



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 9-0636-00006/00017
Effective Date: 10/07/2015 Expiration Date: 10/06/2020

Permit Issued To: CHAUTAUQUA COUNTY
3 N ERIE ST
MAYVILLE, NY 14757-1007

Contact: PANTELIS K PANTELI
CHAUTAUQUA COUNTY DPF
3889 TOWERVILLE RD
JAMESTOWN, NY 14701
(716) 985-4785

Facility: CHAUTAUQUA COUNTY LANDFILL
3889 TOWERVILLE RD
JAMESTOWN, NY

Description:

- (1) The current permit action for the Chautauqua County Landfill includes the second Title V renewal permit and a proposed permit modification for a Phase IV horizontal landfill expansion. The current permitted landfill has a total design capacity of 7.34 million megagrams of refuse and it is estimated the landfill will be filled over the next four years. The additional capacity of the Phase IV expansion, consisting of approximately 8 million megagrams of refuse, will extend the life of the landfill by twenty to thirty years.
- (2) The existing landfill gas to energy facility, including six (6) Caterpillar G3520C internal combustion engine generator sets and two (2) 3,000 standard cubic feet per minute (scfm) open flares, has sufficient capacity to control the collected landfill gas emissions generated from the Phase IV expansion. As such, no additional combustion or control equipment will be added to the facility due to the Phase IV expansion.
- (3) The Phase IV expansion and existing landfill were evaluated for applicability to Prevention of Significant Deterioration of Air Quality (PSD) regulations.
- (4) For the purposes of the PSD applicability analysis, the proposed Phase IV landfill expansion was evaluated, alone, with the following assumptions: (a) a maximum collected landfill gas (LFG) generation rate of 3,079 scfm (expressed as 50 % methane) that would result from the proposed modification, (b) the existing/permitted Caterpillar G3520C LFG engines combust the entire 3,079 scfm LFG, and (c) none of the LFG generated from the proposed Phase IV expansion is combusted by the existing



flares. These assumptions represent the worst case carbon monoxide (CO) and nitrogen oxide (NO_x) emissions scenario for the proposed project.

(5) The PSD applicability analysis evaluated the potential to emit of all air pollutants resulting from the existing facility and proposed Phase IV expansion, together, as follows: (a) a maximum uncollected landfill gas rate of 4,180 scfm (expressed as 50 % methane), and (b) a landfill gas collection efficiency of 93 percent in the final year of waste placement.

(6) The PSD applicability analysis evaluated the potential to emit of air pollutants resulting from the combustion of collected LFG in the six (6) existing Caterpillar G3520C LFG engines and two existing LFG open flares (combined), based on a maximum collected LFG flow rate of 3,870 scfm (expressed as 50% methane).

(7) The results from the PSD analysis require Chautauqua County Landfill to limit CO emissions from the six (6) existing Caterpillar G3520C LFG engines to less than 277 tons per year (tpy) during any consecutive 12 month period and limit the total combined megawatt-hour (MWh) production to less than 77,302 MWh during any consecutive 12 month period.

(8) Additionally, Chautauqua County Landfill shall limit the combined CO emissions from the six (6) existing Caterpillar G3520C LFG engines and two (2) existing 3,000 scfm open flares to less than or equal to 312 tpy during any consecutive 12 month period.

(9) In order to avoid PSD applicability, emissions of sulfur dioxide (SO₂) from the six (6) existing LFG engines and two (2) existing LFG open flares, combined, are limited to less than or equal to 85 tpy during any consecutive 12 month period.

(10) To maintain greenhouse gas emissions from the proposed modification below PSD thresholds, the landfill gas collection system shall be designed and operated to meet a collection efficiency of at least 80 percent. This is accomplished by maintaining the operational, testing, compliance and monitoring requirements of the New Source Performance Standards for Municipal Solid Waste Landfills – 40 CFR 60 Subpart WWW and the National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills – 40 CFR 63 Subpart AAAA. Specifically, the gas collection system is operated under negative pressure, at a temperature less than 55 degrees Celsius, and an oxygen concentration less than 5%. In addition, quarterly surface scans of the landfill cover are completed in accordance with the new source performance standards.

(11) Chautauqua County Landfill has demonstrated through a computer modeling analysis that the estimated impacts of hydrogen sulfide resulting from fugitive emissions of the proposed landfill expansion are below the 1-hour New York State Ambient Air Quality Standard of 14 ug/m³ and below the annual guidance concentration of 2 ug/m³.

New York State Department of Environmental Conservation
Facility DEC ID: 9063600006



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: DAVID S DENK
 DIVISION OF ENVIRONMENTAL PERMITS
 270 MICHIGAN AVE
 BUFFALO, NY 14203-2915

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 9 HEADQUARTERS



DEC GENERAL CONDITIONS

****** General Provisions ******

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

GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

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

Item 1.2:

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

Item 1.3:

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

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

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

Item 2.1:

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

Condition 3: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

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

Item 3.2:

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

Item 3.3:

Permits are transferrable with the approval of the department unless specifically prohibited by



the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

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

Item 4.1:

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

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

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

Condition 5: Submission of application for permit modification or renewal-REGION 9 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 9 Headquarters
Division of Environmental Permits
270 Michigan Avenue
Buffalo, NY 14203-2915
(716) 851-7165



Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

Permit Issued To:CHAUTAUQUA COUNTY
3 N ERIE ST
MAYVILLE, NY 14757-1007

Facility: CHAUTAUQUA COUNTY LANDFILL
3889 TOWERVILLE RD
JAMESTOWN, NY

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

Permit Effective Date: 10/07/2015

Permit Expiration Date: 10/06/2020



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 Subpart 201-6: Compliance Certification
- 23 6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
- 24 6 NYCRR 201-6.4 (g): Non Applicable requirements
- 25 6 NYCRR Subpart 201-7: Facility Permissible Emissions
- *26 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *27 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *28 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *29 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 30 6 NYCRR 211.1: Air pollution prohibited
- 31 6 NYCRR 231-3.5 (b): Compliance Certification
- 32 40CFR 60.752(b)(2), NSPS Subpart WWW: Compliance Certification
- 33 40CFR 60.752(b)(2)(iii)(A), NSPS Subpart WWW: Compliance Certification
- 34 40CFR 60.752(b)(2)(iii)(C), NSPS Subpart WWW: Compliance Certification
- 35 40CFR 60.752(d), NSPS Subpart WWW: Compliance Certification
- 36 40CFR 60.753(b), NSPS Subpart WWW: Compliance Certification
- 37 40CFR 60.753(c), NSPS Subpart WWW: Compliance Certification
- 38 40CFR 60.753(c), NSPS Subpart WWW: Compliance Certification
- 39 40CFR 60.753(d), NSPS Subpart WWW: Compliance Certification
- 40 40CFR 60.755(c), NSPS Subpart WWW: Compliance Certification
- 41 40CFR 60.755(c), NSPS Subpart WWW: Compliance Certification
- 42 40CFR 60.755(d), NSPS Subpart WWW: Compliance Certification
- 43 40CFR 60.757(d), NSPS Subpart WWW: Reporting Requirements - Closure



Report

- 44 40CFR 60.757(e), NSPS Subpart WWW: Reporting Requirements - Control Equipment Removal
- 45 40CFR 60.757(f), NSPS Subpart WWW: Compliance Certification
- 46 40CFR 60.757(g), NSPS Subpart WWW: Reporting requirements - Collection and control system
- 47 40CFR 60.758(d), NSPS Subpart WWW: Compliance Certification
- 48 40CFR 60.758(e), NSPS Subpart WWW: Compliance Certification
- 49 40CFR 60.759(a), NSPS Subpart WWW: Specifications for active collection systems
- 50 40CFR 60.759(b), NSPS Subpart WWW: Specifications for active collection systems
- 51 40CFR 60.759(c), NSPS Subpart WWW: Specifications for active collection systems
- 52 40CFR 61.154, NESHAP Subpart M: Asbestos-containing waste material standard for active waste disposal sites
- 53 40CFR 63.1955(b), Subpart AAAA: Compliance Certification

Emission Unit Level

- 54 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 55 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

EU=1-LFGAS,Proc=GAS

- 56 40CFR 60, NSPS Subpart IIII: Compliance Certification
- 57 40CFR 63, Subpart ZZZZ: Compliance Certification

EU=1-LFGTE

- 58 6 NYCRR Subpart 202-1: Compliance Certification
- 59 6 NYCRR Subpart 202-1: Compliance Certification
- 60 6 NYCRR 227-1.3 (a): Compliance Certification
- 61 40CFR 60.4233(e), NSPS Subpart JJJJ: Compliance Certification
- 62 40CFR 60.4233(e), NSPS Subpart JJJJ: Compliance Certification
- 63 40CFR 60.4233(e), NSPS Subpart JJJJ: Compliance Certification
- 64 40CFR 60.4243(b)(2)(ii), NSPS Subpart JJJJ: Compliance Certification
- 65 40CFR 60.4244, NSPS Subpart JJJJ: Compliance Certification

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 66 ECL 19-0301: Contaminant List
- 67 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 68 6 NYCRR 211.2: Visible Emissions Limited

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 10/07/2015 and 10/06/2020

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 10/07/2015 and 10/06/2020

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 10/07/2015 and 10/06/2020

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 10/07/2015 and 10/06/2020**

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 10/07/2015 and 10/06/2020**

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 may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent 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) and one copy shall be sent to the Administrator (or his or her representative). 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 1/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 6: Compliance Certification
Effective between the dates of 10/07/2015 and 10/06/2020

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.

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The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.

iv. All annual compliance certifications may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent 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) and one copy shall be sent to the Administrator (or his or her representative). The mailing addresses for the above referenced persons are:

Chief – Stationary Source Compliance Section
USEPA Region 2
Air Compliance Branch
290 Broadway
New York, NY 10007-1866

The address for the RAPCE is as follows:

Regional Air Pollution Control Engineer
NYSDEC Region 9 Headquarters
270 Michigan Avenue
Buffalo, NY 14203-2915

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 1/30/2016.
Subsequent reports are due on the same day each year

Condition 7: Compliance Certification
Effective between the dates of 10/07/2015 and 10/06/2020

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.

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 10/07/2015 and 10/06/2020**

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 10/07/2015 and 10/06/2020**

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 10/07/2015 and 10/06/2020**

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 10/07/2015 and 10/06/2020

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 10/07/2015 and 10/06/2020

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 10/07/2015 and 10/06/2020

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 10/07/2015 and 10/06/2020

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 10/07/2015 and 10/06/2020

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 10/07/2015 and 10/06/2020

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

Item 16.1:

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

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

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

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

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

Condition 17: Off Permit Changes
Effective between the dates of 10/07/2015 and 10/06/2020

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

Item 17.1:

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

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



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

Condition 21: Emission Unit Definition
Effective between the dates of 10/07/2015 and 10/06/2020

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-LFGAS

Emission Unit Description:

Emission Unit 1-LFGAS consists of the landfill area that generates landfill gas (LFG), the collection of the LFG by an active gas collection system (LFGCS) and operation of two open flares.

Item 21.2:

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

Emission Unit: 1-LFGTE

Emission Unit Description:

Emission Unit 1-LFGTE consists of six (6) lean-burn Caterpillar, Inc. Model G3520C IC engines connected to individual electricity generators. The emission unit includes ancillary equipment that supports the electricity generation operations.

Building(s): ENGBLDG

Condition 22: Compliance Certification
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 22.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 22.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

(1) Chautauqua County Landfill shall maintain records to



document the combined total actual annual waste and alternate daily cover (ADC) material received. The actual total waste acceptance and ADC rates shall be determined by January 30 of each calendar year.

(2) If the combined total of the actual annual waste and ADC acceptance rate exceeds 408,000 (i.e., 102,000 tons per quarter), the facility shall input the actual waste rate into the Landfill Gas Emissions Computer Model (LandGEM) and re-evaluate the emissions from the landfill.

A report of the LandGEM results and re-evaluation of the applicability to New Source Review (6NYCRR Part 231-5), Prevention of Significant Deterioration (6NYCRR Part 231-8), and 6NYCRR Part 227-2 shall be provided to the Department within 30 days of the recorded waste increase.

(3) Guidance for user inputs to the LandGEM model including site-specific model parameters, default model parameters, non-degradable waste, and waste density can be obtained from the EPA document "Compilation of Air Pollution Emission Factors" (AP-42), EPA Questions and Answers – Municipal Solid Waste Landfill New Source Performance Standards (NSPS) and Emission Guidelines (EG) Revised May, 2002, the EPA LandGEM User's Guide and other approved guidance documents.

Parameter Monitored: MUNICIPAL SOLID WASTE

Upper Permit Limit: 408000 tons per year

Monitoring Frequency: ANNUALLY

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -
SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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

**Condition 23: Progress Reports Due Semiannually
Effective between the dates of 10/07/2015 and 10/06/2020**

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

Item 23.1:

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

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

(ii) an explanation of why any dates in the schedule of compliance were not or will not be met,



and any preventive or corrective measures adopted.

Condition 24: Non Applicable requirements
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement:6 NYCRR 201-6.4 (g)

Item 24.1:

This section contains a summary of those requirements that have been specifically identified as being not applicable to this facility and/or emission units, emission points, processes and/or emission sources within this facility. The summary also includes a justification for classifying any such requirements as non-applicable.

6 NYCRR Subpart 227-2

Reason: Facility wide NO_x PTE emissions, including the proposed Phase IV horizontal expansion, are 79.6 tons/yr which is less than the NO_x RACT threshold of 100 tons/yr.

Therefore, the combustion sources at the landfill are not subject to the NO_x RACT requirements of 6NYCRR Part 227-2.

40 CFR Part 64

Reason: As stated in 40CFR64.2(b)(1)(i), the requirements of CAM shall not apply to emission limits or standards proposed by the Administrator after November 15, 1990 pursuant to section 111 or 112 of the Act. The EPA published a proposal for regulation of new MSW landfills under section 111(b) and for existing MSW landfills under section 111(d) of the CAA in the Federal Register on May 30, 1991 (56 FR 24468). The resulting emission limits for municipal solid waste landfills became effective on March 12, 1996 under 40CFR60 Subpart WWW. The Chautauqua County Landfill is subject to the requirements of Subpart WWW and is therefore, exempt from the CAM requirements of 40 CFR Part 64.

Condition 25: Facility Permissible Emissions
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 25.1:

The sum of emissions from the emission units specified in this permit shall not equal or exceed the following

Potential To Emit (PTE) rate for each regulated contaminant:

CAS No: 000630-08-0 PTE: 624,000 pounds per year
Name: CARBON MONOXIDE

CAS No: 007446-09-5 PTE: 170,000 pounds per year



Name: SULFUR DIOXIDE

Condition 26: Capping Monitoring Condition
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 26.1:

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

6 NYCRR Subpart 231-8

Item 26.2:

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

Item 26.3:

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 26.4:

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 26.5:

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 26.6:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 26.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:



ENGINE PRODUCTION EMISSION LIMIT
77,302 MWh FROM 6 EXISTING LFG ENGINES

(1) In order to avoid PSD applicability for the proposed Phase IV landfill expansion, emissions of CARBON MONOXIDE (CO) resulting from the facility's six (6) LFG engines are limited to 277 tons per year (tpy) during any consecutive 12 month period. As per NYSDEC Air Guide 10, in order for the CO limit to be practically enforceable, a limit on production is required. As such, the combined megawatt-hours (MWh) generated by all 6 engines during any 12-month period must remain less than 77,302 MWh.

(2) The facility shall continuously monitor the kilowatt-hours (kWh) generated by each of the six LFG engines and keep records of the monthly megawatt-hours (MWh).

(3) The monthly MWh generated by each engine shall be added to the MWh generated by each engine during the previous 11 months to generate an annual generation rate for each engine. The total combined MWh generated by all six engines shall not exceed 77,302.

Parameter Monitored: ENGINE OPERATION
Upper Permit Limit: 77302 megawatt-hours per year
Monitoring Frequency: MONTHLY
Averaging Method: ANNUAL TOTAL ROLLED MONTHLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 27: Capping Monitoring Condition
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 27.1:

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

6 NYCRR Subpart 231-8

Item 27.2:

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



Item 27.3:

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 27.4:

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 27.5:

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 27.6:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 27.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

SULFUR DIOXIDE EMISSION LIMIT
85 TPY FROM FLARE AND ENGINES COMBINED

(1) In order to avoid PSD applicability, emissions of SULFUR DIOXIDE (SO₂) from the six (6) existing landfill gas (LFG) engines and two (2) existing LFG open flares, combined, shall be less than or equal to 85 tons per year (tpy) during any consecutive 12 month period.

(2) Monitor the total reduced sulfur (TRS) concentration in the LFG. At a minimum, the LFG shall be sampled from the main header and analyzed for TRS once per permit term.

(3) Monthly engine and flare SO₂ emissions shall be calculated as follows:

(a) Monthly SO₂ emissions = [(total actual LFG



burned in engines and flares, in MMscf/month) x (TRS as H₂S ppmv from most recent test result) x (64 mol wt SO₂) x (1 lb mol SO₂/lb mol H₂S) x (1 lb mol ideal gas/386 scf)]= lb/month SO₂

(b) The combined monthly SO₂ emissions shall be added to the previous 11 months of SO₂ emissions to give a total SO₂ emission rate over the most recent consecutive 12 month period. The SO₂ emissions over any consecutive 12 month period shall not exceed 85 tons.

Parameter Monitored: SULFUR DIOXIDE

Upper Permit Limit: 85 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL TOTAL ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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

Condition 28: Capping Monitoring Condition
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 28.1:

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

6 NYCRR Subpart 231-8

Item 28.2:

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

Item 28.3:

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 28.4:

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 28.5:

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 28.6:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 28.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

CARBON MONOXIDE EMISSION LIMIT
312 TPY FROM FLARE AND ENGINES COMBINED

(1) Emissions of CARBON MONOXIDE (CO) from the six (6) existing LFG engines and two (2) existing LFG open flares, combined, shall be less than or equal to 312 tons per year (tpy) during any consecutive 12 month period. While the entire amount of 312 tpy of CO may be emitted by the two open flares, as specified in Condition #29 of this permit, the CO potential to emit of the six (6) LFG engines is limited to less than or equal to 277 tpy of CO.

(2) To demonstrate compliance with the 312 tpy CO limit, the facility shall perform the following:

(a) The facility shall operate and maintain devices that continuously measure the flow of landfill gas to the LFG engines and LFG open flares.

(b) Calculate CO emissions from the engines following the method specified in Condition #29 of this permit;

(c) Monthly CO emissions from the flares = $[(0.37 \text{ lbs/MMBtu emission factor provided in the permit application}) \times (\text{actual LFG combusted in the flares, in MMscf/month}) \times (456.5 \text{ Btu/scf design LFG heat content})] = \text{lbs CO/month.}$

(d) The total sum of the engine and flare CO emissions shall not exceed 312 tpy.

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Facility DEC ID: 9063600006



Parameter Monitored: CARBON MONOXIDE
Upper Permit Limit: 312 tons per year
Monitoring Frequency: MONTHLY
Averaging Method: ANNUAL TOTAL ROLLED MONTHLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 29: Capping Monitoring Condition
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 29.1:

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

6 NYCRR Subpart 231-8

Item 29.2:

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

Item 29.3:

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 29.4:

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 29.5:

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 29.6:

The Compliance Certification activity will be performed for the Facility.

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



Item 29.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

CARBON MONOXIDE EMISSION LIMIT
277 TPY FROM 6 EXISTING LFG ENGINES

(1) In order to avoid PSD applicability for the proposed Phase IV landfill expansion, emissions of CARBON MONOXIDE (CO) resulting from the facility's six (6) LFG engines shall not exceed 277 tons per year (tpy) during any consecutive 12 month period.

(2) The facility shall continuously monitor the kilowatt-hours (kWh) generated by each of the six LFG engines and keep records of the monthly megawatt-hours (MWh).

(3) Monthly Engine Carbon Monoxide emissions shall be calculated as follows:

(a) Monthly CO emission from engine = [(actual monthly gross electrical output, in kWh) x (1.341 bhp/kW) x (engine CO emission factor from most recent performance test, in g/bhp-hr)] / [453.6 g/lb]

(b) If no data is available for a specific engine, the facility shall use the highest emission factor from the other engines on-site.

(c) The monthly CO emissions from each engine shall be summed to give the total for all engines operating during each month.

(d) The combined engine monthly CO emissions shall be added to the previous 11 months of CO emissions to give a total CO emission rate over the most recent consecutive 12 month period. The CO emissions over any consecutive 12 month period shall not exceed 277 tons.

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 277 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL TOTAL ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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



Condition 30: Air pollution prohibited
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement:6 NYCRR 211.1

Item 30.1:

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

Condition 31: Compliance Certification
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement:6 NYCRR 231-3.5 (b)

Item 31.1:

The Compliance Certification activity will be performed for the Facility.

Item 31.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For the purposes of Subparts 231-7 and 231-8 of this Part only, at such time that a particular facility becomes a major facility, or a modification becomes a NSR major modification solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the facility or modification otherwise to emit a regulated NSR contaminant, such as a restriction on hours of operation, then the requirements of Subparts 231-7 and 231-8 of this Part, as applicable, apply to the facility as though construction had not yet commenced on the facility.

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 1/30/2016.

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

Condition 32: Compliance Certification
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement:40CFR 60.752(b)(2), NSPS Subpart



WWW

Item 32.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 32.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

ACTIVE LANDFILL GAS COLLECTION SYSTEM

The active landfill gas collection system shall:

(1) Be designed to handle the maximum expected gas flow rate from the entire area of the landfill that warrants control over the intended use period of the gas control or treatment system equipment;

(a) For the purposes of calculating the maximum expected gas generation flow rate from the landfill, the following equation shall be used. The k and Lo kinetic factors should be those published in the most recent Compilation of Air Pollutant Emission Factors (AP-42) or other site specific values demonstrated to be appropriate and approved by the Administrator. A value of no more than 15 years shall be used for the intended use period of the gas mover equipment. The active life of the landfill is the age of the landfill plus the estimated number of years until closure.

$$QM = \sum_{i=1}^n [2 * k * Lo * Mi * (e^{(-kti)})]$$

where,

QM =maximum expected gas generation flow rate, cubic meters per year

k=methane generation rate constant, year⁻¹

Lo =methane generation potential, cubic meters per megagram solid waste

Mi =mass of solid waste in the ith section, megagrams

ti =age of the ith section, years

i=1 to n

(b) If a collection and control system has been installed, actual flow data may be used to project the maximum expected gas generation flow rate instead of, or in conjunction with, the equation in paragraph (a) above. If the landfill is still accepting waste, the actual measured flow data will not equal the maximum expected gas generation rate, so calculations using the equation in



paragraph (a) or other methods shall be used to predict the maximum expected gas generation rate over the intended period of use of the gas control system equipment.

(2) Collect gas from each area, cell, or group of cells in the landfill. Each well shall be installed no later than 60 days after the date on which the initial solid waste has been in place for a period of:

- (a) 5 years or more if active; or
- (b) 2 years or more if closed or at final grade.

For the purposes of determining sufficient density of gas collectors, the owner or operator shall design a system of vertical wells, horizontal collectors, or other collection devices, satisfactory to the Administrator, capable of controlling and extracting gas from all portions of the landfill sufficient to meet all operational and performance standards.

(3) Collect gas at a sufficient extraction rate;

(4) Be designed to minimize off-site migration of subsurface gas.

(5) In the event the collection or control system is inoperable, the gas mover system shall be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere shall be closed within 1 hour;

(6) Keep 5 years up-to-date, readily accessible records of the following information. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable:

(a) The design capacity report which triggered § 60.752(b), the current amount of solid waste in-place, and the year-by-year waste acceptance rate;

(b) The maximum expected gas generation flow rate as calculated in paragraph (1) above. The owner or operator may use another method to determine the maximum gas generation flow rate, if the method has been approved by the Administrator; and

(c) The density of wells, horizontal collectors, surface collectors, or other gas extraction devices determined using the procedures specified in § 60.759(a)(1).

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 1/30/2016.

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

Condition 33: Compliance Certification
Effective between the dates of 10/07/2015 and 10/06/2020

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

Item 33.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 33.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

OPEN FLARE

(1) The open flare shall be designed and operated in accordance with § 60.18 except:
"the net heating value of the combusted landfill gas as determined in § 60.18(f)(3) is calculated from the concentration of methane in the landfill gas as measured by Method 3C. A minimum of three 30-minute Method 3C samples are determined. The measurement of other organic components, hydrogen, and carbon monoxide is not applicable. Method 3C may be used to determine the landfill gas molecular weight for calculating the flare gas exit velocity under § 60.18(f)(4)."

(2) The following equipment shall be installed, calibrated, maintained, and operated according to the manufacturer's specifications:

(a) A heat sensing device, such as an ultraviolet beam sensor or thermocouple, at the pilot light or the flame itself to indicate the continuous presence of a flame.

(b) A device that records flow to or bypass of the flare. The owner or operator shall either:

(i) Install, calibrate, and maintain a gas flow rate measuring device that shall record the flow to the control device at least every 15 minutes; or

(ii) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type



configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.

- (3) Operate the control system at all times when the collected gas is routed to the system.
- (4) Keep 5 years up-to-date, readily accessible records of:
 - (a) flare type (i.e., steam-assisted, air-assisted, or nonassisted);
 - (b) all visible emission readings;
 - (c) heat content determination;
 - (d) flow rate or bypass flow rate measurements;
 - (e) exit velocity determinations made during the performance test as specified in § 60.18;
 - (f) continuous records of the flare pilot flame or flare flame monitoring; and
 - (g) records of all periods of operations during which the flare flame or flare pilot flame is absent.

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 1/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 34: Compliance Certification
Effective between the dates of 10/07/2015 and 10/06/2020

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

Item 34.1:
The Compliance Certification activity will be performed for the Facility.

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

Item 34.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

GAS TREATMENT SYSTEM

- (1) Route the collected gas to a treatment system that



processes the collected gas for subsequent sale or use. All emissions from any atmospheric vent from the gas treatment system shall be subject to the requirements of § 60.752(b)(2)(iii) (A) or (B).

(2) The landfill gas treatment system for the stationary internal combustion engines shall be designed and operated as follows:

(a) Landfill gas that is collected and used for fuel in an engine or used for subsequent sale as a fuel shall be treated in a treatment system that has an absolute filtration rating of 10 microns or less, lowers the water dew point of the landfill gas by at least 20 degrees Fahrenheit with a dewatering process, and compresses the landfill gas.

(b) Chautauqua County Landfill shall operate the gas treatment system in accordance with the monitoring plan that includes: (i) Design specifications for the filtration, de-watering, and compression systems, (ii) minimum pressure drop across the filtration system, or other monitoring parameter(s) and operating ranges, and (iii) minimum landfill gas temperature reduction across a chiller based de-watering system or the minimum landfill gas dew point reduction for a non-chiller-based de-watering system, or other operating parameters.

(3) Operate the treatment system at all times when the collected gas is routed to the system.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: LANDFILL GAS
Parameter Monitored: TEMPERATURE
Lower Permit Limit: 20 degrees Fahrenheit
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: MINIMUM - NOT TO FALL BELOW STATED VALUE - SEE MONITORING DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 35: Compliance Certification
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement: 40CFR 60.752(d), NSPS Subpart

WWW

Item 35.1:
The Compliance Certification activity will be performed for the Facility.



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

Item 35.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

LANDFILL CLOSURE

(1) The collection and control system may be capped or removed provided that all the conditions of paragraphs (a), (b), and (c) are met:

(a) The landfill shall be a closed landfill as defined in § 60.751 of this subpart. A closure report shall be submitted to the Administrator as provided in § 60.757(d);

(b) The collection and control system shall have been in operation a minimum of 15 years; and

(c) Following the procedures specified in paragraph (2) below, the calculated NMOC gas produced by the landfill shall be less than 50 megagrams per year on three successive test dates. The test dates shall be no less than 90 days apart, and no more than 180 days apart.

(2) After the installation of a collection and control system, the owner or operator shall calculate the NMOC emission rate for purposes of determining when the system can be removed using the following equation:

$$MNMOC = (1.89 \times 10^{-3}) * QLFG * CNMOC$$

where,

MNMOC = mass emission rate of NMOC, megagrams per year

QLFG = flow rate of landfill gas, cubic meters per minute

CNMOC = NMOC concentration, parts per million by volume as hexane

(a) The flow rate of landfill gas, QLFG, shall be determined by measuring the total landfill gas flow rate at the common header pipe that leads to the control device using a gas flow measuring device calibrated according to the provisions of section 4 of Method 2E of appendix A of this part.

(b) The average NMOC concentration, CNMOC, shall be determined by collecting and analyzing landfill gas sampled from the common header pipe before the gas moving



or condensate removal equipment using the procedures in Method 25C or Method 18 of appendix A of this part. If using Method 18 of appendix A of this part, the minimum list of compounds to be tested shall be those published in the most recent Compilation of Air Pollutant Emission Factors (AP-42). The sample location on the common header pipe shall be before any condensate removal or other gas refining units. The landfill owner or operator shall divide the NMOC concentration from Method 25C of appendix A of this part by six to convert from CNMOC as carbon to CNMOC as hexane.

(c) The owner or operator may use another method to determine landfill gas flow rate and NMOC concentration if the method has been approved by the Administrator.

(3) When a MSW landfill subject to this subpart is closed, the owner or operator is no longer subject to the requirement to maintain an operating permit under part 70 or 71 of this chapter for the landfill if the landfill is not otherwise subject to the requirements of either part 70 or 71 and if either of the following conditions are met:

- (a) The landfill was never subject to the requirement for a control system; or
- (b) The owner or operator meets the conditions for control system removal.

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 1/30/2016.

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

Condition 36: Compliance Certification
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement: 40CFR 60.753(b), NSPS Subpart

WWW

Item 36.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 36.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS



Monitoring Description:

NEGATIVE PRESSURE AT WELLHEAD

(1) Operate the collection system with negative pressure at each wellhead except under the following conditions:

(a) A fire or increased well temperature. The owner or operator shall record instances when positive pressure occurs in efforts to avoid a fire. These records shall be submitted with the annual reports;

(b) Use of a geomembrane or synthetic cover. The owner or operator shall develop acceptable pressure limits in the design plan;

(c) A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows. All design changes shall be approved by the Administrator;

(2) Measure gauge pressure in the gas collection header at each individual well on a monthly basis. If a positive pressure exists, action shall be initiated to correct the exceedance within 5 calendar days, except for the three conditions allowed above. If negative pressure cannot be achieved without excess air infiltration within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial measurement of positive pressure. Any attempted corrective measure shall not cause exceedances of other operational or performance standards. An alternative timeline for correcting the exceedance may be submitted to the Administrator for approval.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: LANDFILL GAS

Parameter Monitored: PRESSURE

Upper Permit Limit: 0 pounds per square inch gauge

Reference Test Method: As per 40CFR60 Subpart WWW

Monitoring Frequency: MONTHLY

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -
SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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

Condition 37: Compliance Certification
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement:40CFR 60.753(c), NSPS Subpart

WWW

Item 37.1:



The Compliance Certification activity will be performed for the Facility.

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

Item 37.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

GAS TEMPERATURE AT WELLHEAD

- (1) Install a sampling port and a thermometer, other temperature measuring device, or an access port for temperature measurements at each wellhead;
- (2) Operate each interior wellhead in the collection system with a landfill gas temperature less than 55 °C. The owner or operator may establish a higher operating temperature at a particular well. A higher operating value demonstration shall show supporting data that the elevated parameter does not cause fires or significantly inhibit anaerobic decomposition by killing methanogens.;
- (3) Monitor temperature at each well on a monthly basis. If a well exceeds this operating parameter, action shall be initiated to correct the exceedance within 5 calendar days. If correction of the exceedance cannot be achieved within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial exceedance. Any attempted corrective measure shall not cause exceedances of other operational or performance standards. An alternative timeline for correcting the exceedance may be submitted to the Administrator for approval.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: LANDFILL GAS
Parameter Monitored: TEMPERATURE
Upper Permit Limit: 55 degrees Centigrade (or Celsius)
Reference Test Method: As per 40CFR60 Subpart WWW
Monitoring Frequency: MONTHLY
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -
SEE MONITORING DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 38: Compliance Certification



Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement: 40CFR 60.753(c), NSPS Subpart

WWW

Item 38.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 38.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

OXYGEN OR NITROGEN CONTENT AT WELLHEAD

(1) Operate each interior wellhead in the collection system with either a nitrogen level less than 20 percent or an oxygen level less than 5 percent. The owner or operator may establish a higher operating nitrogen, or oxygen value at a particular well. A higher operating value demonstration shall show supporting data that the elevated parameter does not cause fires or significantly inhibit anaerobic decomposition by killing methanogens.

(a) The nitrogen level shall be determined using Method 3C, unless an alternative test method is established.

(b) Unless an alternative test method is established, the oxygen shall be determined by an oxygen meter using Method 3A or 3C except that:

(i) The span shall be set so that the regulatory limit is between 20 and 50 percent of the span;

(ii) A data recorder is not required;

(iii) Only two calibration gases are required, a zero and span, and ambient air may be used as the span;

(iv) A calibration error check is not required;

(v) The allowable sample bias, zero drift, and calibration drift are ± 10 percent.

(2) Monitor nitrogen or oxygen concentration at each well on a monthly basis. If a well exceeds one of these operating parameters, action shall be initiated to correct the exceedance within 5 calendar days. If correction of the exceedance cannot be achieved within 15 calendar days of the first measurement, the gas collection system shall



be expanded to correct the exceedance within 120 days of the initial exceedance. Any attempted corrective measure shall not cause exceedances of other operational or performance standards. An alternative timeline for correcting the exceedance may be submitted to the Administrator for approval.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: LANDFILL GAS
Parameter Monitored: OXYGEN CONTENT
Upper Permit Limit: 5 percent
Reference Test Method: EPA Method 3A
Monitoring Frequency: MONTHLY
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -
SEE MONITORING DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 39: Compliance Certification
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement: 40CFR 60.753(d), NSPS Subpart

WWW

Item 39.1:
The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 000074-82-8 METHANE

Item 39.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: AMBIENT AIR MONITORING
Monitoring Description:

SURFACE SCANS

Operate the collection system so that the methane concentration is less than 500 parts per million above background at the surface of the landfill. To determine if this level is exceeded, the owner or operator shall conduct surface testing around the perimeter of the collection area and along a pattern that traverses the landfill at 30 meter intervals and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover. The owner or operator may establish an alternative traversing pattern that ensures equivalent coverage. A surface monitoring design plan shall be



developed that includes a topographical map with the monitoring route and the rationale for any site specific deviations from the 30 meter intervals. Areas with steep slopes or other dangerous areas may be excluded from the surface testing.

Parameter Monitored: METHANE

Upper Permit Limit: 500 parts per million (by volume)

Reference Test Method: Method 21

Monitoring Frequency: QUARTERLY

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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

Condition 40: Compliance Certification
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement: 40CFR 60.755(c), NSPS Subpart

WWW

Item 40.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000074-82-8 METHANE

Item 40.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

MONTHLY COVER PROCEDURES

The following procedures shall be used for compliance with the surface methane operational standard:

- (1) The owner or operator shall implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis.

Monitoring Frequency: MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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

Condition 41: Compliance Certification



Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement: 40CFR 60.755(c), NSPS Subpart

WWW

Item 41.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000074-82-8 METHANE

Item 41.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

SURFACE SCAN PROCEDURES

The following procedures shall be used for compliance with the surface methane operational standard:

(1) After installation of the collection system, the owner or operator shall monitor surface concentrations of methane along the entire perimeter of the collection area and along a pattern that traverses the landfill at 30 meter intervals (or a site-specific established spacing) for each collection area on a quarterly basis using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications in §60.755(d).

(2) The background concentration shall be determined by moving the probe inlet upwind and downwind outside the boundary of the landfill at a distance of at least 30 meters from the perimeter wells.

(3) Surface emission monitoring shall be performed in accordance with section 8.3.1 of Method 21 of appendix A of this part, except that the probe inlet shall be placed within 5 to 10 centimeters of the ground. Monitoring shall be performed during typical meteorological conditions.

(4) Any reading of 500 parts per million or more above background at any location shall be recorded as a monitored exceedance and the following actions specified in paragraphs (i) through (v) shall be taken. As long as the specified actions are taken, the exceedance is not a violation of the operational requirements.

(i) The location of each monitored exceedance shall be marked and the location recorded.



(ii) Cover maintenance or adjustments to the vacuum of the adjacent wells to increase the gas collection in the vicinity of each exceedance shall be made and the location shall be re-monitored within 10 calendar days of detecting the exceedance.

(iii) If the re-monitoring of the location shows a second exceedance, additional corrective action shall be taken and the location shall be monitored again within 10 days of the second exceedance. If the re-monitoring shows a third exceedance for the same location, the action specified in paragraph (v) of this section shall be taken, and no further monitoring of that location is required until the action specified in paragraph (v) has been taken.

(iv) Any location that initially showed an exceedance but has a methane concentration less than 500 ppm methane above background at the 10-day re-monitoring shall be re-monitored 1 month from the initial exceedance. If the 1-month re-monitoring shows a concentration less than 500 parts per million above background, no further monitoring of that location is required until the next quarterly monitoring period. If the 1-month re-monitoring shows an exceedance, the actions specified in paragraph (iii) or (v) shall be taken.

(v) For any location where monitored methane concentration equals or exceeds 500 parts per million above background three times within a quarterly period, a new well or other collection device shall be installed within 120 calendar days of the initial exceedance. An alternative remedy to the exceedance, such as upgrading the blower, header pipes or control device, and a corresponding timeline for installation may be submitted to the Administrator for approval.

(vi) Any closed landfill that has no monitored exceedances of the operational standard in three consecutive quarterly monitoring periods may skip to annual monitoring. Any methane reading of 500 ppm or more above background detected during the annual monitoring returns the frequency for that landfill to quarterly monitoring.

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 1/30/2016.

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

Condition 42: Compliance Certification
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement:40CFR 60.755(d), NSPS Subpart



Item 43.1:

Each owner or operator of a controlled landfill shall submit a closure report to the Administrator within 30 days of waste acceptance cessation. The Administrator may request additional information as may be necessary to verify that permanent closure has taken place in accordance with the requirements of 40 CFR Part 258.60 of this title. If a closure report has been submitted to the Administrator, no additional wastes may be placed into the landfill without filing a notification of modification as described under 40 CFR Part 60.7(a)(4).

**Condition 44: Reporting Requirements - Control Equipment Removal
Effective between the dates of 10/07/2015 and 10/06/2020**

Applicable Federal Requirement:40CFR 60.757(e), NSPS Subpart

WWW

Item 44.1:

Each owner or operator of a controlled landfill shall submit an equipment removal report to the Administrator 30 days prior to removal or cessation of operation of the control equipment.

(1) The equipment removal report shall contain all of the following items:

- (i) A copy of the closure report submitted in accordance with 40 CFR Part 60.757(d) of this section;
- (ii) A copy of the initial performance test report demonstrating that the 15 year minimum control period has expired; and
- (iii) Dated copies of three successive NMOC emission rate reports demonstrating that the landfill is no longer producing 50 megagrams or greater of NMOC per year.

(2) The Administrator may request such additional information as may be necessary to verify that all of the conditions for removal in 40 CFR Part 60.752(b)(2)(v) have been met.

**Condition 45: Compliance Certification
Effective between the dates of 10/07/2015 and 10/06/2020**

Applicable Federal Requirement:40CFR 60.757(f), NSPS Subpart WWW

Item 45.1:

The Compliance Certification activity will be performed for the Facility.

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

Item 45.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

REPORTING REQUIREMENT

(1) Each owner or operator of a landfill using an active



collection system shall submit to the Administrator semi-annual reports of the following information:

- (a) Value and length of time for exceedance of applicable parameters monitored for the gas wells and combustion devices;
- (b) Description and duration of all periods when the gas stream is diverted from the control device through a bypass line or the indication of bypass flow;
- (c) Description and duration of all periods when the control device was not operating for a period exceeding 1 hour and length of time the control device was not operating;
- (d) All periods when the collection system was not operating in excess of 5 days;
- (e) The location of each exceedance of the 500 parts per million methane concentration and the concentration recorded at each location for which an exceedance was recorded in the previous month; and
- (f) The date of installation and the location of each well or collection system expansion.

Note: This reporting condition is also required by § 63.1980(a).

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 1/30/2016.

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

Condition 46: Reporting requirements - Collection and control system Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement: 40CFR 60.757(g), NSPS Subpart

WWW

Item 46.1:

Each owner or operator seeking to comply with 40 CFR Part 60.752(b)(2)(iii) shall include the following information with the initial performance test report required under 40 CFR Part 60.8:

- 1) A diagram of the collection system showing collection system positioning including all wells, horizontal collectors, surface collectors, or other gas extraction devices, including the locations of any areas excluded from collection and the proposed sites for the future collection system expansion;



2) The data upon which the sufficient density of wells, horizontal collectors, surface collectors, or other gas extraction devices and the gas mover equipment sizing are based;

3) The documentation of the presence of asbestos or nondegradable material for each area from which collection wells have been excluded based on the presence of asbestos or nondegradable material;

4) The sum of the gas generation flow rates for all areas from which collection wells have been excluded based on nonproductivity and the calculations of gas generation flow rate for each excluded area; and

5) The provisions for increasing gas mover equipment capacity with increased gas generation flow rate, if the present gas mover equipment is inadequate to move the maximum flow rate expected over the life of the landfill; and

6) The provisions for the control of off-site migration.

Condition 47: Compliance Certification
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement: 40CFR 60.758(d), NSPS Subpart

WWW

Item 47.1:

The Compliance Certification activity will be performed for the Facility.

Item 47.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Except as provided in 40 CFR Part 60.752(b)(2)(i)(B), each owner or operator shall keep for the life of the collection system an up-to-date, readily accessible plot map showing each existing and planned collector in the system and providing a unique identification location label for each collector.

1) Each owner or operator shall keep up-to-date, readily accessible records of the installation date and location of all newly installed collectors as specified under 40 CFR Part 60.755(b).

2) Each owner or operator shall keep readily accessible documentation of the nature, date of deposition, amount, and location of asbestos-containing or nondegradable waste excluded from collection as provided in 40 CFR Part 60.759(a)(3)(i) as well as any nonproductive areas excluded from collection as provided in 40 CFR Part 60.759(a)(3)(ii).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

New York State Department of Environmental Conservation

Permit ID: 9-0636-00006/00017

Facility DEC ID: 9063600006



DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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

Condition 48: Compliance Certification
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement:40CFR 60.758(e), NSPS Subpart

WWW

Item 48.1:

The Compliance Certification activity will be performed for the Facility.

Item 48.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Except as provided in 40 CFR Part 60.752(b)(2)(i)(B), each owner or operator shall keep for at least 5 years up-to-date, readily accessible records of all collection and control system exceedances of the operational standards in 40 CFR Part 60.753, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance.

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 1/30/2016.

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

Condition 49: Specifications for active collection systems
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement:40CFR 60.759(a), NSPS Subpart

WWW

Item 49.1:

Each owner or operator seeking to comply with 40 CFR Part 60.752(b)(2)(i) shall site active collection wells, horizontal collectors, surface collectors, or other extraction devices at a sufficient density throughout all gas producing areas using the following procedures unless alternative procedures have been approved by the Administrator as provided in 40 CFR 60.752(b)(2)(i)(C) and (D):

1) The collection devices within the interior and along the perimeter areas shall be certified to achieve comprehensive control of surface gas emissions by a professional engineer. The following issues shall be addressed in the design: depths of refuse, refuse gas generation rates and flow characteristics, cover properties, gas system expandability, leachate and



condensate management, accessibility, compatibility with filling operations, integration with closure end use, air intrusion control, corrosion resistance, fill settlement, and resistance to the refuse decomposition heat.

2) The sufficient density of gas collection devices determined in paragraph (1) above shall address landfill gas migration issues and augmentation of the collection system through the use of active or passive systems at the landfill perimeter or exterior.

3) The placement of gas collection devices determined in paragraph (1) above shall control all gas producing areas, except as provided by paragraphs (3)(i) and (3)(ii) below.

i) Any segregated area of asbestos or nondegradable material may be excluded from collection if documented as provided under 40 CFR Part 60.758(d). The documentation shall provide the nature, date of deposition, location and amount of asbestos or nondegradable material deposited in the area, and shall be provided to the Administrator upon request.

ii) Any nonproductive area of the landfill may be excluded from control, provided that the total of all excluded areas can be shown to contribute less than 1 percent of the total amount of NMOC emissions from the landfill. The amount, location, and age of the material shall be documented and provided to the Administrator upon request. A separate NMOC emissions estimate shall be made for each section proposed for exclusion, and the sum of all such sections shall be compared to the NMOC emissions estimate for the entire landfill. Emissions from each section shall be computed using the following equation:

$$Q_i = 2 k L_o M_i (e^{-kt_i}) (\text{CNMOC}) (3.6 \times 10^{-9})$$

where,

Q_i = NMOC emission rate from the i th section, megagrams per year

k = methane generation rate constant, year⁻¹

L_o = methane generation potential, cubic meters per megagram solid waste

M_i = mass of the degradable solid waste in the i th section, megagram

t_i = age of the solid waste in the i th section, years

CNMOC = concentration of nonmethane organic compounds, parts per million

by volume

3.6×10^{-9} = conversion factor

iii) The values for k and CNMOC determined in field testing shall be used, if field testing has been performed in determining the NMOC emission rate or the radii of influence (the distance from the well center to a point in the landfill where the pressure gradient applied by the blower or compressor approaches zero). If field testing has not been performed, the default values for k , L_o and CNMOC provided in 40 CFR Part 60.754(a)(1) or the alternative values from 40 CFR Part 60.754(a)(5) shall be used. The mass of nondegradable solid waste contained within the given section may be subtracted from the total mass of the section when estimating emissions provided the nature, location, age, and amount of the nondegradable material is documented as provided in paragraph (3)(i) above.

Condition 50: Specifications for active collection systems
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement: 40CFR 60.759(b), NSPS Subpart

WWW



Item 50.1:

Each owner or operator seeking to comply with 40 CFR Part 60.752(b)(2)(i)(A) shall construct the gas collection devices using the following equipment or procedures:

1) The landfill gas extraction components shall be constructed of polyvinyl chloride (PVC), high density polyethylene (HDPE) pipe, fiberglass, stainless steel, or other nonporous corrosion resistant material of suitable dimensions to: convey projected amounts of gases; withstand installation, static, and settlement forces; and withstand planned overburden or traffic loads. The collection system shall extend as necessary to comply with emission and migration standards. Collection devices such as wells and horizontal collectors shall be perforated to allow gas entry without head loss sufficient to impair performance across the intended extent of control. Perforations shall be situated with regard to the need to prevent excessive air infiltration.

2) Vertical wells shall be placed so as not to endanger underlying liners and shall address the occurrence of water within the landfill. Holes and trenches constructed for piped wells and horizontal collectors shall be of sufficient cross-section so as to allow for their proper construction and completion including, for example, centering of pipes and placement of gravel backfill. Collection devices shall be designed so as not to allow indirect short circuiting of air into the cover or refuse into the collection system or gas into the air. Any gravel used around pipe perforations should be of a dimension so as not to penetrate or block perforations.

3) Collection devices may be connected to the collection header pipes below or above the landfill surface. The connector assembly shall include a positive closing throttle valve, any necessary seals and couplings, access couplings and at least one sampling port. The collection devices shall be constructed of PVC, HDPE, fiberglass, stainless steel, or other nonporous material of suitable thickness.

Condition 51: Specifications for active collection systems
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement:40CFR 60.759(c), NSPS Subpart

WWW

Item 51.1:

Each owner or operator seeking to comply with 40 CFR Part 60.752(b)(2)(i)(A) shall convey the landfill gas to a control system in compliance with 40 CFR Part 60.752(b)(2)(iii) through the collection header pipe(s). The gas mover equipment shall be sized to handle the maximum gas generation flow rate expected over the intended use period of the gas moving equipment using the following procedures:

1) For existing collection systems, the flow data shall be used to project the maximum flow rate. If no flow data exists, the procedures in paragraph (2) below shall be used.

2) For new collection systems, the maximum flow rate shall be in accordance with 40 CFR Part 60.755(a)(1).

Condition 52: Asbestos-containing waste material standard for active waste disposal sites
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement:40CFR 61.154, NESHAP Subpart M



Item 52.1:

Owner or operator shall comply with the requirements of 40 CFR Part 61.154 when accepting asbestos-containing waste material from any source required to comply with 40 CFR Part 61.149, 61.150, or 61.155.

Condition 53: Compliance Certification
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement: 40CFR 63.1955(b), Subpart AAAAA

Item 53.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 53.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If you are required by 40CFR60.752(b)(2) of subpart WWW, the Federal plan, or an EPA approved and effective State or tribal plan to install a collection and control system, you must comply with the requirements in §§63.1960 through 63.1985 and with the general provisions of part 63 as specified in table 1 of Subpart AAAAA.

The facility 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 startup, shutdown, and malfunction; a program of corrective action for malfunctioning process; and air pollution control and monitoring equipment used to comply with this standard.

This plan must be developed by the facility by the compliance date of 40CFR63, subpart AAAAA (the landfill NESHAP) and must comply with all of the provisions as listed in §63.6(e)(3).

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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

**** Emission Unit Level ****

New York State Department of Environmental Conservation

Permit ID: 9-0636-00006/00017

Facility DEC ID: 9063600006



Condition 54: Emission Point Definition By Emission Unit
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 54.1:

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

Emission Unit: 1-LFGAS

Emission Point: BKFLR

Height (ft.): 34 Diameter (in.): 10
NYTMN (km.): 4681.098 NYTME (km.): 143.873

Emission Point: FLARE

Height (ft.): 34 Diameter (in.): 10
NYTMN (km.): 4681.098 NYTME (km.): 143.873

Item 54.2:

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

Emission Unit: 1-LFGTE

Emission Point: ENG01

Height (ft.): 28 Diameter (in.): 15
NYTMN (km.): 4681.098 NYTME (km.): 143.873 Building: ENGBLDG

Emission Point: ENG02

Height (ft.): 28 Diameter (in.): 15
NYTMN (km.): 4681.098 NYTME (km.): 143.873 Building: ENGBLDG

Emission Point: ENG03

Height (ft.): 28 Diameter (in.): 15
NYTMN (km.): 4681.098 NYTME (km.): 143.873 Building: ENGBLDG

Emission Point: ENG04

Height (ft.): 28 Diameter (in.): 15
NYTMN (km.): 4681.098 NYTME (km.): 143.873 Building: ENGBLDG

Emission Point: ENG05

Height (ft.): 28 Diameter (in.): 15
NYTMN (km.): 4681.098 NYTME (km.): 143.873 Building: ENGBLDG

Emission Point: ENG06

Height (ft.): 28 Diameter (in.): 15
NYTMN (km.): 4681.098 NYTME (km.): 143.873 Building: ENGBLDG

Condition 55: Process Definition By Emission Unit
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement:6 NYCRR Subpart 201-6



Item 55.1:

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

Emission Unit: 1-LFGAS
Process: FUG Source Classification Code: 5-01-004-02
Process Description:
Process FUG includes fugitive landfill gas emissions not collected by the active gas collection system. The amount of fugitive emissions is reduced as the final cover is installed over filled areas of the landfill.

Emission Source/Control: LNDFL - Process
Design Capacity: 7,340,000 Megagrams (10**6 grams)

Emission Source/Control: LNDP4 - Process
Design Capacity: 8,000,000 Megagrams (10**6 grams)

Item 55.2:

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

Emission Unit: 1-LFGAS
Process: GAS Source Classification Code: 5-01-004-10
Process Description:
Process 'GAS' includes the collected landfill gas from the gas collection system and the operation of the 3,000 cfm open flare and the 3,000 cfm backup open flare. The flares are used when there is excess gas beyond the capacity of the engine plant.

This process also includes two engines subject to 40CFR 63 Subpart ZZZZ. These are identified as follows:
Leachate pump-house Emergency Generator (ENGN1);
and
Pond-water Engine Driven Pump (ENPMP)

Emission Source/Control: 01FLR - Combustion
Design Capacity: 3,000 cubic feet per minute

Emission Source/Control: BCKUP - Combustion
Design Capacity: 3,000 cubic feet per minute

Emission Source/Control: EMGN1 - Combustion
Design Capacity: 47 horsepower (mechanical)

Emission Source/Control: ENPMP - Combustion
Design Capacity: 39 horsepower (mechanical)

Emission Source/Control: LFGCS - Process

Emission Source/Control: LNDFL - Process
Design Capacity: 7,340,000 Megagrams (10**6 grams)



Emission Source/Control: LNDP4 - Process
Design Capacity: 8,000,000 Megagrams (10**6 grams)

Item 55.3:

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

Emission Unit: 1-LFGTE
Process: 001 Source Classification Code: 2-01-008-07
Process Description:

Process 001 consists of six (6) Caterpillar G3520C landfill gas stationary internal combustion (IC) engine generator sets. The six (6) IC engines have individual maximum heat input rates of 14.67 MMBtu/hr LHV (88.02 MMBtu/hr combined). 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.

The process also includes the following exempt sources: two radiator coolant tanks, one lube oil tank, one used oil tank, a single emergency electricity generator and a diesel fuel storage tank.

The emergency generator is subject to 40 CFR 60 Subpart III and is identified as follows:
Landfill Gas Power-Plant Emergency Generator (EMGN2)

Emission Source/Control: 01ENG - Combustion
Design Capacity: 1,600 kilowatts

Emission Source/Control: 02ENG - Combustion
Design Capacity: 1,600 kilowatts

Emission Source/Control: 03ENG - Combustion
Design Capacity: 1,600 kilowatts

Emission Source/Control: 04ENG - Combustion
Design Capacity: 1,600 kilowatts

Emission Source/Control: 05ENG - Combustion
Design Capacity: 1,600 kilowatts

Emission Source/Control: 06ENG - Combustion
Design Capacity: 1,600 kilowatts

Emission Source/Control: EMGN2 - Combustion
Design Capacity: 133 horsepower (mechanical)

Condition 56: Compliance Certification
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement: 40CFR 60, NSPS Subpart III



Item 56.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-LFGAS
Process: GAS

Regulated Contaminant(s):

CAS No: 000630-08-0	CARBON MONOXIDE
CAS No: 0NY075-00-0	PARTICULATES
CAS No: 0NY998-00-0	VOC
CAS No: 0NY210-00-0	OXIDES OF NITROGEN

Item 56.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

MISC INTERNAL COMBUSTION ENGINE
40CFR60 SUBART IIII REQUIREMENTS:

Landfill Gas Power-Plant Emergency Generator
(ENGN2)

- (1) Maintain manufacturer certification that the engine meets the emission standards of 40CFR 89.112 and 40 CFR 89.113 for all pollutants;
- (2) Operate and maintain in compliance with the emission standards over the entire life of the engine;
- (3) Use only Ultra Low Sulfur Diesel (ULSD) 15 ppm;
- (4) Maintain records documenting the engine is operated and maintained in accordance with the manufacturer specifications;
- (5) Operate the emergency stationary ICE according to the following requirements:
 - (a) No limits on hours of operation for emergency service;
 - (b) Maintenance checks and readiness testing is limited to 100 hours per year;
 - (c) Operate the emergency engine up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing;
 - (d) Install non-resettable hour meter and maintain records of engine operation in emergency and non-emergency service (e.g., maintenance).



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 1/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 57: Compliance Certification
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement: 40CFR 63, Subpart ZZZZ

Item 57.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-LFGAS
Process: GAS

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 57.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

MISC INTERNAL COMBUSTION ENGINES
40CFR63 SUBART ZZZZ REQUIREMENTS:

- (1) Leachate pump-house Emergency Generator (ENGN1)
 - (a) Change oil/filter & inspect hoses/belts every 500 hours or annually;
 - (b) Inspect air cleaner every 1,000 hours or annually
- (2) Pond-water Engine Driven Pump (ENPMP)
 - (a) Change oil/filter & inspect air cleaner every 1,000 hours or annually;
 - (b) Inspect hoses/belts every 500 hours or annually
- (3) Operate and maintain each engine per manufacturer's instructions or owner-developed maintenance plan;
- (4) May use oil analysis program instead of prescribed oil change frequency;
- (5) Emergency engine must have an hour meter, record hours of operation and document hours spent in emergency or non-emergency operation; and



(6) Keep maintenance records.

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 1/30/2016.

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

Condition 58: Compliance Certification
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement:6 NYCRR Subpart 202-1

Item 58.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-LFGTE

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 58.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

(1) Chautauqua County shall operate the six (6) Caterpillar G3520C landfill gas internal combustion engines at the design emission rate of 3.0 grams per brake horsepower-hour (g/bhp-hr) for carbon monoxide (CO). The Department requires periodic monitoring and routine performance testing of the internal combustion engines to confirm the engines consistently operate within the design criteria.

PERIODIC MONITORING

(2) Each month the facility is required to analyze CO stack emissions on each engine with a portable analyzer.

(3) Based on the most recent required annual performance test completed in 2013, the target CO concentration is approximately 738 ppm.

(4) If the target concentration is exceeded, the engines shall be tuned and monitoring repeated within 10 business days. If the target concentration is exceeded upon



remonitoring, then an evaluation of the potential applicability to Prevention of Significant Deterioration (6NYCRR Part 231-8) shall be completed.

(5) Records shall be maintained to include: (a) date and time of the measurement, (b) a log of the CO measurements in ppm, (c) calculations used for determining the target concentration based on the most recent performance test, and (d) description of adjustments made to the engine (if any).

ROUTINE PERFORMANCE TESTING

(6) An annual performance test of five of the six engines is required under the permit conditions for the New Source Performance Standards (NSPS) for Stationary Spark Ignition Internal Combustion Engines specified in 40 CFR 60 Subpart JJJJ. As such, no additional performance tests are required for the five engines; however, compliance with the lower 3.0 g/bhp-hr CO emission standard must be demonstrated during the annual testing.

The sixth engine, with a serial number of GZJ00320 and a build date of 6/29/2007, is not subject to the NSPS or 40CFR63 Subpart ZZZZ. As such, this engine shall be tested once per permit term to demonstrate compliance with the 3.0 g/bhp-hr CO limit.

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 3.0 grams per brake horsepower-hour

Monitoring Frequency: MONTHLY

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -
SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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

Condition 59: Compliance Certification
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement:6 NYCRR Subpart 202-1

Item 59.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-LFGTE

Regulated Contaminant(s):

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

Item 59.2:

Compliance Certification shall include the following monitoring:



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

Monitoring Description:

(1) Chautauqua County shall operate the six (6) Caterpillar G3520C landfill gas internal combustion engines at the design emission rate of 0.6 grams per brake horsepower-hour (g/bhp-hr) for oxides of nitrogen (NO_x). The Department requires periodic monitoring and routine performance testing of the internal combustion engines to confirm the engines consistently operate within the design criteria.

PERIODIC MONITORING

(2) Each month the facility is required to analyze NO_x stack emissions on each engine with a portable analyzer.

(3) Based on the most recent required annual performance test completed in 2013, the target NO_x concentration is approximately 90 ppm.

(4) If the target concentration is exceeded, the engines shall be tuned and monitoring repeated within 10 business days. If the target concentration is exceeded upon remonitoring, then an evaluation of the potential applicability to Prevention of Significant Deterioration (6NYCRR Part 231-8) and Reasonably Available Control Technology for Oxides of Nitrogen (6NYCRR Part 227-2) shall be completed.

(5) Records shall be maintained to include: (a) date and time of the measurement, (b) a log of the NO_x measurements in ppm, (c) calculations used for determining the target concentration based on the most recent performance test, and (d) description of adjustments made to the engine (if any).

ROUTINE PERFORMANCE TESTING

(6) An annual performance test of five of the six engines is required under the permit conditions for the New Source Performance Standards (NSPS) for Stationary Spark Ignition Internal Combustion Engines specified in 40 CFR 60 Subpart JJJJ. As such, no additional performance tests are required for the five engines; however, compliance with the lower 0.6 g/bhp-hr NO_x emission standard must be demonstrated during the annual testing.

The sixth engine, with a serial number of GZJ00320 and a build date of 6/29/2007, is not subject to the NSPS or 40CFR63 Subpart ZZZZ. As such, this engine shall be tested once per permit term to demonstrate compliance with



the 0.6 g/bhp-hr NO_x limit.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.6 grams per brake horsepower-hour

Monitoring Frequency: MONTHLY

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -
SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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

Condition 60: Compliance Certification
Effective between the dates of 10/07/2015 and 10/06/2020

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

Item 60.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-LFGTE

Item 60.2:

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 Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

The permittee will conduct observations of visible emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency stated below while the process is in operation. The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard.

The permittee shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the method 9 test



indicates that the opacity standard is not met.

Records of visible emissions observations (or any follow-up method 9 tests), investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: EPA Method 9
Monitoring Frequency: WEEKLY
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 1/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 61: Compliance Certification
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement: 40CFR 60.4233(e), NSPS Subpart JJJJ

Item 61.1:
The Compliance Certification activity will be performed for:

Emission Unit: 1-LFGTE

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

Item 61.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:

VOLATILE ORGANIC COMPOUND EMISSION
STANDARDS

Five (5) Caterpillar G3520C landfill gas
engines subject to 40CFR60 Subpart JJJJ
include:

Serial # - Build Date
GZJ00364 - 12/19/2007
GZJ00365 - 12/19/2007
GZJ00367 - 1/08/2008

New York State Department of Environmental Conservation

Permit ID: 9-0636-00006/00017

Facility DEC ID: 9063600006



GZJ00477 - 2/14/2011

GZJ00497 - 2/12/2011

§ 60.4233(e)

Comply with the emission standards in
Table 1 to this subpart as follows:

VOC 1.0 grams per brake
horsepower-hour or 80 ppmvd at 15%
oxygen

Parameter Monitored: VOC

Upper Permit Limit: 80 parts per million by volume (dry,
corrected to 15% O₂)

Reference Test Method: As specified in Table 2 40CFR60 Subpart JJJJ

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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

Condition 62: Compliance Certification

Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement:40CFR 60.4233(e), NSPS Subpart JJJJ

Item 62.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-LFGTE

Regulated Contaminant(s):

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

Item 62.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

OXIDES OF NITROGEN EMISSION
STANDARDS

Five (5) Caterpillar G3520C landfill gas
engines subject to 40CFR60 Subpart JJJJ
include:

Serial # - Build Date

GZJ00364 - 12/19/2007

New York State Department of Environmental Conservation

Permit ID: 9-0636-00006/00017

Facility DEC ID: 9063600006



GZJ00365 - 12/19/2007

GZJ00367 - 1/08/2008

GZJ00477 - 2/14/2011

GZJ00497 - 2/12/2011

§ 60.4233(e)

Comply with the emission standards in
Table 1 to this subpart as
follows:

NOx 3.0 grams per brake horsepower-hour
or 220 ppmvd at 15% oxygen

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 220 parts per million by volume
(dry, corrected to 15% O₂)

Reference Test Method: As specified in Table 2 40CFR60 Subpart JJJJ

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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

Condition 63: Compliance Certification

Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement: 40CFR 60.4233(e), NSPS Subpart JJJJ

Item 63.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-LFGTE

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 63.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

CARBON MONOXIDE EMISSION STANDARDS

Five (5) Caterpillar G3520C landfill gas
engines subject to 40CFR60 Subpart JJJJ
include:

New York State Department of Environmental Conservation

Permit ID: 9-0636-00006/00017

Facility DEC ID: 9063600006



Serial # - Build Date
GZJ00364 - 12/19/2007
GZJ00365 - 12/19/2007
GZJ00367 - 1/08/2008
GZJ00477 - 2/14/2011
GZJ00497 - 2/12/2011

§ 60.4233(e)
Comply with the emission standards in
Table 1 to this subpart as follows:

CO 5.0 grams per brake horsepower-hour
or 610 ppmvd at 15% oxygen

Parameter Monitored: CARBON MONOXIDE
Upper Permit Limit: 610 parts per million by volume
(dry, corrected to 15% O₂)
Reference Test Method: As specified in Table 2 40CFR60 Subpart JJJJ
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 64: Compliance Certification
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement: 40CFR 60.4243(b)(2)(ii), NSPS Subpart JJJJ

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

Emission Unit: 1-LFGTE

Item 64.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

COMPLIANCE REQUIREMENTS

Five (5) Caterpillar G3520C landfill gas engines subject
to 40CFR60 Subpart JJJJ include:

Serial # - Build Date
GZJ00364 - 12/19/2007
GZJ00365 - 12/19/2007

New York State Department of Environmental Conservation

Permit ID: 9-0636-00006/00017

Facility DEC ID: 9063600006



GZJ00367 - 1/08/2008
GZJ00477 - 2/14/2011
GZJ00497 - 2/12/2011

§ 60.4243(b)(2)(ii):

(1) Conduct an initial performance test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance.

(2) Keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.

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 1/30/2016.

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

Condition 65: Compliance Certification

Effective between the dates of 10/07/2015 and 10/06/2020

Applicable Federal Requirement:40CFR 60.4244, NSPS Subpart JJJJ

Item 65.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-LFGTE

Item 65.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

PERFORMANCE TEST REQUIREMENTS

Five (5) Caterpillar G3520C landfill gas engines subject to 40CFR60 Subpart JJJJ include:

Serial # - Build Date
GZJ00364 - 12/19/2007
GZJ00365 - 12/19/2007
GZJ00367 - 1/08/2008
GZJ00477 - 2/14/2011
GZJ00497 - 2/12/2011



§ 60.4244 Conduct performance tests as follows:

- (a) Each performance test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and according to the requirements in § 60.8 and under the specific conditions that are specified by Table 2 to this subpart.
- (b) Do not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in § 60.8(c). If your stationary SI internal combustion engine is non-operational, you do not need to startup the engine solely to conduct a performance test; however, you must conduct the performance test immediately upon startup of the engine.
- (c) Conduct three separate test runs for each performance test required in this section, as specified in § 60.8(f). Each test run must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and last at least 1 hour.
- (d) To determine compliance with the NOX mass per unit output emission limitation, convert the concentration of NOX in the engine exhaust using Equation 1 of this section.
- (e) To determine compliance with the CO mass per unit output emission limitation, convert the concentration of CO in the engine exhaust using Equation 2 of this section.
- (f) For purposes of this subpart, when calculating emissions of VOC, emissions of formaldehyde should not be included. To determine compliance with the VOC mass per unit output emission limitation, convert the concentration of VOC in the engine exhaust using Equation 3 of this section.
- (g) If the owner/operator chooses to measure VOC emissions using either Method 18 of 40 CFR part 60, appendix A, or Method 320 of 40 CFR part 63, appendix A, then it has the option of correcting the measured VOC emissions to account for the potential differences in measured values between these methods and Method 25A. The results from Method 18 and Method 320 can be corrected for response factor differences using Equations 4 and 5 of this section. The corrected VOC concentration can then be placed on a propane basis using Equation 6 of this section.

§ 60.4245(d) Submit a copy of each performance test within 60 days after the test has been completed.

New York State Department of Environmental Conservation

Permit ID: 9-0636-00006/00017

Facility DEC ID: 9063600006



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 1/30/2016.

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



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

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

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

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

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

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

Condition 66: Contaminant List
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable State Requirement:ECL 19-0301

Item 66.1:
Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).

CAS No: 000074-82-8
Name: METHANE



CAS No: 000630-08-0
Name: CARBON MONOXIDE

CAS No: 007446-09-5
Name: SULFUR DIOXIDE

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

CAS No: 0NY100-00-0
Name: TOTAL HAP

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

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

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

**Condition 67: Malfunctions and start-up/shutdown activities
Effective between the dates of 10/07/2015 and 10/06/2020**

Applicable State Requirement:6 NYCRR 201-1.4

Item 67.1:

(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 68: Visible Emissions Limited
Effective between the dates of 10/07/2015 and 10/06/2020

Applicable State Requirement:6 NYCRR 211.2

Item 68.1:

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

