



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM**

TITLE V/STATE OPERATING PERMIT

Issue Date: November 13, 2024

Effective Date: November 13, 2024

Expiration Date: November 12, 2029

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to operate the air emission source(s) more fully described in this permit. This Facility is subject to all terms and conditions specified in this permit. Nothing in this permit relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable applicable requirements unless otherwise designated as "State-Only" or "non-applicable" requirements.

TITLE V Permit No: 41-00082

Federal Tax Id - Plant Code: 47-4511036-9

Owner Information

Name: NEXTERA RENEWABLE FUELS LLC
Mailing Address: 1605 N CEDAR CREST BLVD STE 509
ALLENTOWN, PA 18104-2355

Plant Information

Plant: NEXTERA RENEWABLE FUELS LLC/LYCO LANDFILL LFGTE PLT
Location: 41 Lycoming County 41909 Brady Township
SIC Code: 4931 Trans. & Utilities - Electric And Other Services Combined

Responsible Official

Name: ROSS GROFFMAN
Title: VP OF DEVELOPMENT
Phone: (561) 304 - 5783 Email: ross.groffman@nexteraenergy.com

Permit Contact Person

Name: EDWARD WENTLING
Title: ENVIRONMENTAL COORDINATOR
Phone: (215) 285 - 8220 Email: Edward.Wentling@nexteraenergy.com

[Signature] _____
MUHAMMAD Q. ZAMAN, ENVIRONMENTAL PROGRAM MANAGER, NORTHCENTRAL REGION



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Source ID	Source Name	Capacity/Throughput	Fuel/Material
P110	2233 BHP, CAT G3520C ENGINE 1		
P120	2233 BHP, CAT G3520C ENGINE 2		
P130	2233 BHP, CAT G3520C ENGINE 3		
P140	2233 BHP, CAT G3520C ENGINE 4		
FM01	LANDFILL GAS		
S110	ENGINE 1 STACK		
S120	ENGINE 2 STACK		
S130	ENGINE 3 STACK		
S140	ENGINE 4 STACK		

PERMIT MAPS

**SECTION B. General Title V Requirements****#001 [25 Pa. Code § 121.1]****Definitions**

Words and terms that are not otherwise defined in this permit shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 121.7]**Prohibition of Air Pollution**

No person may permit air pollution as that term is defined in the act.

#003 [25 Pa. Code § 127.512(c)(4)]**Property Rights**

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

#004 [25 Pa. Code § 127.446(a) and (c)]**Permit Expiration**

This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit. The terms and conditions of the expired permit shall automatically continue pending issuance of a new Title V permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.

#005 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446(e), 127.503 & 127.704(b)]**Permit Renewal**

(a) An application for the renewal of the Title V permit shall be submitted to the Department at least six (6) months, and not more than 18 months, before the expiration date of this permit. The renewal application is timely if a complete application is submitted to the Department's Regional Air Manager within the timeframe specified in this permit condition.

(b) The application for permit renewal shall include the current permit number, the appropriate permit renewal fee, a description of any permit revisions and off-permit changes that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. The fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" and submitted with the fee form to the respective regional office.

(c) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413. The application for renewal of the Title V permit shall also include submission of compliance review forms which have been used by the permittee to update information submitted in accordance with either 25 Pa. Code § 127.412(b) or § 127.412(j).

(d) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information during the permit renewal process. The permittee shall also promptly provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit.

#006 [25 Pa. Code §§ 127.450(a)(4) & 127.464(a)]**Transfer of Ownership or Operational Control**

(a) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership or operational control of the source shall be treated as an administrative amendment if:

- (1) The Department determines that no other change in the permit is necessary;
- (2) A written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee; and,
- (3) A compliance review form has been submitted to the Department and the permit transfer has been approved by

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the Department.

(b) In accordance with 25 Pa. Code § 127.464(a), this permit may not be transferred to another person except in cases of transfer-of-ownership which are documented and approved to the satisfaction of the Department.

#007 [25 Pa. Code § 127.513, 35 P.S. § 4008 and § 114 of the CAA]**Inspection and Entry**

(a) Upon presentation of credentials and other documents as may be required by law for inspection and entry purposes, the permittee shall allow the Department of Environmental Protection or authorized representatives of the Department to perform the following:

- (1) Enter at reasonable times upon the permittee's premises where a Title V source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;
- (2) Have access to and copy or remove, at reasonable times, records that are kept under the conditions of this permit;
- (3) Inspect at reasonable times, facilities, equipment including monitoring and air pollution control equipment, practices, or operations regulated or required under this permit;
- (4) Sample or monitor, at reasonable times, substances or parameters, for the purpose of assuring compliance with the permit or applicable requirements as authorized by the Clean Air Act, the Air Pollution Control Act, or the regulations promulgated under the Acts.

(b) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act.

(c) Nothing in this permit condition shall limit the ability of the EPA to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

#008 [25 Pa. Code §§ 127.25, 127.444, & 127.512(c)(1)]**Compliance Requirements**

(a) The permittee shall comply with the conditions of this permit. Noncompliance with this permit constitutes a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one (1) or more of the following:

- (1) Enforcement action
- (2) Permit termination, revocation and reissuance or modification
- (3) Denial of a permit renewal application

(b) A person may not cause or permit the operation of a source, which is subject to 25 Pa. Code Article III, unless the source(s) and air cleaning devices identified in the application for the plan approval and operating permit and the plan approval issued to the source are operated and maintained in accordance with specifications in the applications and the conditions in the plan approval and operating permit issued by the Department. A person may not cause or permit the operation of an air contamination source subject to 25 Pa. Code Chapter 127 in a manner inconsistent with good operating practices.

(c) For purposes of Sub-condition (b) of this permit condition, the specifications in applications for plan approvals and operating permits are the physical configurations and engineering design details which the Department determines are essential for the permittee's compliance with the applicable requirements in this Title V permit.

#009 [25 Pa. Code § 127.512(c)(2)]**Need to Halt or Reduce Activity Not a Defense**

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

**SECTION B. General Title V Requirements****#010 [25 Pa. Code §§ 127.411(d) & 127.512(c)(5)]****Duty to Provide Information**

(a) The permittee shall furnish to the Department, within a reasonable time, information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit.

(b) Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to keep by this permit, or for information claimed to be confidential, the permittee may furnish such records directly to the Administrator of EPA along with a claim of confidentiality.

#011 [25 Pa. Code §§ 127.463, 127.512(c)(3) & 127.542]**Reopening and Revising the Title V Permit for Cause**

(a) This Title V 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 a permit condition.

(b) This permit may be reopened, revised and reissued prior to expiration of the permit under one or more of the following circumstances:

(1) Additional applicable requirements under the Clean Air Act or the Air Pollution Control Act become applicable to a Title V facility with a remaining permit term of three (3) or more years prior to the expiration date of this permit. The Department will revise the permit as expeditiously as practicable but not later than 18 months after promulgation of the applicable standards or regulations. No such revision is required if the effective date of the requirement is later than the expiration date of this permit, unless the original permit or its terms and conditions has been extended.

(2) Additional requirements, including excess emissions requirements, become applicable to an affected source under the acid rain program. Upon approval by the Administrator of EPA, excess emissions offset plans for an affected source shall be incorporated into the permit.

(3) The Department or the EPA determines that this permit contains a material mistake or inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.

(4) The Department or the Administrator of EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

(c) Proceedings to revise this permit shall follow the same procedures which apply to initial permit issuance and shall affect only those parts of this permit for which cause to revise exists. The revision shall be made as expeditiously as practicable.

(d) Regardless of whether a revision is made in accordance with (b)(1) above, the permittee shall meet the applicable standards or regulations promulgated under the Clean Air Act within the time frame required by standards or regulations.

#012 [25 Pa. Code § 127.543]**Reopening a Title V Permit for Cause by EPA**

As required by the Clean Air Act and regulations adopted thereunder, this permit may be modified, reopened and reissued, revoked or terminated for cause by EPA in accordance with procedures specified in 25 Pa. Code § 127.543.

#013 [25 Pa. Code § 127.522(a)]**Operating Permit Application Review by the EPA**

The applicant may be required by the Department to provide a copy of the permit application, including the compliance plan, directly to the Administrator of the EPA. Copies of title V permit applications to EPA, pursuant to 25 PA Code §127.522(a), shall be submitted, if required, to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

**SECTION B. General Title V Requirements****#014 [25 Pa. Code § 127.541]****Significant Operating Permit Modifications**

When permit modifications during the term of this permit do not qualify as minor permit modifications or administrative amendments, the permittee shall submit an application for significant Title V permit modifications in accordance with 25 Pa. Code § 127.541. Notifications to EPA, pursuant to 25 PA Code §127.522(a), if required, shall be submitted, to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

#015 [25 Pa. Code §§ 121.1 & 127.462]**Minor Operating Permit Modifications**

The permittee may make minor operating permit modifications (as defined in 25 Pa. Code §121.1), on an expedited basis, in accordance with 25 Pa. Code §127.462 (relating to minor operating permit modifications). Notifications to EPA, pursuant to 25 PA Code §127.462(c), if required, shall be submitted, to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

#016 [25 Pa. Code § 127.450]**Administrative Operating Permit Amendments**

(a) The permittee may request administrative operating permit amendments, as defined in 25 Pa. Code §127.450(a). Copies of request for administrative permit amendment to EPA, pursuant to 25 PA Code §127.450(c)(1), if required, shall be submitted to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

(b) Upon final action by the Department granting a request for an administrative operating permit amendment covered under §127.450(a)(5), the permit shield provisions in 25 Pa. Code § 127.516 (relating to permit shield) shall apply to administrative permit amendments incorporated in this Title V Permit in accordance with §127.450(c), unless precluded by the Clean Air Act or the regulations thereunder.

#017 [25 Pa. Code § 127.512(b)]**Severability Clause**

The provisions of this permit are severable, and if any provision of this permit is determined by the Environmental Hearing Board or a court of competent jurisdiction, or US EPA to be invalid or unenforceable, such a determination will not affect the remaining provisions of this permit.

#018 [25 Pa. Code §§ 127.704, 127.705 & 127.707]**Fee Payment**

(a) The permittee shall pay fees to the Department in accordance with the applicable fee schedules in 25 Pa. Code Chapter 127, Subchapter I (relating to plan approval and operating permit fees). The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.

(b) Emission Fees. The permittee shall, on or before September 1st of each year, pay applicable annual Title V emission fees for emissions occurring in the previous calendar year as specified in 25 Pa. Code § 127.705. The permittee is not required to pay an emission fee for emissions of more than 4,000 tons of each regulated pollutant emitted from the facility.

(c) As used in this permit condition, the term "regulated pollutant" is defined as a VOC, each pollutant regulated under Sections 111 and 112 of the Clean Air Act and each pollutant for which a National Ambient Air Quality Standard has been promulgated, except that carbon monoxide is excluded.

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(d) Late Payment. Late payment of emission fees will subject the permittee to the penalties prescribed in 25 Pa. Code § 127.707 and may result in the suspension or termination of the Title V permit. The permittee shall pay a penalty of fifty percent (50%) of the fee amount, plus interest on the fee amount computed in accordance with 26 U.S.C.A. § 6621(a)(2) from the date the emission fee should have been paid in accordance with the time frame specified in 25 Pa. Code § 127.705(c).

(e) The permittee shall pay an annual operating permit maintenance fee according to the following fee schedule established in 25 Pa. Code § 127.704(d) on or before December 31 of each year for the next calendar year.

(1) Eight thousand dollars (\$8,000) for calendar years 2021—2025.

(2) Ten thousand dollars (\$10,000) for calendar years 2026—2030.

(3) Twelve thousand five hundred dollars (\$12,500) for the calendar years beginning with 2031.

#019 [25 Pa. Code §§ 127.14(b) & 127.449]**Authorization for De Minimis Emission Increases**

(a) This permit authorizes de minimis emission increases from a new or existing source in accordance with 25 Pa. Code §§ 127.14 and 127.449 without the need for a plan approval or prior issuance of a permit modification. The permittee shall provide the Department with seven (7) days prior written notice before commencing any de minimis emissions increase that would result from either: (1) a physical change of minor significance under § 127.14(c)(1); or (2) the construction, installation, modification or reactivation of an air contamination source. The written notice shall:

(1) Identify and describe the pollutants that will be emitted as a result of the de minimis emissions increase.

(2) Provide emission rates expressed in tons per year and in terms necessary to establish compliance consistent with any applicable requirement.

The Department may disapprove or condition de minimis emission increases at any time.

(b) Except as provided below in (c) and (d) of this permit condition, the permittee is authorized during the term of this permit to make de minimis emission increases (expressed in tons per year) up to the following amounts without the need for a plan approval or prior issuance of a permit modification:

(1) Four tons of carbon monoxide from a single source during the term of the permit and 20 tons of carbon monoxide at the facility during the term of the permit.

(2) One ton of NO_x from a single source during the term of the permit and 5 tons of NO_x at the facility during the term of the permit.

(3) One and six-tenths tons of the oxides of sulfur from a single source during the term of the permit and 8.0 tons of oxides of sulfur at the facility during the term of the permit.

(4) Six-tenths of a ton of PM₁₀ from a single source during the term of the permit and 3.0 tons of PM₁₀ at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.

(5) One ton of VOCs from a single source during the term of the permit and 5.0 tons of VOCs at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.

(c) In accordance with § 127.14, the permittee may install the following minor sources without the need for a plan approval:

(1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.

(2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.

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(3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility, liquefied petroleum gas or by commercial fuel oils which are No. 2 or lighter, viscosity less than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code § 123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.

(4) Space heaters which heat by direct heat transfer.

(5) Laboratory equipment used exclusively for chemical or physical analysis.

(6) Other sources and classes of sources determined to be of minor significance by the Department.

(d) This permit does not authorize de minimis emission increases if the emissions increase would cause one or more of the following:

(1) Increase the emissions of a pollutant regulated under Section 112 of the Clean Air Act except as authorized in Subparagraphs (b)(4) and (5) of this permit condition.

(2) Subject the facility to the prevention of significant deterioration requirements in 25 Pa. Code Chapter 127, Subchapter D and/or the new source review requirements in Subchapter E.

(3) Violate any applicable requirement of the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.

(4) Changes which are modifications under any provision of Title I of the Clean Air Act and emission increases which would exceed the allowable emissions level (expressed as a rate of emissions or in terms of total emissions) under the Title V permit.

(e) Unless precluded by the Clean Air Act or the regulations thereunder, the permit shield described in 25 Pa. Code § 127.516 (relating to permit shield) shall extend to the changes made under 25 Pa. Code § 127.449 (relating to de minimis emission increases).

(f) Emissions authorized under this permit condition shall be included in the monitoring, recordkeeping and reporting requirements of this permit.

(g) Except for de minimis emission increases allowed under this permit, 25 Pa. Code § 127.449, or sources and physical changes meeting the requirements of 25 Pa. Code § 127.14, the permittee is prohibited from making physical changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.

(h) The permittee may not meet de minimis emission threshold levels by offsetting emission increases or decreases at the same source.

#020 [25 Pa. Code §§ 127.11a & 127.215]**Reactivation of Sources**

(a) The permittee may reactivate a source at the facility that has been out of operation or production for at least one year, but less than or equal to five (5) years, if the source is reactivated in accordance with the requirements of 25 Pa. Code §§ 127.11a and 127.215. The reactivated source will not be considered a new source.

(b) A source which has been out of operation or production for more than five (5) years but less than 10 years may be reactivated and will not be considered a new source if the permittee satisfies the conditions specified in 25 Pa. Code § 127.11a(b).

#021 [25 Pa. Code §§ 121.9 & 127.216]**Circumvention**

(a) The owner of this Title V facility, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the

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phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

(b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this permit, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#022 [25 Pa. Code §§ 127.402(d) & 127.513(1)]**Submissions**

(a) Reports, test data, monitoring data, notifications and requests for renewal of the permit shall be submitted to the:

Regional Air Program Manager
PA Department of Environmental Protection
(At the address given on the permit transmittal letter, or otherwise notified)

(b) Any report or notification for the EPA Administrator or EPA Region III should be addressed to:

Enforcement & Compliance Assurance Division
Air, RCRA and Toxics Branch (3ED21)
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, PA 19103-2852

The Title V compliance certification shall be emailed to EPA at R3_APD_Permits@epa.gov.

(c) An application, form, report or compliance certification submitted pursuant to this permit condition shall contain certification by a responsible official as to truth, accuracy, and completeness as required under 25 Pa. Code § 127.402(d). Unless otherwise required by the Clean Air Act or regulations adopted thereunder, this certification and any other certification required pursuant to this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

#023 [25 Pa. Code §§ 127.441(c) & 127.463(e); Chapter 139; & 114(a)(3), 504(b) of the CAA]**Sampling, Testing and Monitoring Procedures**

(a) The permittee shall perform the emissions monitoring and analysis procedures or test methods for applicable requirements of this Title V permit. In addition to the sampling, testing and monitoring procedures specified in this permit, the Permittee shall comply with any additional applicable requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

(b) The sampling, testing and monitoring required under the applicable requirements of this permit, shall be conducted in accordance with the requirements of 25 Pa. Code Chapter 139 unless alternative methodology is required by the Clean Air Act (including §§ 114(a)(3) and 504(b)) and regulations adopted thereunder.

#024 [25 Pa. Code §§ 127.511 & Chapter 135]**Recordkeeping Requirements**

(a) The permittee shall maintain and make available, upon request by the Department, records of required monitoring information that include the following:

- (1) The date, place (as defined in the permit) and time of sampling or measurements.
- (2) The dates the analyses were performed.
- (3) The company or entity that performed the analyses.
- (4) The analytical techniques or methods used.

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(5) The results of the analyses.

(6) The operating conditions as existing at the time of sampling or measurement.

(b) The permittee shall retain records of the required monitoring data and supporting information for at least five (5) years from the date of the monitoring sample, measurement, report or application. Supporting information includes the calibration data and maintenance records and original strip-chart recordings for continuous monitoring instrumentation, and copies of reports required by the permit.

(c) The permittee shall maintain and make available to the Department upon request, records including computerized records that may be necessary to comply with the reporting, recordkeeping and emission statement requirements in 25 Pa. Code Chapter 135 (relating to reporting of sources). In accordance with 25 Pa. Code Chapter 135, § 135.5, such records may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. If direct recordkeeping is not possible or practical, sufficient records shall be kept to provide the needed information by indirect means.

#025 [25 Pa. Code §§ 127.411(d), 127.442, 127.463(e) & 127.511(c)]**Reporting Requirements**

(a) The permittee shall comply with the reporting requirements for the applicable requirements specified in this Title V permit. In addition to the reporting requirements specified herein, the permittee shall comply with any additional applicable reporting requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

(b) Pursuant to 25 Pa. Code § 127.511(c), the permittee shall submit reports of required monitoring at least every six (6) months unless otherwise specified in this permit. Instances of deviations (as defined in 25 Pa. Code § 121.1) from permit requirements shall be clearly identified in the reports. The reporting of deviations shall include the probable cause of the deviations and corrective actions or preventative measures taken, except that sources with continuous emission monitoring systems shall report according to the protocol established and approved by the Department for the source. The required reports shall be certified by a responsible official.

(c) Every report submitted to the Department under this permit condition shall comply with the submission procedures specified in Section B, Condition #022(c) of this permit.

(d) Any records, reports or information obtained by the Department or referred to in a public hearing shall be made available to the public by the Department except for such records, reports or information for which the permittee has shown cause that the documents should be considered confidential and protected from disclosure to the public under Section 4013.2 of the Air Pollution Control Act and consistent with Sections 112(d) and 114(c) of the Clean Air Act and 25 Pa. Code § 127.411(d). The permittee may not request a claim of confidentiality for any emissions data generated for the Title V facility.

#026 [25 Pa. Code § 127.513]**Compliance Certification**

(a) One year after the date of issuance of the Title V permit, and each year thereafter, unless specified elsewhere in the permit, the permittee shall submit to the Department and EPA Region III a certificate of compliance with the terms and conditions in this permit, for the previous year, including the emission limitations, standards or work practices. This certification shall include:

- (1) The identification of each term or condition of the permit that is the basis of the certification.
- (2) The compliance status.
- (3) The methods used for determining the compliance status of the source, currently and over the reporting period.
- (4) Whether compliance was continuous or intermittent.

(b) The compliance certification shall be postmarked or hand-delivered no later than thirty days after each anniversary of the date of issuance of this Title V Operating Permit, or on the submittal date specified elsewhere in the permit, to the Department in accordance with the submission requirements specified in Section B, Condition #022 of this permit. The Title V compliance certification shall be emailed to EPA at R3_APD_Permits@epa.gov.

**SECTION B. General Title V Requirements****#027 [25 Pa. Code § 127.3]****Operational Flexibility**

The permittee is authorized to make changes within the Title V facility in accordance with the following provisions in 25 Pa. Code Chapter 127 which implement the operational flexibility requirements of Section 502(b)(10) of the Clean Air Act and Section 6.1(i) of the Air Pollution Control Act:

- (1) Section 127.14 (relating to exemptions)
- (2) Section 127.447 (relating to alternative operating scenarios)
- (3) Section 127.448 (relating to emissions trading at facilities with federally enforceable emissions caps)
- (4) Section 127.449 (relating to de minimis emission increases)
- (5) Section 127.450 (relating to administrative operating permit amendments)
- (6) Section 127.462 (relating to minor operating permit amendments)
- (7) Subchapter H (relating to general plan approvals and operating permits)

#028 [25 Pa. Code §§ 127.441(d), 127.512(i) and 40 CFR Part 68]**Risk Management**

(a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).

(b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the listed threshold quantity at the Title V facility. The permittee shall submit the RMP to the federal Environmental Protection Agency according to the following schedule and requirements:

- (1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:
 - (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
 - (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

(2) The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

(c) As used in this permit condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

(d) If the Title V facility is subject to 40 CFR Part 68, as part of the certification required under this permit, the permittee shall:

- (1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,
- (2) Certify that the Title V facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.

**SECTION B. General Title V Requirements**

(e) If the Title V facility is subject to 40 CFR Part 68, the permittee shall maintain records supporting the implementation of an accidental release program for five (5) years in accordance with 40 CFR § 68.200.

(f) When the Title V facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and 40 CFR Part 68, appropriate enforcement action will be taken by the Department if:

(1) The permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.

(2) The permittee fails to submit a compliance schedule or include a statement in the compliance certification required under Section B, Condition #026 of this permit that the Title V facility is in compliance with the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68, and 25 Pa. Code § 127.512(i).

#029 [25 Pa. Code § 127.512(e)]**Approved Economic Incentives and Emission Trading Programs**

No permit revision shall be required under approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this Title V permit.

#030 [25 Pa. Code §§ 127.516, 127.450(d), 127.449(f) & 127.462(g)]**Permit Shield**

(a) The permittee's compliance with the conditions of this permit shall be deemed in compliance with applicable requirements (as defined in 25 Pa. Code § 121.1) as of the date of permit issuance if either of the following applies:

(1) The applicable requirements are included and are specifically identified in this permit.

(2) The Department specifically identifies in the permit other requirements that are not applicable to the permitted facility or source.

(b) Nothing in 25 Pa. Code § 127.516 or the Title V permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act, including the authority of the Administrator of the EPA provided thereunder.

(2) The liability of the permittee for a violation of an applicable requirement prior to the time of permit issuance.

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act.

(4) The ability of the EPA to obtain information from the permittee under Section 114 of the Clean Air Act.

(c) Unless precluded by the Clean Air Act or regulations thereunder, final action by the Department incorporating a significant permit modification in this Title V Permit shall be covered by the permit shield at the time that the permit containing the significant modification is issued.

#031 [25 Pa. Code §135.3]**Reporting**

(a) The permittee shall submit by March 1 of each year an annual emissions report for the preceding calendar year. The report shall include information for all active previously reported sources, new sources which were first operated during the preceding calendar year, and sources modified during the same period which were not previously reported. All air emissions from the facility should be estimated and reported.

(b) A source owner or operator may request an extension of time from the Department for the filing of an annual emissions report, and the Department may grant the extension for reasonable cause.

#032 [25 Pa. Code §135.4]**Report Format**

Emissions reports shall contain sufficient information to enable the Department to complete its emission inventory. Emissions reports shall be made by the source owner or operator in a format specified by the Department.

**SECTION C. Site Level Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

(a) No person may permit the emission into the outdoor atmosphere of fugitive air contaminants from a source other than the following:

- (1) Construction or demolition of buildings or structures.
- (2) Grading, paving and maintenance of roads and streets.
- (3) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.
- (4) Clearing of land.
- (5) Stockpiling of materials.
- (6) Open burning operations.
- (7) Sources and classes of sources other than those identified above, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (i) The emissions are of minor significance with respect to causing air pollution.
 - (ii) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

002 [25 Pa. Code §123.2]**Fugitive particulate matter**

No person may permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in Condition #001(a)(1) - (a)(7) above if the emissions are visible at the point the emissions pass outside the person's property.

003 [25 Pa. Code §123.41]**Limitations**

No person may permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

- (1) Equal to or greater than 20% for a period or periods aggregating more than three minutes in any 1 hour.
- (2) Equal to or greater than 60% at any time.

004 [25 Pa. Code §123.42]**Exceptions**

The emission limitations of 25 Pa. Code Section 123.41 shall not apply when:

- (1) The presence of uncombined water is the only reason for failure of the emission to meet the limitations;
- (2) The emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions;
- (3) The emission results from sources specified in 25 Pa. Code Section 123.1(a)(1)-(9).

Throughput Restriction(s).**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the throughput of the four (4) 1,600 kilowatt Caterpillar model G3520C lean burn landfill gas fired engines (Source

**SECTION C. Site Level Requirements**

IDs P110, P120, P130, and P140) shall not exceed 587,377 MMBtu/yr in any 12 consecutive month period.

II. TESTING REQUIREMENTS.**# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

- (a) Pursuant to 25 Pa. Code § 139.3, at least 90 calendar days prior to commencing an EPA reference method testing program, a test protocol shall be submitted to the Department for review and approval. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.
- (b) Pursuant to 25 Pa. Code § 139.3, at least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the Northcentral Regional Office. Notification shall also be sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.
- (c) If applicable, pursuant to 40 CFR § 60.8(a), 40 CFR § 61.13(f) and 40 CFR § 63.7(g), complete test reports shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an EPA reference method test program.
- (d) Pursuant to 25 Pa. Code § 139.53(b) a complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or noncompliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:
1. A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.
 2. Permit number(s) and condition(s) which are the basis for the evaluation.
 3. Summary of results with respect to each applicable permit condition.
 4. Statement of compliance or non-compliance with each applicable permit condition.
- (e) Pursuant to 25 Pa. Code § 139.3, all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.
- (f) All testing shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection.
- (g) Pursuant to 25 Pa. Code §§ 139.53(a)(1) and 139.53(a)(3), two (2) copies of all submittals, besides notifications, shall be sent to the Pennsylvania Department of Environmental Protection, Northcentral Regional Office, Air Quality Program Manager, 208 West Third Street, Suite 101, Williamsport PA, 17701 with deadlines verified through document postmarks.
- (h) The permittee shall insure all federal reporting requirements contained in the applicable subpart of 40 CFR are followed, including timelines more stringent than those contained herein. In the event of an inconsistency or any conflicting requirements between state and the federal, the most stringent provision, term, condition, method or rule shall be used by default.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

During the term of this operating permit, the permittee shall perform formaldehyde emissions testing on the exhaust of two of the four engines to determine compliance with the formaldehyde emission limitations for the engines. The testing shall be performed while the engine is operating at its maximum rate. Additionally, the permittee shall follow the notification procedure in Section C of this operating permit.

**SECTION C. Site Level Requirements****# 008 [25 Pa. Code §139.1]****Sampling facilities.**

Upon the request of the Department, the permittee shall provide adequate sampling ports, safe sampling platforms and adequate utilities for the performance by the Department of tests on such source. The Department will set forth, in the request, the time period in which the facilities shall be provided as well as the specifications for such facilities.

009 [25 Pa. Code §139.11]**General requirements.**

(a) As specified in 25 Pa. Code Section 139.11(1), performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.

(b) As specified in 25 Pa. Code Section 139.11(2), the Department will consider test results for approval where sufficient information is provided to verify the source conditions existing at the time of the test and where adequate data is available to show the manner in which the test was conducted. Information submitted to the Department shall include, as a minimum, all of the following:

- (1) A thorough source description, including a description of any air cleaning devices and the flue.
- (2) Process conditions, for example, the charging rate of raw material or rate of production of final product, boiler pressure, oven temperature and other conditions which may effect emissions from the process.
- (3) The location of sampling ports.
- (4) Effluent characteristics, including velocity, temperature, moisture content, gas density percentage of CO, CO₂, O₂ and N₂), static and barometric pressures.
- (5) Sample collection techniques employed, including procedures used, equipment descriptions and data to verify that isokinetic sampling for particulate matter collection occurred and that acceptable test conditions were met.
- (6) Laboratory procedures and results.
- (7) Calculated results.

III. MONITORING REQUIREMENTS.**# 010 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

- (1) A device approved by the Department and maintained to provide accurate opacity measurements.
- (2) Observers, trained and qualified, to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

011 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 127.511]

(a) The permittee shall conduct a weekly inspection around the plant periphery during daylight hours when the plant is in production to detect visible emissions, fugitive visible emissions and malodorous air emissions. Weekly inspections are necessary to determine:

- (1) the presence of visible emissions,
- (2) the presence of visible fugitive emissions,

**SECTION C. Site Level Requirements**

(3) the presence of malodors beyond the plant property boundaries.

(b) All detected visible emissions, visible fugitive emissions, and malodors shall be reported to the manager of the facility.

IV. RECORDKEEPING REQUIREMENTS.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 127.511]

(a) The permittee shall maintain a logbook for recording instances of visible emissions, fugitive visible emissions and malodorous air emissions, the name of the company representative monitoring these instances, the date and time of each occurrence, and the wind direction during each instance. The permittee shall also record the corrective actions taken or preventative measures taken at each instance.

(b) These records shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep complete and accurate records of the total heat input burned in the four engines (Source IDs P110, P120, P130 and P140) at the facility to verify compliance with the heat input limitation for the engines. These records shall be retained for a minimum of five years and be presented to the Department upon request.

V. REPORTING REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall report malfunctions to the Department. A malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.

(b) Failures that are caused in part by poor maintenance or careless operation shall be reported as excess emissions or deviations from the operating permit requirements.

(c) When the malfunction, excess emissions or deviation from this operating permit requirements poses an imminent danger to the public health, safety, welfare, or environment, the malfunction shall be reported by telephone to the Department and the County Emergency Management Agency within one (1) hour after discovery of the incident. The owner or operator shall submit a written report of instances of such incidents to the Department within three (3) business days of the telephone report.

(d) Except as reported to the Department in accordance with 25 Pa. Code Chapter 139 and the Department's Continuous Source Monitoring Manual, any malfunction or excess emissions that is not subject to the notice requirements of subsection (c) of this operating permit condition shall be reported to the Department within 24 hours of discovery or the next business day. In notifying the Department, the permittee shall describe the following:

- (i) name and location of the facility;
- (ii) nature and cause of the malfunction or breakdown;
- (iii) time when the malfunction or breakdown was first observed;
- (iv) expected duration of excess emissions;
- (v) estimated rate of emissions; and
- (vi) corrective actions or preventative measures taken.

**SECTION C. Site Level Requirements**

(e) The permittee shall notify the Department within 24 hours, or the next business day, when corrective measures have been accomplished.

(f) Upon the request of the Department, the permittee shall submit a full written report to the Regional Air Program Manager within 15 days of the malfunction, excess emissions or deviation from the operating permit requirements.

015 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Upon request by the Department, the permittee shall submit all requested reports in accordance with the Department's suggested format.

016 [25 Pa. Code §135.3]**Reporting**

(a) A person who owns or operates a source to which 25 Pa. Code Chapter 135 applies, and who has previously been advised by the Department to submit a source report, shall submit by March 1 of each year an Annual Air Information Management Systems (AIMS) Emissions report for the preceding calendar year. The report shall include information for all previously reported sources, new sources which were first operated during the preceding calendar year and sources modified during the same period which were not previously reported.

(b) A person who receives initial notification by the Department that a Annual Air Information Management Systems (AIMS) Emissions report is necessary, shall submit an initial Annual Air Information Management Systems (AIMS) Emissions report within sixty (60) days after receiving the notification or by March 1 of the year following the year for which the report is required, whichever is later.

(c) A source owner or operator may request an extension of time from the Department for the filing of an Annual Air Information Management Systems (AIMS) Emissions report, and the Department may grant the extension for reasonable cause.

017 [25 Pa. Code §135.5]**Recordkeeping**

Source owners or operators shall maintain and make available upon request by the Department records including computerized records that may be necessary to comply with Sections 135.3 and 135.21 (relating to reporting; and emission statements). These may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions.

018 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4]**Subpart A - General Provisions****Address.**

Source IDs P110, P120, P130 and P140 (Engines #1 - #4) are subject to 40 CFR Part 60 Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, all notifications, reports applications, submittals and other communications related to 40 CFR Part 60 compliance shall be forwarded to both the Department and the US EPA. The EPA copies shall be forwarded to:

Chief, Air Section
Enforcement & Compliance Assurance Division
Air, RCRA and Toxics Branch
US EPA Region 3
Four Penn Center
1600 JFK Blvd.
Philadelphia, PA 19103-2852

or electronically submitted to R3_SubpartJJJJ@epa.gov

019 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.9]**Subpart A--General Provisions****Notification requirements.**

**SECTION C. Site Level Requirements**

Source IDs P110, P120, P130 and P140 (Engines #1 - #4) are subject to 40 CFR Part 63 Subpart ZZZZ, NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES, all notifications, reports applications, submittals and other communications related to 40 CFR Part 63 compliance shall be forwarded to both the Department and the US EPA. The EPA copies shall be forwarded to:

Associate Director,
Office of Air Enforcement and Compliance Assistance, 3AP20
US EPA Region III
Four Penn Center
1600 JFK Blvd.
Philadelphia, PA 19103-2852

VI. WORK PRACTICE REQUIREMENTS.**# 020 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

For any source specified in 25 Pa. Code Section 123.1 subsection(s) (a)(1)-(7) or (a)(9), the permittee shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

- (1) Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction operations, the grading of roads or the clearing of land.
- (2) Application of asphalt, oil, or suitable chemicals on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
- (3) Paving and maintenance of roadways.

VII. ADDITIONAL REQUIREMENTS.**# 021 [25 Pa. Code §121.7]****Prohibition of air pollution.**

No person may permit air pollution as that term is defined in the act (The Air Pollution Control Act (35 P.S. §§ 4001-4015)).

022 [25 Pa. Code §123.31]**Limitations**

No person may permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

023 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) The permittee shall submit the annual compliance certifications to the Department and EPA Region III, as specified in Condition #024 of Section B, General Title V Requirements, no later than September 1 (from July of the previous year through June of the current year). This report may be sent electronically to R3_APD_Permits@epa.gov.

(b) The permittee shall submit the semiannual reports of required monitoring to the Department, as specified in Condition #023 of Section B, General Title V Requirements, no later than September 1 (for January through June) and March 1 (for July through December of the previous year).

024 [25 Pa. Code §129.14]**Open burning operations**

No person may permit the open burning of material at this Title V facility unless in accordance with 25 Pa. Code Section 129.14.

VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this permit including Section B (relating to Title V General Requirements).

IX. COMPLIANCE SCHEDULE.



SECTION C. Site Level Requirements

No compliance milestones exist.

***** Permit Shield In Effect *****

**SECTION D. Source Level Requirements**

Source ID: P110

Source Name: 2233 BHP, CAT G3520C ENGINE 1

Source Capacity/Throughput:

Conditions for this source occur in the following groups: ENGINE TESTING JJJJ

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Compliance with this condition assures compliance with the provisions of 40 CFR Part 60 Subpart JJJJ Section 60.4231.

(a) In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the carbon monoxide (CO) emissions from Source ID P110 shall not exceed 3.10 grams per brake horsepower hour. The total CO emissions from all four engines (Source IDs P110, P120, P130 and P140) shall not exceed 249 tons in any 12 consecutive month period.

(b) The emissions cap on Source IDs P110, P120, P130 and P140 is a compliance cap, imposed to avoid PSD requirements for the project. This cap does not provide any relief from obtaining a plan approval for any future physical change or change in the method of operation of any of the engines, or the addition or modification of any source(s) at the facility. Furthermore, by accepting this cap and agreeing to consider these engines as one emissions unit for NSR/PSD purposes, any future applicability determinations must involve all four engines e.g. should major NSR/PSD be triggered for any one engine, BACT/LAER is required for all four engines. If the company finds it necessary to relax the cap at some future date, the source obligation requirements of 40 CFR 52.21(r)(4) apply.

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Compliance with this condition assures compliance with the provisions of 40 CFR Part 60 Subpart JJJJ Section 60.4231.

In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the nitrogen oxides (NOx) emissions from Source ID P110 shall not exceed 1.0 grams per brake horsepower hour and 21.56 tons in any 12 consecutive month period.

003 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Compliance with this condition assures compliance with the provisions of 25 Pa. Code Section 123.13. In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the total particulate matter (PM) emissions from Source ID P110 shall not exceed 5.18 pounds per hour and 22.71 tons in any 12 consecutive month period.

004 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Compliance with this condition assures compliance with the provisions of 40 CFR Part 60 Subpart JJJJ Section 60.4231.

In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the volatile organic compound emissions (excluding formaldehyde) from Source ID P110 shall not exceed 0.88 pounds per hour and 3.86 tons in any 12 consecutive month period.

005 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the formaldehyde emissions from Source ID P110 shall not exceed 0.36 grams per brake horsepower hour and 7.77 tons in any 12

**SECTION D. Source Level Requirements**

consecutive month period.

006 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Compliance with this condition assures compliance with the provisions of 40 CFR Part 60 Subpart WWW Section 60.752. In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the non methane organic hydrocarbon (NMOC) emissions from Source ID P110 shall not exceed 20 ppmv as hexane corrected to 3% oxygen or 98% reduction by weight.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the sulfur oxides (SOx) emissions from Source ID P110 shall not exceed 3.88 pounds per hour and 16.99 tons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.**# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Compliance with this condition also assures compliance with the provisions of 40 CFR Part 63 Subpart ZZZZ Section 63.6625]

In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the permittee shall continuously monitor the amount of landfill gas being burned by Source ID P110. Additionally, the permittee shall equip each engine with instrumentation which accurately monitors the exhaust temperature of the engine.

IV. RECORDKEEPING REQUIREMENTS.**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Compliance with this condition also assures compliance with the provisions of 40 CFR Part 63 Subpart ZZZZ Sections 63.6625, 63.6655 and 63.6660]

The permittee shall maintain records of the following for Source ID P110:

- (a) the amount of landfill gas being burned in Source ID P110 on a daily basis.
- (b) the exhaust temperature of each of Source ID P110 on a daily basis.
- (c) the NO_x, CO, PM, VOC, NMOC, formaldehyde and SO_x emissions each month and the corresponding 12 consecutive month totals to verify compliance with the applicable emission limitations.
- (d) the dates and status of any tuning procedures done on Source ID P110.
- (e) The number of hours Source ID P110 is in operation each month.
- (f) These records shall be retained for a minimum of five (5) years and presented to the Department upon request.

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.****# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall submit a semi-annual report to the Department of the following:

- (a) the NO_x, CO, PM, VOC, NMOC, formaldehyde and SO_x emissions each of the previous 6 months and the corresponding 12 consecutive month totals.
- (b) the amount of landfill gas burned in each of the engines in the previous 6 months and the corresponding 12 consecutive month totals.
- (c) the amount of hours that the engine was in operation the previous 6 months and the corresponding 12 consecutive month totals.

This report is due every March 1 and September 1.

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, Source ID P110 is a 1,600 kilowatt Caterpillar model G3520C lean burn landfill gas fired engine.

012 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall perform an annual adjustment and/or tune-up on Source ID P110 which shall include the following:

- (a) Inspection, adjustment, cleaning or replacement of combustion equipment, including stationary and moving parts necessary for proper operation as specified by the manufacturer.
- (b) Performance and documentation of annual maintenance or inspections necessary to ensure proper operations to minimize emissions of NO_x, and to the extent practicable minimize emissions of CO.
- (c) Sampling of the final NO_x and CO emission rates. This sampling shall be conducted with portable metering equipment in accordance with applicable manufacturer's calibrating and operating procedures.

013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4230]**Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
Am I subject to this subpart?**

Source ID P110 is subject to 40 CFR Part 60 Subpart JJJJ Sections 60.4230 - 60.4248, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. The permittee shall comply with all applicable requirements of this subpart.

014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
Am I subject to this subpart?**

Source ID P110 is subject to 40 CFR Part 63 Subpart ZZZZ, NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES, Sections 63.6580 - 63.6675. The permittee shall comply with all applicable requirements of this subpart.

*** Permit Shield in Effect. ***

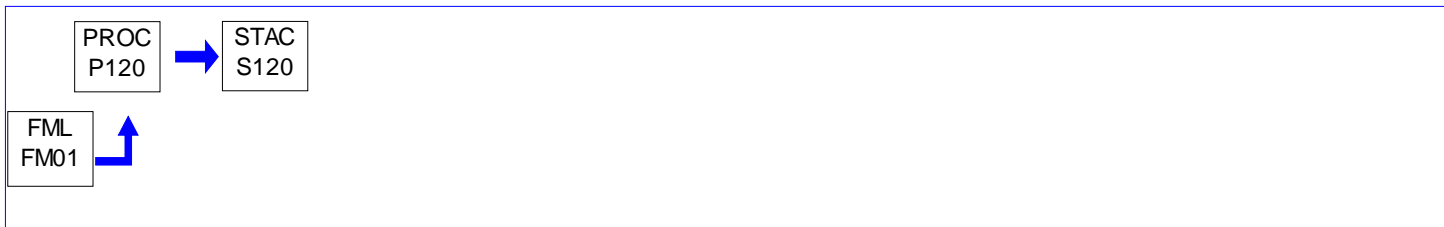
**SECTION D. Source Level Requirements**

Source ID: P120

Source Name: 2233 BHP, CAT G3520C ENGINE 2

Source Capacity/Throughput:

Conditions for this source occur in the following groups: ENGINE TESTING JJJJ

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Compliance with this condition assures compliance with the provisions of 40 CFR Part 60 Subpart JJJJ Section 60.4231.

(a) In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the carbon monoxide (CO) emissions from Source ID P120 shall not exceed 3.10 grams per brake horsepower hour. The total CO emissions from all four engines (Source IDs P110, P120, P130 and P140) shall not exceed 249 tons in any 12 consecutive month period.

(b) The emissions cap on Source IDs P110, P120, P130 and P140 is a compliance cap, imposed to avoid PSD requirements for the project. This cap does not provide any relief from obtaining a plan approval for any future physical change or change in the method of operation of any of the engines, or the addition or modification of any source(s) at the facility. Furthermore, by accepting this cap and agreeing to consider these engines as one emissions unit for NSR/PSD purposes, any future applicability determinations must involve all four engines e.g. should major NSR/PSD be triggered for any one engine, BACT/LAER is required for all four engines. If the company finds it necessary to relax the cap at some future date, the source obligation requirements of 40 CFR 52.21(r)(4) apply.

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Compliance with this condition assures compliance with the provisions of 40 CFR Part 60 Subpart JJJJ Section 60.4231.

In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the nitrogen oxides (NOx) emissions from Source ID P120 shall not exceed 1.0 grams per brake horsepower hour and 21.56 tons in any 12 consecutive month period.

003 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Compliance with this condition assures compliance with the provisions of 25 Pa. Code Section 123.13. In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the total particulate matter (PM) emissions from Source ID P120 shall not exceed 5.18 pounds per hour and 22.71 tons in any 12 consecutive month period.

004 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Compliance with this condition assures compliance with the provisions of 40 CFR Part 60 Subpart JJJJ Section 60.4231.

In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the volatile organic compound emissions (excluding formaldehyde) from Source ID P120 shall not exceed 0.88 pounds per hour and 3.86 tons in any 12 consecutive month period.

005 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the formaldehyde emissions from Source ID P120 shall not exceed 0.36 grams per brake horsepower hour and 7.77 tons in any 12

**SECTION D. Source Level Requirements**

consecutive month period.

006 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Compliance with this condition assures compliance with the provisions of 40 CFR Part 60 Subpart WWW Section 60.752. In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the non methane organic hydrocarbon (NMOC) emissions from Source ID P120 shall not exceed 20 ppmv as hexane corrected to 3% oxygen or 98% reduction by weight.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the sulfur oxides (SOx) emissions from Source ID P120 shall not exceed 3.88 pounds per hour and 16.99 tons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.**# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Compliance with this condition also assures compliance with the provisions of 40 CFR Part 63 Subpart ZZZZ Section 63.6625]

In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the permittee shall continuously monitor the amount of landfill gas being burned by Source ID P120. Additionally, the permittee shall equip each engine with instrumentation which accurately monitors the exhaust temperature of the engine.

IV. RECORDKEEPING REQUIREMENTS.**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Compliance with this condition also assures compliance with the provisions of 40 CFR Part 63 Subpart ZZZZ Sections 63.6625, 63.6655 and 63.6660]

The permittee shall maintain records of the following for Source ID P120:

- (a) the amount of landfill gas being burned in Source ID P120 on a daily basis.
- (b) the exhaust temperature of each of Source ID P120 on a daily basis.
- (c) the NO_x, CO, PM, VOC, NMOC, formaldehyde and SO_x emissions each month and the corresponding 12 consecutive month totals to verify compliance with the applicable emission limitations.
- (d) the dates and status of any tuning procedures done on Source ID P120.
- (e) The number of hours Source ID P120 is in operation each month.
- (f) These records shall be retained for a minimum of five (5) years and presented to the Department upon request.

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.****# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall submit a semi-annual report to the Department of the following:

- (a) the NO_x, CO, PM, VOC, NMOC, formaldehyde and SO_x emissions each of the previous 6 months and the corresponding 12 consecutive month totals.
- (b) the amount of landfill gas burned in each of the engines in the previous 6 months and the corresponding 12 consecutive month totals.
- (c) the amount of hours each month that the engine was in operation the previous 6 months and the corresponding 12 consecutive month totals.

This report is due every March 1 and September 1.

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, Source ID P120 is a 1,600 kilowatt Caterpillar model G3520C lean burn landfill gas fired engine.

012 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall perform an annual adjustment and/or tune-up on Source ID P120 which shall include the following:

- (a) Inspection, adjustment, cleaning or replacement of combustion equipment, including stationary and moving parts necessary for proper operation as specified by the manufacturer.
- (b) Performance and documentation of annual maintenance or inspections necessary to ensure proper operations to minimize emissions of NO_x, and to the extent practicable minimize emissions of CO.
- (c) Sampling of the final NO_x and CO emission rates. This sampling shall be conducted with portable metering equipment in accordance with applicable manufacturer's calibrating and operating procedures.

013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4230]**Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
Am I subject to this subpart?**

Source ID P120 is subject to 40 CFR Part 60 Subpart JJJJ Sections 60.4230 - 60.4248, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. The permittee shall comply with all applicable requirements of this subpart.

014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
Am I subject to this subpart?**

Source ID P120 is subject to 40 CFR Part 63 Subpart ZZZZ, NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES, Sections 63.6580 - 63.6675. The permittee shall comply with all applicable requirements of this subpart.

*** Permit Shield in Effect. ***

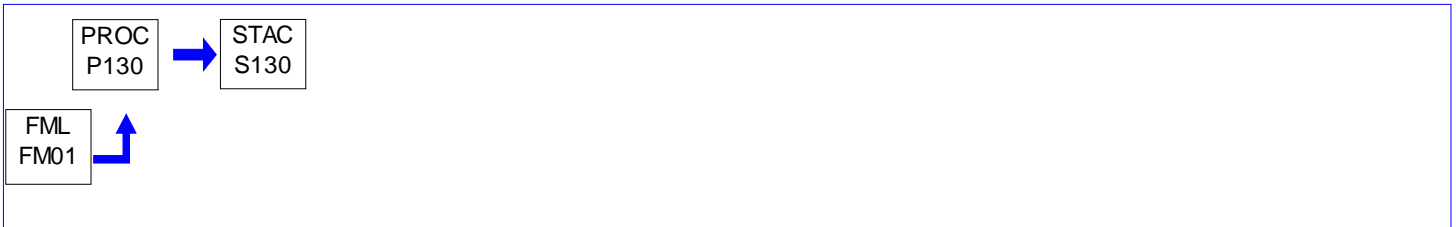
**SECTION D. Source Level Requirements**

Source ID: P130

Source Name: 2233 BHP, CAT G3520C ENGINE 3

Source Capacity/Throughput:

Conditions for this source occur in the following groups: ENGINE TESTING JJJJ

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Compliance with this condition assures compliance with the provisions of 40 CFR Part 60 Subpart JJJJ Section 60.4231.

(a) In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the carbon monoxide (CO) emissions from Source ID P130 shall not exceed 3.10 grams per brake horsepower hour. The total CO emissions from all four engines (Source IDs P110, P120, P130 and P140) shall not exceed 249 tons in any 12 consecutive month period.

(b) The emissions cap on Source IDs P110, P120, P130 and P140 is a compliance cap, imposed to avoid PSD requirements for the project. This cap does not provide any relief from obtaining a plan approval for any future physical change or change in the method of operation of any of the engines, or the addition or modification of any source(s) at the facility. Furthermore, by accepting this cap and agreeing to consider these engines as one emissions unit for NSR/PSD purposes, any future applicability determinations must involve all four engines e.g. should major NSR/PSD be triggered for any one engine, BACT/LAER is required for all four engines. If the company finds it necessary to relax the cap at some future date, the source obligation requirements of 40 CFR 52.21(r)(4) apply.

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Compliance with this condition assures compliance with the provisions of 40 CFR Part 60 Subpart JJJJ Section 60.4231.

In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the nitrogen oxides (NOx) emissions from Source ID P130 shall not exceed 1.0 grams per brake horsepower hour and 21.56 tons in any 12 consecutive month period.

003 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Compliance with this condition assures compliance with the provisions of 25 Pa. Code Section 123.13. In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the total particulate matter (PM) emissions from Source ID P130 shall not exceed 5.18 pounds per hour and 22.71 tons in any 12 consecutive month period.

004 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Compliance with this condition assures compliance with the provisions of 40 CFR Part 60 Subpart JJJJ Section 60.4231.

In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the volatile organic compound emissions (excluding formaldehyde) from Source ID P130 shall not exceed 0.88 pounds per hour and 3.86 tons in any 12 consecutive month period.

005 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the formaldehyde emissions from Source ID P130 shall not exceed 0.36 grams per brake horsepower hour and 7.77 tons in any 12

**SECTION D. Source Level Requirements**

consecutive month period.

006 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Compliance with this condition assures compliance with the provisions of 40 CFR Part 60 Subpart WWW Section 60.752. In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the non methane organic hydrocarbon (NMOC) emissions from Source ID P130 shall not exceed 20 ppmv as hexane corrected to 3% oxygen or a 98% by weight reduction.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the sulfur oxides (SOx) emissions from Source ID P130 shall not exceed 3.88 pounds per hour and 16.99 tons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.**# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Compliance with this condition also assures compliance with the provisions of 40 CFR Part 63 Subpart ZZZZ Section 63.6625]

In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the permittee shall continuously monitor the amount of landfill gas being burned by Source ID P130. Additionally, the permittee shall equip each engine with instrumentation which accurately monitors the exhaust temperature of the engine.

IV. RECORDKEEPING REQUIREMENTS.**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Compliance with this condition also assures compliance with the provisions of 40 CFR Part 63 Subpart ZZZZ Sections 63.6625, 63.6655 and 63.6660]

The permittee shall maintain records of the following for Source ID P130:

- (a) the amount of landfill gas being burned in Source ID P130 on a daily basis.
- (b) the exhaust temperature of each of Source ID P130 on a daily basis.
- (c) the NO_x, CO, PM, VOC, NMOC, formaldehyde and SO_x emissions each month and the corresponding 12 consecutive month totals to verify compliance with the applicable emission limitations.
- (d) the dates and status of any tuning procedures done on Source ID P130.
- (e) The number of hours Source ID P130 is in operation each month.
- (f) These records shall be retained for a minimum of five (5) years and presented to the Department upon request.

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.****# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall submit a semi-annual report to the Department of the following:

- (a) the NO_x, CO, PM, VOC, NMOC, formaldehyde and SO_x emissions each of the previous 6 months and the corresponding 12 consecutive month totals.
- (b) the amount of landfill gas burned in each of the engines in the previous 6 months and the corresponding 12 consecutive month totals.
- (c) the amount of hours each month that the engine was in operation the previous 6 months and the corresponding 12 consecutive month totals.

This report is due every March 1 and September 1.

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, Source ID P130 is a 1,600 kilowatt Caterpillar model G3520C lean burn landfill gas fired engine.

012 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall perform an annual adjustment and/or tune-up on Source ID P130 which shall include the following:

- (a) Inspection, adjustment, cleaning or replacement of combustion equipment, including stationary and moving parts necessary for proper operation as specified by the manufacturer.
- (b) Performance and documentation of annual maintenance or inspections necessary to ensure proper operations to minimize emissions of NO_x, and to the extent practicable minimize emissions of CO.
- (c) Sampling of the final NO_x and CO emission rates. This sampling shall be conducted with portable metering equipment in accordance with applicable manufacturer's calibrating and operating procedures.

013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4230]**Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
Am I subject to this subpart?**

Source ID P130 is subject to 40 CFR Part 60 Subpart JJJJ Sections 60.4230 - 60.4248, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. The permittee shall comply with all applicable requirements of this subpart.

014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
Am I subject to this subpart?**

Source ID P130 is subject to 40 CFR Part 63 Subpart ZZZZ, NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES, Sections 63.6580 - 63.6675. The permittee shall comply with all applicable requirements of this subpart.

*** Permit Shield in Effect. ***

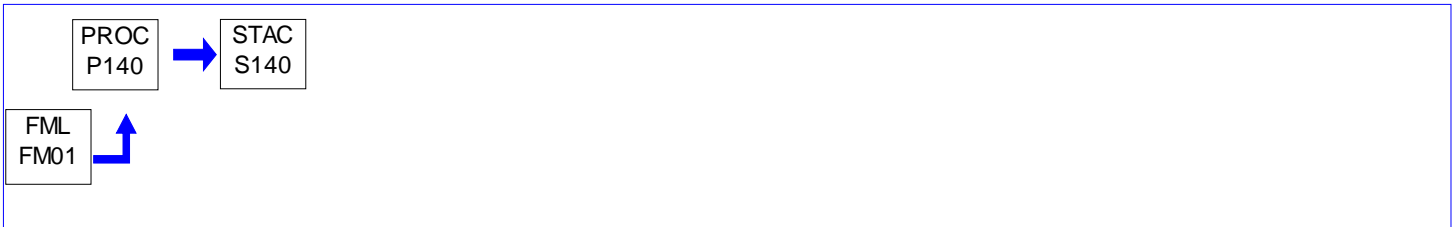
**SECTION D. Source Level Requirements**

Source ID: P140

Source Name: 2233 BHP, CAT G3520C ENGINE 4

Source Capacity/Throughput:

Conditions for this source occur in the following groups: ENGINE TESTING JJJJ

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Compliance with this condition assures compliance with the provisions of 40 CFR Part 60 Subpart JJJJ Section 60.4231.

(a) In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the carbon monoxide (CO) emissions from Source ID P140 shall not exceed 3.10 grams per brake horsepower hour. The total CO emissions from all four engines (Source IDs P110, P120, P130 and P140) shall not exceed 249 tons in any 12 consecutive month period.

(b) The emissions cap on Source IDs P110, P120, P130 and P140 is a compliance cap, imposed to avoid PSD requirements for the project. This cap does not provide any relief from obtaining a plan approval for any future physical change or change in the method of operation of any of the engines, or the addition or modification of any source(s) at the facility. Furthermore, by accepting this cap and agreeing to consider these engines as one emissions unit for NSR/PSD purposes, any future applicability determinations must involve all four engines e.g. should major NSR/PSD be triggered for any one engine, BACT/LAER is required for all four engines. If the company finds it necessary to relax the cap at some future date, the source obligation requirements of 40 CFR 52.21(r)(4) apply.

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Compliance with this condition assures compliance with the provisions of 40 CFR Part 60 Subpart JJJJ Section 60.4231.

In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the nitrogen oxides (NOx) emissions from Source ID P140 shall not exceed 1.0 grams per brake horsepower hour and 21.56 tons in any 12 consecutive month period.

003 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Compliance with this condition assures compliance with the provisions of 25 Pa. Code Section 123.13. In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the total particulate matter (PM) emissions from Source ID P140 shall not exceed 5.18 pounds per hour and 22.71 tons in any 12 consecutive month period.

004 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Compliance with this condition assures compliance with the provisions of 40 CFR Part 60 Subpart JJJJ Section 60.4231.

In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the volatile organic compound emissions (excluding formaldehyde) from Source ID P140 shall not exceed 0.88 pounds per hour and 3.86 tons in any 12 consecutive month period.

005 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the formaldehyde emissions from Source ID P140 shall not exceed 0.36 grams per brake horsepower hour and 7.77 tons in any 12

**SECTION D. Source Level Requirements**

consecutive month period.

006 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Compliance with this condition assures compliance with the provisions of 40 CFR Part 60 Subpart WWW Section 60.752. In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the non methane organic hydrocarbon (NMOC) emissions from Source ID P140 shall not exceed 20 ppmv as hexane corrected to 3% oxygen or a 98% by weight reduction.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the sulfur oxides (SOx) emissions from Source ID P140 shall not exceed 3.88 pounds per hour and 16.99 tons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.**# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Compliance with this condition also assures compliance with the provisions of 40 CFR Part 63 Subpart ZZZZ Section 63.6625]

In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the permittee shall continuously monitor the amount of landfill gas being burned by Source ID P140. Additionally, the permittee shall equip each engine with instrumentation which accurately monitors the exhaust temperature of the engine.

IV. RECORDKEEPING REQUIREMENTS.**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Compliance with this condition also assures compliance with the provisions of 40 CFR Part 63 Subpart ZZZZ Sections 63.6625, 63.6655 and 63.6660]

The permittee shall maintain records of the following for Source ID P140:

- (a) the amount of landfill gas being burned in Source ID P140 on a daily basis.
- (b) the exhaust temperature of each of Source ID P140 on a daily basis.
- (c) the NO_x, CO, PM, VOC, NMOC, formaldehyde and SO_x emissions each month and the corresponding 12 consecutive month totals to verify compliance with the applicable emission limitations.
- (d) the dates and status of any tuning procedures done on Source ID P140.
- (e) The number of hours Source ID P140 is in operation each month.
- (f) These records shall be retained for a minimum of five (5) years and presented to the Department upon request.

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.****# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall submit a semi-annual report to the Department of the following:

- (a) the NO_x, CO, PM, VOC, NMOC, formaldehyde and SO_x emissions each of the previous 6 months and the corresponding 12 consecutive month totals.
- (b) the amount of landfill gas burned in each of the engines in the previous 6 months and the corresponding 12 consecutive month totals.
- (c) the amount of hours each month that the engine was in operation the previous 6 months and the corresponding 12 consecutive month totals.

This report is due every March 1 and September 1.

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

In accordance with the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, Source ID P140 is a 1,600 kilowatt Caterpillar model G3520C lean burn landfill gas fired engine.

012 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall perform an annual adjustment and/or tune-up on Source ID P140 which shall include the following:

- (a) Inspection, adjustment, cleaning or replacement of combustion equipment, including stationary and moving parts necessary for proper operation as specified by the manufacturer.
- (b) Performance and documentation of annual maintenance or inspections necessary to ensure proper operations to minimize emissions of NO_x, and to the extent practicable minimize emissions of CO.
- (c) Sampling of the final NO_x and CO emission rates. This sampling shall be conducted with portable metering equipment in accordance with applicable manufacturer's calibrating and operating procedures.

013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4230]**Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
Am I subject to this subpart?**

Source ID P140 is subject to 40 CFR Part 60 Subpart JJJJ Sections 60.4230 - 60.4248, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. The permittee shall comply with all applicable requirements of this subpart.

014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
Am I subject to this subpart?**

Source ID P140 is subject to 40 CFR Part 63 Subpart ZZZZ, NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES, Sections 63.6580 - 63.6675. The permittee shall comply with all applicable requirements of this subpart.

*** Permit Shield in Effect. ***

**SECTION E. Source Group Restrictions.**

Group Name: ENGINE TESTING JJJJ

Group Description: Quad J Testing

Sources included in this group

ID	Name
P110	2233 BHP, CAT G3520C ENGINE 1
P120	2233 BHP, CAT G3520C ENGINE 2
P130	2233 BHP, CAT G3520C ENGINE 3
P140	2233 BHP, CAT G3520C ENGINE 4

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

II. TESTING REQUIREMENTS.

001 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4243]
Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
What are my compliance requirements if I am an owner or operator of a stationary SI internal combustion engine?

(a) The permittee shall conduct performance testing every 8,760 hours of operation of this engine or 3 years, whichever comes first, thereafter to demonstrate compliance with the NO_x, CO and NMOC emission limitations.

(b) The permittee shall following the Testing Requirements in Section C of this operating permit for all testing required.

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

***** Permit Shield in Effect. *****



SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this Title V facility.

**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.



SECTION H. Miscellaneous.



***** End of Report *****
