



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

**IDENTIFICATION INFORMATION**

Permit Type: Air Title V Facility  
Permit ID: 8-4532-00075/00029  
Effective Date: 07/19/2013 Expiration Date: 07/18/2018

Permit Issued To: SENECA ENERGY II LLC  
2999 JUDGE RD  
OAKFIELD, NY 14125

Contact: PETER H ZELIFF  
INNOVATIVE ENERGY SYSTEMS LLC  
2999 JUDGE RD  
OAKFIELD, NY 14125-9771  
(585) 948-8580

Facility: SENECA ENERGY LFGTE FACILITY  
ST RTE 414|RENEWABLE RESOURCES PARK  
SENECA FALLS, NY 13148

Contact: PETER H ZELIFF  
INNOVATIVE ENERGY SYSTEMS LLC  
2999 JUDGE RD  
OAKFIELD, NY 14125-9771  
(585) 948-8580

Description:

This renewed and modified Title V permit for the Seneca Energy Landfill Gas to Energy (LFGTE) facility includes a new 6,000 standard cubic foot per minute (scfm) High BTU fuel gas production plant which will consist of the construction of a 184' x 70' x 30' building to house the gas compression and treatment equipment, a control building approx. 24' x 70' x 23', a 40' x 70" (3,000 scfm) thermal oxidizer for combustion of the off-gas, and a 2,000 scfm enclosed flare. The new plant will clean, compress and condition landfill gas so that the product gas can meet natural gas utility specifications. The resulting product will be separated into two streams: methane to be fed into the existing Chesapeake pipeline that runs in front of the LFGTE plant along Route 414 and waste gas to be burned in a thermal oxidizer. The flare will be used if the high BTU plant and the thermal oxidizer are down.

The project required a Best Available Control Technology (BACT) Review for greenhouse gases pursuant to 6 NYCRR Part 231-8. The thermal oxidizer was determined to meet BACT because it was the most efficient option. The facility has a cap under 6NYCRR Part 201-7.1 for carbon dioxide equivalents on emission unit 1-BTUPL for all emissions related to the high BTU plant.

The renewed and modified Title V permit contains permit conditions that limit (cap) Oxides of Nitrogen (NO<sub>x</sub>) to 214.4 tons per year and Carbon Monoxide (CO) to 522.9



tons per year for the engine Emission Unit 3-Stage. Potential NO<sub>x</sub> and CO emissions from the new high BTU plant are less than 40 tons each per year, below the significant increase threshold specified in 6NYCRR Part 231-8 Modifications to Existing Major Facilities in Attainment Areas. In addition, the facility must comply with 6 NYCRR Part 227-2 NO<sub>x</sub> Reasonably Available Control Technology (RACT) Limits.

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:           KIMBERLY A MERCHANT  
  6274 EAST AVON-LIMA RD  
  AVON, NY 14414-9519

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 8 HEADQUARTERS



**DEC GENERAL CONDITIONS**

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

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

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

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

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

**Item 1.1:**

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

**Item 1.2:**

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

**Item 1.3:**

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

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

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

**Item 2.1:**

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

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

**Applicable State Requirement: 6 NYCRR 621.11**

**Item 3.1:**

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

**Item 3.2:**

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

**Item 3.3:**

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



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

**Item 4.1:**

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

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

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

**Condition 5: Submission of application for permit modification or renewal-REGION 8 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 8 Headquarters  
Division of Environmental Permits  
6274 Avon-Lima Road  
Avon, NY 14414-9519  
(585) 226-2466

**New York State Department of Environmental Conservation**

Permit ID: 8-4532-00075/00029

Facility DEC ID: 8453200075



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

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

**IDENTIFICATION INFORMATION**

Permit Issued To: SENECA ENERGY II LLC  
2999 JUDGE RD  
OAKFIELD, NY 14125

Facility: SENECA ENERGY LFGTE FACILITY  
ST RTE 414|RENEWABLE RESOURCES PARK  
SENECA FALLS, NY 13148

Authorized Activity By Standard Industrial Classification Code:  
4911 - ELECTRIC SERVICES  
4931 - ELEC & OTHER SERVICES COMBINED

Permit Effective Date: 07/19/2013

Permit Expiration Date: 07/18/2018



## LIST OF CONDITIONS

### FEDERALLY ENFORCEABLE CONDITIONS

#### Facility Level

- 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
- 2 6 NYCRR 201-6.4 (a) (7): Fees
- 3 6 NYCRR 201-6.4 (c): Recordkeeping and Reporting of Compliance Monitoring
- 4 6 NYCRR 201-6.4 (c) (2): Records of Monitoring, Sampling, and Measurement
- 5 6 NYCRR 201-6.4 (c) (3) (ii): Compliance Certification
- 6 6 NYCRR 201-6.4 (e): Compliance Certification
- 7 6 NYCRR 202-2.1: Compliance Certification
- 8 6 NYCRR 202-2.5: Recordkeeping requirements
- 9 6 NYCRR 215.2: Open Fires - Prohibitions
- 10 6 NYCRR 200.7: Maintenance of Equipment
- 11 6 NYCRR 201-1.7: Recycling and Salvage
- 12 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
- 13 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
- 14 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 15 6 NYCRR 201-6.4 (a) (4): Requirement to Provide Information
- 16 6 NYCRR 201-6.4 (a) (8): Right to Inspect
- 17 6 NYCRR 201-6.4 (f) (6): Off Permit Changes
- 18 6 NYCRR 202-1.1: Required Emissions Tests
- 19 40 CFR Part 68: Accidental release provisions.
- 20 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 21 6 NYCRR Subpart 201-6: Emission Unit Definition
- 22 6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
- 23 6 NYCRR 201-6.4 (f): Compliance Certification
- 24 6 NYCRR 211.1: Air pollution prohibited
- 25 6 NYCRR 231-2.4: Emission offset requirements
- 26 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 27 40CFR 60.7(a), NSPS Subpart A: Modification Notification
- 28 40CFR 60.7(b), NSPS Subpart A: Recordkeeping requirements.
- 29 40CFR 60.7(c), NSPS Subpart A: Compliance Certification
- 30 40CFR 60.7(d), NSPS Subpart A: Excess emissions report.
- 31 40CFR 60.7(e), NSPS Subpart A: Monitoring frequency waiver.
- 32 40CFR 60.7(f), NSPS Subpart A: Facility files for subject sources.
- 33 40CFR 60.7(g), NSPS Subpart A: Notification Similar to State or Local Agency
- 34 40CFR 60.8(a), NSPS Subpart A: Performance testing timeline.
- 35 40CFR 60.8(b), NSPS Subpart A: Performance Test Methods - Waiver
- 36 40CFR 60.8(c), NSPS Subpart A: Required performance test information.
- 37 40CFR 60.8(d), NSPS Subpart A: Prior notice.
- 38 40CFR 60.8(e), NSPS Subpart A: Performance testing facilities.
- 39 40CFR 60.8(f), NSPS Subpart A: Number of required tests.
- 40 40CFR 60.9, NSPS Subpart A: Availability of information.
- 41 40CFR 60.11, NSPS Subpart A: Opacity standard compliance testing.
- 42 40CFR 60.12, NSPS Subpart A: Circumvention.



- 43 40CFR 60.14, NSPS Subpart A: Modifications.
- 44 40CFR 60.15, NSPS Subpart A: Reconstruction
- 45 40CFR 60.4246, NSPS Subpart JJJJ: Subpart A provisions that apply to facilities subject to Subpart JJJJ
- 46 40CFR 63.6665, Subpart ZZZZ: General provisions
- Emission Unit Level**
- 47 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 48 6 NYCRR Subpart 201-6: Process Definition By Emission Unit
- 49 6 NYCRR 201-7.1: Emission Unit Permissible Emissions

**EU=1-BTUPL**

- \*50 6 NYCRR 201-7.1: Capping Monitoring Condition

**EU=1-BTUPL,Proc=GAS**

- 51 40CFR 63, Subpart ZZZZ: Compliance Certification

**EU=1-BTUPL,Proc=GAS,ES=2KFLR**

- 52 6 NYCRR 212.4 (a): Compliance Certification
- 53 6 NYCRR 212.4 (a): Compliance Certification
- 54 6 NYCRR 212.4 (a): Compliance Certification
- 55 6 NYCRR 212.4 (a): Compliance Certification
- 56 6 NYCRR 212.6 (a): Compliance Certification
- 57 6 NYCRR Subpart 231-8: Compliance Certification

**EU=1-BTUPL,Proc=GAS,ES=3KOXD**

- 58 6 NYCRR 212.4 (a): Compliance Certification
- 59 6 NYCRR 212.4 (a): Compliance Certification
- 60 6 NYCRR 212.4 (a): Compliance Certification
- 61 6 NYCRR 212.4 (a): Compliance Certification
- 62 6 NYCRR 212.6 (a): Compliance Certification
- 63 6 NYCRR Subpart 231-8: Compliance Certification

**EU=1-BTUPL,Proc=GAS,ES=TRMT2**

- 64 40CFR 60.752(b)(2)(iii)(C), NSPS Subpart WWW: Compliance Certification
- 65 40CFR 60.752(b)(2)(iii)(C), NSPS Subpart WWW: Compliance Certification
- 66 40CFR 63.6(e)(3), Subpart A: Startup, Shutdown and Malfunction

**EU=3-STAGE,Proc=ST3**

- 67 6 NYCRR 227-1.3 (a): Compliance Certification
- 68 6 NYCRR 227-2.4 (f) (2): Compliance Certification
- 69 6 NYCRR 227-2.6 (c): Compliance Certification
- 70 6 NYCRR Subpart 257-4: Compliance Certification
- 71 6 NYCRR Subpart 257-4: Compliance Certification
- 72 6 NYCRR Subpart 257-4: Compliance Certification
- 73 6 NYCRR Subpart 257-7: Compliance Certification
- 74 40CFR 60.4230(a)(4)(i), NSPS Subpart JJJJ: Applicability of facilities subject to Subpart JJJJ
- 75 40CFR 60.4230(a)(4)(i), NSPS Subpart JJJJ: Compliance Certification
- 76 40CFR 63, Subpart ZZZZ: Compliance Certification
- 77 40CFR 63, Subpart ZZZZ: Compliance Certification

**EU=3-STAGE,Proc=ST3,ES=TRMT1**



- 78 40CFR 60.752(b)(2)(iii)(C), NSPS Subpart WWW: Compliance Certification
- 79 40CFR 60.752(b)(2)(iii)(C), NSPS Subpart WWW: Compliance Certification
- 80 40CFR 63.6(e)(3), Subpart A: Startup, Shutdown and Malfunction

**STATE ONLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 81 ECL 19-0301: Contaminant List
- 82 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 83 6 NYCRR 201-1.4: Unavoidable noncompliance and violations

NOTE: \* preceding the condition number indicates capping.



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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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



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

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

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

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

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

**Condition 1: Acceptable Ambient Air Quality  
Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement:6 NYCRR 200.6**

**Item 1.1:**

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

**Condition 2: Fees  
Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 2.1:**

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

**Condition 3: Recordkeeping and Reporting of Compliance Monitoring  
Effective between the dates of 07/19/2013 and 07/18/2018**

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



**Item 3.1:**

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

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

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

**Condition 4: Records of Monitoring, Sampling, and Measurement  
Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 4.1:**

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

**Condition 5: Compliance Certification  
Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 5.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 5.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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



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

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

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

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



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

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

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

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

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

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2014.  
Subsequent reports are due every 6 calendar month(s).



**Condition 6: Compliance Certification**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 6.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 6.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

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

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

The address for the RAPCE is as follows:

NYSDEC Region 8 Headquarters  
6274 East Avon-Lima Road  
Avon, NY 14414-9519

The address for the BQA is as follows:

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

Monitoring Frequency: ANNUALLY  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2014.  
Subsequent reports are due on the same day each year

**Condition 7: Compliance Certification**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 7.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 7.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

Emission statements shall be submitted on or before April 15th each year for emissions of the previous calendar year. Statements are to be mailed to: New York State Department of Environmental Conservation, Division of Air Resources, Bureau of Air Quality Planning, 625 Broadway,

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

**Condition 8: Recordkeeping requirements**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 8.1:**

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

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

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

**Condition 9: Open Fires - Prohibitions**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement:6 NYCRR 215.2**

**Item 9.1:**

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

**Item 9.2**

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

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



- (g) Small fires that are used to dispose of a flag or religious item, and small fires or other smoke producing process where not otherwise prohibited by law that are used in connection with a religious ceremony.
- (h) Burning on an emergency basis of explosive or other dangerous or contraband materials by police or other public safety organization.
- (i) Prescribed burns performed according to Part 194 of this Title.
- (j) Fire training, including firefighting, fire rescue, and fire/arson investigation training, performed under applicable rules and guidelines of the New York State Department of State's Office of Fire Prevention and Control. For fire training performed on acquired structures, the structures must be emptied and stripped of any material that is toxic, hazardous or likely to emit toxic smoke (such as asbestos, asphalt shingles and vinyl siding or other vinyl products) prior to burning and must be at least 300 feet from other occupied structures. No more than one structure per lot or within a 300 foot radius (whichever is bigger) may be burned in a training exercise.
- (k) Individual open fires as approved by the Director of the Division of Air Resources as may be required in response to an outbreak of a plant or animal disease upon request by the commissioner of the Department of Agriculture and Markets, or for the destruction of invasive plant and insect species.
- (l) Individual open fires that are otherwise authorized under the environmental conservation law, or by rule or regulation of the Department.

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

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

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

**Condition 10: Maintenance of Equipment  
Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement:6 NYCRR 200.7**

**Item 10.1:**

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

**Condition 11: Recycling and Salvage  
Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 11.1:**

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



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

**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 12.1:**

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

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

**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 13.1:**

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

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

**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 14.1:**

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

**Condition 15: Requirement to Provide Information**

**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 15.1:**

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

**Condition 16: Right to Inspect**







Effective between the dates of 07/19/2013 and 07/18/2018

Applicable Federal Requirement:6 NYCRR Subpart 201-6

**Item 21.1:**

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

Emission Unit: 1-BTUPL

Emission Unit Description:

1. The emission unit consists of a landfill gas to pipeline grade natural gas conversion plant (High BTU Plant). The landfill gas (LFG) received by the High BTU plant is produced by the decomposition of municipal solid waste in a nearby landfill. A LFG treatment system (initial filtration, compression, cooling and dewatering) will be utilized in accordance with 40 CFR 60.752(b)(iii)(C). Components of the specified gas treatment system are not equipped with atmospheric vents. Therefore, all of the LFG received and treated by the system is directed to the enclosed flare during “upset” conditions or on to the refining process designed to recover the methane from the LFG. The gas treatment and refining processes are installed in building BTUPLANT. The product gas will be sold and delivered to customers via a natural gas transmission line. Waste gas from the refining process will be controlled using a thermal oxidizer or the enclosed flare. In general, the gas refining process consists of the following major unit operations:
  - a. Sulfur Removal
  - b. Activated Carbon for NMOC adsorption
  - c. Membrane separation for CO<sub>2</sub> removal
  - d. Pressure swing adsorption for nitrogen and oxygen removal (as needed)

All pumps and gas compressors in the gas refining process are electricity driven.

2. Ancillary equipment with insignificant emissions [exempt pursuant to 6NYCRR Part 201-3.1(b)] that supports the High Btu Plant operations.

- a. A 200 kW IC engine generator, which is operated to supply the facility with limited temporary power when utility outages occur. The emergency generator is powered with diesel fuel that is supplied from a 400 gallon above ground storage tank.

Building(s): BTUPLANT

**Item 21.2:**

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



Emission Unit: 3-STAGE

Emission Unit Description:

1. The emission unit consists of 14 lean-burn CAT G3516 (01ENG-14ENG) and 4 lean-burn CAT G3520C (15ENG-18ENG) gas IC engines connected to individual electricity generators installed in building ENGBLDG. All eighteen engines are fueled with treated landfill gas (LFG) that is produced by the decomposition of municipal solid waste in a nearby landfill. The electricity that is produced by this equipment is sold on the open market to contract purchasers. A LFG treatment system (filtration, compression, cooling and dewatering) is utilized in accordance with 40 CFR 60.752(b)(iii)(C). Components of the specified gas treatment system are not equipped with atmospheric vents. Therefore, all of the LFG received and treated by the system is directed to the IC engines for use as a fuel.

2. Ancillary equipment with insignificant emissions [exempt pursuant to 6NYCRR Part 201-3.1(b)] that supports the electricity generation operations.

a. Engine radiator coolant (new and used) will be stored in separate above ground holding tanks positioned on the premises of the LFG fueled IC engine electricity generation operations. The new and used engine radiator coolant storage tanks will each have capacities of 1,000 gallons.

b. Engine lube oil (new and used) will be stored in separate above ground holding tanks positioned on the premises of the LFG fueled IC engine electricity generation operations. The new lube oil storage tanks will have capacities of 8,000 gallons and 6,000 gallons. The used oil storage tank will have a capacity of 2,000 gallons.

c. A 100 kW IC engine generator, which is operated to supply the facility with limited temporary power when utility outages occur. The emergency generator is powered with diesel fuel that is supplied from a 200 gallon above ground storage tank.

Building(s): ENGBLDG

**Condition 22: Progress Reports Due Semiannually**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 22.1:**



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

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

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

**Condition 23: Compliance Certification**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 23.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 23.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operational Flexibility Plan

I. Protocol Objective

The objective of this condition is to maximize operational flexibility at the facility by building into the Title V permit the capability to make certain changes using a protocol. As provided under 6 NYCRR Part 201-6.4(f)(2), changes made under an approved protocol are not subject to the Title V permit modification provisions under 6 NYCRR Part 201-6.6.

II. Protocol

A. Criteria

1. Changes reviewed under this protocol shall be evaluated in accordance with the following criteria:

a. All underlying federal and state requirements with which the new or changed emission source must comply must exist in the Title V permit. Existing permit conditions may be amended to reference or include the new or changed emission source and any related information, and/or subject to DEC approval, new conditions proposed, to provide the appropriate monitoring parameters.

b. Any new or changed emission source shall not be part of a source project that results in a significant net



emissions increase that exceeds the New Source Review (NSR) thresholds identified in 6 NYCRR Part 231.

c. The facility shall not use the protocol to make physical changes or changes in the method of operation of existing emissions sources that would require a new or modified federally enforceable cap either to avoid major NSR requirements or to address and comply with other Clean Air Act requirements, such as RACT. Such changes must be addressed via the significant permit modification provisions.

**B. Notification Requirements for Changes Reviewed under the Protocol**

1. The facility shall notify the Department in writing of the proposed change.

2. Notifications made in accordance with this protocol will include the following documentation:

a. Identification of the Title V permit emission unit, process(es), emission sources and emission points affected by the proposed change with applicable revisions to the Emission Unit structure;

b. Description of the proposed change, including operating parameters;

c. Identification and description of emissions control technology;

d. Documentation of the project's, or emission source's, compliance with respect to all state and/or federally applicable requirements, including the following steps:

i. Calculate the emission rate potential and maximum projected actual annual emission rates for all contaminants affected by the change.

ii. Submit documentation of major NSR program non-applicability for NYSDEC review and approval.

iii. Identify and evaluate the applicability of all regulations likely to be triggered by the new or changed emission source.

iv. Propose any operating and record keeping procedures necessary to ensure compliance.



e. Any other relevant information used for the evaluation of the proposed project or emission source under the Protocol.

C. Review and Approval of Changes

1. The Department shall respond to the permittee in writing with a determination within 15 days of receipt of the notification of the permittee.

2. The Department may require a permit modification, in order to impose new applicable requirements or additional permit conditions if it determines that changes proposed pursuant to notification do not meet the criteria under II. A above or that the changes may have a significant air quality impact or be otherwise potentially significant under SEQRA (6 NYCRR Part 617).

3. The Department may require that the permittee not undertake the proposed change until it completes a more detailed review of the proposed change, which may include potential air quality impacts and/or applicable requirements. The Department's determination shall include a listing of information required for further review, if necessary.

D. Additional Compliance Obligations for Changes Made Under this Protocol

1. Upon commencement of the change, the facility shall comply with all applicable requirements and permit conditions, including any amended or proposed in accordance with II.A.1.a above.

2. The facility shall provide with the semi-annual monitoring report, a summary of the changes made in accordance with this protocol and a statement of the compliance status of each. Changes reported should include all those made during the corresponding period and any earlier changes that have not yet been incorporated into the permit.

Monitoring Frequency: SEMI-ANNUALLY

Reporting Requirements: SEMI-ANNUALLY (ANNIVERSARY)

Initial Report Due: 02/17/2014 for the period 07/19/2013 through 01/18/2014

**Condition 24: Air pollution prohibited  
Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement:6 NYCRR 211.1**





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

**Item 27.1:**

Any owner or operator subject to 40 CFR Part 60 shall furnish the Administrator and this office with the following information:

- 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 40 CFR Part 60. 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, productivity capability of the facility before and after the change, and the expected completion date of the change. The Administrator and/or this Department may request additional information regarding the change.

**Condition 28: Recordkeeping requirements.  
Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 28.1:**

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 29: Compliance Certification  
Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 29.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 29.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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 1/30/2014.

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

**Condition 30: Excess emissions report.**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 30.1:**

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 31: Monitoring frequency waiver.**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 31.1: 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 32: Facility files for subject sources.**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 32.1:**

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

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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 33: Notification Similar to State or Local Agency**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 33.1:**

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 34: Performance testing timeline.**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 34.1:**

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 35: Performance Test Methods - Waiver**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 35.1:**

Performance testing shall be conducted in accordance with the methods and procedures prescribed in 40 CFR Part 60 unless the Administrator (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternate method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the affected facility is in compliance with the standard, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors.

**Condition 36: Required performance test information.**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 36.1:**

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 37: Prior notice.**  
**Effective between the dates of 07/19/2013 and 07/18/2018**





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 42: Circumvention.**

**Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement:40CFR 60.12, NSPS Subpart A**

**Item 42.1:**

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 43: Modifications.**

**Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement:40CFR 60.14, NSPS Subpart A**

**Item 43.1:**

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 44: Reconstruction**

**Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement:40CFR 60.15, NSPS Subpart A**

**Item 44.1:**

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;

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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 45: Subpart A provisions that apply to facilities subject to Subpart JJJJ**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement:40CFR 60.4246, NSPS Subpart JJJJ**

**Item 45.1:**

The following provisions of 40 CFR 60 Subpart A apply to this facility: 60.1 through 60.12, 60.14 through 60.17 and 60.19.

**Condition 46: General provisions**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement:40CFR 63.6665, Subpart ZZZZ**

**Item 46.1:**

Table 8 of 40 CFR 63 Subpart ZZZZ shows which parts of the General Provisions 40 CFR 63.1 through 40 CFR 63.15 apply to this facility. Facility is responsible for ensuring they comply with all General Provisions contained in Table 8.

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

**Condition 47: Emission Point Definition By Emission Unit**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 47.1:**

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

Emission Unit: 1-BTUPL

Emission Point: FLR01

Height (ft.): 38

Diameter (in.): 108

NYTMN (km.): 4753.7

NYTME (km.): 349.4

Emission Point: OXD01

Height (ft.): 40

Diameter (in.): 70

NYTMN (km.): 4753.7

NYTME (km.): 349.4

Building: BTUPLANT

**Item 47.2:**

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

Emission Unit: 3-STAGE

Emission Point: ENG01

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Height (ft.): 29	Diameter (in.): 12	
NYTMN (km.): 4754.222	NYTME (km.): 350.031	Building: ENGBLDG
Emission Point: ENG02		
Height (ft.): 29	Diameter (in.): 12	
NYTMN (km.): 4754.222	NYTME (km.): 350.031	Building: ENGBLDG
Emission Point: ENG03		
Height (ft.): 29	Diameter (in.): 12	
NYTMN (km.): 4754.222	NYTME (km.): 350.031	Building: ENGBLDG
Emission Point: ENG04		
Height (ft.): 29	Diameter (in.): 12	
NYTMN (km.): 4754.222	NYTME (km.): 350.031	Building: ENGBLDG
Emission Point: ENG05		
Height (ft.): 29	Diameter (in.): 12	
NYTMN (km.): 4754.222	NYTME (km.): 350.031	Building: ENGBLDG
Emission Point: ENG06		
Height (ft.): 29	Diameter (in.): 12	
NYTMN (km.): 4754.222	NYTME (km.): 350.031	Building: ENGBLDG
Emission Point: ENG07		
Height (ft.): 29	Diameter (in.): 12	
NYTMN (km.): 4754.222	NYTME (km.): 350.031	Building: ENGBLDG
Emission Point: ENG08		
Height (ft.): 29	Diameter (in.): 12	
NYTMN (km.): 4754.222	NYTME (km.): 350.031	Building: ENGBLDG
Emission Point: ENG09		
Height (ft.): 29	Diameter (in.): 12	
NYTMN (km.): 4754.222	NYTME (km.): 350.031	Building: ENGBLDG
Emission Point: ENG10		
Height (ft.): 29	Diameter (in.): 12	
NYTMN (km.): 4754.222	NYTME (km.): 350.031	Building: ENGBLDG
Emission Point: ENG11		
Height (ft.): 29	Diameter (in.): 12	
NYTMN (km.): 4754.222	NYTME (km.): 350.031	Building: ENGBLDG
Emission Point: ENG12		
Height (ft.): 29	Diameter (in.): 12	
NYTMN (km.): 4754.222	NYTME (km.): 350.031	Building: ENGBLDG
Emission Point: ENG13		
Height (ft.): 29	Diameter (in.): 12	
NYTMN (km.): 4754.222	NYTME (km.): 350.031	Building: ENGBLDG
Emission Point: ENG14		

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Height (ft.): 29	Diameter (in.): 12	
NYTMN (km.): 4754.222	NYTME (km.): 350.031	Building: ENGBLDG
Emission Point: ENG15		
Height (ft.): 38	Diameter (in.): 15	
NYTMN (km.): 4753.7	NYTME (km.): 349.4	Building: ENGBLDG
Emission Point: ENG16		
Height (ft.): 38	Diameter (in.): 15	
NYTMN (km.): 4753.7	NYTME (km.): 349.4	Building: ENGBLDG
Emission Point: ENG17		
Height (ft.): 38	Diameter (in.): 15	
NYTMN (km.): 4753.7	NYTME (km.): 349.4	Building: ENGBLDG
Emission Point: ENG18		
Height (ft.): 38	Diameter (in.): 15	
NYTMN (km.): 4753.7	NYTME (km.): 349.4	Building: ENGBLDG

**Condition 48: Process Definition By Emission Unit**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 48.1:**

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

Emission Unit: 1-BTUPL  
 Process: GAS Source Classification Code: 3-10-002-05  
 Process Description:  
 Landfill gas treatment and refining process that converts up to 6,000 scfm of landfill gas to pipeline quality (high Btu) fuel. Emissions are controlled using a thermal oxidizer rated for approximately 3,000 scfm and backup enclosed flare with a maximum flowrate of approximately 2,000 scfm. The enclosed flare will be used only during upset conditions.

Emission Source/Control: 2KFLR - Control  
Control Type: FLARING

Emission Source/Control: 3KOXD - Control  
Control Type: THERMAL OXIDATION

Emission Source/Control: TRMT2 - Process

**Item 48.2:**

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

Emission Unit: 3-STAGE  
 Process: ST3 Source Classification Code: 2-01-008-07  
 Process Description:



Process ST3 consists of:

1. 14 CAT G3516 gas IC engine generator sets that have individual maximum heat input rates of 8.6 MMBtu/hr LHV. At the minimum fuel quality utilization value of 420 Btu/cf (LHV), the maximum fuel use rate of each IC engine is approximately 341 cfm.

2. 4 CAT G3520C gas IC engine generator sets that have individual maximum heat input rates of 14.67 MMBtu/hr LHV. At the minimum fuel quality utilization value of 420 Btu/cf (LHV), the maximum fuel use rate of each IC engine is approximately 580 cfm.

Emission Source/Control: 01ENG - Combustion  
Design Capacity: 810 kilowatts

Emission Source/Control: 02ENG - Combustion  
Design Capacity: 810 kilowatts

Emission Source/Control: 03ENG - Combustion  
Design Capacity: 810 kilowatts

Emission Source/Control: 04ENG - Combustion  
Design Capacity: 810 kilowatts

Emission Source/Control: 05ENG - Combustion  
Design Capacity: 810 kilowatts

Emission Source/Control: 06ENG - Combustion  
Design Capacity: 810 kilowatts

Emission Source/Control: 07ENG - Combustion  
Design Capacity: 810 kilowatts

Emission Source/Control: 08ENG - Combustion  
Design Capacity: 835 kilowatts

Emission Source/Control: 09ENG - Combustion  
Design Capacity: 835 kilowatts

Emission Source/Control: 10ENG - Combustion  
Design Capacity: 835 kilowatts

Emission Source/Control: 11ENG - Combustion  
Design Capacity: 835 kilowatts

Emission Source/Control: 12ENG - Combustion  
Design Capacity: 835 kilowatts

Emission Source/Control: 13ENG - Combustion  
Design Capacity: 835 kilowatts



Emission Source/Control: 14ENG - Combustion  
Design Capacity: 835 kilowatts

Emission Source/Control: 15ENG - Combustion  
Design Capacity: 1,600 kilowatts

Emission Source/Control: 16ENG - Combustion  
Design Capacity: 1,600 kilowatts

Emission Source/Control: 17ENG - Combustion  
Design Capacity: 1,600 kilowatts

Emission Source/Control: 18ENG - Combustion  
Design Capacity: 1,600 kilowatts

Emission Source/Control: TRMT1 - Process

**Condition 49: Emission Unit Permissible Emissions**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 49.1:**

The sum of emissions from all regulated processes specified in this permit for the emission unit cited shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit: 1-BTUPL

CAS No: 0NY750-00-0

Name: CARBON DIOXIDE EQUIVALENTS

PTE(s): 22,927.854 pounds per hour

200,848,000 pounds per year

**Condition 50: Capping Monitoring Condition**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 50.1:**

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

6 NYCRR 231-8.6

**Item 50.2:**

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



**Item 50.3:**

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 50.4:**

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 50.5:**

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 50.6:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-BTUPL

Regulated Contaminant(s):

CAS No: 0NY750-00-0 CARBON DIOXIDE EQUIVALENTS

**Item 50.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

1) As required by 6NYCRR Part 231-8.6, Seneca Energy is limited to the projected actual emissions of 100,424 tons per year (TPY) carbon dioxide equivalents (CO<sub>2</sub>e). The CO<sub>2</sub>e value is based on a Methane Global Warming Potential (GWP) of 21.

2) Seneca Energy shall calculate monthly CO<sub>2</sub>e emissions from the thermal oxidizer and enclosed flare based on the actual hours of operation and the emission factors developed for biogenic and anthropogenic GHG emissions (refer to permit application dated December 31, 2012). The facility shall keep these records in a format acceptable to the Department.

3) On a semi-annual basis (i.e., January 1 through June 30 and July 1 through December 31), Seneca Energy shall estimate and report the actual GHG emissions in units of



CO2 equivalents.

Parameter Monitored: CARBON DIOXIDE EQUIVALENTS

Upper Permit Limit: 100242 tons per year

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Averaging Method: 12 MONTH AVERAGE - ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (ANNIVERSARY)

Initial Report Due: 02/17/2014 for the period 07/19/2013 through 01/18/2014

**Condition 51: Compliance Certification**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement:40CFR 63, Subpart ZZZZ**

**Item 51.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-BTUPL

Process: GAS

**Item 51.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Facility operates an emergency diesel generator in order to supply limited temporary power during utility outages. The unit is considered exempt under 6 NYCRR 201-3.2(c). Since the emergency diesel generator was manufactured prior to June 12, 2006, is less than 500 horsepower (HP) in size, and is located at an area source of HAPs, the requirements of 40 CFR Part 63, Subpart ZZZZ apply to the unit. Below is a summary of the requirements that the Facility must be in compliance with prior to May 3, 2013:

- (1) Change oil and filter every 500 hours of operation or annually, whichever comes first;
- (2) Inspect spark plugs every 1,000 hours or annually, whichever comes first;
- (3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary;
- (4) The emergency diesel generator must be operated and maintained according to the



manufacturer's emission-related written instructions or a maintenance plan must be developed which provides to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions;

(5) A non-resettable hour must be installed if one is not already installed;

(6) Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to 40 CFR Part 63, Subpart ZZZZ apply;

(7) The Facility has the option of utilizing the oil analysis program described under 40 CFR 63.6625(i) in order to extend the specified oil change requirement described in the first bullet above; and

(8) The records described under 40 CFR 63.6655 must be maintained at the Facility.

(9) On an annual basis, the owner or operator shall submit to the DEC, in the annual compliance certification report, a statement whether the facility is in compliance with these requirements.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

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

**Condition 52: Compliance Certification**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement:6 NYCRR 212.4 (a)**

**Item 52.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-BTUPL



Process: GAS

Emission Source: 2KFLR

Regulated Contaminant(s):

CAS No: 0NY998-20-0 NMOC - LANDFILL USE ONLY

**Item 52.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No person shall cause or allow emissions that exceed the applicable permissible emission rate as determined from Table 2, Table 3, or Table 4 of 6 NYCRR Part 212 for the environmental rating issued by the commissioner.

In order to ensure that the facility is meeting the destruction of NMOC requirement in 40 CFR 60 Subpart WWW and the destruction efficiency for hydrogen sulfide, the owner or operator shall install, operate, and maintain a continuous temperature monitor and recorder that measures and records the combustion temperature within the thermal oxidizer when the unit is in operation. Units shall be Celsius. The accuracy for each thermocouple, monitor, and recorder shall be guaranteed by the Manufacturer to be within +/- 1 percent of the temperature being measured or +/- 5 percent Celsius, whichever is greater. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendation, instructions, and operating manuals, with any modifications deemed necessary by the permittee. The acceptable temperature setting shall be based upon the manufacturer's specifications until such time as any required performance testing is conducted and the appropriate temperature range is established to demonstrate compliance. The permittee shall collect and record the following information each day the emission source is in operation:

1. 3-hour blocks of time, during which the average combustion temperature was more than 28 degrees Celsius below the average combustion temperature determined during the approved stack test.
2. A log or record of operating time for the thermal oxidizer.

If monitoring demonstrates that operational requirements are not met corrective actions shall be taken and reported in the semiannual monitoring report. The permittee shall report these episodes as deviations and any excess emissions shall be calculated and included in the annual

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emissions report.

Parameter Monitored: TEMPERATURE

Lower Permit Limit: 28 degrees C below the approved  
performance test combustion  
temperature

Monitoring Frequency: FOUR TIMES PER HOUR

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

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

**Condition 53: Compliance Certification**

**Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement: 6 NYCRR 212.4 (a)**

**Item 53.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-BTUPL

Process: GAS

Emission Source: 2KFLR

Regulated Contaminant(s):

CAS No: 0NY998-20-0 NMOC - LANDFILL USE ONLY

**Item 53.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The owner or operator of the enclosed flare shall test the control device once during the term of this permit if it becomes operational during the term of this permit to verify that the outlet concentration of NMOC from the device is less than 20 parts per million (dry, as hexane, at 3% oxygen), or the owner or operator of the enclosed flare shall test the emissions from the control device to determine that the device is reducing the emission of NMOC by 98% (by weight). Refer to 40CFR60.754(d) for the specified test methods.

Parameter Monitored: NMOC - LANDFILL USE ONLY

Upper Permit Limit: 20 parts per million by volume (dry,  
corrected to 3% oxygen)

Reference Test Method: RM 18, 25, 25A, 25C

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST  
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE



**Condition 54: Compliance Certification**  
Effective between the dates of 07/19/2013 and 07/18/2018

**Applicable Federal Requirement:6 NYCRR 212.4 (a)**

**Item 54.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-BTUPL  
Process: GAS Emission Source: 2KFLR

Regulated Contaminant(s):  
CAS No: 007783-06-4 HYDROGEN SULFIDE

**Item 54.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The owner or operator of the enclosed flare shall test the control device once during the term of the permit if it becomes operational to determine that the process is reducing the emission of hydrogen sulfide by 98% (by weight).

The facility shall use EPA Method 15 of 40 CFR 60, Appendix A or other reference test methods approved by the Department.

Upper Permit Limit: 98 percent by weight

Reference Test Method: EPA Method 15

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 55: Compliance Certification**  
Effective between the dates of 07/19/2013 and 07/18/2018

**Applicable Federal Requirement:6 NYCRR 212.4 (a)**

**Item 55.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-BTUPL  
Process: GAS Emission Source: 2KFLR

Regulated Contaminant(s):  
CAS No: 0NY998-20-0 NMOC - LANDFILL USE ONLY



**Item 55.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The owner or operator of the enclosed flare shall test the control device once during the term of this permit if it becomes operational during the term of this permit to verify that the outlet concentration of NMOC from the device is less than 20 parts per million (dry, as hexane, at 3% oxygen), or the owner or operator of the enclosed flare shall test the emissions from the control device to determine that the device is reducing the emission of NMOC by 98% (by weight). Refer to 40CFR60.754(d) for the specified test methods.

Parameter Monitored: NMOC - LANDFILL USE ONLY

Upper Permit Limit: 98 percent reduction by weight

Reference Test Method: RM 18, 25, 25A, 25C

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 56: Compliance Certification**

**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 56.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-BTUPL

Process: GAS

Emission Source: 2KFLR

**Item 56.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one six-minute period per hour of not more than 27 percent opacity. The facility will perform a visual observation of the flare that is in operation on a daily basis during business days (this excludes holidays and weekends). If any opacity is noted, corrective action will be taken immediately or a Method 9 will be performed within 2 business days. The facility shall keep records of daily observations and any



corrective action performed in a format acceptable to the Department.

Parameter Monitored: OPACITY  
Upper Permit Limit: 20 percent  
Reference Test Method: EPA Method 9  
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION  
Averaging Method: 6 MINUTE AVERAGE  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2014.  
Subsequent reports are due every 6 calendar month(s).

**Condition 57: Compliance Certification**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement: 6 NYCRR Subpart 231-8**

**Item 57.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-BTUPL  
Process: GAS

Emission Source: 2KFLR

Regulated Contaminant(s):  
CAS No: 0NY750-00-0 CARBON DIOXIDE EQUIVALENTS

**Item 57.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

BACT for greenhouse gas emissions (GHG) was determined to be a thermal oxidizer for this process. The facility will operate an enclosed flare as a backup to the thermal oxidizer. Seneca Energy shall verify that the process is reducing the emissions of methane by 99.96% (by weight). A performance test to demonstrate compliance must be completed as specified below:

- 1) The methods used to measure methane shall include EPA Method 18 and 3C from 40 CFR 60, Appendix A or another reference test method approved by the Department.
- 2) A performance test protocol shall be submitted to the Department at least 30 days prior to testing.
- 3) A performance test shall be completed at a minimum every five years. More frequent testing may be required as determined by the Department. The first performance test shall be completed within 180 days of permit

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issuance, or equipment startup, whichever is later.

- 4) Submit a compliance test report containing the results of the emission test to the Department no later than 60 days after completion of the emission test.

Lower Permit Limit: 99.96 percent by weight

Reference Test Method: EPA Method 18, 3C

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

**DESCRIPTION**

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 58: Compliance Certification**

**Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement: 6 NYCRR 212.4 (a)**

**Item 58.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-BTUPL

Process: GAS

Emission Source: 3KOXD

Regulated Contaminant(s):

CAS No: 0NY998-20-0

NMOC - LANDFILL USE ONLY

**Item 58.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The owner or operator of the thermal oxidizer shall test the control device once during the term of this permit to verify that the outlet concentration of NMOC from the device is less than 20 parts per million (dry, as hexane, at 3% oxygen), or the owner or operator of the thermal oxidizer shall test the emissions from the control device to determine that the device is reducing the emission of NMOC by 98% (by weight). Refer to 40CFR60.754(d) for the specified test methods.

Parameter Monitored: NMOC - LANDFILL USE ONLY

Upper Permit Limit: 98 percent reduction by weight

Reference Test Method: RM 18, 25, 25A, 25C

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

**DESCRIPTION**

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST

**METHOD INDICATED**

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 59: Compliance Certification**



Effective between the dates of 07/19/2013 and 07/18/2018

Applicable Federal Requirement:6 NYCRR 212.4 (a)

**Item 59.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-BTUPL  
Process: GAS Emission Source: 3KOXD

Regulated Contaminant(s):  
CAS No: 0NY998-20-0 NMOC - LANDFILL USE ONLY

**Item 59.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The owner or operator of the thermal oxidizer shall test the control device once during the term of this permit to verify that the outlet concentration of NMOC from the device is less than 20 parts per million (dry, as hexane, at 3% oxygen), or the owner or operator of the thermal oxidizer shall test the emissions from the control device to determine that the device is reducing the emission of NMOC by 98% (by weight). Refer to 40CFR60.754(d) for the specified test methods.

Parameter Monitored: NMOC - LANDFILL USE ONLY

Upper Permit Limit: 20 parts per million by volume (dry,  
corrected to 3% oxygen)

Reference Test Method: RM 18, 25, 25A, 25C

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST  
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 60: Compliance Certification**

Effective between the dates of 07/19/2013 and 07/18/2018

Applicable Federal Requirement:6 NYCRR 212.4 (a)

**Item 60.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-BTUPL  
Process: GAS Emission Source: 3KOXD

Regulated Contaminant(s):  
CAS No: 007783-06-4 HYDROGEN SULFIDE



**Item 60.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The owner or operator of the thermal oxidizer shall test the control device once during the term of the permit to determine that the process is reducing the emission of hydrogen sulfide by 98% (by weight).

The facility shall use EPA Method 15 of 40 CFR 60, Appendix A or other reference test methods approved by the Department.

Upper Permit Limit: 98 percent by weight

Reference Test Method: EPA Method 15

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 61: Compliance Certification**

**Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement: 6 NYCRR 212.4 (a)**

**Item 61.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-BTUPL

Process: GAS

Emission Source: 3KOXD

Regulated Contaminant(s):

CAS No: 0NY998-20-0

NMOC - LANDFILL USE ONLY

**Item 61.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No person shall cause or allow emissions that exceed the applicable permissible emission rate as determined from Table 2, Table 3, or Table 4 of 6 NYCRR Part 212 for the environmental rating issued by the commissioner.

In order to ensure that the facility is meeting the destruction of NMOC requirement in 40 CFR 60 Subpart WWW and the destruction efficiency for hydrogen sulfide, the owner or operator shall install, operate, and maintain a continuous temperature monitor and recorder that measures



and records the combustion temperature within the thermal oxidizer when the unit is in operation. Units shall be Celsius. The accuracy for each thermocouple, monitor, and recorder shall be guaranteed by the Manufacturer to be within +/- 1 percent of the temperature being measured or +/- 5 percent Celsius, whichever is greater. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendation, instructions, and operating manuals, with any modifications deemed necessary by the permittee. The acceptable temperature setting shall be based upon the manufacturer's specifications until such time as any required performance testing is conducted and the appropriate temperature range is established to demonstrate compliance. The permittee shall collect and record the following information each day the emission source is in operation:

1. 3-hour blocks of time, during which the average combustion temperature was more than 28 degrees Celsius below the average combustion temperature determined during the approved stack test.
2. A log or record of operating time for the thermal oxidizer.

If monitoring demonstrates that operational requirements are not met corrective actions shall be taken and recorded in the semiannual monitoring report. The permittee shall report these episodes as deviations and any excess emissions shall be calculated and included in the annual emissions report.

Parameter Monitored: TEMPERATURE

Lower Permit Limit: 28 degrees C below the approved performance test combustion temperature

Monitoring Frequency: FOUR TIMES PER HOUR

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

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

**Condition 62: Compliance Certification**

**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 62.1:**

The Compliance Certification activity will be performed for:

New York State Department of Environmental Conservation

Permit ID: 8-4532-00075/00029

Facility DEC ID: 8453200075



Emission Unit: 1-BTUPL

Process: GAS

Emission Source: 3KOXD

**Item 62.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one six-minute period per hour of not more than 27 percent opacity. The facility will perform a visual observation of the thermal oxidizer that is in operation on a daily basis during business days (this excludes holidays and weekends). If any opacity is noted, corrective action will be taken immediately or a Method 9 will be performed within 2 business days. The facility shall keep records of daily observations and any corrective action performed in a format acceptable to the Department.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

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

**Condition 63: Compliance Certification**

**Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement:6 NYCRR Subpart 231-8**

**Item 63.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-BTUPL

Process: GAS

Emission Source: 3KOXD

Regulated Contaminant(s):

CAS No: 0NY750-00-0 CARBON DIOXIDE EQUIVALENTS

**Item 63.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:





construction, reconstruction, or modification after May 30, 1991.

Landfill gas (LFG) treatment as defined by USEPA is compression, de-watering, and filtering the LFG down to at least 10 microns (which is considered treatment for the purposes of 60.752 (b) (2) (iii) (C)

[Federal

Register 71 FR 53272 for Proposed Rule Amendments dated September 8, 2006]). The permittee has committed to installing and maintaining equipment which filters the gas to at least 3 microns, compresses

it in a positive displacement blower, cools the gas after compression in an air-to-gas aftercooler and dewaterers in the two coalescing filter towers. The LFG treatment system (TRMT2) operated at Seneca Energy meets the requirements set by USEPA.

The permittee has committed to monitoring, recordkeeping and reporting demonstrating LFG treatment systems are maintained. Those requirements are located elsewhere in the permit. The thermal oxidizer (3KOXD) and enclosed flare (2KFLR) are located downstream of the initial LFG treatment system (TRMT2). The control devices are not subject to the requirements of 40 CFR Part 60, Subpart WWW or 40 CFR Part 63, Subpart AAAA.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

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

**Condition 65: Compliance Certification**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement: 40CFR 60.752(b)(2)(iii)(C), NSPS**

**Subpart WWW**

**Item 65.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 1-BTUPL

Process: GAS

Emission Source: TRMT2

**Item 65.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In accordance with 40 CFR §60.752(b)(2)(iii)(C),



landfill gas collected from a MSW landfill may be either combusted in an appropriate control device or routed to a treatment system that processes the collected gas for subsequent sale or use.

Treatment is defined by EPA and the Department as compression, dewatering and filtering of particulates.

The following provides a general description of the landfill gas (LFG) treatment system used at the High BTU Plant.

The equipment and processes that treat (de-water, filter and compress) LFG received from the landfill (prior to being pumped to the natural gas pipeline) consist of:

1. Initial Inlet Coalescing Filter:

The pressure drop across the coalescing filter vessel (difference in gas pressure between the inlet and outlet of the vessel) is continuously monitored with a differential pressure gauge. Increased differential pressure (dP) indicates that the filter is wet, loaded with particulate matter or significant accumulation of condensate is present in the vessel. The flange to flange pressure drop (i.e., pressure drop across the vessel and filter media) is estimated to be no greater than 2.0 pounds per square inch differential (psid, or approximately 50 in.w.c.). If the pressure drop across the coalescing filter is observed to be greater than 2.0 psid, the filter will be replaced and/or investigations will be performed to evaluate potential malfunctions of upstream landfill gas dewatering equipment. The replacement filters will be of comparable designed critical gas service applications where high-efficiency removal of water droplets or oil and particulate solids is required. The filter is rated for particulate matter removal to 8.0 microns.

2. Gas Blower Compression:

Up to seven (7) positive displacement gas blowers will increase the pressure of the filtered LFG to as high as 10 pounds per square inch gauge (psig). the gas blower discharge is continuously monitored using a pressure gauge and a low-pressure alarm switch.

A blower outlet pressure of less than 5 psig is an indication of potential problems with the operation of the gas compression system. In these instances, an investigation of the blower(s) will be performed and corrective actions implemented.



3. 1st After cooler- Air Cooler:

The gas temperature is increased by the gas blower and reduced by a gas-to-air cooler on the blower discharge. The gas temperature at the aftercooler outlet is continuously monitored with a temperature switch that is located before (upstream) of the second filter vessel. The gas-to-air aftercooler on the blower discharge will maintain an exit gas temperature (filter inlet temperature) that is equal to or less than 130 degrees F. Gas temperatures measured downstream of the aftercooler (before the second filter vessel ) that are greater than 130 degrees F are an indication of potential problems with the operation of the aftercooler. In these instances, an investigation of the aftercooler will be performed and corrective actions implemented.

4. 2nd Coalescing Filter:

A second coalescing filter located after the gas blowers will be designed to remove 100% of dry solid particles greater than or equal to 3 microns. 100% of all liquid droplets greater than or equal to 8 microns in diameter and 99% by mass of solid particles and liquid droplets in the range of 0.5 to 3 microns. The pressure drop across the coalescing filter vessel (difference in gas pressure between the inlet and outlet of the vessel) is continuously monitored with a differential pressure gauge. Increased differential pressure (dP) indicates that the filter is wet, loaded with particulate matter or significant accumulation of condensate is present in the vessel. the flange to flange pressure drop is estimated to be no greater than 2.0 psid. If the pressure drop across the coalescing filter is observed to be greater than 2.0 psid, the filter will be replaced and/or investigations will be performed to evaluate potential malfunctions of upstream landfill gas dewatering equipment. The replacement filters will be of comparable designed for critical gas service applications where high-efficiency removal of water droplets or oil and particulate solids is required.

The operational restrictions are as follows:

- a. The pressure drop across each LFG treatment coalescing filter vessel shall be no greater than 2 pounds per square inch;
- b. The LFG treatment blower shall be operated at a discharge pressure no less than 5 pounds per square inch (gauge); and
- c. The gas temperature at the outlet of the LFG treatment aftercooler shall be no greater than 130 degrees



Fahrenheit.

The parameters to be monitored to ensure the system is operating properly are as follows:

- a. Monitoring of the pressure drop across each LFG treatment coalescing filter vessel;
- b. Monitoring of the LFG treatment blower discharge pressure; and
- c. Monitoring of the gas temperature at the outlet of the LFG treatment aftercooler.

Whenever the high BTU Plant is in operation, all treated landfill gas that is not directed to the gas refining process, waste gas from the gas/refining processes; and off-specification product gas that cannot be sold or transferred to the pipeline, shall be controlled in the thermal oxidizer (3KOXD) or the backup enclosed flare (2KFLR) that satisfies the operational monitoring and recordkeeping requirements of this permit.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

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

**Condition 66: Startup, Shutdown and Malfunction**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement:40CFR 63.6(e)(3), Subpart A**

**Item 66.1:**

This Condition applies to Emission Unit: 1-BTUPL  
Process: GAS Emission Source:  
TRMT2

**Item 66.2:**

The owner or operator of an applicable source shall develop and implement a written startup, shutdown and malfunction (SSM) plan that describes in detail procedures for operating and maintaining the source during periods of SSM and a program of corrective action for malfunctioning process and air pollution control equipment used to comply with the relevant standard. Consult 40 CFR 63.6(e)(3) (i through viii) for specific requirements regarding SSM plans.

**Condition 67: Compliance Certification**  
**Effective between the dates of 07/19/2013 and 07/18/2018**



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

**Item 67.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 3-STAGE  
Process: ST3

**Item 67.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one six-minute period per hour of not more than 27 percent opacity. The facility will perform a visual observation on a daily basis. If any opacity is noted, corrective action will be taken immediately or a Method 9 will be performed within two business days.

Parameter Monitored: OPACITY  
Upper Permit Limit: 20 percent  
Reference Test Method: EPA Method 9  
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION  
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2014.  
Subsequent reports are due every 6 calendar month(s).

**Condition 68: Compliance Certification**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 68.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 3-STAGE  
Process: ST3

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

**Item 68.2:**

Compliance Certification shall include the following monitoring:



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

Monitoring Description:

In order to show compliance with the NO<sub>x</sub> RACT standard of sources firing landfill gas of 2.0 grams per brake horsepower-hour, the facility is required to perform the following periodic monitoring for oxides of nitrogen (NO<sub>x</sub>) emissions in the exhaust stacks of the 14-CAT 3516 internal combustion (IC) engines (emission sources 01ENG-14ENG) and the 4-CAT 3520 internal combustion (IC) engines (emission sources 15ENG-18ENG):

1. NO<sub>x</sub> emissions shall be measured monthly, at a stack location acceptable to the Department, while the engine is operating at base load (base load is a normal operating load) using a properly calibrated portable gas analyzer approved for use by the Department.
2. The NO<sub>x</sub> measurement will consist of the average of three instantaneous concentration readings that are obtained over a 3 minute period.
3. The first of the three NO<sub>x</sub> concentration readings will start after the portable analyzer has sampled engine exhaust for at least one (1) minute.
4. The second and third NO<sub>x</sub> concentration readings will occur at consecutive 1 minute intervals.
5. The three NO<sub>x</sub> concentration readings will be recorded and their average calculated.
6. The calculated average will be the NO<sub>x</sub> measurement for that month and must not exceed the permitted emission rate of the engines. A threshold for NO<sub>x</sub> (ppm) will be established based on the permitted emission factor of the engines and the measured exhaust stack conditions from the most recent performance test.

If the concentration is greater than 110% of the threshold, the permittee shall take corrective action as soon as possible, but not later than 5 days after detection, and shall retake the NO<sub>x</sub> measurement as outlined above within 24 hours of taking corrective action.

If corrective action taken does not bring the reading back into compliance with this limit, a new stack test shall be scheduled within 60 days of the initial reading in order to verify that the current operating conditions can meet the permitted emission rate of the engines.



If the corrective actions are taken as specified in this Condition, the monitored exceedance is not a violation of the permit operational requirements, however, the permittee shall report these episodes as deviations on the annual compliance certification and the semi-annual monitoring report that cover the monitoring period when the deviations occurred.

Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 2.0 grams per brake horsepower-hour  
Reference Test Method: Handheld NOx monitor  
Monitoring Frequency: MONTHLY  
Averaging Method: 3-MINUTE AVERAGE  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2014.  
Subsequent reports are due every 6 calendar month(s).

**Condition 69: Compliance Certification**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement: 6 NYCRR 227-2.6 (c)**

**Item 69.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 3-STAGE  
Process: ST3

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

**Item 69.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

In order to show compliance with the NOx RACT standard of sources firing landfill gas of 2.0 grams per brake horsepower-hour, the facility is required to conduct an emission test under 6NYCRR Part 227-2.6(a)(7). Those engines subject to the more frequent testing requirement of 40 CFR 60 Subpart JJJJ may satisfy this condition. In accordance with this requirement, the facility must:

- 1) submit a compliance test protocol to the Department for approval at least 30 days prior to emission testing. The conditions of the testing and the locations of the sampling devices must be acceptable to the Department; and
- 2) utilize the procedures set forth in 40 CFR Part 60,



Appendix A or any other method acceptable to the Department and the Administrator for determining compliance with the NO<sub>x</sub> limit of 2.0 grams per brake horsepower-hour, and must, in addition, follow the procedures set forth in 6NYCRR Part 202 as follows:

For stationary internal combustion engines, utilize Method 7, 7E, or 19 from 40 CFR Part 60, Appendix A or another reference method approved by the Department;

3) submit a compliance test report containing the results of the emission test to the Department no later than 60 days after completion of the emission test.

The facility must conduct the required emissions test at 100% +/- 10% load on one (1) of the fourteen (14) identical permitted CAT3516 IC engines and one (1) of the four (4) identical permitted CAT 3520 IC engines in Emission Unit 3-STAGE. The Department will base its decision on which engine requires testing using the NO<sub>x</sub> and CO emission rates as determined by the portable NO<sub>x</sub>/CO analyzer prior to the emissions test (the CO and NO<sub>x</sub> readings shall be taken on the same engine, consecutively, without any adjustment to the engine).

The initial testing shall be completed within 180 days of permit issuance (or engine startup, whichever is later), and once per permit term thereafter.

If a current engine is replaced, the facility must contact the Department, and the Department reserves the right to require a performance test for the replacement engine.

Upper Permit Limit: 2.0 grams per brake horsepower-hour  
Reference Test Method: EPA Method 7, 7E or 19  
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 70: Compliance Certification**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement: 6 NYCRR Subpart 257-4**

**Item 70.1:**  
The Compliance Certification activity will be performed for:

Emission Unit: 3-STAGE  
Process: ST3

Regulated Contaminant(s):



CAS No: 000630-08-0 CARBON MONOXIDE

**Item 70.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The sum of emissions of carbon monoxide from Emission Unit 3-STAGE are limited to 522.9 tons/year calculated on a rolling total month total. This limit ensures that National Ambient Air Standards are not exceeded. In order to show compliance with these standards, the facility is required to perform the following periodic monitoring for carbon monoxide (CO) emissions in the exhaust stacks of the 14-CAT 3516 internal combustion (IC) engines (emission sources 01ENG-14ENG) and the 4-CAT 3520 internal IC engines (emission sources 15ENG-18ENG):

1. CO emissions shall be measured monthly, at a stack location acceptable to the Department, while the engine is operating at base load (base load is a normal operating load) using a properly calibrated portable gas analyzer approved for use by the Department.
2. The CO measurement will consist of the average of three instantaneous concentration readings that are obtained over a 3 minute period.
3. The first of the three CO concentration readings will start after the portable analyzer has sampled engine exhaust for at least one (1) minute.
4. The second and third CO concentration readings will occur at consecutive 1 minute intervals.
5. The three CO concentration readings will be recorded and their average calculated.
6. The calculated average will be the CO measurement for that month and must not exceed the permitted emission rate of the engines. A threshold for CO (ppm) will be established based on the permitted emission factor of the engines (2.17 g/bHp-hr) and the measured exhaust stack conditions from the most recent performance test.

If the threshold is exceeded, the permittee shall take corrective action as soon as possible, but not later than 5 days after detection, and shall retake the CO measurement as outlined above within 24 hours of taking corrective action.



If corrective action taken does not bring the reading back into compliance with this limit, a new stack test shall be scheduled within 60 days of the initial reading in order to verify that the current operating conditions can meet the permitted emission rate of the engines.

If the corrective actions are taken as specified in this Condition, the monitored exceedance is not a violation of the permit operational requirements, however, the permittee shall report these episodes as deviations on the annual compliance certification and the semi-annual monitoring report that cover the monitoring period when the deviations occurred.

Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 2.17 grams per brake horsepower-hour  
Reference Test Method: Handheld CO monitor  
Monitoring Frequency: MONTHLY  
Averaging Method: 3-MINUTE AVERAGE  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2014.  
Subsequent reports are due every 6 calendar month(s).

**Condition 71: Compliance Certification**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement:6 NYCRR Subpart 257-4**

**Item 71.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 3-STAGE  
Process: ST3

Regulated Contaminant(s):  
CAS No: 000630-08-0 CARBON MONOXIDE

**Item 71.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility must show that they are in compliance with the 522.9 tons/yr limit for carbon monoxide. An emission test using 40CFR60 APP A-10 must be completed on each engine type determined by the Department. The Department will base its decision on the NOx and CO emission rates as determined by the portable NOx/CO analyzer prior to the emissions test (the CO and NOx readings shall be taken on the same engine, consecutively, without any adjustment to the engine).

**New York State Department of Environmental Conservation**

Permit ID: 8-4532-00075/00029

Facility DEC ID: 8453200075



An emissions test for the above mentioned emission sources must be completed no later than 180 days prior to renewal of the TV permit.

Upper Permit Limit: 522.9 tons per year

Reference Test Method: 40CFR60 APP A-10

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

**DESCRIPTION**

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 72: Compliance Certification**

**Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement:6 NYCRR Subpart 257-4**

**Item 72.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 3-STAGE

Process: ST3

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 72.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The sum of emissions of carbon monoxide from this facility are limited to 522.9 tons/year calculated on a rolling 12 month total. This limit ensures that National Ambient Air Quality Standards are not exceeded. The facility shall calculate monthly carbon monoxide emissions from engines 01ENG through 18ENG using daily individual bHp production data based on the amount of electricity that is generated by each engine and the results from the most recent approved stack test report for emission factors (results of monthly instantaneous carbon monoxide monitoring will be used to confirm proper operation of the engines and the accuracy of the emission factors). The facility shall keep these records in a format acceptable to the Department.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: ELECTRICAL LOAD OUTPUT

Parameter Monitored: ELECTRICAL LOAD OUTPUT

Upper Permit Limit: 522.9 tons per year

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

**New York State Department of Environmental Conservation**

Permit ID: 8-4532-00075/00029

Facility DEC ID: 8453200075



**DESCRIPTION**

Averaging Method: 12 MONTH AVERAGE - ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

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

**Condition 73: Compliance Certification**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement:6 NYCRR Subpart 257-7**

**Item 73.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 3-STAGE

Process: ST3

Regulated Contaminant(s):

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

**Item 73.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC  
OPERATIONS

Monitoring Description:

The sum of emissions of oxides of nitrogen from Emission Unit 3-STAGE are limited to 214.4 tons/year calculated on a rolling 12 month total. This limit ensures that National Ambient Air Quality Standards are not exceeded. The facility shall calculate monthly oxides of nitrogen emissions from 01ENG through 18ENG using daily individual engine bHp production data based on the amount of electricity that is generated at each engine and the results from the most recent approved stack test report for emission factors (the results of monthly oxides of nitrogen monitoring will be used to verify proper operation of the engines and confirm the accuracy of the stack test emission factors). These records shall be kept in a format acceptable to the Department.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: ELECTRICAL LOAD OUTPUT

Parameter Monitored: ELECTRICAL LOAD OUTPUT

Upper Permit Limit: 214.4 tons per year

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

**DESCRIPTION**

Averaging Method: 12 MONTH AVERAGE - ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.



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

**Condition 74: Applicability of facilities subject to Subpart JJJJ  
Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement:40CFR 60.4230(a)(4)(i), NSPS Subpart  
JJJJ**

**Item 74.1:**

This Condition applies to Emission Unit: 3-STAGE  
Process: ST3

**Item 74.2:** The provisions of 40 CFR 60 Subpart JJJJ are applicable to manufacturers, owners, and operators of stationary spark ignition (SI) internal combustion engines (ICE) that commence construction after June 12, 2006, and where the stationary SI ICE are manufactured on or after July 1, 2007, for engines with a maximum engine power greater than or equal to 500 HP (except lean burn engines with a maximum engine power greater than or equal to 500 HP and less than 1,350 HP). For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.

**Condition 75: Compliance Certification  
Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement:40CFR 60.4230(a)(4)(i), NSPS Subpart  
JJJJ**

**Item 75.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 3-STAGE  
Process: ST3

**Item 75.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The EPA has promulgated Standards for Performance for Stationary Spark Ignition Combustion Engines, found at 40 CFR 60, Subpart JJJJ. Owners and operators of non-emergency engines are subject to various applicable requirements.

(1) The owner or operator shall comply with the emission standards of 40 CFR 60.4233, as applicable.

(2) The owner or operator shall meet the emissions standards for the life of the engine pursuant to 40 CFR



60.4234.

(3) The owner or operator shall comply with the deadline for importing or installing previous model year engines pursuant to 40 CFR 60.4236, as applicable.

(4) The owner or operator shall comply with the compliance requirements of 40 CFR 60.4243, as required.

(5) The owner or operator shall comply with the testing requirements pursuant to 40 CFR 60.4244, as applicable.

(6) The owner or operator shall comply with the notification requirements of 40 CFR 60.4245, as applicable.

(7) The owner or operator shall comply with the applicable general provisions as specified in 40 CFR 60.4246.

(8) The owner or operator shall determine the applicability of 40 CFR Part 60, Subpart JJJJ for each reciprocating internal combustion engine. The owner or operator shall develop procedures to determine applicability, and assure compliance, for new purchases, modified, reconstructed and replacements of internal combustion engines at the facility.

(9) On an annual basis, the owner or operator shall submit to the DEC, in the annual compliance certification report, a statement whether the facility is in compliance with these requirements.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

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

**Condition 76: Compliance Certification**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement:40CFR 63, Subpart ZZZZ**

**Item 76.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 3-STAGE

Process: ST3



**Item 76.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Facility operates an emergency diesel generator in order to supply limited temporary power during utility outages. The unit is considered exempt under 6 NYCRR 201-3.2(c). Since the emergency diesel generator was manufactured prior to June 12, 2006, is less than 500 horsepower (HP) in size, and is located at an area source of HAPs, the requirements of 40 CFR Part 63, Subpart ZZZZ apply to the unit. Below is a summary of the requirements that the Facility must be in compliance with prior to May 3, 2013:

- (1) Change oil and filter every 500 hours of operation or annually, whichever comes first;
- (2) Inspect spark plugs every 1,000 hours or annually, whichever comes first;
- (3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary;
- (4) The emergency diesel generator must be operated and maintained according to the manufacturer's emission-related written instructions or a maintenance plan must be developed which provides to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions;
- (5) A non-resettable hour must be installed if one is not already installed;
- (6) Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to 40 CFR Part 63, Subpart ZZZZ apply;



(7) The Facility has the option of utilizing the oil analysis program described under 40 CFR 63.6625(i) in order to extend the specified oil change requirement described in the first bullet above; and

(8) The records described under 40 CFR 63.6655 must be maintained at the Facility.

(9) On an annual basis, the owner or operator shall submit to the DEC, in the annual compliance certification report, a statement whether the facility is in compliance with these requirements.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

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

**Condition 77: Compliance Certification**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement:40CFR 63, Subpart ZZZZ**

**Item 77.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 3-STAGE

Process: ST3

**Item 77.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

A stationary reciprocating internal combustion engine (RICE) located at an area source of HAP emissions is new if construction or reconstruction commenced on or after June 12, 2006.

New or reconstructed stationary RICE located at an area source, must meet the requirements of this part by meeting the requirements of 40 CFR Part 60 Subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under this part.

Those IC engines constructed prior to June 12, 2006 are subject to the requirements of 40 CFR 63 Subpart ZZZZ since they are landfill gas engines > 500 HP located at an



area source of HAPs. Below is a summary of the requirements that the Facility must be in compliance with prior to October 19, 2013:

- (1) Change oil and filter every 1,440 hours of operation or annually, whichever comes first;
- (2) Inspect spark plugs every 1,440 hours or annually, whichever comes first;
- (3) Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary;
- (4) The engines must be operated and maintained according to the manufacturer's emission-related written instructions or a maintenance plan must be developed which provides to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions;
- (5) Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to 40 CFR Part 63, Subpart ZZZZ apply;
- (6) The Facility has the option of utilizing the oil analysis program described under 40 CFR 63.6625(j) in order to extend the specified oil change requirement described in the first bullet above; and
- (7) The records described under 40 CFR 63.6655 must be maintained at the Facility.
- (8) The owner or operator shall determine the applicability of 40 CFR Part 63, Subpart ZZZZ for each reciprocating internal combustion engine. The owner or operator shall develop procedures to determine applicability, and assure compliance, for new purchases, modified, reconstructed and replacements of internal combustion engines at the facility.
- (9) On an annual basis, the owner or operator shall submit to the DEC, in the annual compliance certification report, a statement whether the facility is in compliance with these requirements.



Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

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

**Condition 78: Compliance Certification**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement: 40CFR 60.752(b)(2)(iii)(C), NSPS**  
**Subpart WWW**

**Item 78.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 3-STAGE

Process: ST3

Emission Source: TRMT1

**Item 78.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In accordance with 40 CFR 60 Part 752(b)(2)(iii)(C) the facility is authorized to treat landfill gas produced by a municipal solid waste landfill that commenced construction, reconstruction, or modification after May 30, 1991.

Landfill gas (LFG) treatment as defined by USEPA is compression, de-watering, and filtering the LFG down to at least 10 microns (which is considered treatment for the purposes of 60.752 (b) (2) (iii) (C) [Federal Register 71 FR 53272 for Proposed Rule Amendments dated September 8, 2006]). The permittee has committed to installing and maintaining equipment which filters the gas to at least 3 microns, compresses it in a positive displacement blower, cools the gas after compression in an air-to-gas aftercooler and dewateres in the two coalescing filter towers. The LFG treatment system (TRMT1) operated at Seneca Energy meets the requirements set by USEPA.

The permittee has committed to monitoring, recordkeeping and reporting demonstrating LFG treatment systems are maintained. Those requirements are located elsewhere in the permit. The engines (ENG01-ENG18) are located downstream of the initial LFG treatment system (TRMT1). The combustion engines are not subject to the requirements



of 40 CFR Part 60, Subpart WWW or 40 CFR Part 63, Subpart AAAA.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

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

**Condition 79: Compliance Certification**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement: 40CFR 60.752(b)(2)(iii)(C), NSPS**  
**Subpart WWW**

**Item 79.1:**

The Compliance Certification activity will be performed for:

Emission Unit: 3-STAGE

Process: ST3

Emission Source: TRMT1

**Item 79.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In accordance with 40 CFR §60.752(b)(2)(iii)(C), landfill gas collected from a MSW landfill may be either combusted in an appropriate control device or routed to a treatment system that processes the collected gas for subsequent sale or use.

Treatment is defined by EPA and the Department as compression, dewatering and filtering of particulates.

The following provides a general description of the landfill gas (LFG) treatment system used at the Engine Facility.

The equipment and processes that treat (de-water, filter and compress) LFG received from the landfill (prior to its combustion as fuel in the IC engines) consist of:

1. An initial inlet filter, which is used to remove liquid aerosols and solid particulates from the gas;
2. Gas blowers, which are used to compress the gas to a required pressure;
3. A water-to-gas cooler (heat exchanger), which will be used to reduce the elevated temperatures of LFG received from the compressor;



4. A second filter, which is used to remove liquid aerosols and solid particulates from the gas;
5. A glycol scrubber (closed system with no atmospheric vents), which is used to remove moisture and other impurities from the gas; and
6. A third (and final) filter, which is used to remove liquid aerosols and solid particulates from the gas.

Components of the specified gas treatment system are not equipped with atmospheric vents. Therefore, all of the LFG received by the system is directed to the IC engines for use as a fuel.

Initial (primary) filter vessel vacuum pressure: The pressure on the vacuum side of the gas mover (inlet of the gas flow through the vessel) is continuously monitored with a pressure switch. The existence of elevated pressures indicates that the filter is wet, loaded with particulate matter or significant accumulation of condensate is present in the vessel. The pressure at the primary coalescing filter (vacuum side of blower) should be equal to or less than 20 inches of water.

The primary filter typically operates without any noticeable condensate accumulation (no water is typically present in the vessel).

If the vacuum pressure drop at the primary coalescing filter is observed to be greater than 20 inches of water, the filter will be replaced and/or investigations will be performed to evaluate potential malfunctions of upstream landfill gas dewatering equipment.

The replacement filters will be of comparable design for critical air or gas service applications where high-efficiency removal of oil or water droplets and particulate solids is required. The primary filter is rated for particulate matter removal to 5.0 microns.

Second filter vessel differential pressure: The pressure drop across the second coalescing filter (inlet and outlet of the gas flow through the vessel) is continuously monitored with a pressure differential switch. Large differential pressures (dP) indicate that the filter is wet or loaded with particulate matter and should be replaced. The dP at the second filter (pressure side of blower and downstream of gas cooler) should be equal to or less than 2.0 pounds per square inch differential (psid).



If the pressure drop across the polishing coalescing filter is greater than 2.0 psid, the filter will be replaced and/or investigations will be performed to evaluate potential malfunctions of upstream landfill gas dewatering equipment.

The replacement filters will be of comparable design for critical air or gas service applications where high-efficiency removal of oil or water droplets and particulate solids is required. The second filter is rated for particulate matter removal to 1.0 micron.

Third (polishing) filter vessel differential pressure: The pressure drop across the polishing coalescing filter (inlet and outlet of the gas flow through the vessel) is continuously monitored with a pressure differential switch. Large differential pressures (dP) indicate that the filter is wet or loaded with particulate matter and should be replaced. The dP at the polishing filter (pressure side of blower and downstream of the gas cooler) should be equal to or less than 2.0 psid.

If the pressure drop across the polishing coalescing filter is greater than 2.0 psid, the filter will be replaced and/or investigations will be performed to evaluate potential malfunctions of upstream landfill gas dewatering equipment.

The replacement filters will be of comparable design for critical air or gas service applications where high-efficiency removal of oil or water droplets and particulate solids is required. The polishing filter is rated for particulate matter removal to 0.1 micron.

Blower discharge pressure (gas compression): The pressure of the gas in the treatment system is continuously monitored with a pressure switch that is located before (upstream) of the water-to-gas cooler.

The landfill gas treatment system (blower) should be operated so that the minimum pressure observed at the specified monitoring location is at least 1.5 pounds per square inch gauge (psig). Pressures measured before the water-to-gas cooler that are less than 1.5 psig are an indication of problems with the gas compression system.

If the pressure of the gas in the treatment system monitored before the water-to-gas cooler is less than 1.5 psig, an investigation of the equipment will be performed



and corrective actions implemented.

Water-to-gas cooler outlet temperature: The temperature of the gas in the treatment system is continuously monitored with a temperature switch that is located before (upstream) of the second filter vessel.

The landfill gas treatment system (water-to-gas cooler) should be operated so that the maximum temperature observed at the specified monitoring location is equal to or less than 45°F. Gas temperatures measured before the second filter vessel that are greater than 45°F are an indication of problems with the operation of the water-to-gas cooler.

If the temperature of the gas in the treatment system monitored after the polishing filter vessel is greater than 45°F, an investigation of the water-to-gas cooler will be performed and corrective actions implemented.

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2014.

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

**Condition 80: Startup, Shutdown and Malfunction**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

**Applicable Federal Requirement:40CFR 63.6(e)(3), Subpart A**

**Item 80.1:**

This Condition applies to Emission Unit: 3-STAGE

Process: ST3

Emission Source:

TRMT1

**Item 80.2:**

The owner or operator of an applicable source shall develop and implement a written startup, shutdown and malfunction (SSM) plan that describes in detail procedures for operating and maintaining the source during periods of SSM and a program of corrective action for malfunctioning process and air pollution control equipment used to comply with the relevant standard. Consult 40 CFR 63.6(e)(3) (i through viii) for specific requirements regarding SSM plans.



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

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

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

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

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

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

**Condition 81: Contaminant List**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 81.1:**  
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: 007783-06-4  
Name: HYDROGEN SULFIDE

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

CAS No: 0NY750-00-0  
Name: CARBON DIOXIDE EQUIVALENTS

CAS No: 0NY998-20-0  
Name: NMOC - LANDFILL USE ONLY

**Condition 82: Malfunctions and start-up/shutdown activities**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 82.1:**

- (a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.
- (b) The facility owner or operator shall compile and maintain records of all equipment malfunctions, maintenance, or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when requested to do so, or when so required by a condition of a permit issued for the corresponding air contamination source. Such reports shall state whether any violations occurred and, if so, whether they were unavoidable, include the time, frequency and duration of the maintenance and/or start-up/shutdown activities, and an estimate of the emission rates of any air contaminants released. Such records shall be maintained for a period of at least five years and made available for review to department representatives upon request. Facility owners or operators subject to continuous stack monitoring and quarterly reporting requirements need not submit additional reports for equipment maintenance or start-up/shutdown activities for the facility to the department.
- (c) In the event that emissions of air contaminants in excess of any emission standard in this Subchapter occur due to a malfunction, the facility owner or operator shall compile and maintain records of the malfunction and notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates.
- (d) The department may also require the owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions.
- (e) A violation of any applicable emission standard resulting from start-up, shutdown, or malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements



listed above must be adhered to in such circumstances.

**Condition 83: Unavoidable noncompliance and violations**  
**Effective between the dates of 07/19/2013 and 07/18/2018**

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

**Item 83.1:**

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

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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.

