the the date on which the initial performance test is completed or is required to be completed, the facility shall not discharge into the atmosphere any gases that contain cadmium in excess of 10 micrograms per dry standard cubic meter, corrected to 7 percent oxygen.

Subsequent performance testing is required on an annual basis no less than 9 calendar months and no more than than 15 calendar months following previous testing. Five performance tests are required for each five year calendar period.

Parameter Monitored: CADMIUM

Upper Permit Limit: 10 micrograms per dry standard cubic meter (corrected to 7% oxygen)

Reference Test Method: EPA Reference method 29

Monitoring Frequency: ANNUALLY

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 59: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.52b(a)(4)(ii), NSPS Subpart

Eb

Item 59.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001 Emission Point: 00001

Regulated Contaminant(s):
CAS No: 007439-92-1 LEAD

Item 59.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

On or after the the date on which the initial performance test is completed or is required to be completed, the

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



facility shall not discharge into the atmosphere any gases that contain lead in excess of 140 micrograms per dry standard cubic meter, corrected to 7 percent oxygen.

Subsequent performance testing is required on an annual basis no less than 9 calendar months and no more than than 15 calendar months following previous testing. Five performance tests are required for each five year calendar period.

Parameter Monitored: LEAD

Upper Permit Limit: 140 micrograms per dry standard cubic meter (corrected to 7% oxygen)

Reference Test Method: EPA Reference method 29

Monitoring Frequency: ANNUALLY

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 60: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.52b(a)(5)(ii), NSPS Subpart

Eb

Item 60.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001

Emission Point: 00001

Regulated Contaminant(s):

CAS No: 007439-97-6

MERCURY

Item 60.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

On or after the the date on which the initial performance test is completed or is required to be completed, the facility shall not discharge into the atmosphere any gases that contain mercury in excess of 50 micrograms per dry standard cubic meter, corrected to 7 percent oxygen.

Subsequent performance testing is required on an annual basis no less than 9 calendar months and no more than than 15 calendar months following previous testing. Five performance tests are required for each five year calendar period.

Parameter Monitored: MERCURY

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



Upper Permit Limit: 50 micrograms per dry standard cubic
meter (corrected to 7% oxygen)
Reference Test Method: EPA Reference method 29
Monitoring Frequency: ANNUALLY
Averaging Method: Arithmetic average of stack test runs
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 61: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.52b(b)(1), NSPS Subpart Eb

Item 61.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001 Emission Point: 00001

Regulated Contaminant(s):
CAS No: 007446-09-5 SULFUR DIOXIDE

Item 61.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility shall conduct an initial performance test for Sulfur Dioxide. Compliance with the Sulfur Dioxide emission limit of 30 parts per million by volume, corrected to 7% Oxygen shall be determined using the continuous emission monitoring system.

Parameter Monitored: SULFUR DIOXIDE

Upper Permit Limit: 30 parts per million by volume (dry,
corrected to 7% O₂)

Reference Test Method: EPA Reference Method 6/6C

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 24 HOUR DAILY BLOCK (GEOMETRIC
AVERAGE)

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 62: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.52b(b)(1), NSPS Subpart Eb

Item 62.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001 Emission Point: 00001

Regulated Contaminant(s):
CAS No: 007446-09-5 SULFUR DIOXIDE



Item 62.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Following the date that the initial performance test is completed or required to be completed, compliance with the emission limit for sulfur dioxide shall be determined based on the 24-hour daily geometric average of the hourly emission concentrations using continuous emission monitoring system outlet data.

The facility shall install, calibrate, maintain, and operate a continuous emissions monitoring system for measuring sulfur dioxide emissions and shall follow the methods and procedures specified below.

At a minimum, valid continuous monitoring system hourly averages shall be obtained for 90 percent of the operating hours per calendar quarter and 95 percent of the operating days per calendar year that the affected facility is combusting municipal solid waste.

At least two data points per hour shall be used to calculate each 1-hour arithmetic average.

Each sulfur dioxide 1-hour arithmetic average shall be corrected to 7 percent oxygen on an hourly basis using the 1-hour arithmetic average of the oxygen (or carbon dioxide) continuous emission monitoring system data.

The 1-hour arithmetic averages shall be expressed in parts per million corrected to 7 percent oxygen (dry basis) and used to calculate the 24-hour daily geometric average emission concentrations. The 1-hour arithmetic averages shall be calculated using the data points required under §60.13(e)(2).

All valid continuous emission monitoring system data shall be used in calculating average emission concentrations even if the minimum continuous emission monitoring system data requirements are not met.

The procedures under §60.13 shall be followed for installation, evaluation, and operation of the continuous emission monitoring system.

The continuous emission monitoring system shall be operated according to Performance Specification 2 in appendix B of this part. For sources that have actual



inlet emissions less than 100 parts per million dry volume, the relative accuracy criterion for inlet sulfur dioxide continuous emission monitoring systems should be no greater than 20 percent of the mean value of the reference method test data in terms of the units of the emission standard, or 5 parts per million dry volume absolute value of the mean difference between the reference method and the continuous emission monitoring systems, whichever is greater.

During each relative accuracy test run of the continuous emission monitoring system required by Performance Specification 2 in appendix B of this part, sulfur dioxide and oxygen (or carbon dioxide) data shall be collected concurrently (or within a 30- to 60-minute period) by both the continuous emission monitors and the test methods specified below.

For sulfur dioxide, EPA Reference Method 6, 6A, or 6C, or as an alternative ASME PTC-19-10-1981—part10, shall be used.

For oxygen (or carbon dioxide), EPA Reference Method 3, 3A, or 3B, or as an alternative ASME PTC-19-10-1981—part10, as applicable, shall be used.

Quarterly accuracy determinations and daily calibration drift tests shall be performed in accordance with 40CFR Appendix F Procedure 1 in appendix F.

When sulfur dioxide emissions data are not obtained because of continuous emission monitoring system breakdowns, repairs, calibration checks, and/or zero and span adjustments, emissions data shall be obtained by using other monitoring systems as approved by EPA or EPA Reference Method 19 to provide, as necessary, valid emissions data for a minimum of 90 percent of the hours per calendar quarter and 95 percent of the hours per calendar year that the affected facility is operated and combusting municipal solid waste.

Manufacturer Name/Model Number: CEM
Parameter Monitored: SULFUR DIOXIDE
Upper Permit Limit: 30 parts per million by volume (dry,
corrected to 7% O₂)
Reference Test Method: Specification 2
Monitoring Frequency: CONTINUOUS
Averaging Method: 24 HOUR DAILY BLOCK (GEOMETRIC)

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



AVERAGE)
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 63: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.52b(b)(2), NSPS Subpart Eb

Item 63.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001 Emission Point: 00001

Regulated Contaminant(s):
CAS No: 007647-01-0 HYDROGEN CHLORIDE

Item 63.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

On or after the the date on which the initial performance test is completed or is required to be completed, the facility shall not discharge into the atmosphere any gases that contain hydrogen chloride in excess of 25 parts per million by volume (dry), corrected to 7 percent oxygen.

Subsequent performance testing is required on an annual basis no less than 9 calendar months and no more than than 15 calendar months following previous testing. Five performance tests are required for each five year calendar period.

Parameter Monitored: HYDROGEN CHLORIDE

Upper Permit Limit: 25 parts per million by volume (dry, corrected to 7% O₂)

Reference Test Method: EPA Reference method 26/26A

Monitoring Frequency: ANNUALLY

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 64: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.52b(c)(2), NSPS Subpart Eb

Item 64.1:
The Compliance Demonstration activity will be performed for:

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



Emission Unit: 0-00001

Emission Point: 00001

Regulated Contaminant(s):

CAS No: 001746-01-6 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

Item 64.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

On or after the the date on which the initial performance test is completed or is required to be completed, the facility shall not discharge into the atmosphere any gases that contain dioxin/furan total mass emissions that exceed 13 nanograms per dry standard cubic meter (total mass), corrected to 7 percent oxygen.

Subsequent performance testing is required on an annual basis no less than 9 calendar months and no more than than 15 calendar months following previous testing. Five performance tests are required for each five year calendar period.

Parameter Monitored: 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

Upper Permit Limit: 13 nanograms per dry standard cubic meter (corrected to 7% O₂)

Reference Test Method: EPA Reference Method 23

Monitoring Frequency: ANNUALLY

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 65: Compliance Demonstration

Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.52b(d)(1), NSPS Subpart Eb

Item 65.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001

Emission Point: 00001

Regulated Contaminant(s):

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

Item 65.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility shall conduct an initial performance test for Oxides of Nitrogen. Compliance with the Oxides of



Nitrogen emission limit of 180 parts per million by volume, corrected to 7% Oxygen (dry basis) shall be determined using the continuous emission monitoring system.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 180 parts per million by volume
(dry, corrected to 7% O₂)

Reference Test Method: EPA Reference Method 19

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 24 HOUR DAILY BLOCK (ARITHMETIC
AVERAGE)

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 66: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.52b(d)(1), NSPS Subpart Eb

Item 66.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001

Emission Point: 00001

Regulated Contaminant(s):

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

Item 66.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

During the first year of operation after the date on which the initial performance test is completed or is required to be completed, the facility shall not discharge into the atmosphere any gases that contain nitrogen oxides in excess of 180 parts per million by volume, corrected to 7 percent oxygen (dry basis)

The facility shall install, calibrate, maintain, and operate a continuous emissions monitoring system for measuring oxides of nitrogen emissions and shall follow the methods and procedures specified below.

The oxides of nitrogen emission limit shall be determined based on the 24-hour daily arithmetic average of the hourly emission concentrations using continuous emission monitoring system outlet data.

At a minimum, valid continuous monitoring system hourly averages shall be obtained for 90 percent of the operating hours per calendar quarter and 95 percent of the operating



days per calendar year that the affected facility is combusting municipal solid waste.

At least two data points per hour shall be used to calculate each 1-hour arithmetic average.

Each oxides of nitrogen 1-hour arithmetic average shall be corrected to 7 percent oxygen on an hourly basis using the 1-hour arithmetic average of the oxygen (or carbon dioxide) continuous emission monitoring system data.

The 1-hour arithmetic averages shall be expressed in parts per million corrected to 7 percent oxygen (dry basis) and used to calculate the 24-hour daily arithmetic average emission concentrations. The 1-hour arithmetic averages shall be calculated using the data points required under §60.13(e)(2).

All valid continuous emission monitoring system data shall be used in calculating average emission concentrations even if the minimum continuous emission monitoring system data requirements are not met.

The procedures under §60.13 shall be followed for installation, evaluation, and operation of the continuous emission monitoring system.

During each relative accuracy test run of the continuous emission monitoring system required by Performance Specification 2 in appendix B of this part, oxides of nitrogen and oxygen (or carbon dioxide) data shall be collected concurrently (or within a 30- to 60-minute period) by both the continuous emission monitors and the test methods specified below.

For oxides of nitrogen, EPA Reference Method 7, 7A, 7C, 7D or 7E shall be used.

For oxygen (or carbon dioxide), EPA Reference Method 3, 3A, or 3B, or as an alternative ASME PTC-19-10-1981—part10, as applicable, shall be used.

The span value of the continuous emission monitoring system shall be 125 percent of the maximum estimated hourly potential oxides of nitrogen emissions of the municipal waste combustor unit.

Quarterly accuracy determinations and daily calibration drift tests shall be performed in accordance with 40CFR Appendix F Procedure 1 in appendix F.

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



When oxides of nitrogen emissions data are not obtained because of continuous emission monitoring system breakdowns, repairs, calibration checks, and/or zero and span adjustments, emissions data shall be obtained by using other monitoring systems as approved by EPA or EPA Reference Method 19 to provide, as necessary, valid emissions data for a minimum of 90 percent of the hours per calendar quarter and 95 percent of the hours per calendar year that the affected facility is operated and combusting municipal solid waste.

Manufacturer Name/Model Number: CEM
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 180 parts per million by volume
(dry, corrected to 7% O₂)
Reference Test Method: Specification 2
Monitoring Frequency: CONTINUOUS
Averaging Method: 24 HOUR DAILY BLOCK (ARITHMETIC AVERAGE)
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 67: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.52b(d)(2), NSPS Subpart Eb

Item 67.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001 Emission Point: 00001

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

Item 67.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)
Monitoring Description:

After the first year of operation following the date on which the initial performance test is completed or is required to be completed, the facility shall not discharge into the atmosphere any gases that contain nitrogen oxides in excess of 150 parts per million by volume, corrected to 7 percent oxygen (dry basis).



Emission limit shall be determined based on the 24-hour daily arithmetic average of the hourly emission concentrations using continuous emission monitoring system outlet data.

The facility shall install, calibrate, maintain, and operate a continuous emissions monitoring system for measuring oxides of nitrogen emissions and shall follow the methods and procedures specified below.

The oxides of nitrogen emission limit shall be determined based on the 24-hour daily arithmetic average of the hourly emission concentrations using continuous emission monitoring system outlet data.

At a minimum, valid continuous monitoring system hourly averages shall be obtained for 90 percent of the operating hours per calendar quarter and 95 percent of the operating days per calendar year that the affected facility is combusting municipal solid waste.

At least two data points per hour shall be used to calculate each 1-hour arithmetic average.

Each oxides of nitrogen 1-hour arithmetic average shall be corrected to 7 percent oxygen on an hourly basis using the 1-hour arithmetic average of the oxygen (or carbon dioxide) continuous emission monitoring system data.

The 1-hour arithmetic averages shall be expressed in parts per million corrected to 7 percent oxygen (dry basis) and used to calculate the 24-hour daily arithmetic average emission concentrations. The 1-hour arithmetic averages shall be calculated using the data points required under §60.13(e)(2).

All valid continuous emission monitoring system data shall be used in calculating average emission concentrations even if the minimum continuous emission monitoring system data requirements are not met.

The procedures under §60.13 shall be followed for installation, evaluation, and operation of the continuous emission monitoring system.

During each relative accuracy test run of the continuous emission monitoring system required by Performance Specification 2 in appendix B of this part, oxides of nitrogen and oxygen (or carbon dioxide) data shall be collected concurrently (or within a 30- to 60-minute period) by both the continuous emission monitors and the



test methods specified below.

For oxides of nitrogen, EPA Reference Method 7, 7A, 7C, 7D or 7E shall be used.

For oxygen (or carbon dioxide), EPA Reference Method 3, 3A, or 3B, or as an alternative ASME PTC-19-10-1981—part10, as applicable, shall be used.

The span value of the continuous emission monitoring system shall be 125 percent of the maximum estimated hourly potential oxides of nitrogen emissions of the municipal waste combustor unit.

Quarterly accuracy determinations and daily calibration drift tests shall be performed in accordance with 40CFR Appendix F Procedure 1 in appendix F.

When oxides of nitrogen emissions data are not obtained because of continuous emission monitoring system breakdowns, repairs, calibration checks, and/or zero and span adjustments, emissions data shall be obtained by using other monitoring systems as approved by EPA or EPA Reference Method 19 to provide, as necessary, valid emissions data for a minimum of 90 percent of the hours per calendar quarter and 95 percent of the hours per calendar year that the affected facility is operated and combusting municipal solid waste.

Manufacturer Name/Model Number: CEM
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 150 parts per million by volume
(dry, corrected to 7% O₂)
Reference Test Method: Specification 2
Monitoring Frequency: CONTINUOUS
Averaging Method: 24 HOUR DAILY BLOCK (ARITHMETIC AVERAGE)
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 68: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR Subpart 202-1

Item 68.1:

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001

Emission Point: 00001

Process: 001

Item 68.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Air emission tests are required for trace contaminants, including but not limited to heavy metals (arsenic, beryllium, total chromium, hexavalent chromium, copper, nickel, zinc), total polycyclic aromatic hydrocarbons (PAH), formaldehyde, Benzo-a-pyrene, Hexachlorobenzene and polychlorinated biphenyls (PCB's).

The testing will be a single occurrence within 180 days of the introduction of MSW to the gasifier.

Monitoring Frequency: SINGLE OCCURRENCE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 69: Capping Monitoring Condition

Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 69.1:

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 231-5

Item 69.2:

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

Item 69.3:

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 69.4:

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

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 69.5:

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 69.6:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001 Emission Point: 00001
Process: 004 Emission Source: 000SH

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

Item 69.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The Startup Heater shall operate a maximum of 120 hours during any twelve consecutive month period. Operating hours will be continuously recorded using an installed chronometer. Natural Gas flow to the Startup Heater will be metered.

Work Practice Type: HOURS PER YEAR OPERATION

Upper Permit Limit: 120 hours

Monitoring Frequency: CONTINUOUS

Averaging Method: ANNUAL TOTAL ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2011.

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

Condition 70: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 227-1.3

Item 70.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001 Emission Point: 00001
Process: CLW

Item 70.2:

Compliance Demonstration shall include the following monitoring:

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



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

Monitoring Description:

The facility shall install, calibrate, maintain, and operate a continuous opacity monitoring system for measuring opacity and shall follow the methods and procedures specified below.

1. The output of the continuous opacity monitoring system shall be recorded on a 6-minute average basis.
2. The continuous opacity monitoring system shall be installed, evaluated, and operated in accordance with §60.13.
3. The continuous opacity monitoring system shall conform to Performance Specification 1 in appendix B of this part.

Manufacturer Name/Model Number: COM

Parameter Monitored: OPACITY

Upper Permit Limit: 10 percent

Reference Test Method: CEM

Monitoring Frequency: CONTINUOUS

Averaging Method: 6 MINUTE AVERAGE

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 71: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 227-1.7

Item 71.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001

Emission Point: 00001

Process: CLW

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

Item 71.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



Monitoring Description:

Compliance with the Sulfur Dioxide emission limit of 30 parts per million by volume, corrected to 7% Oxygen shall be determined using the continuous emission monitoring system.

Parameter Monitored: SULFUR DIOXIDE

Upper Permit Limit: 30 parts per million by volume (dry, corrected to 7% O₂)

Reference Test Method: EPA Reference Method 6/6C

Monitoring Frequency: CONTINUOUS

Averaging Method: 24 HOUR DAILY BLOCK (GEOMETRIC AVERAGE)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2011.

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

Condition 72: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 227-1.7

Item 72.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001

Emission Point: 00001

Process: CLW

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 72.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility shall not discharge into the atmosphere any gases that contain particulate matter in excess of 20 milligrams per dry standard cubic meter, corrected to 7 percent oxygen.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 20 milligrams per dry standard cubic meter (corrected to 7% oxygen)

Reference Test Method: EPA Method 5

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 73: Capping Monitoring Condition



Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 73.1:

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 231-5

Item 73.2:

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

Item 73.3:

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 73.4:

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 73.5:

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 73.6:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00002

Emission Point: 00002

Process: FLA

Emission Source: 000FL

Regulated Contaminant(s):

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

Item 73.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



Operating hours for the emergency flare is limited at or below 100 hours during any twelve consecutive month period.

The flare shall be equipped with a chronometer that logs hours of operation.

Work Practice Type: HOURS PER YEAR OPERATION

Upper Permit Limit: 100 hours

Monitoring Frequency: CONTINUOUS

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2011.

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

Condition 74: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.18(e), NSPS Subpart A

Item 74.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00002

Emission Point: 00002

Process: FLA

Emission Source: 000FL

Item 74.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Facility shall monitor flare to ensure that it is operated and maintained in conformance with its design.

Flare shall be operated at all times when Syngas may be vented to it.

The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame.

The syngas will pass through primary and secondary high efficiency cyclones for particulate removal prior to the flare.

The flare will be operated at a temperature high enough to adequately destroy all high molecular weight hydrocarbon compounds (tars).

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



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 1/30/2011.

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

Condition 75: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

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

Item 75.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00003

Process: 003

Emission Source: 000SB

Item 75.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility shall maintain monthly records of the amount
of natural gas fired by the startup boiler.

Monitoring Frequency: 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 76: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

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

Item 76.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00003

Emission Point: 00003

Item 76.2:

Compliance Demonstration shall include the following monitoring:

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



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: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 77: Capping Monitoring Condition
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 77.1:

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 231-5

Item 77.2:

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

Item 77.3:

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 77.4:

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 77.5:

The emission of pollutants that exceed the applicability thresholds for an applicable 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: Public Access to Recordkeeping for Facilities With State Facility Permits - 6 NYCRR 201-1.10 (a)

Where emission source owners and/or operators keep records pursuant to compliance with the operational flexibility requirements of 6 NYCRR Subpart 201-5.4(b)(1), and/or the emission capping requirements of 6 NYCRR Subparts 201-7.2(d), 201-7.3(f), 201-7.3(g), 201-7.3(h)(5), 201-7.3(i) and 201-7.3(j), the Department will make such records available to the public upon request in accordance with 6 NYCRR Part 616 - Public Access to Records. Emission source owners and/or operators must submit the records required to comply with the request within sixty working days of written notification by the Department of receipt of the request.

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

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

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

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state only enforceable.



Condition 78: Contaminant List

Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable State Requirement:ECL 19-0301

Item 78.1:

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

CAS No: 000630-08-0

Name: CARBON MONOXIDE

CAS No: 001746-01-6

Name: 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

CAS No: 007439-92-1

Name: LEAD

CAS No: 007439-97-6

Name: MERCURY

CAS No: 007440-43-9

Name: CADMIUM

CAS No: 007446-09-5

Name: SULFUR DIOXIDE

CAS No: 007647-01-0

Name: HYDROGEN CHLORIDE

CAS No: 007664-41-7

Name: AMMONIA

CAS No: 0NY075-00-0

Name: PARTICULATES

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

Condition 79: Unavoidable noncompliance and violations

Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 201-1.4

Item 79.1:

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 80: Emission Unit Definition
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 80.1:

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

Emission Unit: 0-00001

Emission Unit Description:

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



The Emission Unit consists of a Solar Titan 130 Combustion Turbine, Process Combuster and Startup Heater. The exhaust from the Combustion Turbine will be controlled by a SCR/OC control system. The Process Combuster emissions will be controlled by a separate SCR/OC/FF control system. Emissions from all three sources exhaust through EP00001.

Building(s): CTB
GPB

Item 80.2:

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

Emission Unit: 0-00002

Emission Unit Description:

Operation of a flare. Emissions exhaust through EP00002.

Item 80.3:

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

Emission Unit: 0-00003

Emission Unit Description:

Operation of a startup boiler. Emissions exhaust through EP00003.

Building(s): CTB
GPB

Condition 81: Compliance Demonstration

Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 81.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 81.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Total facility oxides of nitrogen emissions shall be compiled monthly and submitted annually.

Monitoring Frequency: MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2011.

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

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



Condition 82: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 82.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007664-41-7 AMMONIA

Item 82.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility will maintain records to verify concentration of ammonia stored onsite is less than 19% concentration.

Monitoring Frequency: PER DELIVERY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2011.

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

Condition 83: Air pollution prohibited
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 211.2

Item 83.1:

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.

**** Emission Unit Level ****

Condition 84: Emission Point Definition By Emission Unit
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 84.1:

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

Emission Unit: 0-00001



Emission Point: 00001
Height (ft.): 90 Diameter (in.): 84
NYTMN (km.): 4593.93 NYTME (km.): 563.49 Building: CTB

Item 84.2:

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

Emission Unit: 0-00002

Emission Point: 00002
Height (ft.): 90 Diameter (in.): 18

Item 84.3:

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

Emission Unit: 0-00003

Emission Point: 00003
Height (ft.): 45 Diameter (in.): 24
NYTMN (km.): 4593.93 NYTME (km.): 563.49 Building: CTB

**Condition 85: Process Definition By Emission Unit
Effective between the dates of 12/03/2010 and Permit Expiration Date**

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 85.1:

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

Emission Unit: 0-00001
Process: 001 Source Classification Code: 2-02-007-01
Process Description: Combustion Turbine firing SYNGAS.

Emission Source/Control: 000CT - Combustion
Design Capacity: 154 million Btu per hour

Emission Source/Control: CTCAT - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: CTSCR - Control
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 85.2:

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

Emission Unit: 0-00001
Process: 002
Process Description: Process Combuster combusting solid char.

Emission Source/Control: 000PC - Combustion
Design Capacity: 80 million BTUs per hour



Emission Source/Control: PCCAT - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: PCFAB - Control
Control Type: FABRIC FILTER

Emission Source/Control: PCSCR - Control
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 85.3:

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

Emission Unit: 0-00001
Process: 004
Process Description: Startup Heater firing natural gas.

Emission Source/Control: 000SH - Combustion

Item 85.4:

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

Emission Unit: 0-00001
Process: CLW
Process Description:
Combustion turbine and process combustor operating on clean wood only. Clean wood means untreated wood or untreated wood products including clean untreated lumber, tree stumps (whole or chipped), and tree limbs (whole or chipped). Clean wood does not include yard waste or construction, renovation and demolition wastes.

Emission Source/Control: 000CT - Combustion
Design Capacity: 154 million Btu per hour

Emission Source/Control: 000PC - Combustion
Design Capacity: 80 million BTUs per hour

Emission Source/Control: CTCAT - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: CTSCR - Control
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: PCCAT - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: PCFAB - Control
Control Type: FABRIC FILTER

Emission Source/Control: PCSCR - Control
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)



Item 85.5:

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

Emission Unit: 0-00002
Process: FLA Source Classification Code: 5-03-007-89
Process Description: Flare combusting SYNGAS.

Emission Source/Control: 000FL - Process

Item 85.6:

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

Emission Unit: 0-00003
Process: 003
Process Description: Startup boiler firing natural gas.

Emission Source/Control: 000SB - Combustion
Design Capacity: 20 million Btu per hour

Condition 86: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable State Requirement: 6 NYCRR Subpart 201-5

Item 86.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001

Item 86.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

- Fuel Make-Up - The processed fuel will consist of the organic component on incoming materials plus selected plastics. These are acceptable fuel components:
1. Unadulterated wood: unpainted dimensional and engineered wood materials
 2. Raw wood materials including tree stumps, tree parts, brush, grass clippings, etc.
 3. Unpainted pallets and crating materials
 4. Non-recyclable cardboard, paper and cellulose material.
 5. Non-recyclable plastics.
 6. Textiles
 7. Food materials
 8. Other miscellaneous biomass materials.

Prohibited Fuel materials: The facility shall not gasify;



- a. Those materials that are prohibited by state or federal law;
- b. Those materials that are prohibited by this permit and Part 360 permit;
- c. Lead acid batteries;
- d. Beryllium containing waste, as defined in 40 CFR 61, Subpart C.
- e. Nickel-cadmium batteries
- f. Mercury containing devices and lamps
- g. CCA or painted wood, pallets and crafted materials
- h. PVC plastics
- i. polyethylene or polyurethane floor coverings.
- j. Tires

The facility shall conduct biomass feedstock sampling according to this approved plan. Sampling will occur just prior to the gasification tower at the exit of the storage silos

- Frequency will be once per shift for:
 - o Analytical Parameters
 - 1. Loose Density
 - 2. Non - Biomass Content for quality control
 - 3. Moisture Content
- Frequency will be once per week for above items plus:
 - o Analytical Parameters
 - 1. Proximate analysis
 - 2. Ultimate analysis
 - 3. Ash elemental analysis
- Frequency will be once per month for above items plus:
 - o Analytical Parameters
 - 1. Trace Metals Analysis

Records of all parameters evaluated shall be maintained by the facility and reported to the Department monthly.



The facility will shall identify any Non-Biomass content found, evaluate possible causes and document any corrective measures taken.

Sampling plan to be followed from first time MSW is included in feedstock and will end two calendar months after the date the initial performance test is performed.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: MONTHLY (CALENDAR)

Reports due 15 days after the reporting period.

The initial report is due 1/15/2011.

Subsequent reports are due every 1 calendar month(s).

Condition 87: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 87.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001

Process: 001

Emission Source: 000CT

Regulated Contaminant(s):

CAS No: 000630-08-0

CARBON MONOXIDE

Item 87.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The facility shall not discharge into the atmosphere any gases that contain carbon monoxide in excess of 5 ppm by volume corrected to 7% oxygen (dry basis) from the combustion turbine. The concentration will be measured after the catalyst but prior to confluence of the exhaust streams in the common stack.

The facility shall install, calibrate, maintain, and operate a continuous emission monitoring system for measuring carbon monoxide at the combustor outlet and record the output of the system and shall follow the procedures and methods specified below.



The continuous emission monitoring system shall be operated according to 40CFR 60 Appendix B Performance Specification 4A.

During each relative accuracy test run of the continuous emission monitoring system required by Performance Specification 4A, carbon monoxide and oxygen (or carbon dioxide) data shall be collected concurrently (or within a 30- to 60-minute period) by both the continuous emission monitors and the test methods as specified.

For carbon monoxide, EPA Reference Method 10, 10A, or 10B shall be used.

For oxygen (or carbon dioxide), EPA Reference Method 3, 3A, or 3B, or ASME PTC-19-10-1981—part 10 (incorporated by reference, see §60.17), as applicable, shall be used.

The span value of the continuous emission monitoring system shall be 125 percent of the maximum estimated hourly potential carbon monoxide emissions of the municipal waste combustor unit.

The 4-hour block shall be calculated from 1-hour arithmetic averages expressed in parts per million by volume corrected to 7 percent oxygen (dry basis). The 1-hour arithmetic averages shall be calculated using the data points generated by the continuous emission monitoring system. At least two data points shall be used to calculate each 1-hour arithmetic average.

Manufacturer Name/Model Number: CEM
Parameter Monitored: CARBON MONOXIDE
Upper Permit Limit: 5 parts per million by volume (dry, corrected to 7% O₂)
Reference Test Method: Specification 4A
Monitoring Frequency: CONTINUOUS
Averaging Method: 4-HOUR BLOCK (ARITHMETIC AVERAGE)
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 88: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable State Requirement: 6 NYCRR Subpart 201-5

Item 88.1:



The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001

Process: 002

Emission Source: 000PC

Item 88.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

a combustion index of 99.9 percent based on a running eight-hour average of readings, and 99.95 percent, based on a running seven-day average of reading.. The combustion index is determined by:

$$CI = (CO_2 \times 100) / (CO_2 + CO)$$

where

CI = combustion index

CO = carbon monoxide in the exhaust gas, parts per million by volume (dry)

CO₂ = carbon dioxide in the exhaust gas, parts per million by volume (dry)

Monitoring Frequency: CONTINUOUS

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 89: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 89.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001

Process: 002

Emission Source: 000PC

Regulated Contaminant(s):

CAS No: 000630-08-0

CARBON MONOXIDE

Item 89.2:

Compliance Demonstration shall include the following monitoring:

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The facility shall not discharge into the atmosphere any gases that contain carbon monoxide in excess of 25 ppm by volume corrected to 7% oxygen (dry basis) from the process combustor. The concentration will be measured after the catalyst but prior to confluence of the exhaust streams in the common stack.

The facility shall install, calibrate, maintain, and operate a continuous emission monitoring system for measuring carbon monoxide at the combustor outlet and record the output of the system and shall follow the procedures and methods specified below.

The continuous emission monitoring system shall be operated according to 40CFR 60 Appendix B Performance Specification 4A.

During each relative accuracy test run of the continuous emission monitoring system required by Performance Specification 4A, carbon monoxide and oxygen (or carbon dioxide) data shall be collected concurrently (or within a 30- to 60-minute period) by both the continuous emission monitors and the test methods as specified.

For carbon monoxide, EPA Reference Method 10, 10A, or 10B shall be used.

For oxygen (or carbon dioxide), EPA Reference Method 3, 3A, or 3B, or ASME PTC-19-10-1981—part 10 (incorporated by reference, see §60.17), as applicable, shall be used.

The span value of the continuous emission monitoring system shall be 125 percent of the maximum estimated hourly potential carbon monoxide emissions of the municipal waste combustor unit.

The 4-hour block shall be calculated from 1-hour arithmetic averages expressed in parts per million by volume corrected to 7 percent oxygen (dry basis). The 1-hour arithmetic averages shall be calculated using the data points generated by the continuous emission monitoring system. At least two data points shall be used to calculate each 1-hour arithmetic average.

Manufacturer Name/Model Number: CEM

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 25 parts per million by volume (dry,

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



Condition 91: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 91.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001 Emission Point: 00001

Regulated Contaminant(s):
CAS No: 007439-97-6 MERCURY

Item 91.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

On or after the the date on which the initial performance test is completed or is required to be completed, the facility shall not discharge into the atmosphere any gases that contain mercury in excess of 28 micrograms per dry standard cubic meter, corrected to 7 percent oxygen.

Subsequent performance testing is required on an annual basis no less than 9 calendar months and no more than than 15 calendar months following previous testing. Five performance tests are required for each five year calendar period.

Parameter Monitored: MERCURY

Upper Permit Limit: 28 micrograms per dry standard cubic meter (corrected to 7% oxygen)

Reference Test Method: EPA Reference method 29

Monitoring Frequency: ANNUALLY

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 92: Compliance Demonstration
Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 92.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001 Emission Point: 00001

Regulated Contaminant(s):
CAS No: 001746-01-6 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN



Item 92.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

On or after the the date on which the initial performance test is completed or is required to be completed, the facility shall not discharge into the atmosphere any gases that contain dioxin equivalent emissions that exceed 0.2 nanograms per dry standard cubic meter, corrected to 7 percent oxygen.

Subsequent performance testing is required on an annual basis no less than 9 calendar months and no more than than 15 calendar months following previous testing. Five performance tests are required for each five year calendar period.

Parameter Monitored: 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

Upper Permit Limit: 0.2 nanograms per dry standard cubic meter (corrected to 7% O₂)

Reference Test Method: EPA Reference Method 23

Monitoring Frequency: ANNUALLY

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 93: Compliance Demonstration

Effective between the dates of 12/03/2010 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 93.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 0-00001

Emission Point: 00001

Regulated Contaminant(s):

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

Item 93.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The facility shall not emit gases that contain Oxides of Nitrogen in excess of of 25 parts per million by volume, corrected to 15% Oxygen (dry basis).

New York State Department of Environmental Conservation

Permit ID: 3-3342-00105/00012

Facility DEC ID: 3334200105



Manufacturer Name/Model Number: CEM

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 25 parts per million by volume (dry,
corrected to 15% O₂)

Reference Test Method: Specification 2

Monitoring Frequency: CONTINUOUS

Averaging Method: 24 HOUR DAILY BLOCK (ARITHMETIC
AVERAGE)

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).

