New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 8-9908-00162/00043
Renewal Number: 2
12/05/2016

Facility Identification Data
Name: HIGH ACRES LANDFILL & RECYCLING CENTER
Address: 425 PERINTON PKWY
FAIRPORT, NY 14450

Owner/Firm
Name: WASTE MANAGEMENT OF NEW YORK LLC
Address: 1001 FANNIN STE 4000
HOUSTON, TX 77002, USA
Owner Classification: Corporation/Partnership

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Permit Description

Introduction

The Title V operating air permit is intended to be a document containing only enforceable terms and conditions as well as any additional information, such as the identification of emission units, emission points, emission sources and processes, that makes the terms meaningful. 40 CFR Part 70.7(a)(5) requires that each Title V permit have an accompanying "...statement that sets forth the legal and factual basis for the draft permit conditions". The purpose for this permit review report is to satisfy the above requirement by providing pertinent details regarding the permit/application data and permit conditions in a more easily understandable format. This report will also include background narrative and explanations of regulatory decisions made by the reviewer. It should be emphasized that this permit review report, while based on information contained in the permit, is a separate document and is not itself an enforceable term and condition of the permit.

Summary Description of Proposed Project
This application is for the renewal and expansion of the Air Title V permitted facility. The renewal includes a previous modification to add recordkeeping and performance testing requirements in the event that an existing Caterpillar engine needs to be sent offsite and a replacement engine may be subject to 40 CFR 60 Subpart JJJJ. A proposed landfill expansion of 44,486,100 tons of waste is proposed. Gas produced by this expansion will be combusted in currently permitted emission sources.

Attainment Status
HIGH ACRES LANDFILL & RECYCLING CENTER is located in the town of PERINTON in the county of MONROE.
The attainment status for this location is provided below. (Areas classified as attainment are those that meet all ambient air quality standards for a designated criteria air pollutant.)

Criteria Pollutant	Attainment Status
Particulate Matter (PM)	ATTAINMENT
Particulate Matter< 10µ in diameter (PM10)	ATTAINMENT
Sulfur Dioxide (SO2)	ATTAINMENT
Ozone*	TRANSPORT REGION (NON-ATTAINMENT)
Oxides of Nitrogen (NOx)**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT

* Ozone is regulated in terms of the emissions of volatile organic compounds (VOC) and/or oxides of nitrogen (NOx) which are ozone precursors.
** NOx has a separate ambient air quality standard in addition to being an ozone precursor.

Facility Description:
The High Acres Landfill & Recycling Center (the facility) provides integrated solid waste management services. The facility is a municipal solid waste landfill (MSW) operated and maintained under 6NYCRR Part 360. The primary activity at the High Acres Landfill is the disposal of municipal solid waste and other non-hazardous wastes. The deposited waste undergoes aerobic and anaerobic deomposition to produce landfill gas (LFG). LFG consists mainly of methane, carbon dioxide, and trace amounts of organic compounds (NMOC) and sulfur. Decomposition gases generated in the landfill are collected and piped to the control equipment at the facility. The gases are collected and combusted in the four (4) CAT3516 internal combustion engines, one 136.3 MMBtu/hr enclosed flare, four (4) CAT3520 internal combustion engines, and one 181.7 MMBtu/hr enclosed flare and one proposed enclosed flare. The internal combustion engines are used to generate electricity. In accordance with the requirements of 40 CFR Part 60.752.(b)(2), WMNY submitted the landfill gas management system design plan for the facility to the US EPA on June 6, 1997.

Permit Structure and Description of Operations
The Title V permit for HIGH ACRES LANDFILL & RECYCLING CENTER
is structured in terms of the following hierarchy: facility, emission unit, emission point, emission source and process. A facility is defined as all emission sources located at one or more adjacent or contiguous properties owned or operated by the same person or persons under common control. The facility is subdivided into one or more emission units (EU). Emission units are defined as any part or activity of a stationary facility that emits or has the potential to emit any federal or state regulated air pollutant. An emission unit is represented as a grouping of processes (defined as any activity involving one or more emission sources (ES) that emits or has the potential to emit any federal or state regulated air pollutant). An emission source is defined as any apparatus, contrivance or machine capable of causing emissions of

any air contaminant to the outdoor atmosphere, including any appurtenant exhaust system or air cleaning device. [NOTE: Indirect sources of air contamination as defined in 6 NYCRR Part 203 (i.e. parking lots) are excluded from this definition]. The applicant is required to identify the principal piece of equipment (i.e., emission source) that directly results in or controls the emission of federal or state regulated air pollutants from an activity (i.e., process). Emission sources are categorized by the following types:
combustion - devices which burn fuel to generate heat, steam or power
incinerator - devices which burn waste material for disposal
control - emission control devices
process - any device or contrivance which may emit air contaminants that is not included in the above categories.

HIGH ACRES LANDFILL & RECYCLING CENTER is defined by the following emission unit(s):

Emission unit EU0001 - Existing municipal solid waste landfill with gas collection system and corresponding control/treatment devices.

Emission unit EU0001 is associated with the following emission points (EP):
EP001, EP002, EP003, EP004, EP007, EP008, EP009, EP010, EP011, EP012
Process: 001 is located at Building POWERPLANT - Collected landfill gas will be routed to the landfill gas-to-energy plant. The engine generator sets (consisting of four (4) Caterpillar 3516 internal combustion engines) will combust the collected landfill gas to generate electricity for sale. The combustion of landfill gas results in the emission of criteria pollutants.

The landfill gas-to-energy plant also generates emissions from the "crankcase breather vent." Each engine has a crankcase for engine oil. The purpose of the crankcase breather vent is to remove water vapor from the crankcase in order to prevent water from collecting in the oil pan. The water vapor may contain an oil mist. The breather vent in each engine removes the vapors generated within the crankcase and ducts them to a single common emission point called the crankcase breather vent. The mist can be reported as PM. Other insignificant activities include emissions from oil tanks, a condensate tank, and a gas chromatograph vent. Calculations for all of these activities are provided in the application. The emissions have been included in the facility emission summary.

Process: 006 is located at Building LANDFILL - Landfill gas collection system (LGCS) is assumed to be 85% efficient. The remaining 15% is uncollected emissions (fugitive emissions).

Process: 007 is located at Building POWERPLANT - Landfill gas is combusted in several devices at the High Acres Landfill. Collected landfill gas will be routed to either the existing landfill gas-to-energy plant, the new gas-to-energy plant, or it will be collected and conveyed to an existing 136.3 MMBtu/hr (4500-cfm) enclosed flare (designated as FLAR2) and/or a new 181.7 MMBtu/hr enclosed flare (designated as FLAR3). This process is for landfill gas being conveyed to the two flares. The combustion of landfill gas results in the emission of criteria pollutants. The maximum gas allowed to be combusted through the two flares is a total of 318 MMBtu/hr.

Process: 008 is located at Building POWERPLANT - Collected landfill gas will be routed to either the engine plant or to the existing flare or the new flare. This process is for gas routed through the new engine plant containing the CAT 3520 internal combustion engines. The engine generator sets will combust the collected landfill gas to generate electricity for sale. The combustion of landfill gas results in the emission of criteria pollutants.

The landfill gas-to-energy plant also generates emissions from the "crankcase breather vent." Each engine

has a crankcase for engine oil. The purpose of the crankcase breather vent is to remove water vapor from the crankcase in order to prevent water from collecting in the oil pan. The water vapor may contain an oil mist. The breather vent in each engine removes the vapors generated within the crankcase and ducts them to a single common emission point called the crankcase breather vent. The mist can be reported as PM. Other insignificant activities include emissions from oil tanks, a condensate tank, and a gas chromatograph vent. Calculations for all of these activities are provided in the application. The emissions have been included in the facility emission summary.

Title V/Major Source Status

HIGH ACRES LANDFILL & RECYCLING CENTER is subject to Title V requirements. This determination is based on the following information:

The facility is an existing permitted TV facility as a major source of oxides of nitrogen and carbon monoxide. The facility is subject to NSPS Subpart WWW since NMOC emissions are greater than 50 million megagrams per year and the landfill has a design capacity greater than 2.5 million megagrams. The facility is also subject to the MACT (Maximum Achievable Control Technology) Standards (40CFR63 Subpart AAAA). The facility is also currently subject to RACT (Reasonable Available Control Technology) requirements as a major source of NOx. The facility is not a major source of HAPs (Hazardous Air Pollutant). The facility is subject to the Standards of Performance for Stationary Spark Ignition (SI) Internal Combustion Engines (ICE) (40CFR60 Subpart JJJJ) and to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (40CFR63 Subpart ZZZZ).

The facility also had to assess their green house gas emissions (GHG) in this permit renewal. The facility exceeds the major source and project significant thresholds for PSD (Prevention of Significant Deterioration) and TV GHG Tailoring Rule of 100,000 tons of CO2 equivalents per year (CO2eq) and 75,000 tons of CO2eq/yr, respectively.

Currently, there are two landfill areas at the facility: the Closed High Acres Landfill and the Active Landfill. The Active Landfill opened in December 1994 and includes the Western Expansion and Parkway Expansion Phases I and II. The footprint of the Active Landfill is approximately 149 acres with a design capacity of 26,969,858 cubic yards. The Active Landfill will reach capacity in approximately 2018 followed by capping and closure. The Existing Landfill is defined as the Closed High Acres Landfill, the Western Expansion, Parkway Expansion Phase I and Parkway Expansion Phase II.

Landfill gas (LFG) at the existing facility is currently collected in an active system and combusted to generate electricity. Currently the facility has 4 Caterpillar 3516 engines and 4 Caterpillar 3520 engines. The facility also operates one 136.3 MBtu/hr (approximately 4500 cfm) enclosed flare and one 181.7 MBtu/hr (approximately 6000 cfm) enclosed flare used to combust the excess gas and as backup to the energy plant.

Based on information given by the facility, an 85% collection efficiency was used to

determine the amount of gas collected and the resulting fugitive emissions. Based on these calculations, the current peak year of LFG generation for the landfill will be 2021, with a total of 10,757 cfm generated from the Existing Landfill areas. At an 85% collection efficiency, approximately 9,144 cfm of LFG will be collected and combusted.

Currently the facility has capacity to combust 14,024 cfm through their combustion devices. Based on the 85% collection efficiency (10,335 cfm gas combusted) and the assumption that the gas will be directed to the engine plant first (1360 cfm through the 4-3516 engines and 2164 cfm through the 4-3520 engines) and the remaining gas combusted by the flares (the 4500 cfm and 6000 cfm enclosed flares), the existing potential emissions are: 35.3 tpy VOC; 12.1 tpy HAPs; 157.3 tpy NOx; 494 tpy CO; 95 tpy SO2; 15.8 tpy PM and 541,040 tpy Greenhouse gases.

The last engine plant modification was not applicable to NSR/PSD (existing major with project potentials less than 100 tpy NOx and 250 tpy CO). The current permit does not contain a cap for NOx and CO. Subsequent projects over the significant thresholds for NSR contaminants would be subject to NSR (6NYCRR part 231).

For permitting purposes, since Waste Management owns and operates both the landfill and energy plant, they are considered to be under common control.

This permit Renewal also includes a project to expand the landfill. The capacity of the Landfill expansion is approximately 34,012,070 cubic meters and will allow the facility to accept waste through approximately 2052, assuming the maximum waste acceptance rate of 1,400,000 tons per year through closure. The peak volume of gas expected to be generated is approximately 10,320 cfm of LFG in 2052 (approximately 8772 cfm of LFG collected). Based on the calculated project emission potential, the Landfill Expansion project is subject to review under 6NYCRR Part 231 under the Prevention of Significant Deterioration (PSD) and Non-Attainment New Source Review (NANSR) programs for non-methane organic compounds (NMOC), carbon monoxide (CO), oxides of nitrogen (NOx), sulfur dioxide (SO2) and greenhouse gases (GHG).

The PTE's for the Expansion project are estimated at 59.3 tpy NMOC, 69.2 tpy NOx, 230.5 tpy CO, and 56.5 tpy SO2 and greater than 75,000 tpy CO2. Since the facility has a major increase with these contaminants a BACT/LAER analysis as well as Ambient Air Quality modeling had to be submitted. The facility performed a BACT analysis for NMOC, NOx, CO, GHG and SO2. BACT was determined to be NSPS Gas Collection and Flaring through an Enclosed Flare. The Department approved the analysis as the other options were determined to be economically infeasible. LAER for NOx was also analyzed with the same result as BACT. The facility purchased ERCs (Emission
The facility submitted a modeling report by GHD in July 2016. The report and accompanying modeling files evaluated the impacts of the proposed landfill expansion.

The modeling adequately demonstrated that the new emission sources associated with the proposed expansion would not cause impacts in excess of the Significant Impact Levels for CO, NOx or SO2. This means that the proposed expansion does not have the potential to cause exceedances of PSD increments or National Ambient Air Quality Standards (NAAQS).

Based on the modeling results, the Department is limiting the facility's emissions to the combination of the existing landfill and the proposed landfill expansion. The combined gas curves results in the maximum amount of gas generated and collected as 11,418 cfm of gas collected. The gas calculations were based on 100% putrescibles being collected from year 2020-2031 and 80% putrescibles being collected from 2032-2052. This is a conservative estimate as approximately 44% of the waste being collected at the landfill currently is non-putrescible waste. Based on the excess gas being flared, the facility's PTE would be the following based on the max gas collected: 171.7 tpy NOx and 521.9 tpy CO. The facility will need to stay under these limits. Any future modifications may be subject to modeling.

During the process of permitting this expansion, the Department was informed that EPA had proposed 40 CFR Part 60 Subpart XXX and Subpart Cf. Those requirements will be incorporated once the rule is promulgated if High Acres is deemed applicable.

Program Applicability
The following chart summarizes the applicability of HIGH ACRES LANDFILL & RECYCLING CENTER with regards to the principal air pollution
regulatory programs:

Regulatory Program	Applicability
PSD	YES
NSR (non-attainment)	YES
NESHAP (40 CFR Part 61)	YES
NESHAP (MACT - 40 CFR Part 63)	YES
NSPS	YES

TITLE IV	NO
TITLE V	YES
TITLE VI	NO
RACT	YES
SIP	YES

NOTES:
PSD Prevention of Significant Deterioration (40 CFR 52, 6 NYCRR 231-7, 231-8) - requirements which pertain to major stationary sources located in areas which are in attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

NSR New Source Review (6 NYCRR 231-5, 231-6) - requirements which pertain to major stationary sources located in areas which are in non-attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

NESHAP National Emission Standards for Hazardous Air Pollutants (40 CFR 61, 6 NYCRR 200.10) - contaminant and source specific emission standards established prior to the Clean Air Act Amendments of 1990 (CAAA) which were developed for 9 air contaminants (inorganic arsenic, radon, benzene, vinyl chloride, asbestos, mercury, beryllium, radionuclides, and volatile HAP's).

MACT Maximum Achievable Control Technology (40 CFR 63, 6 NYCRR 200.10) - contaminant and source specific emission standards established by the 1990 CAAA. Under Section 112 of the CAAA, the US EPA is required to develop and promulgate emissions standards for new and existing sources. The standards are to be based on the best demonstrated control technology and practices in the regulated industry, otherwise known as MACT. The corresponding regulations apply to specific source types and contaminants.

NSPS New Source Performance Standards (40 CFR 60, 6 NYCRR 200.10) - standards of performance for specific stationary source categories developed by the US EPA under Section 111 of the CAAA. The standards apply only to those stationary sources which have been constructed or modified after the regulations have been proposed by publication in the Federal Register and only to the specific contaminant(s) listed in the regulation.

Title IV Acid Rain Control Program (40 CFR 72 thru 78, 6 NYCRR 201-6) - regulations which mandate the implementation of the acid rain control program for large stationary combustion facilities.

Title VI Stratospheric Ozone Protection (40 CFR 82, Subpart A thru G, 6 NYCRR 200.10) - federal requirements that apply to sources which use a minimum quantity of CFC's (chlorofluorocarbons), HCFC's (hydrofluorocarbons) or other ozone depleting substances or regulated substitute substances in equipment such as air conditioners, refrigeration equipment or motor vehicle air conditioners or appliances.

RACT Reasonably Available Control Technology (6 NYCRR Parts 212.10, 226, 227-2, 228, 229, 230, 232, 233, 234, 235, 236) - the lowest emission limit that a specific source is capable of meeting by application of control technology that is reasonably available, considering technological and economic feasibility. RACT is a control strategy used to limit emissions of VOC's and NOx for the purpose of attaining the air quality standard for ozone. The term as it is used in the above table refers to those state air pollution control regulations which specifically regulate VOC and NOx emissions.

SIP State Implementation Plan (40 CFR 52, Subpart HH, 6 NYCRR 200.10) - as per the CAAA, all states are empowered and required to devise the specific combination of controls that, when implemented, will bring about attainment of ambient air quality standards established by the federal government and the individual state. This specific combination of measures is referred to as the SIP. The term here refers to those state regulations that are approved to be included in the SIP and thus are considered federally enforceable.

Compliance Status
Facility is in compliance with all requirements.

SIC Codes
SIC or Standard Industrial Classification code is an industrial code developed by the federal Office of Management and Budget for use, among other things, in the classification of establishments by the type of activity in which they are engaged. Each operating establishment is assigned an industry code on the basis of its primary activity, which is determined by its principal product or group of products produced or distributed, or services rendered. Larger facilities typically have more than one SIC code.

SIC Code	Description
4953	REFUSE SYSTEMS
5093	SCRAP AND WASTE MATERIALS

SCC Codes
SCC or Source Classification Code is a code developed and used" by the USEPA to categorize processes which result in air emissions for the purpose of assessing emission factor information.Each SCC represents a unique process or function within a source category logically associated with a point of air pollution emissions. Any operation that causes air pollution can be represented by one or more SCC's.

SCC Code	Description
4-04-001-63	BULK TERMINALS/PLANTS BULK TERMINALS BULK TERMINALS:INTERNAL FLOAT W/PRIMARY SEAL:GAS RVP 7:STANDING LOSS
5-01-004-02	SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - LANDFILL DUMP FUGITIVE EMISSIONS
5-01-004-10	SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - LANDFILL DUMP WASTE GAS DESTRUCTION: WASTE GAS FLARES
5-01-004-21	SOLID WASTE DISPOSAL - GOVERNMENT SOLID WASTE DISPOSAL: GOVERNMENT - LANDFILL DUMP WASTE GAS RECOVERY: INTERNAL COMBUSTION DEVICE

Facility Emissions Summary
In the following table, the CAS No. or Chemical Abstract Service code is an identifier assigned to every chemical compound. [NOTE: Certain CAS No.'s contain a 'NY' designation within them. These are not true CAS No.'s but rather an identification which has been developed by the department to identify groups of contaminants which ordinary CAS No.'s do not do. As an example, volatile organic compounds or

VOC's are identified collectively by the NY CAS No. 0NY998-00-0.] The PTE refers to the Potential to Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant , including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount or material combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in federally enforceable permit conditions. The PTE for each contaminant that is displayed represents the facility-wide PTE in tons per year (tpy) or pounds per year (lbs/yr). In some instances the PTE represents a federally enforceable emissions cap or limitation for that contaminant. The term 'HAP' refers to any of the hazardous air pollutants listed in section 112(b) of the Clean Air Act Amendments of 1990. Total emissions of all hazardous air pollutants are listed under the special NY CAS No. 0NY100-00-0. In addition, each individual hazardous air pollutant is also listed under its own specific CAS No. and is identified in the list below by the (HAP) designation.

Cas No.	Contaminant	PTE lbs/yr	PTE tons/yr	Actual lbs/yr	Actual tons/yr
000079-34-5	1,1,2,2-TETRACHLOROETHANE				
000107-06-2	1,2-DICHLOROETHANE				
000108-10-1	2-PENTANONE, 4-METHYL				
000071-43-2	BENZENE				
000106-46-7	BENZENE, 1,4-DICHLORO-				
0NY750-00-0	CARBON DIOXIDE EQUIVALENTS				
000075-15-0	CARBON DISULFIDE				
000630-08-0	CARBON MONOXIDE				
000056-23-5	CARBON TETRACHLORIDE				
000463-58-1	CARBONYL SULFIDE				
000108-90-7	CHLOROBENZENE				
000067-66-3	CHLOROFORM				
000075-09-2	DICHLOROMETHANE				
000071-55-6	ETHANE, 1,1,1-TRICHLORO				
000075-34-3	ETHANE, 1,1-DICHLORO-				
000075-00-3	ETHANE, CHLORO				
000075-35-4	ETHENE,1,1-DICHLORO				
000100-41-4	ETHYLBENZENE				
000110-54-3	HEXANE				
007647-01-0	HYDROGEN CHLORIDE				
007439-97-6	MERCURY				
000074-82-8	METHANE				
000074-87-3	METHYL CHLORIDE				
0NY998-20-0	NMOC - LANDFILL USE				

	ONLY
0NY210-00-0	OXIDES OF NITROGEN
000127-18-4	PERCHLOROETHYLENE
0NY075-02-5	PM 2.5
0NY075-00-5	PM-10
000078-87-5	PROPANE, 1,2-DICHLORO
000107-13-1	PROPENENITRILE
007446-09-5	SULFUR DIOXIDE
000108-88-3	TOLUENE
0NY100-00-0	TOTAL HAP
000079-01-6	TRICHLOROETHYLENE
000075-01-4	VINYL CHLORIDE
0NY998-00-0	VOC
001330-20-7	XYLENE, M, O & P MIXT.

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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 Part 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 Part 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 Part 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 Part 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 Part 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 Part 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 Part 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 2 01-6.7 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.

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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.

Regulatory Analysis

Location	Regulation	Condition	Short Description

Facility/EU/EP/Process/ES

FACILITY	ECL 19-0301	120	Powers and Duties of the Department with respect to air pollution control
FACILITY	40CFR 60-A.11	51	General provisions - compliance with standards and maintenance requirements
FACILITY	40CFR 60-A.12	52	General provisions - Circumvention
FACILITY	40CFR 60-A.14	53	General provisions - Modification
FACILITY	40CFR 60-A.15	54	General provisions - Reconstruction
FACILITY	40CFR 60-A.4	35	General provisions - Address
FACILITY	40CFR 60-A.7(a)	36	Notification and Recordkeeping
FACILITY	40CFR 60-A.7(b)	37	Notification and Recordkeeping
FACILITY	40CFR 60-A.7(c)	38	Notification and Recordkeeping
FACILITY	40CFR 60-A.7(d)	39	Notification and Recordkeeping
FACILITY	40CFR 60-A.7(e)	40	Notification and Recordkeeping
FACILITY	40CFR 60-A.7(f)	41	Notification and Recordkeeping
FACILITY	40CFR 60-A.7(g)	42	Notification and Recordkeeping
FACILITY	40CFR 60-A.8(a)	43	Performance Tests
FACILITY	40CFR 60-A.8(b)	44, 45	Performance Tests
FACILITY	40CFR 60-A.8(c)	46	Performance Tests
FACILITY	40CFR 60-A.8(d)	47	Performance Tests
FACILITY	40CFR 60-A.8(e)	48	Performance Tests
FACILITY	40CFR 60-A.8(f)	49	Performance Tests
FACILITY	40CFR 60-A.9	50	General provisions - Availability of information
FACILITY	40CFR 60-JJJJ	55	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
E-U0001/-/008	40CFR 60-JJJJ.4230(a)(4	118	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines - Applicability
E-U0001	40CFR 60-JJJJ.4243(a)(1	92	NSPS for Stationary Spark Ignition Internal Combustion Engines - Compliance Requirements
E-U0001	40CFR 60-JJJJ.4243(b)(2	93	SI ICE - Maintenance Plan and testing
E-U0001	40CFR 60-JJJJ.4245(a)	94	Notification, reporting and recordkeeping requirements

FACILITY	40CFR 60-JJJJ.4246	56	Applicability of Subpart A provisions
FACILITY	40CFR 60-WWW.752(b)(2)	57	Standards for air emissions from MSW landfills
E-U0001/-/007/FLAR2	40CFR 60-WWW.752(b)(2)(	107, 108	NMOC Reduction
E-U0001/-/007/FLAR3	40CFR 60-WWW.752(b)(2)(	110, 111	NMOC Reduction
E-U0001/-/001	40CFR 60-WWW.752(b)(2)(	102	Treatment Systems Processing Landfill Gas for Subsequent Sale or Use.
E-U0001/-/008	40CFR 60-WWW.752(b)(2)(	119	Treatment Systems Processing Landfill Gas for Subsequent Sale or Use.
FACILITY	40CFR 60-WWW.753(a)	58	Operational standards for collection and control systems
FACILITY	40CFR 60-WWW.753(b)	59	Op Standards for collection/ control systems-Pressure
FACILITY	40CFR 60-WWW.753(c)	60, 61	Operational Standards for Collection and Control Systems
FACILITY	40CFR 60-WWW.753(d)	62	Operational Standards for Collection and Control Systems - Surface Methane
FACILITY	40CFR 60-WWW.753(e)	63	Operational Standards for Collection and Control Systems - Collected Gases to Control System
FACILITY	40CFR 60-WWW.753(f)	64	Operational Standards for Collection and Control Systems - Control Systems
FACILITY	40CFR 60-WWW.753(g)	65	Operational Standards for Collection and Control Systems - Corrective Action
FACILITY	40CFR 60-WWW.754(d)	66	Performance Test
FACILITY	40CFR 60-WWW.755(a)	67	Compliance Provisions - collection system
FACILITY	40CFR 60-WWW.755(b)	68	Compliance Provisions - wells
FACILITY	40CFR 60-WWW.755(c)	69	Compliance Provisions - surface methane
FACILITY	40CFR 60-WWW.755(d)	70	Compliance Provisions - instrumentation specifications
FACILITY	40CFR 60-WWW.755(e)	71	Compliance Provisions - Start-up, shutdown, or malfunction
FACILITY	40CFR 60-WWW.756(a)	72	Monitoring of Operations
FACILITY	40CFR 60-WWW.756(b)	73	Monitoring of Operations - Enclosed Combustor
FACILITY	40CFR 60-WWW.756(f)	74	Monitoring of Operations - Surface

FACILITY	40CFR 60-WWW.757(d)	75	Methane Reporting Requirements - Closure Report
FACILITY	40CFR 60-WWW.757(e)	76	Reporting Requirements - Control Equipment Removal
FACILITY	40CFR 60-WWW.757(g)	77	Reporting requirements - Collection and control system
FACILITY	40CFR 60-WWW.758(a)	78	Recordkeeping requirements - waste
FACILITY	40CFR 60-WWW.758(b)	79	Recordkeeping requirements - control equipment
FACILITY	40CFR 60-WWW.758(c)	80	Recordkeeping requirements - operating parameters
E-U0001/-/007/FLAR2	40CFR 60-WWW.758(c)	109	Recordkeeping requirements - operating parameters
E-U0001/-/007/FLAR3	40CFR 60-WWW.758(c)	112	Recordkeeping requirements - operating parameters
FACILITY	40CFR 60-WWW.758(d)	81	Recordkeeping requirements - collectors
FACILITY	40CFR 60-WWW.758(e)	82	Recordkeeping requirements - exceedances of operational standards
FACILITY	40CFR 60-WWW.759(a)	83	Specifications for active collection systems
FACILITY	40CFR 60-WWW.759(c)	84	Specifications for active collection systems
FACILITY	40CFR 61-M.154	85	Standard for active waste disposal sites
FACILITY	40CFR 63-AAAA.1955(b)	86	Municipal Solid Waste Landfill NESHAP - General requirements
FACILITY	40CFR 63-AAAA.1980(a)	87	Recordkeeping and Reports
E-U0001	40CFR 63-ZZZZ.6625(h)	95	Reciprocating Internal Combustion Engine (RICE) NESHAP - idling time at startup
E-U0001	40CFR 63-ZZZZ.6655(e)	96	Reciprocating Internal Combustion Engine (RICE) NESHAP - maintenance plan records that must be kept
FACILITY	40CFR 63-ZZZZ.6665	88	Reciprocating Internal Combustion Engine (RICE) NESHAP - General provisions
FACILITY	40CFR 68	19	Chemical accident prevention provisions
FACILITY	40CFR 82-F	20	Protection of

			Stratospheric Ozone - recycling and emissions reduction
FACILITY	6NYCRR 200.6	1	Acceptable ambient air quality.
FACILITY	6NYCRR 200.7	10	Maintenance of equipment.
FACILITY	6NYCRR 201-1.4	121	Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.7	11	Recycling and Salvage
FACILITY	6NYCRR 201-1.8	12	Prohibition of reintroduction of collected contaminants to the air
FACILITY	6NYCRR 201-3.2(a)	13	Exempt Activities - Proof of eligibility
FACILITY	6NYCRR 201-3.2(b)	21	Exempt Activities - maintenance of control equipment
FACILITY	6NYCRR 201-3.3(a)	14	Trivial Activities - proof of eligibility
FACILITY	6NYCRR 201-3.3(b)	22	Trivial Activities - maintenance of control equipment
FACILITY	6NYCRR 201-6	23, 24, 89, 90	Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.4(a)(4)	15	General Conditions - Requirement to Provide Information
FACILITY	6NYCRR 201-6.4(a)(7)	2	General Conditions - Fees
FACILITY	6NYCRR 201-6.4(a)(8)	16	General Conditions - Right to Inspect
FACILITY	6NYCRR 201-6.4(c)	3	Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.4(c)(2)	4	Records of Monitoring, Sampling and Measurement
FACILITY	6NYCRR 201-6.4(c)(3)(ii	5	Reporting Requirements - Deviations and Noncompliance
FACILITY	6NYCRR 201-6.4(d)(4)	25	Compliance Schedules - Progress Reports
FACILITY	6NYCRR 201-6.4(e)	6	Compliance Certification
FACILITY	6NYCRR 201-6.4(f)	26	Operational Flexibility
FACILITY	6NYCRR 201-6.4(f)(6)	17	Off Permit Changes
FACILITY	6NYCRR 202-1.1	18	Required emissions tests.
FACILITY	6NYCRR 202-1.2	27	Notification.
FACILITY	6NYCRR 202-1.3(a)	28	Acceptable procedures - reference methods
FACILITY	6NYCRR 202-2.1	7	Emission Statements - Applicability
FACILITY	6NYCRR 202-2.3	29	Emission Statement - Required contents of an emission statement.

FACILITY	6NYCRR 202-2.5	8	Emission Statements - record keeping requirements.
FACILITY	6NYCRR 211.1	30	General Prohibitions - air pollution prohibited
FACILITY	6NYCRR 211.2	122	General Prohibitions - visible emissions limited.
E-U0001	6NYCRR 212.4(a)	91	General Process Emission Sources - emissions from new sources and/or modifications
E-U0001/-/007	6NYCRR 212.6(a)	103	General Process Emission Sources - opacity of emissions limited
FACILITY	6NYCRR 215.2	9	Open Fires - Prohibitions
E-U0001/-/001	6NYCRR 227-1.3(a)	97	Smoke Emission Limitations.
E-U0001/-/008	6NYCRR 227-1.3(a)	113	Smoke Emission Limitations.
E-U0001/-/001	6NYCRR 227-2.4(f)(2)	98	Emission limit for engines running on landfill gas.
E-U0001/-/008	6NYCRR 227-2.4(f)(2)	114	Emission limit for engines running on landfill gas.
E-U0001/-/001	6NYCRR 227-2.6(c)	99	Stack Test Requirements.
E-U0001/-/008	6NYCRR 227-2.6(c)	115	Stack Test Requirements.
FACILITY	6NYCRR 231-6	31	Mods to Existing Major Facilities in Nonattainment and Attainment Areas of the State in the OTR
E-U0001/-/007	6NYCRR 231-6	104	Mods to Existing Major Facilities in Nonattainment and Attainment Areas of the State in the OTR
FACILITY	6NYCRR 231-6.3	32	Permit application content
FACILITY	6NYCRR 231-8	33, 34	Mods to Existing Major Facilities in Attainment Areas (PSD)
E-U0001/-/001	6NYCRR 231-8	100, 101	Mods to Existing Major Facilities in Attainment Areas (PSD)
E-U0001/-/007	6NYCRR 231-8	105, 106	Mods to Existing Major Facilities in Attainment Areas (PSD)
E-U0001/-/008	6NYCRR 231-8	116, 117	Mods to Existing Major Facilities in Attainment Areas (PSD)

Applicability Discussion:

Mandatory Requirements: The following facility-wide regulations are included in all Title V permits:

ECL 19-0301
This section of the Environmental Conservation Law establishes the powers and duties assigned to the Department with regard to administering the air pollution control program for New York State.

6 NYCRR 200.6
Acceptable ambient air quality - prohibits contravention of ambient air quality standards without mitigating measures

6 NYCRR 200.7
Anyone owning or operating an air contamination source which is equipped with an emission control device must operate the control consistent with ordinary and necessary practices, standards and procedures, as per manufacturer's specifications and keep it in a satisfactory state of maintenance and repair so that it operates effectively

6 NYCRR 201-1.4
This regulation specifies the actions and recordkeeping and reporting requirements for any violation of an applicable state enforceable emission standard that results from a necessary scheduled equipment maintenance, start-up, shutdown, malfunction or upset in the event that these are unavoidable.

6 NYCRR 201-1.7
Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8
Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 201-3.2 (a)
An owner and/or operator of an exempt emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains exempt emission sources or units, 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.

6 NYCRR 201-3.3 (a)
The owner and/or operator of a trivial emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains trivial emission sources or units subject to this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

6 NYCRR Subpart 201-6
This regulation applies to those terms and conditions which are subject to Title V permitting. It establishes the applicability criteria for Title V permits, the information to be included in all Title V permit applications as well as the permit content and terms of permit issuance. This rule also specifies the compliance, monitoring, recordkeeping, reporting, fee, and procedural requirements that need to be met to obtain a Title V permit, modify the permit and demonstrate conformity with applicable requirements as listed in the Title V permit. For permitting purposes, this rule specifies the need to identify and describe all emission units, processes and products in the permit application as well as providing the Department the authority to

include this and any other information that it deems necessary to determine the compliance status of the facility.

6 NYCRR 201-6.4 (a) (4)
This mandatory requirement applies to all Title V facilities. It requires the permittee to provide information that the Department may request in writing, within a reasonable time, in order to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. The request may include copies of records required to be kept by the permit.

6 NYCRR 201-6.4 (a) (7)
This is a mandatory condition that requires the owner or operator of a facility subject to Title V requirements to pay all applicable fees associated with the emissions from their facility.

6 NYCRR 201-6.4 (a) (8)
This is a mandatory condition for all facilities subject to Title V requirements. It allows the Department to inspect the facility to determine compliance with this permit, including copying records, sampling and monitoring, as necessary.

6 NYCRR 201-6.4 (c)
This requirement specifies, in general terms, what information must be contained in any required compliance monitoring records and reports. This includes the date, time and place of any sampling, measurements and analyses; who performed the analyses; analytical techniques and methods used as well as any required QA/QC procedures; results of the analyses; the operating conditions at the time of sampling or measurement and the identification of any permit deviations. All such reports must also be certified by the designated responsible official of the facility.

6 NYCRR 201-6.4 (c) (2)
This requirement specifies that all compliance monitoring and recordkeeping is to be conducted according to the terms and conditions of the permit and follow all QA requirements found in applicable regulations. It also requires monitoring records and supporting information to be retained for at least 5 years from the time of sampling, measurement, report or application. Support information is defined as including all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

6 NYCRR 201-6.4 (c) (3) (ii)
This regulation specifies any reporting requirements incorporated into the permit must include provisions regarding the notification and reporting of permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken.

6 NYCRR 201-6.4 (d) (5)
This condition applies to every Title V facility subject to a compliance schedule. It requires that reports, detailing the status of progress on achieving compliance with emission standards, be submitted semiannually.

6 NYCRR 201-6.4 (e)
Sets forth the general requirements for compliance certification content; specifies an annual submittal frequency; and identifies the EPA and appropriate regional office address where the reports are to be sent.

6 NYCRR 201-6.4 (f) (6)
This condition allows changes to be made at the facility, without modifying the permit, provided the changes do not cause an emission limit contained in this permit to be exceeded. The owner or operator of

the facility must notify the Department of the change. It is applicable to all Title V permits which may be subject to an off permit change.

6 NYCRR 202-1.1
This regulation allows the department the discretion to require an emission test for the purpose of determining compliance. Furthermore, the cost of the test, including the preparation of the report are to be borne by the owner/operator of the source.

6 NYCRR 202-2.1
Requires that emission statements shall be submitted on or before April 15th each year for emissions of the previous calENDar year.

6 NYCRR 202-2.5
This rule specifies that each facility required to submit an emission statement must retain a copy of the statement and supporting documentation for at least 5 years and must make the information available to department representatives.

6 NYCRR 211.2
This regulation limits opacity from sources to less than or equal to 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

6 NYCRR 215.2
Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

40 CFR Part 68
This Part lists the regulated substances and there applicability thresholds and sets the requirements for stationary sources concerning the prevention of accidental releases of these substances.

40 CFR Part 82, Subpart F
Subpart F requires the reduction of emissions of class I and class II refrigerants to the lowest achievable level during the service, maintenance, repair, and disposal of appliances in accordance with section 608 of the Clean Air Act AmENDments of 1990. This subpart applies to any person servicing, maintaining, or repairing appliances except for motor vehicle air conditioners. It also applies to persons disposing of appliances, including motor vehicle air conditioners, refrigerant reclaimers, appliance owners, and manufacturers of appliances and recycling and recovery equipment. Those individuals, operations, or activities affected by this rule, may be required to comply with specified disposal, recycling, or recovery practices, leak repair practices, recordkeeping and/or technician certification requirements.

Facility Specific Requirements
In addition to Title V, HIGH ACRES LANDFILL & RECYCLING CENTER has been determined to be subject to the following regulations:
40 CFR 60.11
This regulation specifies the type of opacity monitoring requirements in relation to compliance with the standards and maintenance requirements.

40 CFR 60.12
This regulation prohibits an owner or operator from concealing emissions in violation of applicable

standards by any means.

40 CFR 60.14
This regulation defines the term modification and what is and is not considered to be a modification, for the purpose of rule applicability.

40 CFR 60.15
This regulation defines the term reconstruction and what is and is not considered to be a reconstruction project, for the purpose of rule applicability.

40 CFR 60.4
This condition lists the USEPA Region 2 address for the submittal of all communications to the "Administrator". In addition, all such communications must be copied to NYSDEC Bureau of Quality Assurance (BQA).

40 CFR 60.4230 (a) (4) (i)

Owners and operators of stationary spark igintied internal combustion engines (SI ICE), that commence construction after June 12, 2006, where the stationary SI ICE are manufactured on or after July 1, 2007, for engines with a maximum engine power greater than or equal to 500 HP (except lean burn engines with a maximum engine power greater than or equal to 500 HP and less than 1,350 HP) are subject to the requirements of 40 CFR 60 Subpart JJJJ.

40 CFR 60.4243 (a) (1)
This regulaiton requires the owners and/or operators of internal combustion engines subject to Subpart JJJJ to keep records of maintenance on the engine and any demonstrated compliance with the standards in Subpart JJJJ.

40 CFR 60.4243 (b) (2) (ii)

This regulation requires the owner or operator of a stationary SI internal combustion engine greater than 500 HP to 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.

40 CFR 60.4245 (a)
This regulation sets forth the notification, reporting and recordkeeping requirements for 40 CFR 60 Subpart JJJJ, for owners and operators of stationary spark ignited internal combustion engines.

40 CFR 60.4246
This regulation specifies that the following provisions of 40 CFR 60 Subpart A apply to this facility: 60.1 through 60.12, 60.14 through 60.17 and 60.19.

40 CFR 60.7 (a)
This regulation requires any owner or operator subject to a New Source Performance Standard (NSPS) to furnish the Administrator with notification of the dates of: construction or reconstruction, initial startup, any physical or operational changes, commencement of performance testing for continuous monitors and anticipated date for opacity observations as required.

40 CFR 60.7 (b)
This regulation requires the owner or operator to maintain records of the occurrence and duration of any startup, shutdown, or malfunction of the source or control equipment or continuous monitoring system.

40 CFR 60.7 (c)
This requirement details the information to be submitted in excess emissions and monitoring systems performance reports which must be submitted at least semi-annually for sources with compliance monitoring systems.

40 CFR 60.7 (d)
This condition specifies the required information and format for a summary report form and details when either a summary form and/or excess emissions reports are required.

40 CFR 60.7 (e)
This condition specifies how sources that remain in continuous compliance, and are subject to monthly or quarterly reporting, can reduce reporting frequency to semiannually.

40 CFR 60.7 (f)
This condition specifies requirements for maintenance of files of all measurements, including continuous monitoring system (CMS), monitoring device, and performance testing measurements; all CMS performance evaluations; all CMS or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices for at least two years.

40 CFR 60.7 (g)
This condition allows source owners to use reporting required for state or local agencies to satisfy the paragraph (a) reporting requirements of this section of this rule.

40 CFR 60.752 (b) (2)
If the non-methane organic carbon emission rate is greater than 50 megagrams/year (55 tons/year), the

owner or operator must submit a design plan for a collection and control system.

40 CFR 60.752 (b) (2) (iii) ('B')
This condition requires the owner or operator of the landfill to reduce the emissions of NMOC by 98% after the control device or reduce the outlet concentration of NMOC from the control device to less than 20 parts per million.

40 CFR 60.752 (b) (2) (iii) ('C')
This condition requires the facility to monitor their treatment system according to their accepted monitoring plan and the manufacturer's specifications. The facility must report on this semi-annually.

40 CFR 60.753 (a)
This condition sets forth the requirements of where and when a collection and control system is required at an MSW landfill. The collection system is required for areas, cells or groups of cells where solid waste has been in place for 5 years (if active) or 2 years (if inactive or closed). The collection system must be operated as follows: under negative pressure; with a temperature of less than 55 degreed Celsius; and with an oxygen content less than 5% or a nitrogen content less than 20%

40 CFR 60.753 (b)
This condition requires that the collection system be operated under negative pressure.

40 CFR 60.753 (c)
This condition requires that each interior wellhead in the collection system be operated such that the landfill gas temperature is less than 55 o C and with a nitrogen content less than 20% or an oxygen content less than 5%.

40 CFR 60.753 (d)
This condition requires that the collection system be operated such that the concentration of methane on the surface of the landfill is less than 500 parts per million (by volume).

40 CFR 60.753 (e)
This condition requires that all collected gases be sent to a control system when the collection system is operating.

40 CFR 60.753 (f)
This condition requires that the control or treatment system be operated at all times when the collected gas is sent to the system.

40 CFR 60.753 (g)
This condition requires that any problems at the landfill, found as a result of the monitoring of operation of the collection or control system be repaired or fixed within 15 days.

40 CFR 60.754 (d)
This condition requires that Method 18 or 25C be used to determine the destruction efficiency of the control system. An efficiency of 98% must be achieved, or the outlet NMOC concentration must be less than 20 ppm.

40 CFR 60.755 (a)
This condition sets forth the complaince provisions for the collection system at an MSW landfill.

40 CFR 60.755 (b)
This condition sets forth the compliance provisions for the collection system. The system must be installed within 60 days after the date on which solid waste has been in place for a period of 5 years for an active cell or section or 2 years for a closed cell or section.

40 CFR 60.755 (c)
This condition sets forth the procedures to be used to determine compliance with the surface methane operational standard. The perimeter and surface area of the landfill are monitored for methane concentrations. If the concentration is 500 parts per million above background, corrective action must be taken.

40 CFR 60.755 (d)
This condition sets forth the instrumentation specifications and procedures for determining the surface methane concentration.

40 CFR 60.755 (e)
This condition requires that the provisions of this subpart apply at all times, except during periods of start-up, shutdown, or malfunction, provided that the duration of start-up, shutdown, or malfunction shall not exceed 5 days for collection systems and shall not exceed 1 hour for treatment or control devices

40 CFR 60.756 (a)
This condition sets forth the monitoring requirements for an active gas collection system. Landfill gas temperature, pressure and oxygen or nitrogen content must be monitored.

40 CFR 60.756 (b)
This condition sets forth the monitoring requirements for an enclosed combustor used to control landfill gas. Flow rate and temperature must be monitored.

40 CFR 60.756 (f)
This condition requires that monitoring of surface methane concentrations be done according to the requirements of 40 CFR 60.755(d).

40 CFR 60.757 (d)

This condition requires that each owner or operator of a controlled landfill shall submit a closure report to the Administrator 30 days after the landfill stops accepting waste.

40 CFR 60.757 (e)
This condition requires that each owner or operator of a controlled landfill submit an equipment removal report to the EPA Administrator 30 days prior to removal or cessation of operation of the control equipment

40 CFR 60.757 (g)
This condition sets forth the required information to be included in the initial performance test report (i.e., stack test) for the control system at an MSW landfill.

40 CFR 60.758 (a)
This condition requires that 5 years if up-to-date records be kept of the current amount of waste in place at the landfill.

40 CFR 60.758 (b)
This condition specifies the records to be kept regarding the control equipment at the landfill.

40 CFR 60.758 (c)
This condition requires each owner or operator of a controlled landfill to keep for 5 years up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored in 40 CFR Part 60.756 as well as up-to-date, readily accessible records for periods of operation during which the parameter boundaries established during the most recent performance test are exceeded.

40 CFR 60.758 (d)
This condition requires each owner or operator to keep, for the life of the collection system, an up-to-date, readily accessible plot map showing each existing and planned collector (eg. well) in the system and providing a unique identification location label for each collector.

40 CFR 60.758 (e)
This condition requires each owner or operator to 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

40 CFR 60.759 (a)
This condition provides the specifications for the construction and installation of the active collection system.

40 CFR 60.759 (c)

This condition provides the specifications for the construction and installation of the active collection system

40 CFR 60.8 (a)
This regulation contains the requirements for the completion date and reporting of Performance Testing (stack testing), at the facility. Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup, the owner or operator of the facility must conduct performance test(s) and furnish a written report of the test results.

40 CFR 60.8 (b)
This regulation contains the requirements for Performance test methods and procedures, to be used by the owner or operator , of the affected facility.

40 CFR 60.8 (c)
This condition contains the requirements for operating conditions, of the emission source, during performance testing.

40 CFR 60.8 (d)
This regulation contains the requirements for advance notification of Performance (stack) testing.

40 CFR 60.8 (e)
This regulation requires the facility to provide appropriate sampling ports, safe platforms and utilities as necessary for Performance (stack) testing.

40 CFR 60.8 (f)
This regulation requires that Performance (stack) tests consist of three runs unless otherwise specified. The rule also designates the allowable averaging methods for the analysis of the results.

40 CFR 60.9
This rule citation allows the public access to any information submitted to the EPA Administrator (or state contact), in conjunction with a project subject to this section of the regulation.

40 CFR 61.154
This condition requires that there be no visible emissions from any active disposal area of the landfill where asbestos containing waste has been placed or that this type of area be covered to prevent disturbance of the asbestos containing waste.

40 CFR 63.1955 (b)
This condition requires the owner or operator of the landfill to prepare and implement a Startup, Shutdown, Malfunction (SSM) plan for the control device used at the landfill to control the landfill gas. The plan must describe the 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.

40 CFR 63.1980 (a)
This regulation requires the owner or operator of the landfill to submit a report, on a semiannual basis of the following:

- any time the monitoring of wellhead parameters showed exceedances of temperature, pressure or nitrogen and oxygen content
- description and duration of any gas diversion from the control device
- description and duration when the control device was not operating for more than 1 hour
- all periods when the collection system was not operating for 5 days or more
- location of each exceedance of the 500 ppm standard for surface methane
- date of installation and location of any additional wells for the collection system.

40 CFR 63.6625 (h)
This regulation requires the owner or operator of a reciprocating internal combustion engine, operating at a major source of hazardous air pollutants, to minimize the idling time of the engine at startup. Startup time is limited to 30 minutes or less.

40 CFR 63.6655 (e)
This regulation sets forth the record keeping requirements for RICE subject to facility specific maintenance plans.

40 CFR 63.6665
This regulation specifies which provisions of the General provisions (Subpart A of 40 CFR 63) apply to the owner or operators of stationary internal combustion engines at facilities with emissions of hazardous air pollutants.

40 CFR Part 60, Subpart JJJJ
The engines that are applicable to 40 CFR 60 Subpart JJJJ will comply with the terms of the rule.

6 NYCRR 201-3.2 (b)
The owner and/or operator of any emission source or unit that is eligible to be exempt on the basis of the use of appropriate emission control devices shall operate and maintain such devices in a manner consistent with good engineering practices. Failure to do so constitutes a violation of this Part.

6 NYCRR 201-3.3 (b)
The owner and/or operator of any emission source or unit that is eligible to be considered as a trivial source on the basis of the use of appropriate emission control devices shall operate and maintain such

devices in a manner consistent with good engineering practices. Failure to do so constitutes a violation of this Part.

6 NYCRR 201-6.4 (f)

This section describes the operational flexibility protocol proposed by the facility. The protocol will allow the facility owner or operator to make certain changes at the facility without the need for a permit modification. Changes made pursuant to the protocol must be approved by the Department, and will be rolled into the permit during the next renewal or modification.

6 NYCRR 202-1.2

This regulation specifies that the department is to be notified at least 30 days in advance of any required stack test. The notification is to include a list of the procedures to be used that are acceptable to the department. Finally, free access to observe the stack test is to be provided to the department's representative.

6 NYCRR 202-1.3 (a)

This regulation requires that any emission testing, sampling and analytical determination used to determine compliance must use methods acceptable to the department. Acceptable test methods may include but are not limited to the reference methods found in 40 CFR Part 60 appendix A and Part 61, appendix B. In addition, unless otherwise specified, all emission test reports must be submitted within 60 days after completion of testing.

6 NYCRR 202-2.3

This rule specifies the information to be included in a required emission statement.

6 NYCRR 211.1

This regulation requires that 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.

6 NYCRR 212.4 (a)

This rule requires compliance with the degree of control specified in Tables 2, 3 and 4 for new (after July 1, 1973) process emission sources.

6 NYCRR 212.6 (a)

This rule specifies an opacity limitation of less than 20% for any six consecutive minute period for all process emission sources.

6 NYCRR 227-1.3 (a)
This regulation prohibits any person from operating a stationary combustion installation which emits smoke equal to or greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.

6 NYCRR 227-2.4 (f) (2)
This regulation sets the limit for emissions of oxides of nitrogen from internal combustion engines running on landfill gas at 2.0 grams per brake horsepower-hour. The owner/operaator of the engine must test the emissions one during the term of the permit.

6 NYCRR 227-2.6 (c)

6 NYCRR 231-6.3
This section outlines what an applicant needs to provide the Department in the permit application.

6 NYCRR Subpart 231-6

This Subpart applies to modifications to existing major facilities in non-attainment areas and attainment areas of the State within the OTR.

6 NYCRR Subpart 231-8
This subpart applies to modifications to existing major facilities in attainment areas (prevention of significant deterioration (PSD)).

Compliance Certification
Summary of monitoring activities at HIGH ACRES LANDFILL & RECYCLING CENTER:

Location Facility/EU/EP/Process/ES	Cond No.	Type of Monitoring
FACILITY	38	record keeping/maintenance procedures
FACILITY	55	record keeping/maintenance procedures
E-U0001	92	record keeping/maintenance procedures
E-U0001	93	record keeping/maintenance procedures

E-U0001	94	record keeping/maintenance procedures
E-U0001/-/007/FLAR2	107	intermittent emission testing
E-U0001/-/007/FLAR2	108	intermittent emission testing
E-U0001/-/007/FLAR3	110	intermittent emission testing
E-U0001/-/007/FLAR3	111	intermittent emission testing
E-U0001/-/001	102	record keeping/maintenance procedures
E-U0001/-/008	119	record keeping/maintenance procedures
FACILITY	59	work practice involving specific operations
FACILITY	60	work practice involving specific operations
FACILITY	61	work practice involving specific operations
FACILITY	62	ambient air monitoring
FACILITY	63	record keeping/maintenance procedures
FACILITY	64	record keeping/maintenance procedures
FACILITY	65	record keeping/maintenance procedures
FACILITY	72	record keeping/maintenance procedures
FACILITY	73	record keeping/maintenance procedures
FACILITY	74	ambient air monitoring
FACILITY	78	record keeping/maintenance procedures
FACILITY	79	record keeping/maintenance procedures
FACILITY	80	record keeping/maintenance procedures
E-U0001/-/007/FLAR2	109	monitoring of process or control device parameters as surrogate
E-U0001/-/007/FLAR3	112	monitoring of process or control device parameters as surrogate
FACILITY	81	record keeping/maintenance procedures
FACILITY	82	record keeping/maintenance procedures
FACILITY	86	record keeping/maintenance procedures
FACILITY	87	record keeping/maintenance procedures
E-U0001	95	monitoring of process or control device parameters as surrogate
E-U0001	96	record keeping/maintenance procedures
FACILITY	24	record keeping/maintenance procedures
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
FACILITY	26	record keeping/maintenance procedures
FACILITY	7	record keeping/maintenance procedures
E-U0001/-/007	103	monitoring of process or control device parameters as surrogate
E-U0001/-/001	97	monitoring of process or control device parameters as surrogate
E-U0001/-/008	113	monitoring of process or control device parameters as surrogate
E-U0001/-/001	98	monitoring of process or control device parameters as surrogate
E-U0001/-/008	114	monitoring of process or control device parameters as surrogate
E-U0001/-/001	99	intermittent emission testing
E-U0001/-/008	115	intermittent emission testing
FACILITY	31	record keeping/maintenance procedures
E-U0001/-/007	104	intermittent emission testing
FACILITY	32	record keeping/maintenance procedures
FACILITY	33	record keeping/maintenance procedures
FACILITY	34	record keeping/maintenance procedures
E-U0001/-/001	100	intermittent emission testing
E-U0001/-/001	101	intermittent emission testing
E-U0001/-/007	105	intermittent emission testing
E-U0001/-/007	106	intermittent emission testing
E-U0001/-/008	116	intermittent emission testing
E-U0001/-/008	117	intermittent emission testing

Basis for Monitoring
6NYCRR Part 227-2.4 (f)(2): The instantaneous monitoring with the handheld portable monitor of NOx in

the conditions for both Process 001 and 008 of the 3516 and 3520 internal combustion engines are for the purpose of monitoring compliance with the NOx RACT limit of 2.0 grams per brakehorsepower-hour for these engines. The limits given of 235 ppm for the 3516 engines and 84 ppm for the 3520 engines are based on the most recent stack test where the facility showed compliance with the 2.0 g/bHp-hr NOx limit for both types of engines. The stack test determined operating conditions of 1.1 g/bHp-hr of NOx at 157.2 ppm NOx for the 3516 engine; and operating conditions for the 3520 engine showed 0.4 g/bHp-hr at 55.9 ppm. The higher limits established in these monitoring conditions are such that the facility could increase their emission rate by approximately 50% while still remaining in compliance with the 2.0 g/bHp-hr NOx RACT limit. This condition is an indicator that the engine is not operating as it normally would. Fluctuations may occur but this condition will determine if the engines might need to be retested.

6NYCRR Part 212.6(a); The facility will perform a visual observation of each flare on a daily basis during business days (excluding holidays and weekends). If opacity of 20% or more is observed, the facility shall take corrective action immediately or perform a Method 9 within 2 business days. Records shall be kept and submitted semiannually.

6NYCRR Part 227-1.3(a); The facility will perform a visual observation of engine exhaust and crankcase vent on a daily basis during business days (excluding holidays and weekends). If opacity of 20% or more is observed, the facility shall take corrective action immediately or perform a Method 9 within 2 business days. Records shall be kept and submitted semiannually.

6NYCRR Part 227-2.6(c): This condition requires the facility to perform a stack test on one CAT 3516 and one CAT 3520 engine to establish compliance with the NOx RACT requirement of 2.0 g/bHp-hr of NOx 180 days prior to renewal of the permit.

40CFR60.752(b)(2)(iii)('C'): This condition requires the facility to monitor their treatment system according to their accepted monitoring plan and the manufacturer's specifications. The facility must report on this semi-annually.

40CFR60.756(f): This requires the facility to perform a surface scan for methane on the landfill quarterly and it's closed section annually. The surface scan should be performed on the closed section in the second or third quarter. If the section is covered with snow or ice they should return to the scan as soon as it is possible.

6NYCRR Part 231-6: The proposed landfill expansion project was subject to New Source Review. In order to remain in compliance with the modeled increase of emissions from the landfill expansion, the facility was given a plantwide limit for NOx. The facility will calculate emissions from all sources generating NOx and maintain a 12-month rolling total. The facility must remain below 171.7 tpy NOx calculated on a rolling 12-month total.

Additionally, as part of the proposed landfill expansion, a BACT/LAER analysis was completed. BACT/LAER was determined to be gas collection and control through enclosed flares. This permit also has a condition to require stack testing of the flares for NOx if determined necessary by the Department. The facility must meet the emission rates used in the calculations in the permit application (0.06 lb/MMBTU of NOx).

6NYCRR Part 231-8: The proposed landfill expansion project was subject to New Source Review/PSD. In order to remain in compliance with the modeled increase of emissions from the landfill expansion, the facility was given a plantwide limit for CO. The facility will calculate emissions from all sources generating NOx and maintain a 12-month rolling total. The facility must remain below 521.9 tpy CO calculated on a rolling 12-month total.

Additionally, as part of the proposed landfill expansion, a BACT analysis was completed. BACT for CO and Greenhouse Gas was determined to be gas collection and control through enclosed flares. This permit also has a condition to require stack testing of the flares for CO if determined necessary by the Department. The facility must meet the emission rates used in the calculations in the permit application (0.20 lb/MMBTU of CO).

As part of the plantwide limit on the facility, this permit also contains conditions for stack testing of CO on both the 3516 and 3520 Caterpillar IC engines as needed. Engines meeting the requirements for testing under Subpart JJJJ may apply with this condition's requirement. The facility must meet the emission limits that were part of the calculations in the permit application of 5.59 lb/hr CO for the 3516 engines and 12.31 lb/hr CO for the 3520 engines. The facility must also do instantaneous monitoring of the engine exhausts using a handheld meter, on a monthly basis in order to determine if the engine is operating properly.

6NYCRR Part 201-6: This condition requires the permit to be modified to add 40 CFR 60 Subpart XXX requirements to the permit if the rule becomes effective prior to going to EPA for review. Otherwise, the permit will be amended after it has been issued.

6NYCRR Part 231-6.3: The facility, as part of the New Source Review of the project, had to purchase NOx offsets in a ratio of 1.15 to 1 in order to do the proposed landfill expansion. This condition shows that the facility had to purchase 69.2 tpy NOx and the facilities where the offsets (ERCs) were purchased from. Even though the proposed project shows an increase in NOx emissions, in actuality, the amount of NOx currently permitted at the facility is not increasing because no additional control equipment is being proposed.