



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 8-3244-00040/00002

Renewal Number: 1

10/30/2012

Facility Identification Data

Name: ONTARIO COUNTY LFG TO ENERGY FACILITY

Address: 3555 POST FARM RD|ONTARIO COUNTY LANDFILL
STANLEY, NY 14561

Owner/Firm

Name: SENECA ENERGY II LLC

Address: 2999 JUDGE RD

OAKFIELD, NY 14125, USA

Owner Classification: Corporation/Partnership

Permit Contacts

Division of Environmental Permits:

Name: ROGER T MCDONOUGH

Address: 6274 EAST AVON LIMA RD

AVON, NY 14414-9519

Phone:5852262466

Division of Air Resources:

Name: MICHELE A KHARROUBI

Address: NYSDEC

6274 EAST AVON-LIMA ROAD

AVON, NY 14414

Phone:

Air Permitting Facility Owner Contact:

Name: PETER H ZELIFF

Address: INNOVATIVE ENERGY SYSTEMS LLC

2999 JUDGE RD

OAKFIELD, NY 14125-9771

Phone:5859488580

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 is an application for renewal of Air Title V Facility. This application also includes a TV permit modification that includes emissions associated with the proposed expansion of the landfill gas to energy operations. The proposed expansion will include three (3) Caterpillar G3520C landfill gas engine generator sets and ancillary equipment for electricity generation as a landfill gas beneficial use project.

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Attainment Status

ONTARIO COUNTY LFG TO ENERGY FACILITY is located in the town of SENECA in the county of ONTARIO.

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 Ontario LF LFG to Energy Facility is located adjacent to the Ontario County Landfill (a separately owned and operated facility with their own TV operating permit). This is a landfill gas to energy (lfgte) facility which combusts scrubbed landfill gas to produce electrical power for sale on the open market. The facility currently consists of eight (8) Caterpillar G3516 sixteen-cylinder internal combustion engines fueled by scrubbed landfill gas, driving eight (8) generators that produce approximately 6.6 mw of electricity (Emission Unit 1-OLFGE).

The facility is proposing to modify the operations through the installation and operation of three (3) Caterpillar G3520C landfill gas fueled internal combustion engine generator sets and ancillary equipment to support electricity generation operations (Emission Unit 2-OLFGE).

Emissions from the engines include NOx SO2, CO, PM, VOC and some HAPs.

Permit Structure and Description of Operations

The Title V permit for ONTARIO COUNTY LFG TO ENERGY FACILITY 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)



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(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.

ONTARIO COUNTY LFG TO ENERGY FACILITY is defined by the following emission unit(s):

Emission unit 2OLFGE - This emission unit will consist of three (3) Caterpillar G3520C landfill gas fueled internal combustion engines connected to individual electricity generators and ancillary equipment (exempt and trivial sources) that supports the electricity generation operations.

Emission unit 2OLFGE is associated with the following emission points (EP):
 ENG09, ENG10, ENG11

Process: 002 is located at Building ENGBLDG2 - Process 001 will consist of three (3) Caterpillar G3520C landfill gas engine generator sets. Each internal combustion engine consumes approximately 531 standard cubic feet per minute (scfm) of landfill gas at 50% methane.

Emission unit 1OLFGE - The emission unit includes the exhausts from the eight (8) engines at the Ontario Landfill LFG to Energy Facility. The engines are numbered starting with the western-most engine and proceeding to the east in ascending order.

Emission unit 1OLFGE is associated with the following emission points (EP):
 ENG01, ENG02, ENG03, ENG04, ENG05, ENG06, ENG07, ENG08

Process: 001 is located at Building ENGBLDG - Process 001 consists of the eight (8) Caterpillar engines in the facility. Each internal combustion engine consumes approximately 300 cubic feet per minute.

Title V/Major Source Status

ONTARIO COUNTY LFG TO ENERGY FACILITY is subject to Title V requirements. This determination is based on the following information:

This facility is major for emissions of carbon monoxide and oxides of nitrogen.

Program Applicability

The following chart summarizes the applicability of ONTARIO COUNTY LFG TO ENERGY FACILITY with regards to the principal air pollution regulatory programs:

Regulatory Program	Applicability
PSD	NO
NSR (non-attainment)	NO
NESHAP (40 CFR Part 61)	NO



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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) - 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 Part 231) - 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) - 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) - 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) - 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) - regulations which mandate the implementation of the acid rain control program for large stationary combustion facilities.

Title VI Stratospheric Ozone Protection (40 CFR 82, Subparts A thru G) - 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



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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) - 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

4911

ELECTRIC SERVICES

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

2-01-008-02

INTERNAL COMBUSTION ENGINES - ELECTRIC GENERATION
ELECTRIC UTILITY INTERNAL COMBUSTION ENGINE - LANDFILL GAS
Reciprocating

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

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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 Range represents an emission range for a contaminant. Any PTE quantity that is displayed represents a facility-wide emission cap or limitation for that contaminant. If no PTE quantity is displayed, the PTE Range is provided to indicate the approximate magnitude of facility-wide emissions for the specified contaminant in terms of tons per year (tpy). 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 Name	PTE	
		lbs/yr	Range
000079-34-5	1,1,2,2-TETRACHLOROETHANE		> 0 but < 10 tpy
000107-06-2	1,2-DICHLOROETHANE		> 0 but < 10 tpy
000108-10-1	2-PENTANONE, 4-METHYL		> 0 but < 10 tpy
000071-43-2	BENZENE		> 0 but < 10 tpy
000075-15-0	CARBON DISULFIDE		> 0 but < 10 tpy
000630-08-0	CARBON MONOXIDE	892800	
000056-23-5	CARBON TETRACHLORIDE		> 0 but < 10 tpy
000463-58-1	CARBONYL SULFIDE		> 0 but < 10 tpy
000108-90-7	CHLOROBENZENE		> 0 but < 10 tpy
000067-66-3	CHLOROFORM		> 0 but < 10 tpy
000075-09-2	DICHLOROMETHANE		> 0 but < 10 tpy
000071-55-6	ETHANE, 1,1,1-TRICHLORO		> 0 but < 10 tpy
000075-34-3	ETHANE, 1,1-DICHLORO-		> 0 but < 10 tpy
000075-00-3	ETHANE, CHLORO		> 0 but < 10 tpy
000075-35-4	ETHENE, 1,1-DICHLORO		> 0 but < 10 tpy
000100-41-4	ETHYLBENZENE		> 0 but < 10 tpy
0NY100-00-0	HAP		>= 2.5 tpy but < 10 tpy
000110-54-3	HEXANE		> 0 but < 10 tpy
007647-01-0	HYDROGEN CHLORIDE		> 0 but < 10 tpy
007439-97-6	MERCURY		> 0 but < 10 tpy
000078-93-3	METHYL ETHYL KETONE		> 0 but < 10 tpy
0NY998-20-0	NMOC - LANDFILL USE ONLY		>= 2.5 tpy but < 10 tpy
0NY210-00-0	OXIDES OF NITROGEN	315000	
0NY075-00-0	PARTICULATES		>= 10 tpy but < 25 tpy
000127-18-4	PERCHLOROETHYLENE		> 0 but < 10 tpy
0NY075-00-5	PM-10		>= 10 tpy but < 25 tpy
000078-87-5	PROPANE, 1,2-DICHLORO		> 0 but < 10 tpy
000107-13-1	PROPENENITRILE		> 0 but < 10 tpy
007446-09-5	SULFUR DIOXIDE		>= 40 tpy but < 50 tpy
000108-88-3	TOLUENE		> 0 but < 10 tpy
000079-01-6	TRICHLOROETHYLENE		> 0 but < 10 tpy
000075-01-4	VINYL CHLORIDE		> 0 but < 10 tpy
0NY998-00-0	VOC		>= 2.5 tpy but < 10 tpy
001330-20-7	XYLENE, M, O & P MIXT.		> 0 but < 10 tpy

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A: Emergency Defense - 6 NYCRR 201-1.5

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

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

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

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

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

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

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

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

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

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

Item C: Timely Application for the Renewal of Title V Permits -6 NYCRR Part 201-6.3(a)(4)

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

Item D: Certification by a Responsible Official - 6 NYCRR Part 201-6.3(d)(12)

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

Item E: Requirement to Comply With All Conditions - 6 NYCRR Part 201-6.5(a)(2)

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

Item F: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR Part 201-6.5(a)(3)

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or



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termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Item G: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.5(a)(5)

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

Item H: Property Rights - 6 NYCRR 201-6.5(a)(6)

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

Item I: Severability - 6 NYCRR Part 201-6.5(a)(9)

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

Item J: Permit Shield - 6 NYCRR Part 201-6.5(g)

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

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

Item K: Reopening for Cause - 6 NYCRR Part 201-6.5(i)

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

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable

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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.

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A: General Provisions for State Enforceable Permit Terms and Condition - 6

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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 Facility/EU/EP/Process/ES	Regulation	Condition	Short Description

FACILITY	ECL 19-0301	63	Powers and Duties of the Department with respect to air pollution control
FACILITY	40CFR 60-A.12	36	General provisions - Circumvention
FACILITY	40CFR 60-A.14	37	General provisions - Modification
FACILITY	40CFR 60-A.4	29	General provisions - Address
FACILITY	40CFR 60-A.7(b)	30	Notification and Recordkeeping
FACILITY	40CFR 60-A.7(c)	31	Notification and Recordkeeping
FACILITY	40CFR 60-A.7(d)	32	Notification and Recordkeeping
FACILITY	40CFR 60-A.7(f)	33	Notification and Recordkeeping
FACILITY	40CFR 60-A.7(g)	34	Notification and Recordkeeping
FACILITY	40CFR 60-A.9	35	General provisions - Availability of information
1-OLFGE	40CFR 60-JJJJ.4230 (a) (4)	43	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines - Applicability
2-OLFGE	40CFR 60-JJJJ.4230 (a) (4)	56	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines - Applicability
1-OLFGE	40CFR 60-JJJJ.4243 (a) (1)	44	NSPS for Stationary Spark Ignition Internal Combustion

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2-OLFGE	40CFR 60- JJJJ.4243 (a) (1)	57	Engines - Compliance Requirements NSPS for Stationary Spark Ignition Internal Combustion Engines - Compliance Requirements
1-OLFGE	40CFR 60-JJJJ.4245 (a)	45	Notification, reporting and recordkeeping requirements
2-OLFGE	40CFR 60-JJJJ.4245 (a)	58	Notification, reporting and recordkeeping requirements
FACILITY	40CFR 60-JJJJ.4246	38	Applicability of Subpart A provisions
FACILITY	40CFR 60- WWW.752 (b) (2) (39	Treatment Systems Processing Landfill Gas for Subsequent Sale or Use.
1-OLFGE	40CFR 63-ZZZZ.6590 (c)	55	Reciprocating Internal Combustion Engine (RICE) NESHAP - Stationary RICE subject to Regulations under 40 CFR Part 60
2-OLFGE	40CFR 63-ZZZZ.6590 (c)	59	Reciprocating Internal Combustion Engine (RICE) NESHAP - Stationary RICE subject to Regulations under 40 CFR Part 60
1-OLFGE	40CFR 63-ZZZZ.6603 (a)	46	Reciprocating Internal Combustion Engine (RICE) NESHAP - requirements for existing engines at area sources of HAP emissions
1-OLFGE	40CFR 63-ZZZZ.6625 (e)	47	Reciprocating Internal Combustion Engine (RICE) NESHAP - maintenance of engine and control device
1-OLFGE	40CFR 63-ZZZZ.6625 (h)	48	Reciprocating Internal Combustion Engine (RICE) NESHAP - idling time at startup
1-OLFGE	40CFR 63-ZZZZ.6625 (j)	49	Reciprocating Internal Combustion Engine (RICE) NESHAP - oil analysis program for spark ignition engines
1-OLFGE	40CFR 63-ZZZZ.6655 (a)	50	Reciprocating Internal Combustion Engine (RICE) NESHAP - records that must be kept



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1-OLFGE	40CFR 63-ZZZZ.6655 (e)	51	Reciprocating Internal Combustion Engine (RICE) NESHAP - maintenance plan records that must be kept
FACILITY	40CFR 63-ZZZZ.6665	40	Reciprocating Internal Combustion Engine (RICE) NESHAP - General provisions
FACILITY	40CFR 68	20	Chemical accident prevention provisions
FACILITY	40CFR 82-F	21	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	64	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 201-3.3 (a)	14	Trivial Activities - proof of eligibility
FACILITY	6NYCRR 201-6	22, 41, 42	Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.5 (a) (4)	15	General conditions
FACILITY	6NYCRR 201-6.5 (a) (7)	2	General conditions Fees
FACILITY	6NYCRR 201-6.5 (a) (8)	16	General conditions
FACILITY	6NYCRR 201-6.5 (c)	3	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.5 (c) (2)	4	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201- 6.5 (c) (3) (ii)	5	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.5 (d) (5)	17	Compliance schedules
FACILITY	6NYCRR 201-6.5 (e)	6	Compliance Certification
FACILITY	6NYCRR 201-6.5 (f)	23	Operational flexibility
FACILITY	6NYCRR 201-6.5 (f) (6)	18	Off Permit Changes
FACILITY	6NYCRR 201-7	24, 25, 26, 27	Federally Enforceable Emissions Caps
1-OLFGE/-/001	6NYCRR 201-7	52	Federally Enforceable Emissions Caps
2-OLFGE/-/002	6NYCRR 201-7	60	Federally Enforceable Emissions Caps



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FACILITY	6NYCRR 202-1.1	19	Required emissions tests.
FACILITY	6NYCRR 202-2.1	7	Emission Statements - Applicability
FACILITY	6NYCRR 202-2.5	8	Emission Statements - record keeping requirements.
FACILITY	6NYCRR 211.1	28	General Prohibitions - air pollution prohibited
FACILITY	6NYCRR 211.2	65	General Prohibitions - visible emissions limited.
FACILITY	6NYCRR 215.2	9	Open Fires - Prohibitions
1-OLFGE/-/001	6NYCRR 227-1.3 (a)	53	Smoke Emission Limitations.
2-OLFGE/-/002	6NYCRR 227-1.3 (a)	61	Smoke Emission Limitations.
1-OLFGE/-/001	6NYCRR 227-2.4 (f) (2)	66	Emission limit for engines running on landfill gas.
2-OLFGE/-/002	6NYCRR 227-2.4 (f) (2)	67	Emission limit for engines running on landfill gas.
1-OLFGE/-/001	6NYCRR 227-2.6 (c)	54	Stack Test Requirements.
2-OLFGE/-/002	6NYCRR 227-2.6 (c)	62	Stack Test Requirements.
FACILITY	6NYCRR 231-5	27	New Major Facilities and Mods to Existing Non-major Facilities in Nonattainment and Attainment Areas of the State in the OTR
FACILITY	6NYCRR 231-7	25, 26	New Major Facilities and Mod to Existing Non-major Facilities in Attainment Areas (PSD)
1-OLFGE/-/001	6NYCRR 231-7	52	New Major Facilities and Mod to Existing Non-major Facilities in Attainment Areas (PSD)
2-OLFGE/-/002	6NYCRR 231-7	60	New Major Facilities and Mod to Existing Non-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



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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 201-6.5 (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.



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6 NYCRR 201-6.5 (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 201-6.5 (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 201-6.5 (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 201-6.5 (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 201-6.5 (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 201-6.5 (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 201-6.5 (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 201-6.5 (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



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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, ONTARIO COUNTY LFG TO ENERGY FACILITY has been determined to be subject to the following regulations:

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 60.4

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).



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

Owners and operators of stationary spark ignited 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 regulation 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 60.4245 (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 (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 (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.



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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) (iii) ('C')

This condition states that the facility must either treat the landfill gas prior to subsequent sale or use or control the landfill gas through an appropriate device.

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 63.6590 (c)

This regulation states that an affected source that is a new or reconstructed stationary RICE located at an area source must meet the requirements of 40 CFR 63 Subpart ZZZZ by meeting the requirements of 40 CFR Part 60 Subpart JJJJ, for spark ignition engines.

40 CFR 63.6603 (a)

These conditions list the emission limits, operating limits, and work practices that existing engines located at an area source of HAP emissions must meet.

The engines must meet work practices, emission limits, and operating limits on carbon monoxide or formaldehyde for the specific type of engine listed in table 2d of subpart ZZZZ.

40 CFR 63.6625 (e)

This regulation requires the owners or operator of an existing stationary RICE with a site rating of less than 100 brake HP located at a major source of HAP emissions, an existing stationary emergency RICE, or an existing stationary RICE located at an area source of HAP emissions must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop their own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

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.



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Startup time is limited to 30 minutes or less.

40 CFR 63.6625 (j)

This condition allows spark ignition engines subject to work practices to extend the length of time between oil changes.

40 CFR 63.6655 (a)

This regulation sets forth the record keeping requirements for owners or operators of stationary internal combustion engines at facilities with emissions of hazardous air pollutants.

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.

6 NYCRR 201-6.5 (f)

This regulation defines in general terms under what circumstances changes would be allowed without a permit modification provided the permit contains sufficient operational flexibility provisions.

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 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)



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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/operator of the engine must test the emissions one during the term of the permit.

6 NYCRR 227-2.6 (c)

6 NYCRR Subpart 201-7

This regulation sets forth an emission cap that cannot be exceeded by the facility. In this permit that cap is 100 tons per year of oxides of nitrogen (NOx).

6 NYCRR Subpart 231-5

This Subpart applies to new major facilities and modifications to existing non-major facilities in non-attainment areas and attainment areas of the State within the Ozone Transport Region (OTR).

6 NYCRR Subpart 231-7

This Subpart applies to new major facilities and modifications to existing non-major facilities in attainment areas (prevention of significant deterioration (PSD)).

Compliance Certification

Summary of monitoring activities at ONTARIO COUNTY LFG TO ENERGY FACILITY:

Location Facility/EU/EP/Process/ES	Cond No.	Type of Monitoring

FACILITY	31	record keeping/maintenance procedures
1-OLFGE	44	record keeping/maintenance procedures
2-OLFGE	57	record keeping/maintenance procedures
1-OLFGE	45	record keeping/maintenance procedures
2-OLFGE	58	record keeping/maintenance procedures
FACILITY	39	record keeping/maintenance procedures
1-OLFGE	46	record keeping/maintenance procedures
1-OLFGE	47	record keeping/maintenance procedures
1-OLFGE	48	monitoring of process or control device parameters as surrogate



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1-OLFGE	49	record keeping/maintenance procedures
1-OLFGE	50	record keeping/maintenance procedures
1-OLFGE	51	record keeping/maintenance procedures
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
FACILITY	23	record keeping/maintenance procedures
FACILITY	25	work practice involving specific operations
FACILITY	26	intermittent emission testing
FACILITY	27	work practice involving specific operations
1-OLFGE/-/001	52	intermittent emission testing
2-OLFGE/-/002	60	intermittent emission testing
FACILITY	7	record keeping/maintenance procedures
1-OLFGE/-/001	53	monitoring of process or control device parameters as surrogate
2-OLFGE/-/002	61	monitoring of process or control device parameters as surrogate
1-OLFGE/-/001	66	monitoring of process or control device parameters as surrogate
2-OLFGE/-/002	67	monitoring of process or control device parameters as surrogate
1-OLFGE/-/001	54	intermittent emission testing
2-OLFGE/-/002	62	intermittent emission testing

Basis for Monitoring

Ontario County LF LFG to Energy Facility has accepted a cap of 157.5 tons per year of oxides of Nitrogen (NOx) on the eight Model G3516, three Model 3520 engines and the stationary combustion sources at this facility. This cap will allow the engines to not be subject to the New Source Review (NSR) regulations but they are subject to NOx RACT. The facility must calculate and record the 12-month rolling total NOx emissions from stationary combustion sources at Ontario County LF LFG to Energy Facility, the eight Model G3516 engines, and the three 3520 engines. Emissions from Ontario LF LFGTE facility will be determined by monitoring the amount of fuel used at the facility and applying emission factors approved by the Department. The facility must track the kilowatt-hour (kwh) output of each engine and use an emission factor developed from the most recent performance test to calculate the 12-month rolling total of NOx emissions from the engines.

6NYCRR Part 201-6.5(f): The facility will keep records of changes that meet the op-flex definition.

6NYCRR Part 202-1.1: The facility will track when they complete a stack test for CO and NOx.

6NYCRR Part 227-1.3(a): The facility will perform a visual observation of opacity on a daily basis to ensure that they remain below 20% opacity for all the engines at the facility.

6NYCRR Part 201-7.2: The facility will perform a stack test to show compliance with their limit for NOx of 157.5 tpy and for CO which is 446.4 tpy which will ensure that they remain under major source thresholds for NOx and CO and therefore cap out of 6NYCRR Part 231-5 and Part 231-7, respectively, and not be subject to New Source Review. Additionally, the facility will perform instantaneous CO monitoring for each engine exhaust on a monthly basis to ensure that they are operating within the limits established by the most recent approved performance test. Monthly the facility will test NOx coming from the exhaust of the engines using a portable NOx analyzer.

40CFR60.752(b)(2)(iii)('C'): The facility will treat their landfill gas prior to use in the engines. EPA defines treatment as compression, dewatering and filtering of particulate. The facility specifies in this condition the action that will be taken to make sure the treatment system is operating



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properly.

6NYCRR Part 227-2.4 (f)(2): The instantaneous monitoring with the handheld portable monitor of NO_x in the conditions for both Process 001 and 002 of the 3516 and 3520 internal combustion engines are for the purpose of monitoring compliance with the NO_x RACT limit of 2.0 grams per brakehorsepower-hour for these engines. 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 227-1.3(a): The facility will perform a visual observation of engine exhaust 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 NO_x RACT requirement of 2.0 g/bHp-hr of NO_x 180 days prior to renewal of the permit.

40 CFR 63 Subpart ZZZZ: The facility must operate their engines in accordance to the applicable sections in this subpart.