



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: April 22, 2025

Effective Date: April 22, 2025

Expiration Date: April 21, 2030

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: 15-00060

Federal Tax Id - Plant Code: 23-1695190-1

Owner Information

Name: SOUTHEASTERN CHESTER CNTY REFUSE AUTH
Mailing Address: 219 STREET RD
WEST GROVE, PA 19390-9230

Plant Information

Plant: SECCRALDFL/LONDON GROVE TWP
Location: 15 Chester County 15935 London Grove Township
SIC Code: 4953 Trans. & Utilities - Refuse Systems

Responsible Official

Name: SCOTT MENGLE
Title: GEN MGR
Phone: (610) 869 - 2452 Ext.117 Email: scott@seccra.org

Permit Contact Person

Name: STEVE BURN
Title: SITE MGR
Phone: (610) 869 - 2452 Email: steve@seccra.org

[Signature] _____
JILLIAN A. GALLAGHER, SOUTHEAST REGION AIR PROGRAM MANAGER



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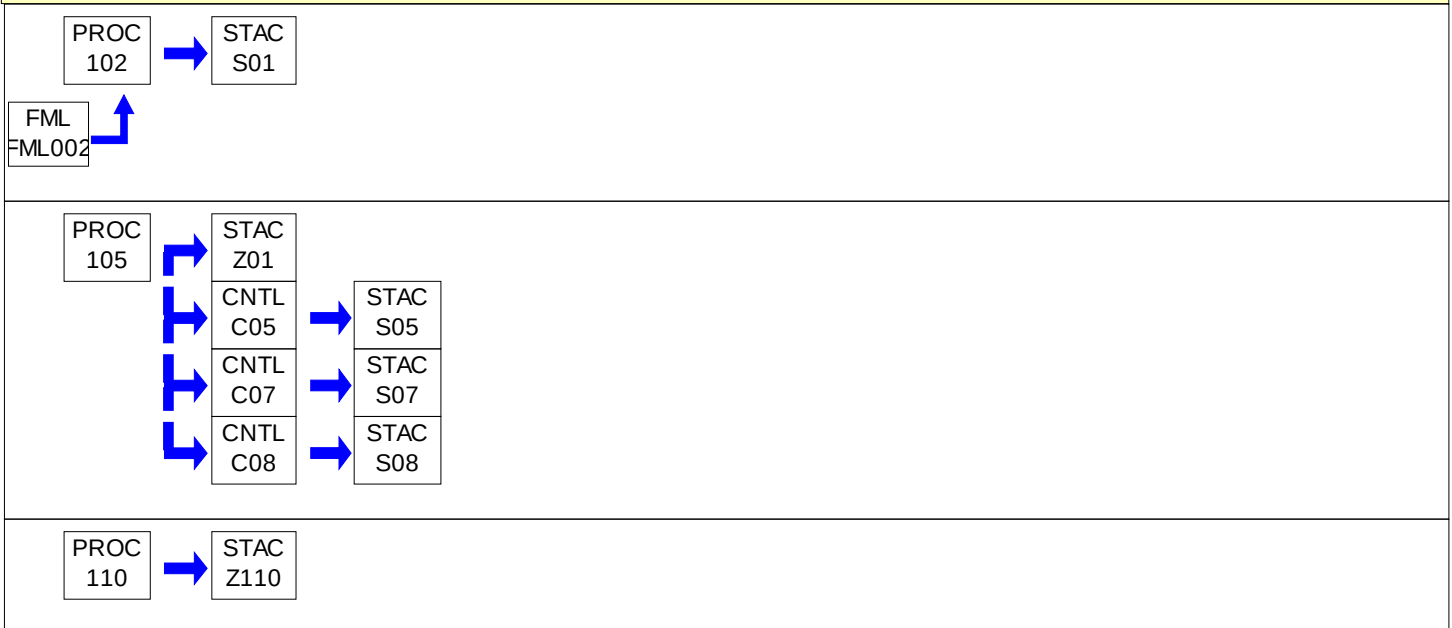
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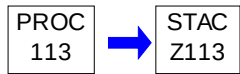
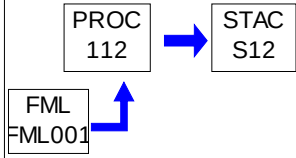
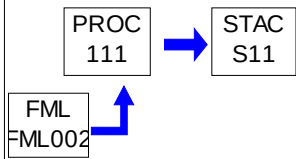
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Source ID	Source Name	Capacity/Throughput	Fuel/Material
102	EMERGENCY GENERATOR (102 HP)		
105	MSW LANDFILL (NORTH, SOUTH CELL & WILLA EXPANSION)	N/A	700 TONS/DAY
110	PARTS WASHER		
111	EMERGENCY GENERATOR (335 HP)		
112	PROPANE EMERGENCY GENERATOR (134 HP)		
113	300-GALLON GASOLINE STORAGE TANK		
C05	IC ENGINE/GENERATOR CATERPILLAR G3516LE	1,148.000 HP-Hr/HR	LANDFILL GAS
C07	ENCLOSED FLARE	72,000.000 CF/HR	
C08	IC ENGINE/GENERATOR CATERPILLAR G3520C (PA60F)	2,233.000 HP-Hr/HR	LANDFILL GAS
FML001	PROPANE STORAGE		
FML002	DIESEL FUEL		
S01	STACK FOR EMERGENCY GENERATOR (102 HP)		
S05	IC ENGINE/GENERATOR C05 STACK		
S07	ENCLOSED FLARE STACK		
S08	IC ENGINE/GENERATOR C08 STAC		
S11	STACK FOR EMERGENCY GENERATOR (335 HP)		
S12	STACK FOR PROPANE EMERGENCY GENERATOR (134 HP)		
Z01	LANDFILL EMISSIONS		
Z110	PARTS WASHER FUGITIVES		
Z113	300-GALLON GASOLINE STORAGE TANK DISPENSING EMISSIONS		

PERMIT MAPS

**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 Air Pollution Control Act (35 P.S. §§ 4001-4015).

#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

**SECTION B. General Title V Requirements**

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.

**SECTION B. General Title V Requirements**

(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.

**SECTION B. General Title V Requirements**

(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

**SECTION B. General Title V Requirements**

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 § 127.513]**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

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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.

#025 [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.
- (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.

#026 [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.

**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**

No person may permit the emission into the outdoor atmosphere of a fugitive air contaminant 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, as specified in 25 Pa. Code § 129.14.
- (7) N/A
- (8) N/A
- (9) Sources and classes of sources other than those identified in (1)-(8) of this condition, 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; and
- (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**

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in 25 Pa. Code § 123.1(a) (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

003 [25 Pa. Code §123.31]**Limitations**

A person may not permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in such a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

004 [25 Pa. Code §123.41]**Limitations**

A person may not 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:

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

005 [25 Pa. Code §123.42]**Exceptions**

The opacity limitations as per 25 Pa. Code § 123.41 shall not apply to a visible emission in any of the following instances:

- (a) When the presence of uncombined water is the only reason for failure of the emission to meet the limitations.
- (b) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- (c) When the emission results from the sources specified in 25 Pa. Code § 123.1(a) (relating to prohibition of certain fugitive emissions).

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

The permittee shall limit the facility to the following emissions, calculated as a 12-month rolling sum:

**SECTION C. Site Level Requirements**

- (1) Volatile Organic Compounds (VOC): 19.98 tons/year (post closure of the landfill)
20.97 tons/year (pre- closure of the landfill)
- (2) Nitrogen Oxides (NOx): 23.31 tons/year
- (3) Carbon Monoxide (CO): 147.28 tons/year
- (4) Sulfur Oxides (SOx): 14.80 tons/year.
- (5) Particulate Matter (PM): 99.9 tons/year
- (6) Particulate Matter less than 10 microns (PM10): 30.32 tons/year.
- (7) Particulate Matter less than 2.5 microns: 8.44 tons/year.
- (8) Hazardous Air Pollutants (HAP): 14.50 tons/year (post-closure of the landfill)
15.06 tons/year (pre-closure of the landfill)

007 [25 Pa. Code §129.14]**Open burning operations**

No person may permit the open burning of material in the Southeast Air Basin except where the open burning operations result from:

- (a) a fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer;
- (b) any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department;
- (c) a fire set for the prevention and control of disease or pests, when approved by the Department;
- (d) a fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation;
- (e) a fire set for the purpose of burning domestic refuse, when the fire is on the premises of a structure occupied solely as a dwelling by two families or less and when the refuse results from the normal occupancy of the structure;
- (f) a fire set solely for recreational or ceremonial purposes; or
- (g) a fire set solely for cooking food.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

- (a) If at any time the Department has cause to believe that air contaminant emissions from any source may be in excess of the limitations specified in this Permit, or established pursuant to, any applicable rule or regulation contained in 25 Pa. Code Article III, the permittee shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s).
- (b) Such testing shall be conducted in accordance with the provisions of 25 Pa. Code Chapter 139, the most current version of the DEP Source Testing Manual, and the EPA Clean Air Act National Stack Testing Guidance, when applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the permittee that testing is required.

009 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The Department reserves the right to require stack testing of any source(s) as necessary to verify emissions for purposes

**SECTION C. Site Level Requirements**

including determining the correct emission fee, malfunctions, or determining compliance with any applicable requirement.

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

Visible emissions may be measured using either of the following:

- (a) A device approved by the Department and maintained to provide accurate opacity measurements; or
- (b) 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 § 127.511.]

- (a) The permittee shall monitor the facility, once per operating day, for the following:
 - (1) odors which may be objectionable (as per 25 Pa. Code §123.31);
 - (2) visible emissions (as per 25 Pa. Code §§123.41 and 123.42); and
 - (3) fugitive particulate matter (as per 25 Pa. Code §§ 123.1 and 123.2).
- (b) Objectionable odors, which may cause annoyance or discomfort to the public noticed at the site property boundaries that are caused or may be caused by operations at the site, as well as fugitive particulate emissions that originated on-site and cross the property line, and visible emissions that originated on site shall:
 - (1) be investigated;
 - (2) be reported to the facility management, or individual(s) designated by the permittee;
 - (3) have appropriate corrective action taken (for emissions that originate on-site); and
 - (4) be recorded in a permanent written log.

IV. RECORDKEEPING REQUIREMENTS.**# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain records of all the facility's increases of emissions from the following categories:

- (a) emissions increase of minor significance without notification to the Department.
- (b) de minimis increases with notification to the Department, via letter.
- (c) increases resulting from a Request for Determination (RFD) to the Department.
- (d) increases resulting from the issuance of a plan approval and subsequent operating permit.

013 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

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

The permittee shall maintain a record of all monitoring of fugitive emissions, visible emissions and odors, including those that deviate from the conditions found in this permit. The record of deviations shall contain, at a minimum, the following items:

- (a) date, time, and location of the incident(s);
- (b) the cause of the event; and
- (c) the corrective action taken, if necessary, to abate the situation and prevent future occurrences.

**SECTION C. Site Level Requirements****# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The owner/operator shall keep all records required by this Operating Permit for a period of 5 years, unless otherwise specified.

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

(a) The owner/operator shall calculate and record the emissions of NO_x, CO, VOC, SO_x, particulate matter (PM, PM₁₀ and PM_{2.5}), and HAP) from individual sources and from the total facility on a monthly and on a 12-month rolling basis. The following sources shall be included: the landfill, use of roads, control devices (C05, C07 and C08) and minor sources. The permittee shall use emission factors determined during the most recent stack test, if available, to calculate emissions. Otherwise, the permittee shall use emission factors or calculation methods approved by the Department.

(b) The owner/operator shall keep records of the emission factors and procedures used in the emissions calculations.

016 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep records on a monthly and on a 12-month rolling basis of the volume of landfill gas (LFG) captured, the average Btu value of the captured gas and the volume of LFG combusted in the engines for the electrical generators.

017 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall record when the roads are wetted weekly.

V. REPORTING REQUIREMENTS.**# 018 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) Submissions to DEP required by this Operating Permit shall be uploaded electronically through DEP's Public Submission Page (<https://greenport.pa.gov/ePermitPublicAccess/PublicSubmission/Home>).

If submissions cannot be uploaded, then the DEP's address for the submission is:

Regional Air Quality Manager
PA Department of Environmental Protection
2 East Main Street
Norristown, PA 19401

(b) In general, reports that are required to be submitted under parts 60 and 63 to EPA, with the exception of reports required under the MATS rule, are submitted through the CEDRI portal of the Central Data Exchange (CDX): <https://cdx.epa.gov/>.

Notices and reports to be submitted to the Administrator in compliance with the provisions of 40 C.F.R. Part 60, Subpart JJJJ, 40 C.F.R. Part 62, Subpart OOO, or 40 C.F.R. Part 63 Subparts AAAA and ZZZZ shall be submitted to both DEP and the EPA.

019 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.511(c).]

The permittee shall submit the following:

(a) An annual certificate of compliance, due by April 1st of each year, for the period covering January 1 through December 31 of the previous year. This certificate of compliance shall document compliance with all permit terms and conditions set forth in this Title V permit as required under condition #26 of section B of this permit. The annual certificate of compliance shall be submitted to DEP electronically, and to EPA Region III in electronic form at the following email address:

**SECTION C. Site Level Requirements**

R3_APD_Permits@epa.gov. The subject line shall read: "TVOP No. xxx, Facility Namexxx."

(b) A semi-annual deviation report to DEP, due by October 1 of each year, for the period covering January 1 through June 30 of the same year. Note: The annual certification of compliance fulfills the obligation for the second deviation reporting period (July 1 through December 31 of the previous year).

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

(a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to the Department at 484-250-5920. 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. An emergency is any situation arising from sudden and reasonably unforeseeable events beyond the control of the owner or operator of a facility which requires immediate corrective action to restore normal operation and which causes the emission source to exceed emissions, due to unavoidable increases in emissions attributable to the situation. An emergency shall not include situations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

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

(c) The report shall describe the following:

- (1) Name, permit or authorization number, and location of the facility;
- (2) Nature and cause of the malfunction, emergency or incident;

(3) Date and time when the malfunction, emergency or incident was first observed;

(4) Expected duration of excess emissions;

(5) Estimated rate of emissions; and

(6) Corrective actions or preventative measures taken.

(d) Any malfunction, emergency or incident of excess emissions that is not subject to the notice requirements of paragraph (b) of this condition shall be reported to the Department by telephone within 24 hours (or by 4:00 PM of the next business day, whichever is later) of discovery and in writing or by e-mail within five (5) business days of discovery. The report shall contain the same information required by paragraph (c), and any permit specific malfunction reporting requirements.

(e) During an emergency an owner or operator may continue to operate the source at their discretion provided they submit justification for continued operation of a source during the emergency and follow all the notification and reporting requirements in accordance with paragraphs (b)-(d), as applicable, including any permit specific malfunction reporting requirements.

(f) Reports regarding malfunctions, emergencies or incidents of excess emissions shall be submitted to the appropriate DEP Regional Office Air Program Manager.

(g) Any emissions resulted from malfunction or emergency are to be reported in the annual emissions inventory report, if the annual emissions inventory report is required by permit or authorization.

**SECTION C. Site Level Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 021 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

A person responsible for any source specified in specified 25 Pa. Code § 123.1, shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

- (a) Use, where possible, of water or suitable chemicals, for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land;
- (b) Application of asphalt, water, or other suitable chemicals, on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts;
- (c) Paving and maintenance of roadways; and
- (d) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or by other means.

022 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

The permittee shall ensure that the source(s) and air pollution control device(s), listed in this permit, are operated and maintained in a manner consistent with good operating and maintenance practices, and in accordance with manufacturer's specifications.

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

The permittee shall immediately, upon discovery, implement measures, which may include the application for the installation of an air cleaning device(s), if necessary, to reduce the air contaminant emissions to within applicable limitations, if at any time the operation of the source(s) identified in Section A of this permit, is causing the emission of air contaminants in excess of the limitations specified in, or established pursuant to, 25 Pa. Code Article III, or any other applicable rule promulgated under the Clean Air Act.

024 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee may not modify any air contaminant system identified in this permit, prior to obtaining Department approval, except those modifications authorized by Condition #019(g) of Section B of this permit.

VII. ADDITIONAL REQUIREMENTS.

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

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.

No compliance milestones exist.

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

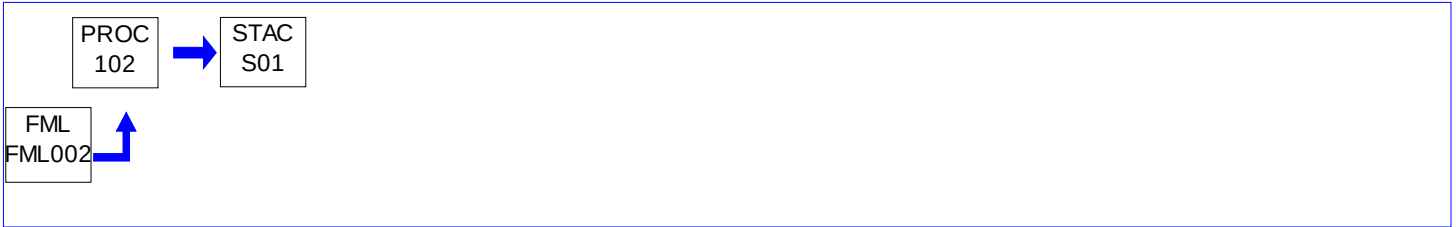
**SECTION D. Source Level Requirements**

Source ID: 102

Source Name: EMERGENCY GENERATOR (102 HP)

Source Capacity/Throughput:

Conditions for this source occur in the following groups: EMERGENCY GENERATOR ENGINES

**I. RESTRICTIONS.**

No additional 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).

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.

No additional monitoring 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).

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) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting 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).

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.

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This generator is rated at 102 hp and is a Kohler Model 80,

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

**SECTION D. Source Level Requirements**

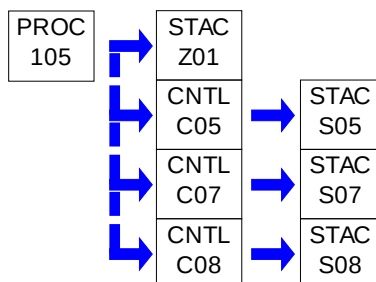
Source ID: 105

Source Name: MSW LANDFILL (NORTH, SOUTH CELL & WILLA EXPANSION)

Source Capacity/Throughput:

N/A

700 TONS/DAY

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

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 63.1959(b), 63.1959(b)(2), 63.1959(b)(2)(ii), and 63.1958(a)]

(a) The collection and control system as described in the approved Landfill Gas Collection and Control System (GCCS) Plan (design plan) shall meet the requirements of paragraphs (b) and (c) of this condition.

(i) Operation of the landfill shall conform to the provisions of 40 C.F.R. Part 63, Subpart AAAA or the collection and control system design plan shall include any alternatives to the operational standards, test methods, procedures, compliance measures, monitoring, recordkeeping or reporting provisions of 40 C.F.R. Part 63, Subpart AAAA proposed by the owner or operator.

(ii) The collection and control system design plan shall either conform with specifications for active collection systems in 40 C.F.R. § 63.1962 or include a demonstration to the Department's satisfaction of the sufficiency of the alternative provisions to 40 C.F.R. § 63.1962.

(iii) The Department shall review the information submitted under paragraphs (a)(i), (a)(ii), and (b) and (c) of this condition and either approve it, disapprove it, or request that additional information be submitted. Because of the many site-specific factors involved with landfill gas system design, alternative systems may be necessary. A wide variety of system designs are possible, such as vertical wells, combination horizontal and vertical collection systems, or horizontal trenches only, leachate collection components, and passive systems.

(b) Maintain the gas collection and control system, in accordance with the design plan.

(c) The gas collection and control system shall:

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

(ii) Operate the collection system such that gas is collected from each area, cell, or group of cells in the MSW landfill in which solid waste has been in place for:

(1) 5 years or more if active; or

(2) 2 years or more if closed or at final grade;

(iii) Collect gas at a sufficient extraction rate;

**SECTION D. Source Level Requirements**

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

(d) The Landfill Gas Collection and Control System Plan is incorporated by reference.

Note: The Department reserves the right to reevaluate the adequacy of the gas collection and control system (GCCS) design plan and any proposed modifications.

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

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 63.1957(a), 63.1958(c)(1)-(2), (g), and 63.1960(a)(4).]

The owner or operator shall:

(a) As specified by 40 C.F.R. § 63.1958(c), operate the collection system such that each interior wellhead in the collection system has a landfill gas temperature less than 62.8°C. However, the permittee may establish a higher operating temperature value at a particular well. A higher operating value demonstration shall show supporting data that the elevated parameter does not cause fires or significantly inhibit anaerobic decomposition by killing methanogens.

The higher operating value (HOV) demonstration shall be submitted to the Department for approval. The owner/operator shall not use the HOV until approval by the Department is received.

(b) If monitoring performed in accordance with Condition # 015 for this source, demonstrates that a well exceeds the operating parameter set forth in paragraph (a) of this condition, action shall be initiated to correct the exceedance within 5 calendar days. If correction of the exceedance cannot be achieved within 15 calendar days of the first measurement the owner or operator must conduct a root cause analysis and correct the exceedance as soon as practicable, but no later than 60 days after a landfill gas temperature greater than 62.8°C was first measured. If corrective actions cannot be fully implemented within 60 days following the temperature measurement for which the root cause analysis was required, the owner or operator must also conduct a corrective action analysis and develop an implementation schedule to complete the corrective action(s) as soon as practicable, but no more than 120 days following the measurement of landfill gas temperature greater than 62.8°C. If corrective action is expected to take longer than 120 days to complete after the initial exceedance, the owner or operator must submit the root cause analysis, corrective action analysis, and corresponding implementation timeline to the Administrator, according to 40 C.F.R. §§ 63.1981(h)(7) and (j).

If a landfill gas temperature measured at either the wellhead or at any point in the well is greater than or equal to 76.7 °C and the carbon monoxide concentration measured, according to the procedures in 40 C.F.R. § 63.1961(a)(5)(vi) is greater than or equal to 1,000 ppmv the corrective action(s) for the wellhead temperature standard (62.8 °C) must be completed within 15 days.

An alternative timeline for correcting the exceedance may be submitted in writing to the Department for approval. Any attempted corrective measure shall not cause exceedances of other operational or performance standards.

(c) If corrective actions are taken pursuant to paragraph (b) of this condition the monitored exceedance is not a violation of the operational requirements in paragraph (a) of this condition.

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

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 63.1958(d)(1) through (2) and 63.1960(c)(4)(i) through (v)].

The owner or operator shall:

(a) As specified by 40 C.F.R. § 63.1958(d), operate the collection system such that the methane concentration at the surface

**SECTION D. Source Level Requirements**

of the landfill is less than 500 parts per million above background at the surface of the landfill.

(b) To determine if this level is exceeded, the permittee shall conduct monitoring according to the procedures indicated in 40 C.F.R. § 63.1958(d) [Condition #013].

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

(i) The location of each monitored exceedance must be marked and the location and concentration recorded. The location must be recorded using an instrument with an accuracy of at least 4 meters. The coordinates must be in decimal degrees with at least five decimal places.

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

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

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

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

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

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 63.1957(a), 63.1958(b)(1)-(3) and 63.1960(a)(3)]

The owner or operator shall:

(a) As specified by 40 C.F.R. § 63.1958(b), operate the gas collection and control system with negative pressure at each wellhead, except under the following conditions.

(i) When a fire or increased well temperature is detected. The permittee shall record instances when positive pressure occurs in efforts to avoid fire and submit the records with the report specified by Condition #018.

(ii) When a geomembrane or synthetic cover is used. The permittee shall develop acceptable pressure limits in the design plan.

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

(b) If the monitoring performed as indicated by Condition #014 demonstrates that a positive pressure exists and none of the exceptions provided by paragraph (a)(i)-(iii) applies, action shall be initiated to correct the exceedance within five calendar days.

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(i) If a negative pressure cannot be achieved without excess air infiltration within 15 calendar days of the first positive measurement the permittee shall conduct a root cause analysis and correct the exceedance as soon as practicable, but no later than 60 days after positive pressure was first measured.

(ii) If corrective actions cannot be fully implemented within 60 days following the positive pressure measurement for which the root cause analysis was required, the permittee shall also conduct a corrective action analysis and develop an implementation schedule to complete the corrective action(s) as soon as practicable, but no more than 120 days following the positive pressure measurement.

(iii) If corrective action is not completed within 60 days after the initial exceedance, the permittee shall submit a notification to the Department as soon as practicable but no later than 75 days after the first measurement of positive pressure according to 40 C.F.R. § 63.1981(j)(1). If corrective action is expected to take longer than 120 days to complete after the initial exceedance, the permittee shall submit the root cause analysis, corrective action analysis, and corresponding implementation timeline to the Department, according to 40 C.F.R. § 63.1981(j)(2).

An alternative timeline for correcting the exceedance may be submitted in writing to the Department for approval. Any attempted corrective measure shall not cause exceedances of other operational or performance standards.

(c) Notwithstanding the provisions of paragraph (b) above, the permittee is not required to install additional wells, during the first 180 days after gas collection system start-up.

(d) If corrective actions are taken pursuant to paragraph (b) of this condition, the monitored exceedance is not a violation of the operational requirements in paragraph (a) of this condition.

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

Fugitive emissions of volatile organic compounds (VOC) from the North, South Cells and the Willa Expansion of the landfill shall be limited to 2.97 tons per year before closure and 1.98 tons per year after closure, both as a 12-month rolling sum.

Throughput Restriction(s).**# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The maximum amount of solid waste disposal in the entire SECCRA landfill, including the North, South cells and the Willa Expansion shall be limited to 700 tons of municipal solid waste (MSW) on any one day.

(b) The design capacity of the Willa Expansion shall not exceed 1,800,000 tons (3,000,000 cubic yards) of MSW.

(c) The total capacity of the North Cell, South Cell and Willa Expansion shall not exceed 4,046,364 tons (7,264,184 cubic yards).

(d) If the solid waste permit is modified to increase the amount of permitted waste that can be placed in either the North or South cells or the Willa expansion either an Air Quality Request for Determination (RFD) or a new Air Quality Plan Approval shall be obtained from the Department prior to increasing the landfill waste volume.

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

[Additional authority for this condition is derived from 40 C.F.R. §§ 61.140 and 61.154]

The owner/operator shall not receive any asbestos-containing material (ACM) waste from a source covered under 40 C.F.R. §§ 61.149, 61.150, or 61.155 without a 7-day prior initial notice to the Department of the intent to begin accepting ACM regulated waste under Subpart M and receipt of Department approval. Any acceptance of asbestos containing material shall be in compliance with the owner/operator's solid waste permit.

After timely notice to and approval by the Department, the owner/operator will comply with all applicable requirements of 40

**SECTION D. Source Level Requirements**

C.F.R. § 61.154, Standard for active waste disposal sites, for the disposal of any ACM waste accepted for disposal at the landfill site.

Control Device Efficiency Restriction(s).**# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

- (a) The permittee shall install a landfill gas collection system for each cell, group of cells, or area, within 24 months from the start of the placement of waste in the cell. The landfill gas collection system may initially be an interim system. The landfill gas collected during the interim period shall be delivered to either of two engines, Source IDs C05 and C08 or to the enclosed flare, Source ID C07.
- (b) The interim landfill gas collection period shall not exceed 5 years. The permanent landfill gas collection system shall be in place within 5 years of initial solid waste placement in a cell or group of cells.
- (c) Both interim and permanent landfill gas collection systems shall include the gas collection system, cell or group of cells and shall be sized such that it can handle the maximum expected gas flow rate from the entire SECCRA landfill, including the North and South cells and the Willa expansion.
- (d) Both interim and permanent landfill gas collection systems shall be designed to minimize off-site migration of the landfill gas.
- (e) The permanent landfill gas management system shall have a minimum collection efficiency of 75% before closure and 90% after closure.

009 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

- (a) The owner/operator shall route all landfill gas collected from the entire SECCRA landfill, including the North and South cells and the Willa expansion, to a control system comprising any combination of two engines, Source IDs C05 or C08 or the enclosed flare, Source ID C07.
- (b) The owner/operator shall operate the control system at all times when the collected gas is routed to the system.

010 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 C.F.R. §§ 63.1958(e)(1) and (f).]

The owner or operator shall:

- (a) Operate the system in accordance to 40 C.F.R. § 63.1955(c) such that all collected gases are vented to a control system designed and operated in compliance with 40 C.F.R. § 63.1959(b)(2)(iii) [Condition #001]. In the event the collection or control system is not operating:
- (i) The gas mover system must be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere must be closed within 1 hour of the collection or control system not operating; and
- (ii) Efforts to repair the collection or control system must be initiated and completed in a manner such that downtime is kept to a minimum, and the collection and control system must be returned to operation.
- (b) Operate the control system at all times when the collected gas is routed to the system.

**SECTION D. Source Level Requirements****II. TESTING REQUIREMENTS.**

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

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

(a) Within 5 years from the last determination, the owner/operator shall make a demonstration of the site specific VOC concentration as a percent composition of the NMOC content of uncombusted landfill gas. This demonstration shall be made using U.S. EPA Test Method TO-14 or TO-15, or an equivalent test method proposed by the owner/operator and approved by the Department, to determine the VOC content of the landfill gas.

(b) The NMOC concentration of the landfill gas shall be determined using U.S. EPA Test Method 25 or 25C of appendix A-7 to part 60 in accordance with the requirements of Part 63, Subpart AAAA, § 63.1959 (NMOC calculation procedures).

(c) A copy of the report, containing the results of the NMOC/VOC determination, shall be submitted to the Air Quality Program Manager within 90 days of completion of gas sample collection.

(d) Except as provided below in paragraphs (i) - (iii), the owner/operator shall use the following parameters in calculating the NMOC and VOC emission rate: methane generation rate constant, k, equal to 0.045/year; and methane generation potential Lo, equal to 115 m³/Mg (Mega gram) of solid waste.

(i) The owner/operator shall annually reevaluate the k and Lo values listed above. The owner/operator shall submit the results of the reevaluation to the Department. If such reevaluation demonstrates a k or Lo value different than that listed above, then the owner/operator shall provide a notification to the Department of the owner/operator's intent to use such k or Lo value. The notification shall include a discussion of the basis for use of such k and Lo value. Within thirty (30) days of its receipt of the notification, the Department may provide to the owner/operator a written determination, and basis for such determination, rejecting the permittee's use of such alternative parameter.

(ii) In the event that the owner/operator derives additional data that demonstrates that values different than those listed above should be used, or otherwise intends to use a value other than the values listed above (such as the value for the parameter published in the most recent Compilation of Air Pollutant Emission Factors (AP-42)) in the calculation of the annual VOC emission rate, then the owner/operator shall provide a notification to the Department of the owner/operator's intent to use such alternative parameter. The notification shall include a discussion of the bases for use of such alternative parameter. Within thirty (30) days of its receipt of the notification, the Department may provide to the owner/operator a written determination, and basis for such determination, rejecting the owner/operator's use of such alternative parameter.

(iii) Notwithstanding the Department's failure to object within 30 days of notification to the owner/operator's use of an alternative parameter pursuant to paragraphs (a) or (b), the Department reserves the right to reevaluate such parameters and to reject the owner/operator's continued use of such alternative parameter.

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

[Additional authority for this condition is derived from 40 C.F.R. § 63.1960(c)(5)].

The owner or operator shall:

As specified by 40 C.F.R. § 63.1960(c)(5),

On a monthly basis, implement a program to monitor for cover integrity and implement cover repairs as necessary.

**SECTION D. Source Level Requirements****# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR §§ 63.1960(c) and (d), 63.1958(d) and 63.1961(f)].

The owner or operator shall:

(a) On a quarterly basis, monitor the surface concentrations of methane along the entire perimeter of the collection area and along a pattern that traverses the landfill at no more than 30-meter intervals and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover. The owner/operator may establish an alternative traversing pattern that ensures equivalent coverage. The owner/operator shall maintain a surface monitoring design plan that includes a topographic map with the monitoring route and the rationale for any site-specific deviations from the 30-meter intervals. Areas with steep slopes or other dangerous areas may be excluded from the surface testing.

(b) In performing the surface monitoring, use an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the following specifications and procedures:

(i) The portable analyzer shall meet the instrument specifications provided in section 6 of EPA Method 21 of appendix A of part 60 of this chapter, except that "methane" replaces all references to "VOC".

(ii) The calibration gas shall be methane, diluted to a nominal concentration of 500 parts per million in air.

(iii) To meet the performance evaluation requirements in section 8.1 of EPA Method 21 of appendix A of part 60 of this chapter, the instrument evaluation procedures of section 8.1 of EPA Method 21 of appendix A of part 60 shall be used.

(iv) The calibration procedures provided in sections 8 and 10 of EPA Method 21 of appendix A of part 60 shall be followed immediately before commencing a surface monitoring survey.

(c) Determine the background concentration by moving the probe inlet upwind and downwind outside the boundary of the landfill at a distance of at least 30 meters from the perimeter wells.

(d) Perform surface emissions monitoring in accordance with section 8.3.1 of EPA Method 21 of appendix A–7 of part 60, except that the probe inlet shall be placed within 5 to 10 centimeters of the ground. Monitoring must be performed during typical meteorological conditions.

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

014 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 C.F.R. §§ 63.1960(a)(3) and 63.1961(a)(1)]

The owner or operator shall:

On a monthly basis, measure the gauge pressure in the gas collection header at each well as provided in 40 C.F.R. § 63.1960(a)(3).

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

[Additional authority for this condition is also derived from 40 C.F.R. §§ 63.1961(a), (a)(4) and 63.1960(a)(4).]

The owner or operator shall:

**SECTION D. Source Level Requirements**

Monitor the temperature of the wellhead, monthly, using a sampling port and a thermometer, other temperature measuring device, or an access port for temperature measurements installed at each wellhead to determine compliance with the operating parameters indicated in Condition #002(a). The temperature measuring device must be calibrated annually using the procedure in Section 10.3 of EPA Method 2 of appendix A–1 to part 60 of this chapter.

016 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 C.F.R. § 63.1961(a)(2)]

The owner or operator shall:

On a monthly basis, monitor the nitrogen or oxygen concentration in the landfill gas at each well.

(i) The nitrogen level shall be determined using EPA Method 3C of Appendix A–2 to 40 C.F.R. Part 60, unless an alternative test method is established as allowed by 40 C.F.R. § 63.1981(d)(2).

(ii) Unless an alternative test method is established as allowed by 40 C.F.R. § 63.1981(d)(2), the oxygen level must be determined by an oxygen meter using EPA Method 3A or 3C of Appendix A–2 to 40 C.F.R. Part 60 or ASTM D6522–11 (incorporated by reference, see 40 C.F.R. § 63.14). Determine the oxygen level by an oxygen meter using EPA Method 3A or 3C of Appendix A–2 to 40 C.F.R. Part 60 or ASTM D6522–11 (if sample location is prior to combustion) except that:

- (A) The span must be set between 10- and 12-percent oxygen;
- (B) A data recorder is not required;
- (C) Only two calibration gases are required, a zero and span;
- (D) A calibration error check is not required; and
- (E) The allowable sample bias, zero drift, and calibration drift are ± 10 percent.

(iii) A portable gas composition analyzer may be used to monitor the oxygen levels provided:

- (A) The analyzer is calibrated; and
- (B) The analyzer meets all quality assurance and quality control requirements for EPA Method 3A of Appendix A–2 to 40 C.F.R. Part 60 or ASTM D6522–11 (incorporated by reference, see 40 C.F.R. § 63.14).

017 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 C.F.R. §§ 63.1961(a)(5) and (6)]

(a) Where an owner or operator subject to the provisions of this subpart seeks to demonstrate compliance with the operational standard for temperature in 40 C.F.R. § 63.1958(c)(1), unless a higher operating temperature value has been approved by the Administrator under 40 C.F.R. Part 63, Subpart AAAA or under 40 C.F.R. Part 60, Subpart WWW; 40 C.F.R. Part 60, Subpart XXX; or a federal plan or EPA-approved and effective state plan or tribal plan that implements either 40 CFR Part 60, Subpart Cc or 40 CFR Part 60, Subpart Cf, you shall initiate enhanced monitoring at each well with a measurement of landfill gas temperature greater than 62.8 degrees Celsius (145 degrees Fahrenheit) as follows:

(i) Visual observations for subsurface oxidation events (smoke, smoldering ash, damage to well) within the radius of influence of the well.

(ii) Monitor oxygen concentration as provided in 40 C.F.R. § 63.1961(a)(2).

(iii) Monitor temperature of the landfill gas at the wellhead as provided in 40 C.F.R. § 63.1961(a)(4).

(iv) Monitor temperature of the landfill gas every 10 vertical feet of the well as provided in 40 C.F.R. § 63.1961(a)(6).

(v) Monitor the methane concentration with a methane meter using EPA Method 3C of appendix A–6 to part 60, EPA Method 18 of appendix A–6 to part 60 of this chapter, or a portable gas composition analyzer to monitor the methane levels provided

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that the analyzer is calibrated and the analyzer meets all quality assurance and quality control requirements for EPA Method 3C or EPA Method 18.

(vi) Monitor and determine carbon monoxide concentrations, as follows:

- (A) Collect the sample from the wellhead sampling port in a passivated canister or multi-layer foil gas sampling bag (such as the Cali-5-Bond Bag) and analyze that sample using EPA Method 10 of appendix A-4 to part 60 of this chapter, or an equivalent method with a detection limit of at least 100 ppmv of carbon monoxide in high concentrations of methane; or
- (B) Collect and analyze the sample from the wellhead using EPA Method 10 of appendix A-4 to part 60 to measure carbon monoxide concentrations.
- (C) When sampling directly from the wellhead, you shall sample for 5 minutes plus twice the response time of the analyzer. These values must be recorded. The five 1-minute averages are then averaged to give you the carbon monoxide reading at the wellhead.
- (D) When collecting samples in a passivated canister or multi-layer foil sampling bag, you must sample for the period of time needed to assure that enough sample is collected to provide five (5) consecutive, 1-minute samples during the analysis of the canister or bag contents, but no less than 5 minutes plus twice the response time of the analyzer. The five (5) consecutive, 1-minute averages are then averaged together to give you a carbon monoxide value from the wellhead.

(vii) The enhanced monitoring described in 40 C.F.R. § 63.1961(a)(5) shall begin 7 calendar days after the first measurement of landfill gas temperature greater than 62.8 degrees Celsius (145 degrees Fahrenheit); and

(viii) The enhanced monitoring in 40 C.F.R. § 63.1961(a)(5) shall be conducted on a weekly basis. If four consecutive weekly carbon monoxide readings are under 100 ppmv, then enhanced monitoring may be decreased to monthly. However, if carbon monoxide readings exceed 100 ppmv again, the landfill must return to weekly monitoring.

(ix) The enhanced monitoring in 40 C.F.R. § 63.1961(a)(5) can be stopped once a higher operating value is approved, at which time the monitoring provisions issued with the higher operating value should be followed, or once the measurement of landfill gas temperature at the wellhead is less than or equal to 62.8 degrees Celsius (145 degrees Fahrenheit).

(b) For each wellhead with a measurement of landfill gas temperature greater than or equal to 73.9 degrees Celsius (165 degrees Fahrenheit), annually monitor temperature of the landfill gas every 10 vertical feet of the well. This temperature can be monitored either with a removable thermometer or using temporary or permanent thermocouples installed in the well.

IV. RECORDKEEPING REQUIREMENTS.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR §§ 63.1983(a), (b)(1)(i)-(ii), (d)(1)-(2) and 63.1983(e)(1)-(5).]

The owner/operator shall

In accordance with 40 C.F.R. § 63.1983(a),

(a) Keep for at least 5 years, up-to-date, readily accessible, on-site records of the design capacity report which triggered 40 C.F.R. § 63.1959(b), current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable.

(b) As specified by 40 C.F.R. § 63.1983(b),

Except as provided in 40 C.F.R. § 63.1981(d)(2), keep up-to-date, readily accessible records for the life of the control system equipment of the data listed below, as measured during the initial performance test or compliance determination. Records of subsequent tests or monitoring must be maintained for a minimum of 5 years. Records of the control device vendor specifications must be maintained until removal.

(i) The maximum expected gas generation flow rate as calculated in 40 C.F.R. § 63.1960(a)(1) [Condition #021].

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(ii) The density of wells, horizontal collectors, surface collectors, or other gas extraction devices determined using the procedures specified in 40 C.F.R. § 63.1962(a)(1).

(c) As specified by 40 C.F.R. § 63.1983(d),

The permittee shall keep for the life of the collection system an up-to-date, readily accessible plot map showing each existing and planned collector in the system and providing a unique identification location label for each collector. The permittee shall also keep:

(i) up-to-date, readily accessible records of the installation date and location of all newly installed collectors; and

(ii) readily accessible documentation of the nature, date of deposition, amount, and location of asbestos-containing or nondegradable waste excluded from collection as provided in 40 C.F.R. § 63.1962(a)(3)(i) as well as any nonproductive areas excluded from collection as provided in § 63.1962(a)(3)(ii).

(d) As specified by 40 C.F.R. § 63.1983(e),

Except as provided in 40 C.F.R. § 63.1981(d)(2), keep, for at least 5 years up-to-date, readily accessible records of the following:

(1) All collection and control system exceedances of the operational standards in 40 C.F.R. § 63.1958 [Conditions #001 through #004], the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance.

(2) Each owner or operator subject to the provisions of this subpart demonstrating compliance with the compliance provisions for wellhead temperature in 40 C.F.R. § 63.1958(c)(1), the records of each wellhead temperature monitoring value of 62.8°C or above instead of values greater than 55°C.

(i) Each owner or operator required to conduct the enhanced monitoring provisions in 40 C.F.R. § 63.1961(a)(5), must also keep records of all enhanced monitoring activities.

(ii) Each owner or operator required to submit the 24-hour high temperature report in 40 C.F.R. § 63.1981(k), must also keep a record of the email transmission.

(3) For any root cause analysis for which corrective actions are required in 40 C.F.R. § 63.1960(a)(3)(i)(A) or (a)(4)(i)(A), keep a record of the root cause analysis conducted, including a description of the recommended corrective action(s) taken, and the date(s) the corrective action(s) were completed.

(4) For any root cause analysis for which corrective actions are required in 40 C.F.R. § 63.1960(a)(3)(i)(B) or (a)(4)(i)(B), keep a record of the root cause analysis conducted, the corrective action analysis, the date for corrective action(s) already completed following the positive pressure reading or high temperature reading, and, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates.

(5) For any root cause analysis for which corrective actions are required in 40 C.F.R. § 63.1960(a)(3)(i)(C) or (a)(4)(i)(C), keep a record of the root cause analysis conducted, the corrective action analysis, the date for corrective action(s) already completed following the positive pressure reading or high temperature reading, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates, and a copy of any comments or final approval on the corrective action analysis or schedule from the Administrator.

V. REPORTING REQUIREMENTS.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 63.1981(f) and 63.9(b)]

(a) The owner/operator shall submit a closure report to the Department within 30 days of waste acceptance cessation. The

**SECTION D. Source Level Requirements**

Department may request additional information as may be necessary to verify that permanent closure has taken place. If a closure report has been submitted to the Department, no additional wastes may be placed into the landfill without written notification and approval by the Department.

(b) A report in this case shall also be provided to the EPA. No additional wastes may be placed into the landfill without filing a notification of modification as described in 40 C.F.R. § 63.9(b).

020 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 63.1981(h).]

The owner or operator shall:

Submit a report to the Department, every 6-months containing the following recorded information:

(a) Number of times that applicable parameters monitored under 40 C.F.R. §§ 63.1958(b), (c), and (d) were exceeded and when the gas collection and control system was not operating under 40 C.F.R. § 63.1958(e), including periods of SSM. For each instance, report the date, time, and duration of each exceedance.

(i) Provide a statement of the wellhead operational standard for temperature and oxygen you are complying with for the period covered by the report. Indicate the number of times each of those parameters monitored under 40 C.F.R. § 63.1961(a)(4) were exceeded. For each instance, report the date, time, and duration of each exceedance.

(ii) Number of times the parameters for the site-specific treatment system in 40 C.F.R. § 63.1961(g) were exceeded.

(b) Description and duration of all periods when the gas stream was diverted from the control devices through a bypass line or the indication of bypass flow as specified under 40 C.F.R. § 63.1961(g).

(c) Description and duration of all periods when the control devices were not operating and length of time the control devices were not operating.

(d) All periods when the collection system was not operating.

(e) The location of each exceedance of the 500 ppm methane concentration, monitored according to the procedures in 40 C.F.R. § 63.1958(d) [Condition #013] at the surface of the landfill and the concentration recorded at each location for which an exceedance was recorded in the previous month, pursuant to Condition #003.

(f) The date of installation and the location of each well or collection system expansion added pursuant to 40 C.F.R. §§ 63.1960(a)(3) and (4), (b), and (c)(4).

(g) For any corrective action analysis for which corrective actions are required in 40 C.F.R. § 63.1960(a)(3)(i) or (a)(5) and that take more than 60 days to correct the exceedance, the root cause analysis conducted, including a description of the recommended corrective action(s), the date for corrective action(s) already completed following the positive pressure or high temperature reading, and, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates.

(h) Each owner or operator required to conduct enhanced monitoring in 40 C.F.R. §§ 63.1961(a)(5) and (6) must include the results of all monitoring activities conducted during the period.

(i) For each monitoring point, report the date, time, and well identifier along with the value and units of measure for oxygen, temperature (wellhead and downwell), methane, and carbon monoxide.

(ii) Include a summary trend analysis for each well subject to the enhanced monitoring requirements to chart the weekly readings over time for oxygen, wellhead temperature, methane, and weekly or monthly readings over time, as applicable for

**SECTION D. Source Level Requirements**

carbon monoxide.

(iii) Include the date, time, staff person name, and description of findings for each visual observation for subsurface oxidation event.

021 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 63.1981(g)]

Equipment removal report. Each owner or operator of a controlled landfill must submit an equipment removal report as provided in 40 C.F.R. § 60.757(e). Each owner or operator of a controlled landfill must submit an equipment removal report to the Administrator 30 days prior to removal or cessation of operation of the control equipment.

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

(i) A copy of the closure report submitted in accordance with 40 C.F.R. § 63.1981(f) [Condition #017];

(ii) A copy of the initial performance test report demonstrating that the 15-year minimum control period has expired, or information that demonstrates that the gas collection and control system will be unable to operate for 15 years due to declining gas flows. In the equipment removal report, the process unit(s) tested, the pollutant(s) tested, and the date that such performance test was conducted may be submitted in lieu of the performance test report if the report has been previously submitted to the EPA's Central Data Exchange (CDX); and

(iii) Dated copies of three successive NMOC emission rate reports demonstrating that the landfill is no longer producing 50 Mg or greater of NMOC per year. If the NMOC emission rate reports have been previously submitted to the EPA's CDX, a statement that the NMOC emission rate reports have been submitted electronically and the dates that the reports were submitted to the EPA's CDX may be submitted in the equipment removal report in lieu of the NMOC emission rate reports.

(2) The Administrator may request such additional information as may be necessary to verify that all of the conditions for removal in 40 C.F.R. § 63.1957(b) have been met.

022 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 C.F.R. § 62.16724(l).]

The owner or operator of a designated facility with a design capacity equal to or greater than 2.5 million megagrams and 2.5 million cubic meters that has employed leachate recirculation or added liquids based on a Research, Development, and Demonstration permit (issued through Resource Conservation and Recovery Act (RCRA), subtitle D, part 258) within the last 10 years shall submit to the Administrator, annually, following the procedure specified in 40 C.F.R. § 62.16724(j)(2), the following information:

(1) Volume of leachate recirculated (gallons per year) and the reported basis of those estimates (records or engineering estimates).

(2) Total volume of all other liquids added (gallons per year) and the reported basis of those estimates (records or engineering estimates).

(3) Surface area (acres) over which the leachate is recirculated (or otherwise applied).

(4) Surface area (acres) over which any other liquids are applied.

(5) The total waste disposed (megagrams) in the areas with recirculated leachate and/or added liquids based on on-site records to the extent data are available, or engineering estimates and the reported basis of those estimates.

(6) The annual waste acceptance rates (megagrams per year) in the areas with recirculated leachate and/or added liquids, based on on-site records to the extent data are available, or engineering estimates.

**SECTION D. Source Level Requirements**

(7) The initial report must contain items in paragraph (1) through (6) of this section per year for the most recent 365 days as well as for each of the previous 10 years, to the extent historical data are available in on-site records, and the report must be submitted no later than June 21, 2022.

(8) Subsequent annual reports must contain items in paragraph (1) through (6) of this section for the 365-day period following the 365-day period included in the previous annual report, and the report must be submitted no later than 365 days after the date the previous report was submitted.

(9) Landfills in the closed landfill subcategory are exempt from reporting requirements contained in paragraphs (1) through (7) of this section.

(10) Landfills may cease annual reporting of items in paragraphs (1) through (6) of this section once they have submitted the closure report in 40 C.F.R. § 62.16724(f).

VI. WORK PRACTICE REQUIREMENTS.**# 023 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall install, operate and maintain a landfill collection and control system for Source ID 105 including the North, South cells and the Willa expansion.

The capture efficiency of the landfill gas collection system shall be at the minimum 75% before closure and at the minimum 90% after closure.

024 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 63.1960(a)(1) and (2).]

The owner/operator shall

(a) As specified by 40 C.F.R. § 63.1960(a)(1),

(i) For the purposes of calculating the maximum expected gas generation flow rate from the landfill to determine compliance with 40 C.F.R. § 63.1959(b)(2)(ii)(C)(1), either Equation 5 or Equation 6 must be used. The owner or operator may use another method to determine the maximum gas generation flow rate, if the method has been approved by the Administrator. The methane generation rate constant (k) and methane generation potential (Lo) kinetic factors should be those published in the most recent Compilation of Air Pollutant Emission Factors (AP-42) or other site-specific values demonstrated to be appropriate and approved by the Administrator. If k has been determined as specified in 40 C.F.R. § 63.1959(a)(4), the value of k determined from the test must be used. A value of no more than 15 years must be used for the intended use period of the gas mover equipment. The active life of the landfill is the age of the landfill plus the estimated number of years until closure.

(ii) If a collection and control system has been installed, actual flow data may be used to project the maximum expected gas generation flow rate instead of, or in conjunction with, Equation 5 or Equation 6 in paragraphs (a)(1)(i) and (ii) of this section. If the landfill is still accepting waste, the actual measured flow data will not equal the maximum expected gas generation rate, so calculations using Equation 5 or Equation 6 in paragraph (a)(1)(i) or (ii) of this section or other methods must be used to predict the maximum expected gas generation rate over the intended period of use of the gas control system equipment.

(b) As specified by 40 C.F.R. § 63.1960(a)(2),

For the purposes of determining sufficient density of gas collectors for compliance with 40 C.F.R. § 63.1959(b)(2)(ii)(B)(2) [Conditions #001(b) and (c)], the owner or operator must design a system of vertical wells, horizontal collectors, or other collection devices, satisfactory to the Administrator, capable of controlling and extracting gas from all portions of the landfill sufficient to meet all operational and performance standards.

**SECTION D. Source Level Requirements**

The Administrator shall approve any alternate calculation methods.

025 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 C.F.R. § 63.1962].

(a) Each owner or operator of a landfill gas collection and control system used to comply with Condition #001 for this source, shall site active collection wells, horizontal collectors, surface collectors, or other extraction devices at a sufficient density throughout all gas producing areas using the following procedures unless alternative procedures have been approved by the Department as provided in Condition #001(a):

(i) The collection devices within the interior and along the perimeter areas shall be certified to achieve comprehensive control of surface gas emissions by a professional engineer. The following issues shall be addressed in the design: depths of refuse, refuse gas generation rates and flow characteristics, cover properties, gas system expandability, leachate and condensate management, accessibility, compatibility with filling operations, integration with closure end use, air intrusion control, corrosion resistance, fill settlement, resistance to the refuse decomposition heat, and ability to isolate individual components or sections for repair or troubleshooting without shutting down entire collection system.

(ii) The sufficient density of gas collection devices determined in paragraph (a)(i) of this condition shall address landfill gas migration issues and augmentation of the collection system through the use of active or passive systems at the landfill perimeter or exterior.

(iii) The placement of gas collection devices determined in paragraph (a)(i) of this section shall control all gas producing areas, except as provided by paragraphs (a)(iii)(1) and (a)(iii)(2) of this condition.

(1) Any segregated area of non-degradable material may be excluded from collection if documented as provided under Condition #016(c)(ii). The documentation shall provide the nature, date of deposition, location and amount of nondegradable material deposited in the area, and shall be provided to the Department upon request.

(2) Any nonproductive area of the landfill may be excluded from control, provided that the total of all excluded areas can be shown to contribute less than 1 percent of the total amount of NMOC emissions from the landfill. The amount, location, and age of the material shall be documented and provided to the Department upon request. A separate NMOC emissions estimate shall be made for each section proposed for exclusion, and the sum of all such sections shall be compared to the NMOC emissions estimate for the entire landfill. Emissions from each section shall be computed using the following equation, as given in 40 C.F.R. § 63.1962(a)(3)(ii)(A):

$$Q_i = 2 k L_o M_i (\exp(-k t_i)) (C\text{-NMOC}) (3.6 \times 10^{-9})$$

where,

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

k = methane generation rate constant, year⁻¹

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

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

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

C-NMOC = concentration of non-methane organic compounds, parts per million by volume

3.6×10^{-9} = conversion factor

If the owner/operator is proposing to exclude, or cease gas collection and control from, nonproductive physically separated (e.g., separately lined) closed areas that already have gas collection systems, NMOC emissions from each physically separated closed area must be computed using either Equation 3 in 40 C.F.R. § 63.1959(c) or Equation 7 in 40 C.F.R. § 63.1962(a)(3)(ii)(A).

(3) The values for k and C-NMOC determined in field testing shall be used, if field testing has been performed in

**SECTION D. Source Level Requirements**

determining the NMOC emission rate or the radii of influence. If field testing has not been performed, the default values for k, Lo and C-NMOC provided in 40 C.F.R. § 63.1959(a)(1) or the alternative values from 40 C.F.R. § 63.1959(a)(5) shall be used. The mass of non-degradable solid waste contained within the given section may be subtracted from the total mass of the section when estimating emissions provided the nature, location, age, and amount of the non-degradable material is documented as provided in paragraph (a)(iii)(1) of this condition.

(b) Each owner or operator of a landfill collection and control system used to comply with Condition #001 for this source shall construct the gas collection devices using the following equipment or procedures:

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

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

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

(c) Each owner or operator of a landfill collection and control system used to comply with Condition #001 for this source shall convey the landfill gas to a control system as specified by 40 C.F.R. § 63.1959(b)(2)(iii) through the collection header pipe(s). The gas mover equipment shall be sized to handle the maximum gas generation flow rate expected over the intended use period of the gas moving equipment using the following procedures:

(i) For existing collection systems, the flow data shall be used to project the maximum flow rate. If no flow data exists, the procedures in paragraph (c)(ii) of this condition shall be used.

(ii) For new collection systems, the maximum flow rate shall be as specified by 40 C.F.R. § 63.1960(a)(1).

The Administrator will approve any alternative procedures.

026 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 63.1950 and 63.1957(b).]

(1) The owner/operator of an MSW landfill with a landfill gas collection and control system used to comply with the provisions of 40 C.F.R. § 63.1959(b)(2)(ii), may cap or remove the collection and control system provided that all the conditions of paragraphs (a), (b) and (c) below are met:

(a) The landfill shall be a closed landfill, which is defined by 40 C.F.R. § 63.1990 as a landfill in which solid waste is no longer being placed, and in which no additional solid wastes will be placed without first filing a notification of modification as prescribed under 40 C.F.R. § 63.9. A closure report shall be submitted to the Administrator as provided in 40 C.F.R. § 63.1981(f) [Condition #017].

(b) The collection and control system shall have been in operation a minimum of 15 years or the owner or operator demonstrates that the gas collection and control system will be unable to operate for 15 years due to declining gas flow;

**SECTION D. Source Level Requirements**

and

(c) Following the procedures specified in 40 C.F.R. § 63.1959(c) (Condition #024), the calculated NMOC gas produced by the landfill shall be less than 50 megagrams per year on three successive test dates. The test dates shall be no less than 90 days apart, and no more than 180 days apart.

(2) A landfill gas collection and control system meeting parts (1)(a) through (1)(c) of this condition is no longer subject to the requirements of 40 C.F.R. § 63.1959(b)(2). However, as part of the evaluation of BAT for this source, the Department will approve removal of equipment, as indicated in Condition #027 of this section.

027 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 63.1959(c).]

(1) In accordance with 40 C.F.R. § 63.1959(c),

Calculate the NMOC emission rate for purposes of determining when the collection and control system can be removed as provided in 40 C.F.R. § 63.1957(b)(3), using the following equation:

$$M\text{-NMOC} = 1.89 \times 10^{-3} Q\text{-LFG } C\text{-NMOC}$$

M-NMOC = mass emission rate of NMOC, megagrams per year

Q-LFG = flow rate of landfill gas, cubic meters per minute

C-NMOC = NMOC concentration, parts per million by volume as hexane

(a) The flow rate of landfill gas, Q-LFG, shall be determined by measuring the total landfill gas flow rate at the common header pipe that leads to the control devices using a gas flow measuring device calibrated according to the provision of section 10 of Method 2E of appendix A-1 of 40 C.F.R. Part 60.

(b) The average NMOC concentration, C-NMOC, shall be determined by collecting and analyzing landfill gas sampled from the common header pipe before the gas moving or condensate removal equipment using the procedures in Method 25 or 25C of appendix A-7 to 40 C.F.R. Part 60. The sample location on the common header pipe shall be before any condensate removal or other gas refining units. The permittee shall divide the NMOC concentration from EPA Method 25 or 25C of appendix A-7 to 40 C.F.R. Part 60 by six to convert from C-NMOC as carbon to C-NMOC as hexane.

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

(i) Within 60 days after the date of completing each performance test (as defined in 40 C.F.R. § 63.7), the owner or operator must submit the results of the performance test, including any associated fuel analyses, according to 40 C.F.R. § 63.1981(l)(1).

(2) Paragraphs (1)(a) through (1)(c) of this condition will determine when the landfill gas collection and control system is no longer subject to the requirements of 40 C.F.R. § 63.1959(b)(2). However, as part of the evaluation of BAT for this source, the Department will approve removal of equipment, as indicated in Condition #027 of this section.

028 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 40 C.F.R. § 63.1955(c)]

The owner or operator shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the owner or operator to make any further efforts to reduce emissions if the requirements of this subpart have been achieved. Determination of whether a source is operating in

**SECTION D. Source Level Requirements**

compliance with operation and maintenance requirements will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

VII. ADDITIONAL REQUIREMENTS.**# 029 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 C.F.R. § 63.1960(e)(2).]

The owner or operator shall demonstrate compliance with the operational standard in 40 C.F.R. § 63.1958(e)(1) at all times, including periods of SSM. During periods of SSM, the owner or operator shall comply with the work practice requirement specified in 40 C.F.R. § 63.1958(e) in lieu of the compliance provisions in 40 C.F.R. § 63.1960.

030 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Other than routine maintenance and repair, the owner/operator shall only remove equipment from the landfill gas collection and control system upon approval of the Department. The owner/operator shall provide a description in writing of the equipment proposed to be removed and a sketch, if applicable. The Department shall request additional information as necessary in order to evaluate the proposed equipment removal.

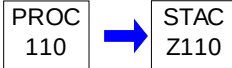
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 110

Source Name: PARTS WASHER

Source Capacity/Throughput:

**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.

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

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.**# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The owner/operator shall monitor and record, on an annual basis, the amount of solvent lost to the atmosphere from this parts washer.

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.**# 002 [25 Pa. Code §129.63]****Degreasing operations**

Cold cleaning machines. Except for those subject to the Federal National emissions standards for hazardous air pollutants (NESHAP) for halogenated solvent cleaners under 40 CFR Part 63 (relating to National emission standards for hazardous air pollutants for source categories), this subsection applies to cold cleaning machines that use 2 gallons or more of solvents containing greater than 5% VOC content by weight for the cleaning of metal parts.

(1) Immersion cold cleaning machines and remote reservoir cold cleaning machines shall:

(i) Have a permanent, conspicuous label summarizing the operating requirements in paragraph (2). In addition, the label shall include the following discretionary good operating practices:

(A) Cleaned parts should be drained at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining. During the draining, tipping or rotating, the parts should be positioned so that solvent drains directly back to the cold cleaning machine.

(B) When a pump-agitated solvent bath is used, the agitator should be operated to produce a rolling motion of the solvent with no observable splashing of the solvent against the tank walls or the parts being cleaned.

(C) Work area fans should be located and positioned so that they do not blow across the opening of the degreaser

**SECTION D. Source Level Requirements**

unit.

(ii) Be equipped with a cover that shall be closed at all times except during cleaning of parts or the addition or removal of solvent. For remote reservoir cold cleaning machines which drain directly into the solvent storage reservoir, a perforated drain with a diameter of not more than 6 inches shall constitute an acceptable cover.

(2) Cold cleaning machines shall be operated in accordance with the following procedures:

(i) Waste solvent shall be collected and stored in closed containers. The closed containers may contain a device that allows pressure relief, but does not allow liquid solvent to drain from the container.

(ii) Flushing of parts using a flexible hose or other flushing device shall be performed only within the cold cleaning machine. The solvent spray shall be a solid fluid stream, not an atomized or shower spray.

(iii) Sponges, fabric, wood, leather, paper products and other absorbent materials may not be cleaned in the cold cleaning machine.

(iv) Air agitated solvent baths may not be used.

(v) Spills during solvent transfer and use of the cold cleaning machine shall be cleaned up immediately.

(3) After December 22, 2002, a person may not use, sell or offer for sale for use in a cold cleaning machine any solvent with a vapor pressure of 1.0 millimeter of mercury (mm Hg) or greater and containing greater than 5% VOC by weight, measured at 20°C (68°F) containing VOCs.

(4) On and after December 22, 2002, a person who sells or offers for sale any solvent containing VOCs for use in a cold cleaning machine shall provide, to the purchaser, the following written information:

(i) The name and address of the solvent supplier.

(ii) The type of solvent including the product or vendor identification number.

(iii) The vapor pressure of the solvent measured in mm hg at 20°C (68°F).

(5) A person who operates a cold cleaning machine shall maintain for at least 2 years and shall provide to the Department, on request, the information specified in paragraph (4). An invoice, bill of sale, certificate that corresponds to a number of sales, Safety Data Sheet (SDS), or other appropriate documentation acceptable to the Department may be used to comply with this section.

(6) Paragraph (3) does not apply:

(i) To cold cleaning machines used in extreme cleaning service.

(ii) If the owner or operator of the cold cleaning machine demonstrates, and the Department approves in writing, that compliance with paragraph (3) will result in unsafe operating conditions.

VII. ADDITIONAL REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This parts washer is a "remote reservoir cold cleaning machine" containing an approximately 10 gallon sink and a 30 gallon drum.

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

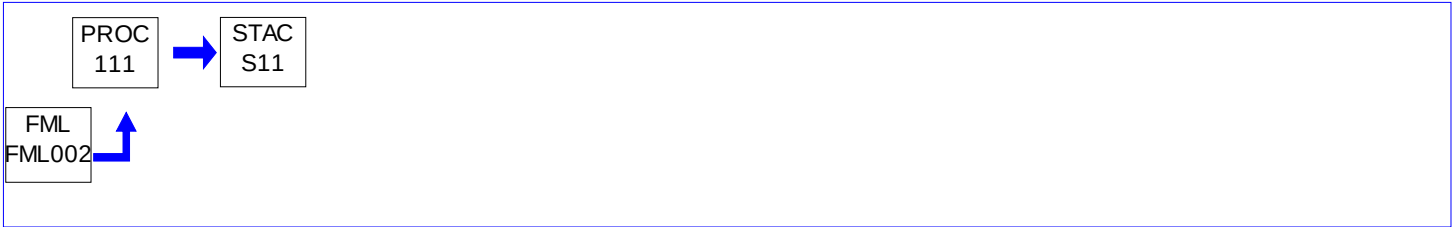
**SECTION D. Source Level Requirements**

Source ID: 111

Source Name: EMERGENCY GENERATOR (335 HP)

Source Capacity/Throughput:

Conditions for this source occur in the following groups: EMERGENCY GENERATOR ENGINES

**I. RESTRICTIONS.**

No additional 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).

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.

No additional monitoring 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).

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) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting 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).

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.

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This generator engine is a Kohler 250REOZV, Model Year 2003.

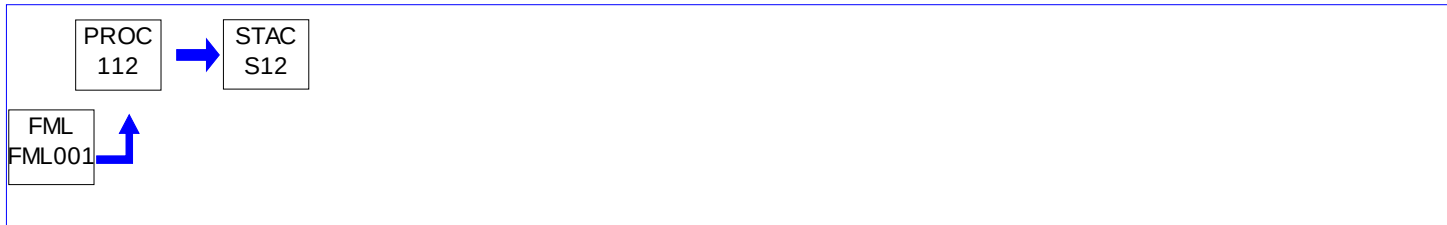
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**SECTION D. Source Level Requirements**

Source ID: 112

Source Name: PROPANE EMERGENCY GENERATOR (134 HP)

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.13]****Processes**

No person may permit the emission into the outdoor atmosphere of particulate matter from this source at any time, in excess of 0.04 gr/dscf, pursuant to 25 Pa. Code § 123.13 (c)(1)(i).

[Use of propane as the fuel assures compliance with this requirement.]

002 [25 Pa. Code §123.21]**General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides from this source in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 ppmvd.

[Use of propane as the fuel assures compliance with this requirement.]

003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

In accordance with 40 C.F.R. § 63.6625(h),

The owner/operator shall minimize an engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.**# 004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

The engine shall be equipped with a non-resettable hour meter.

IV. RECORDKEEPING REQUIREMENTS.**# 005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What records must I keep?**

**SECTION D. Source Level Requirements**

The permittee must keep records of the following:

- (a) hours of operation of the engine recorded through the non-resettable hour meter
- (b) hours of operation of the engine on a daily basis, when operating, and 12-month rolling sum
- (c) hours spent for emergency operation, including what classified the operation as emergency and hours spent for nonemergency operation
- (d) maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE according to your own maintenance plan

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6660]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****In what form and how long must I keep my records?**

- (a) Records must be in a form suitable and readily available for expeditious review according to 40 C.F.R. § 63.10(b)(1).
- (b) As specified in 40 C.F.R. § 63.10(b)(1), the permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
- (c) The permittee must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date.

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.**# 007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6603]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What emission limitations, operating limitations, and other requirements must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?**

In accordance with 40 C.F.R. § 63.6603, the owner/operator shall perform the following maintenance on each engine:

- (a) change the engine oil and filter every 500 hours of operation or within 1 year + 30 days of the previous change, whichever comes first;
- (b) inspect the air cleaner every 1,000 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first; and replace as necessary;
- (c) inspect all hoses and belts every 500 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first, and replace as necessary.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

In accordance with 40 C.F.R. § 63.6625(e)(3),

The owner/operator shall operate and maintain each engine according to manufacturer's emission related written instructions or develop his own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engines in a manner consistent with good air pollution control practices for minimizing emissions.

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**

**SECTION D. Source Level Requirements****What are my monitoring, installation, operation, and maintenance requirements?**

In accordance with 40 C.F.R. § 63.6625(h),

During periods of startup the permittee must minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?**

In accordance with 40 C.F.R. § 63.6640(f),

The owner/operator shall operate each engine according to the requirements in paragraphs (a) through (c) of this condition. In order for the engine to be considered an emergency stationary RICE under 40 CFR Part 63, Subpart ZZZZ, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (a) through (c), is prohibited. If the engine is not operated according to the requirements in paragraphs (a) through (c), the engine will not be considered an emergency engine under 40 CFR Subpart ZZZZ and must meet all requirements for non-emergency engines.

(a) There is no time limit on the use of either engine in emergency situations unless elsewhere specified.

(b) The emergency engine may be operated for any purpose specified in this paragraph for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (c) of this condition counts as part of the 100 hours per calendar year allowed by paragraph (b) of this condition.

The emergency engine may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of the engine beyond 100 hours per year.

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

The Kohler 100RZG (serial number 8.1L—08455) propane-fueled, lean burn engine with maximum power of 134 hp was built in 2004 and installed in April 2022.

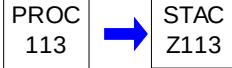
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 113

Source Name: 300-GALLON GASOLINE STORAGE TANK

Source Capacity/Throughput:

**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.

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

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.**# 001 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11116]****Subpart CCCCCC - National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities Requirements for facilities with monthly throughput of less than 10,000 gallons of gasoline.**

In accordance with 40 C.F.R. § 63.11116(b), the permittee shall have records available within 24 hours of a request by the Administrator to document gasoline throughput.

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.**# 002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11116]****Subpart CCCCCC - National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities Requirements for facilities with monthly throughput of less than 10,000 gallons of gasoline.**

In accordance with 40 C.F.R. §§ 63.11116(a)(1)-(4), the permittee shall not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:

- (a) Minimize gasoline spills;
- (b) Clean up spills as expeditiously as practicable;
- (c) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;
- (d) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11116]**Subpart CCCCCC - National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities Requirements for facilities with monthly throughput of less than 10,000 gallons of gasoline.**

In accordance with 40 C.F.R. § 63.11116(d), portable gasoline containers that meet the requirements of 40 C.F.R. Part 59, Subpart F, are considered acceptable for compliance with Condition #002(c) of this section.



SECTION D. Source Level 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 D. Source Level Requirements**

Source ID: C05

Source Name: IC ENGINE/GENERATOR CATERPILLAR G3516LE

Source Capacity/Throughput: 1,148.000 HP-Hr/HR LANDFILL GAS

Conditions for this source occur in the following groups: EMISSION LIMITS ENGINES AND FLARE
SMALL NOX
STACK TESTS

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

- (a) Emissions of oxides of nitrogen (NO_x) shall be limited to 0.7 g/BHP-hr and 7.76 tons per year, calculated as a 12-month rolling sum.
- (b) Emissions of volatile organic compounds (VOC) shall be limited to 0.50 g/BHP-hr and 5.54 tons per year, calculated as a 12-month rolling sum.
- (c) Emissions of carbon monoxide (CO) shall be limited to 3.4 g/BHP-hr and 37.7 tons per year, calculated as a 12-month rolling sum.
- (d) Emissions of sulfur oxides, expressed as SO₂ shall be limited to 500 parts per million by volume, dry basis (ppmvd).

Fuel Restriction(s).**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The IC engine shall be operated only using landfill gas generated in the North, and South Cells and the Willa expansion of the SECCRA Landfill, or other Department approved landfill sources.

Operation Hours Restriction(s).**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

There is no restriction in the operating hours of the IC engine.

Throughput Restriction(s).**# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

- (a) The IC engine shall have a maximum rated capacity of 1,148 BHP.
- (b) The IC engine shall be limited to 7,742 BTU/BHP-hr.
- (c) The IC engine shall be limited to a maximum of 366 SCFM of landfill gas.
- (d) A written request shall be made to the Department if the BTU value of the landfill gas changes to the extent that the volume flow of the landfill gas sent to the IC engine needs to be increased. The volume flow and the BTU content together shall not exceed a heat input rate of 8.9 MMBTU/hr.

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

[Authority for the permit condition is also derived from 40 C.F.R. § 63.1959(b)(2)(iii)(B).]

The IC engine shall have a minimum NMOC destruction efficiency of 98% by weight or the concentration of NMOC in the

**SECTION D. Source Level Requirements**

outlet shall be less than 20 ppmv dry basis as hexane at 3% oxygen.

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

A gas flow meter shall be installed on the main pipeline taking landfill gas from the North and South Cells, the Willa expansion and other Department approved landfill sources, to the IC engine.

IV. RECORDKEEPING REQUIREMENTS.**# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) Landfill gas flow rate to the IC engine shall be recorded daily.

(b)
(1) Emissions of all pollutants for which limitations are given in this Operating Permit shall be calculated and recorded on a monthly and on a 12-month rolling basis, in order to demonstrate compliance with the limitations in Condition # 001 for this source.

(2) Emission factors determined during the most recent stack test (where available) shall be used in the calculation. If stack test data are not available, emission factors presented in Plan Approval application 15-0060G shall be used, unless another factor is approved in writing by the Department

(c) Records of maintenance shall be kept on file and shall be provided to the Department upon request.

008 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Authority for this permit condition is also derived from 40 C.F.R. § 63.1983(b).]

The owner/operator shall keep records of:

(a) the percent reduction of NMOC achieved by this control device in its initial performance test for the life of the control device and in subsequent performance tests for a minimum of 5 years;

(b) records of vendor specifications for this control device until its removal.

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

All landfill gas flow to the IC engine and emissions reports shall be reported to the Department annually.

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

- (a) The IC engine and generator shall be maintained as per manufacturer's specifications.
- (b) If the IC engine is not operated for more than 48 hours for any reason, the Department shall be notified in writing, within 2 business days after the first 48 hours of inoperation.

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

Manufacturer: Caterpillar
Model: G3516LE-SITA
Type: IC Engine/Generator
Source Designation: LFGTE
Rated Capacity: 1,148 BHP
Maximum Capacity: 1,148 BHP
S/N: 8LZ00556

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

[Additional authority for this condition is derived from 40 C.F.R. § 63.1960(e)2.]

The owner or operator shall demonstrate compliance with the operational standard in 40 C.F.R. § 63.1958(e)(1) at all times, including periods of SSM. During periods of SSM, the owner or operator shall comply with the work practice requirement specified in 40 C.F.R. § 63.1958(e).

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

**SECTION D. Source Level Requirements**

Source ID: C07

Source Name: ENCLOSED FLARE

Source Capacity/Throughput: 72,000.000 CF/HR

Conditions for this source occur in the following groups: EMISSION LIMITS ENGINES AND FLARE
STACK TESTS

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

(a) Emissions of oxides of nitrogen (NO_x) shall be limited to 0.06 lb/MMBtu, 2.15 lbs/hr, and 9.42 tons per year, calculated as a 12-month rolling sum.

(b) Emissions of volatile organic compound (VOC) shall be limited to 0.075 lb/hr, and 0.33 ton per year, calculated as a 12-month rolling sum.

(c) Emissions of carbon monoxide (CO) shall be limited to 0.2 lb/MMBtu, 7.20 lbs/hr, and 31.54 tons per year, calculated as a 12-month rolling sum.

(d) Emissions of oxides of sulfur (SO_x) shall be limited to 3.10 lbs/hr, and 13.58 tons per year, calculated as a 12-month rolling sum.

(e) Emissions of particulate matter (PM, PM₁₀ and PM_{2.5}) shall be limited to 0.60 lbs/hr, and 2.63 tons per year, calculated as a 12-month rolling sum.

Control Device Efficiency Restriction(s).**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 40 CFR § 63.1959(b)(2)(iii)(B).]

The owner/operator of this enclosed flare shall design and operate the enclosed flare to reduce NMOC by 98 weight percent, or reduce the outlet NMOC concentration to less than 20 parts per million by volume, dry basis as hexane at 3 percent oxygen.

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

A gas flow meter shall be installed on the main pipeline taking landfill gas from the North and South Cells, the Willa expansion, and other Department approved landfill sources, to the enclosed flare so that landfill gas flow can be monitored on a continuous basis when the enclosed flare is operating.

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

[Authority for this permit condition is also derived from 40 C.F.R. § 63.1961(b).]

The owner/operator shall calibrate, maintain and operate according to the manufacturer's specifications:

**SECTION D. Source Level Requirements**

(a) a temperature monitoring device equipped with a continuous recorder and having a minimum accuracy of +/- 1 percent of the temperature being measured expressed in degrees Celsius or +/- 0.5 degrees Celsius, whichever is greater.

(b) a gas flow rate measuring device that provides a measurement of gas flow to or bypass of the control device. The owner/operator shall install, calibrate and maintain the gas flow rate measuring device that shall record the flow to the control device at least every 15 minutes.

IV. RECORDKEEPING REQUIREMENTS.**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) Records of flow of landfill gas to the flare shall be maintained on a continuous basis.

(b) Records of operating temperature of the flare shall be maintained on a continuous basis.

(c) Records of hours of operation shall be maintained on a daily basis.

(d) Whenever the enclosed flare is operated, a record shall be kept for the reason of operation of the enclosed flare.

(e) The landfill gas shall be analyzed by an on-line process gas chromatograph, or other instrument equivalent in accuracy, to determine the methane content of the fuel. Records of the methane content shall be maintained on a daily basis.

(f)
(1) Emissions of all pollutants for which limitations are given in this Operating Permit shall be calculated and recorded on a monthly and on a 12-month rolling basis, in order to demonstrate compliance with the limitations in Condition # 001 for this source..

(2) Emission factors determined during the most recent stack test (where available) shall be used in the calculation. If stack test data are not available, emission factors presented in Plan Approval application 15-0060G shall be used, unless another factor is approved in writing by the Department

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

The owner/operator shall record all periods during which landfill gas flow to the flare was bypassed directly to the atmosphere for a period of one hour or more.

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

[Additional authority for this permit condition is from 40 C.F.R. § 63.1983(b).]

The owner/operator of this control device shall keep records of

(a) the average combustion temperature measured at least every 15 minutes and averaged over the time period as the performance test;

(b) the percent reduction of NMOC achieved by the control device in its initial performance test for the life of the control device and in subsequent performance tests for a minimum of 5 years;

(c) records of vendor specifications for the control device until its removal.

008 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Authority for this permit condition is also derived from 40 C.F.R. § 63.1983(c) and (b).]

**SECTION D. Source Level Requirements**

The owner/operator shall keep records of the following:

(a) for 5 years

(i) the combustion temperature and gas flow rate monitored;

(ii) all 3-hour periods of operation during which the average combustion temperature was more than 28 C below the average combustion temperature during the most recent performance test;

(iii) records of performances tests subsequent to the initial.

(b) initial performance tests for the life of the control device.

V. REPORTING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

All landfill gas flow to the enclosed flare shall be reported to the Department annually.

VI. WORK PRACTICE REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is from 40 C.F.R. § 63.1983(c)(1)(i).]

(a) The enclosed flare covered under this Operating Permit and manufactured by LFG Specialties, Inc., model EF83516, shall be used to burn landfill gas generated on-site from the North and South Cells, and the Willa expansion, and any other Department approved landfill sources. The flare shall not burn landfill gas generated from any future expansion without appropriate approval from the Department.

(b) The enclosed flare may be used up to its full capacity (i) independently as a primary control device (ii) as a backup flare in case of disruption in the supply of landfill gas to one or both IC engines installed to generate electricity (iii) for control of offsite migration of landfill gas (iv) for control of malodors (v) as a control device in conjunction with one or both engines when the landfill gas production exceeds the capacity of the two IC engines installed to generate electricity.

(c). The flare shall burn a maximum of 1200 scfm of landfill gas at 50% methane.

(d) The enclosed flare shall maintain, for each 3-hour period of operation based on rolling hourly data, an average combustion temperature of no more than 28°C(50.4°F) below the average combustion temperature during the most recent performance test in which compliance with the destruction efficiency/NMOC removal in Condition was demonstrated.

(e) The retention time at the operating temperature shall be 1.158 seconds as documented by the design standards. The flare will be allowed an appropriate warm-up sequence in accordance with the manufacturer's specifications, to attain this minimum operating temperature. The flue gas temperature shall be monitored and recorded.

(f) The flare shall be equipped with a pilot and shall be designed to meet the criteria for automatic system shutoff if a flame-out occurs.

VII. ADDITIONAL REQUIREMENTS.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this condition is derived from 40 C.F.R. § 63.1960(e)2.]

**SECTION D. Source Level Requirements**

The owner or operator shall demonstrate compliance with the operational standard in 40 C.F.R. § 63.1958(e)(1) at all times, including periods of SSM. During periods of SSM, the owner or operator shall comply with the work practice requirement specified in 40 C.F.R. § 63.1958(e).

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

**SECTION D. Source Level Requirements**

Source ID: C08

Source Name: IC ENGINE/GENERATOR CATERPILLAR G3520C (PA60F)

Source Capacity/Throughput: 2,233.000 HP-Hr/HR LANDFILL GAS

Conditions for this source occur in the following groups: EMISSION LIMITS ENGINES AND FLARE
SMALL NOX
STACK TESTS

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

The permittee shall comply with the following emissions limitations:

- (a) Emissions of oxides of nitrogen (NO_x) shall be limited to 0.50 g/bhp-hr and 10.78 tons/year on a 12-month rolling basis.
- (b) Emissions of volatile organic compounds (VOC) shall be limited to 0.57 g/bhp-hr and 12.29 tons/year on a 12-month rolling basis.
- (c) Emissions of carbon monoxide (CO) shall be limited to 4.40 g/bhp-hr and 94.88 tons/year on a 12-month rolling basis.
- (d) Emissions of sulfur oxides, expressed as SO₂ shall be limited to 500 parts per million by volume, dry basis (ppmvd).
- (e) Emission rate of formaldehyde shall be limited to 0.436 g/bhp -hr, in order to protect ambient air quality, based on the Department's Risk Assessment.

Note: The permittee shall comply with lower formaldehyde emission limits as necessary in order to comply with facility wide limitations for HAPs.

Fuel Restriction(s).**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The IC engine shall be operated only using landfill gas generated in the North Cell, the South Cell and the Willa expansion of the SECCRA Landfill, or other Department approved landfill sources.

Operation Hours Restriction(s).**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

There is no restriction in the operating hours of the IC engine.

Throughput Restriction(s).**# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

- (a) The IC engine shall have a maximum rated capacity of 2,233 bhp.
- (b) The IC engine shall be limited to 14.19 MMBtu/hr.
- (c) The IC engine shall be limited to a maximum of 473 scfm of landfill gas.
- (d) A written notification shall be made to the Department if the Btu value of the landfill gas changes to the extent that the volume flow of the landfill gas sent to the IC engine needs to be increased. The volume flow and the Btu content together shall not exceed a heat input rate of 14.19 MMBtu/hr.

**SECTION D. Source Level Requirements****Control Device Efficiency Restriction(s).****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Authority for the permit condition is also derived from 40 C.F.R. § 63.1959(b)(2)(iii)(B).]

The IC engine shall have a minimum NMOC destruction efficiency of 98% by weight or the concentration of NMOC in the outlet shall be less than 20 ppmv dry basis as hexane at 3% oxygen.

II. TESTING REQUIREMENTS.**# 006 [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?**

[Additional authority for this condition is derived from 40 CFR Sections 60.4243(b), 60.4245(d), and 25 Pa. Code Section 127.441.]

(a) In accordance with 40 CFR Section 60.4243(b)(2)(ii) for an engine not certified to the procedures in 40 CFR Subpart JJJJ, the owner/operator shall conduct performance testing in addition to the 5-year testing required by Condition #005, every 8760 hours or 3 years, whichever comes first, to demonstrate compliance with the emissions limits for NO_x, CO and VOC in 40 CFR Subpart JJJJ, Table 1 and as given in Condition #001 of this section.

[Compliance with the NO_x and CO emission limits in Condition #001 of this section assures compliance with the limits for those pollutants in 40 CFR Section 60.4233(e).]

(b) In accordance with 40 CFR 60.4243, additional performance testing is not required for a certified engine.

(c) Performance tests shall be conducted with Department approved methods and in accordance with the provisions of 25 Pa Code Chapter 139, the Department's Source Testing Manual (274-0300-002) and 40 CFR Section 60.4244.

(d) At least ninety (90) days prior to the test, the company shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples. Submission shall be in accordance with Section E of this Operating Permit, Stack Test Submissions, Condition #001.

When testing of a source is required on a recurring basis, a single procedural protocol may be submitted for approval; thereafter, a letter referencing the previously approved procedural protocol is sufficient. However, if modifications are made to the process(es), if a different stack testing company is used, or if an applicable section of the stack testing manual has been revised since approval, a new protocol must be submitted for approval.

(e) At least thirty (30) days prior to the test, the Department shall be informed of the expected date and time of the test, in accordance with Section E of this Operating Permit, Stack Test Submissions, Condition #001. Final acceptance of the test date is contingent on approval of the test protocol.

(f) In accordance with 40 CFR 60.4245 (d) and 25 Pa. Code Section 127.441,

Within sixty (60) days after the source test(s), copies of the complete test report, including all operating conditions, shall be submitted to the Department in accordance with Section E of this Operating Permit, Stack Test Submissions. and 1 to the EPA for approval.

Performance test reports using EPA Method 18, EPA Method 320, or ASTM D6348-03 (incorporated by reference—see 40 CFR 60.17) to measure VOC require reporting of all QA/QC data. For Method 18, report results from sections 8.4 and 11.1.1.4; for Method 320, report results from sections 8.6.2, 9.0, and 13.0; and for ASTM D6348-03 report results of all QA/QC procedures in Annexes 1-7.

**SECTION D. Source Level Requirements****III. MONITORING REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

A gas flow meter shall be installed on the main pipeline taking landfill gas from the NorthCell, the South Cells, the Willa expansion, and other Department approved landfill sources, to the IC engine.

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

[Additional authority for this condition is derived from 40 CFR Section 60.4245(a)(2).]

(a) Landfill gas flow rate to the IC engine shall be recorded daily.

(b)

(1) Emissions of all pollutants for which limitations are given in this Operating Permit shall be calculated and recorded on a monthly and on a 12-month rolling basis, in order to demonstrate compliance with the limitations in Condition # 001 for this source.

(2) Emission factors determined during the most recent stack test (where available) shall be used in the calculation. If stack test data are not available, emission factors presented in Plan Approval application 15-0060G shall be used, unless another factor is approved in writing by the Department

(c) Records of maintenance shall be kept on file and shall be provided to the Department upon request.

[Compliance with maintenance recordkeeping assures compliance with 40 CFR Section 60.4245(a)(2).]

009 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The owner/operator shall maintain a running log of the hours of operation since the last performance test conducted pursuant to 40 CFR Section 60.4243(b)(2)(iii).

010 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Authority for this permit condition is also derived from 40 C.F.R. § 63.1983(b).]

The owner/operator shall keep records of:

(a) the percent reduction of NMOC achieved by this control device in its initial performance test for the life of the control device and in subsequent performance tests for a minimum of 5 years;

(b) records of vendor specifications for this control device until its removal.

011 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4245]**Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary SI internal combustion engine?**

(a) In accordance with 40 CFR Section 60.4245 (a)(1), the owner/operator of a non-certified engine shall keep records of notifications and supporting documentation to include the information in 40 CFR Section 60.4245 (c):

(1) the name and address of the owner/operator;

(2) the address of the source;

(3) engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;

(4) fuel used.

**SECTION D. Source Level Requirements**

(b) In accordance with 40 CFR Section 60.4245 (a) (4), the owner/operator of a non-certified engine shall keep documentation that the engine meets the emissions standards of Table 1 to 40 CFR Part 60, Subpart JJJJ.

V. REPORTING REQUIREMENTS.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

All landfill gas flow to the IC engine and emissions reports shall be reported to the Department annually.

VI. WORK PRACTICE REQUIREMENTS.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The IC engine and generator shall be maintained as per manufacturer's specifications.

(b) If the IC engine is not operated for more than 48 hours for any reason, the Department shall be notified in writing, within 2 business days after the first 48 hours of inoperation.

VII. ADDITIONAL REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Manufacturer: Caterpillar

Model: G3520C

Type: IC Engine/Generator

Source Designation: LFGTE

Rated Capacity: 2,233 BHP

Maximum Capacity: 2,233 BHP

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The owner/operator shall ensure that the stack height is at the minimum 34.6 ft with a diameter of 1.33 ft in accordance with Good Engineering Practice (GEP). The Department reserves the right to revise the stack height in accordance with the GEP to ensure that emissions of Hazardous Air Pollutants (HAPs) meet ambient air quality standards.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this condition is derived from 40 C.F.R. § 63.1960(e)2.]

The owner or operator shall demonstrate compliance with the operational standard in 40 C.F.R. § 63.1958(e)(1) at all times, including periods of SSM. During periods of SSM, the owner or operator shall comply with the work practice requirement specified in 40 C.F.R. § 63.1958(e).

017 [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?**

This source is subject to the requirements of 40 CFR Part 60 Subpart JJJJ and shall comply with all applicable requirements.

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

**SECTION E. Source Group Restrictions.**

Group Name: EMERGENCY GENERATOR ENGINES

Group Description: Subpart ZZZZ & 127.441 conditions for emergency engines

Sources included in this group

ID	Name
102	EMERGENCY GENERATOR (102 HP)
111	EMERGENCY GENERATOR (335 HP)

I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from this source at any time, in excess of 0.04 gr/dscf, pursuant to 25 Pa. Code § 123.13 (c)(1)(i).

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from this source in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 ppmvd.

Fuel Restriction(s).

003 [25 Pa. Code §123.22]

Combustion units

(a) A person may not offer for sale, deliver for use, exchange in trade or permit the use of commercial fuel oil in a combustion unit in the Southeast Pennsylvania air basin if the commercial fuel oil contains sulfur in excess of [15 ppm or 0.0015% by weight for No. 2 fuel oil] by weight sulfur content, pursuant to 25 Pa. Code § 123.22(e)(2)(i), except as described in 25 Pa. Code § 123.22(e)(2)(ii) and (iii).

(b) Commercial fuel oil that was stored in the Commonwealth by the ultimate consumer prior to September 1, 2020 which met the applicable maximum allowable sulfur content for commercial fuel oil through August 31, 2020 in subparagraph (a) at the time it was stored, may be used by the ultimate consumer in this Commonwealth on and after September 1, 2020.

[Compliance with this condition assures compliance with the sulfur emission rate of 1.2/1.0 lb SO₂/MMBtu as found in 25 Pa. Code § 123.22(e)(1) for the outer/inner zone, while firing No. 2 fuel oil.]

Operation Hours Restriction(s).

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements

[Additional authority for this condition is derived from 25 Pa. Code § 127.441.]

In accordance with 40 C.F.R. § 63.6640(f),

The owner/operator shall operate each engine according to the requirements in paragraphs (a) through (c) of this condition. In order for the engine to be considered an emergency stationary RICE under 40 CFR Part 63, Subpart ZZZZ, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (a) through (c), is prohibited. If the engine is not operated according to the requirements in paragraphs (a) through (c), the engine will not be considered an emergency engine under 40 CFR Subpart ZZZZ and must meet all requirements for non-emergency engines.

(a) There is no time limit on the use of either engine in emergency situations unless elsewhere specified.

(b) The emergency engine may be operated for any purpose specified in this paragraph for a maximum of 100 hours per

**SECTION E. Source Group Restrictions.**

calendar year. Any operation for non-emergency situations as allowed by paragraph (c) of this condition counts as part of the 100 hours per calendar year allowed by paragraph (b) of this condition.

The emergency engine may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of the engine beyond 100 hours per year.

(c) The emergency engine may be operated for up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing, provided in paragraph (b). Except as provided in paragraphs (c)(A) through (E) of this condition, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:

(A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator.

(B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

(C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

(D) The power is provided only to the facility itself or to support the local transmission and distribution system.

(E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the hours of operation and type of fuel used, for each of these sources, monthly.

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**What are my monitoring, installation, operation, and maintenance requirements?**

In accordance with 40 C.F.R. § 63.6625(f),

the owner/operator shall install a non-resettable hour meter if one is not already installed on each engine.

**SECTION E. Source Group Restrictions.****IV. RECORDKEEPING REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The owner/operator shall keep a fuel delivery receipt, which indicates the sulfur content, for each delivery of diesel fuel to be used in the emergency generator engines.

008 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall record the hours of operation and type of fuel used, for each of these sources, monthly.

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

The owner/operator using an oil analysis program, as described in Condition # 021 of this section, shall keep records of the parameters that are analyzed as part of the oil analysis program, the results of the analysis, and the oil changes for each engine.

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

In accordance with 40 C.F.R. § 63.6655,

The owner/operator shall keep the following:

- (a) a copy of any submission made under 40 CFR Part 63 Subpart ZZZZ
- (b) records of the occurrence and duration of each malfunction of an engine or its monitoring equipment
- (c) records of all required maintenance performed on the monitoring equipment
- (d) records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR Section 63.6605(b) (Condition # 018), including actions to restore the malfunctioning process and monitoring equipment to its normal or usual manner of operation.
- (e) records of the maintenance performed on each engine in order to demonstrate that the engine was operated and maintained according to the facility's own maintenance plan and/or the manufacturer's emission related operation and maintenance instructions.

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What records must I keep?**

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.441.]

- (a) In accordance with 40 C.F.R. § 63.6655(f), the owner/operator shall keep records of the hours of operation of each engine that is recorded through the non-resettable hour meter. The owner/operator shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.
 - (1) The hours of operation for non-emergency operation shall identify the hours the engine was operated for maintenance checks and readiness testing, even if the operation for this purpose was for greater than 100 hours per calendar year. If the engine is operated for greater than 100 hours per calendar year, the owner/operator shall keep a record of the authorization, to include the number of hours authorized, for the additional hours of maintenance and readiness testing pursuant to 40 C.F.R. § 63.6640(f)(2)(i)[Condition #005(b)], whether this authorization is an approval of the petition from the Administrator or the Federal, State, or local standard mandating the additional hours.
 - (2) If the engine is used for the purposes specified in 40 C.F.R. § 63.6640(f)(4)(ii) [Condition #005(c)(A - E)], the owner or

**SECTION E. Source Group Restrictions.**

operator must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes.

(b) Hours shall be recorded and classified in accordance with paragraph (a) of this condition whenever the engine is operated and tabulated on a monthly and on a calendar year basis.

012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6660]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

In what form and how long must I keep my records?

In accordance with 40 CFR Section 63.6660,

(a) Each record kept for 40 CFR Part 63 Subpart ZZZZ shall be kept readily accessible in hard copy or electronic format for 5 years following the date of each occurrence, maintenance action, measurement, etc.

(b) Records shall be in a format for expeditious review.

V. REPORTING REQUIREMENTS.

013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6650]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What reports must I submit and when?

In accordance with 40 C.F.R. § 63.6650(f),

The owner/operator shall report all deviations as defined in 40 C.F.R. Part 63 Subpart ZZZZ in the semi-annual deviation report, required pursuant to Section C Condition # 020.

014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6650]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What reports must I submit and when?

If an engine operates for the purposes specified in 40 CFR Section 63.6640(f)(4)(ii)(Condition #005(c)), the owner/operator shall submit an annual report according to the requirements in 40 CFR Sections 63.6650(h)(1) through (3).

VI. WORK PRACTICE REQUIREMENTS.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

These sources shall be operated and maintained in accordance with manufacturer's specifications.

016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6603]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What emission limitations, operating limitations, and other requirements must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?

In accordance with 40 C.F.R. § 63.6603, the owner/operator shall perform the following maintenance on each engine:

(a) change the engine oil and filter every 500 hours of operation or within 1 year + 30 days of the previous change, whichever comes first;

(b) inspect the air cleaner every 1,000 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first; and replace as necessary;

(c) inspect all hoses and belts every 500 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first, and replace as necessary

017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6605]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What are my general requirements for complying with this subpart?

In accordance with 40 CFR Section 63.6605(b),

**SECTION E. Source Group Restrictions.**

The owner/operator must operate and maintain these sources, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the owner/operator to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

018 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

In accordance with 40 CFR Section 63.6625(e)(3),

The owner/operator shall operate and maintain each engine according to manufacturer's emission related written instructions or develop his own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engines in a manner consistent with good air pollution control practices for minimizing emissions.

019 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

In accordance with 40 CFR Section 63.6625(h),

The owner/operator shall minimize an engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

020 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

In accordance with 40 CFR Section 63.6625(i),

(a) The owner/operator has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Condition # 017 of this section. The oil analysis must be performed at the same frequency specified for changing the oil and filter in Condition # 017. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil and filter. If any of the limits are exceeded, the engine owner or operator must change the oil and filter within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil and filter within 2 business days or before commencing operation, whichever is later.

(b) The analysis program must be part of the maintenance plan for the engine.

VII. ADDITIONAL REQUIREMENTS.**# 021 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

These engines are subject to the requirements of 40 C.F.R. Part 63 Subpart ZZZZ. The owner/operator shall comply with all applicable requirements.

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

**SECTION E. Source Group Restrictions.**

Group Name: EMISSION LIMITS ENGINES AND FLARE

Group Description:

Sources included in this group

ID	Name
C05	IC ENGINE/GENERATOR CATERPILLAR G3516LE
C07	ENCLOSED FLARE
C08	IC ENGINE/GENERATOR CATERPILLAR G3520C (PA60F)

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

The two IC engines, Source IDs C05 and C08, and the enclosed flare, Source ID C07, shall be limited to the combined emissions of the following pollutants, all on a 12-month rolling basis:

	tons/year
VOC:	17.98
NOx:	22.93
CO:	147.20
SOx:	14.77
PM, PM10 and PM 2.5	5.97

II. TESTING REQUIREMENTS.

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

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

The combined emissions from Sources C05, C07 and C08 shall be calculated and recorded on a monthly and 12-month rolling basis to demonstrate compliance with the combined limitations for these sources in the Emission Restriction section of this source group.

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 E. Source Group Restrictions.**

Group Name: SMALL NOX

Group Description: requirements of 25 Pa. Code Section 129.203

Sources included in this group

ID	Name
C05	IC ENGINE/GENERATOR CATERPILLAR G3516LE
C08	IC ENGINE/GENERATOR CATERPILLAR G3520C (PA60F)

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.

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

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.

001 [25 Pa. Code §129.203]

Stationary internal combustion engines.

[Additional authority for this condition is derived from 25 Pa. code Section 129.204]

The owner or operator of a stationary internal combustion engine rated at greater than 1000 hp and located in Bucks, Chester, Delaware, Montgomery or Philadelphia County shall comply with 25 Pa. Code §§ 129.203 and 129.204.

(a) By October 31 of each year, the permittee shall calculate the difference between the actual emissions from the engine during the period from May 1 through September 30 and the allowable emissions for that period.

(b) The owner/operator shall calculate the allowable emissions by multiplying the cumulative hours of operation for each engine for the period by the horsepower rating of the unit and by the applicable emission rate set forth in paragraph (c).

(c) For a spark ignited engine, 3.0 grams of NO_x per brake horsepower-hour is the applicable emissions rate for allowable emissions.

(d) The permittee shall determine the NO_x actual emissions between May 1 and September 30 of each year in accordance with one of the following methods:

(1) The 1-year average emission rate calculated from the most recent emission limit compliance demonstration test data for nitrogen oxides, or if unavailable,

**SECTION E. Source Group Restrictions.**

(2) The maximum hourly allowable nitrogen oxides emission rate contained in this Operating Permit.

(e) The owner/operator shall surrender CAIR NOx allowances, if required, in accordance with 25 Pa. Code Section 129.204.

[Note: On July 6, 2011, EPA promulgated the Cross-State Air Pollution Rule (CSAPR) to replace CAIR. The CSAPR provisions of 40 CFR Part 97, Subpart AAAAA (relating to CSAPR NOx Annual Trading Program), replaced the provisions of 40 CFR Part 96, Subpart AA (relating to CAIR NOx Annual Trading Program General Provisions), and remain in effect. On October 26, 2016, EPA promulgated the CSAPR Update to establish the provisions of 40 CFR Part 97, Subpart EEEEE (relating to CSAPR NOx Ozone Season Group 2 Trading Program), to replace the previously-established CAIR NOx Ozone Season Trading Program and CSAPR NOx Ozone Season Group 1 Trading Program for certain states, including Pennsylvania, beginning with the 2017 ozone season. On April 30, 2021, EPA promulgated the Revised CSAPR Update to establish the provisions of 40 CFR Part 97, Subpart GGGGG (relating to CSAPR NOx Ozone Season Group 3 Trading Program), to replace the provisions of 40 CFR Part 97, Subpart EEEEE, for certain states, including Pennsylvania, beginning with the 2021 ozone season (though DEP will accept CSAPR NOx Ozone Season Group 2 allowances of current year vintage from other states, if available). Accordingly, the permittee shall surrender CSAPR NOx Annual allowances and either CSAPR NOx Ozone Season Group 2 allowances or CSAPR NOx Ozone Season Group 3 allowances, as defined in 40 CFR §§ 97.402, 97.802, and 97.1002, respectively, instead of the CAIR NOx allowances and CAIR NOx Ozone Season allowances indicated in 25 Pa. Code § 129.204(c), as the latter are no longer available.]

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

**SECTION E. Source Group Restrictions.**

Group Name: STACK TESTS

Group Description: Stack Test Requirements and Submission Procedures.

Sources included in this group

ID	Name
C05	IC ENGINE/GENERATOR CATERPILLAR G3516LE
C07	ENCLOSED FLARE
C08	IC ENGINE/GENERATOR CATERPILLAR G3520C (PA60F)

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

For Source IDs C05, C07 and C08,

(a) The permittee shall email all source test submissions (notifications, protocols, reports, supplemental information, etc.) to both the AQ Program Manager for the Southeast Regional Office and the PSIMS Administrator in Central Office (email addresses are provided below). Any questions or concerns about source testing submissions can be sent to RA-EPstacktesting@pa.gov and the PSIMS Administrator will address them.

Southeast Region
RA-EPSEstacktesting@pa.gov

Central Office
RA-EPstacktesting@pa.gov

(b) The following pertinent information shall be listed on the title page.

1. Test Date(s)

- For protocols, provide the proposed date on which testing will commence or "TBD"
- For reports, provide the first and last day of testing

2. Facility Identification Number (Facility - ID): For test programs that were conducted under a multi-site protocol, also include the PF Id under which the protocol was stored in PSIMS, as indicated in the protocol response letter.

3. Source ID(s) for the applicable source(s) and air pollution control device(s): The term Source ID is used in the permit but "Other Id" is used in DEP electronic systems. They are the same number and must also be listed for control equipment.

4. Testing Requirements (all that apply)

- Plan approval number(s)
- Operating permit number
- Applicable federal subpart(s) (i.e. 40 CFR 60, Subpart JJJJ)
- Special purpose(s) (Consent Order, RFD, RACT II, Tier II, etc.)

(c) If confidential information must be submitted, submit both a public copy, which has been redacted, and a confidential copy. The cover page of each submittal should state whether it is a "Public Copy" or "Confidential Copy" and each page of the latter must be marked "CONFIDENTIAL".

(d) Eliminate shading, color ink for data emphasis, small font size, and color saturation as the scanning to create an electronic file is done in black and white. Shading and color emphasis do not scan well and make the electronic copies difficult to read.

(e) The Department limits emails to 15 MB and PSIMS has a file size limitation of 100 MB for electronic files. Submit just one electronic file (convert any Microsoft Word or Excel files to an Adobe PDF format and combine them with the report or protocol), unless the submission contains CONFIDENTIAL information.

**SECTION E. Source Group Restrictions.****# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall perform a stack test using the Department-approved procedures once every five (5) calendar years, where five calendar years is defined as beginning with the calendar year the latest stack test was performed and ending on December 31, five years later. In accordance with 25 Pa. Code § 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. Refer to PADEP Source Testing Program website online for further information related to source testing including Source Testing FAQ and the PADEP Source Testing Manual.

(b) At least ninety (90) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples. Procedures shall be submitted according to the submission requirements in Section E, Stack Tests, Condition #001.

If the Department is not able to approve the test procedures, which were submitted in a timely manner, within three weeks of the proposed test date; an alternative test date will be negotiated between the permittee and the Department. Alternative test dates that do not meet the testing time-limits established in this operating permit, shall not be considered a deviation.

(c) The stack test shall, at a minimum, test for VOC, CO, SO₂ and NO_x in order to demonstrate compliance with the limits in the Emission Restriction section of the operating permit for Source IDs C05, C07 and C08. In addition, testing of Source ID C08 shall include formaldehyde. Tests shall be conducted in accordance with the provisions of EPA Methods 25, 25A, or 18, as described in paragraphs (c)(i),(ii) and iii of this Condition, 10, 6C, 7E, and 323 or other Department approved methodology and 25 Pa. Code Chapter 139. Tests shall also be conducted in accordance with the provisions of the current version of the DEP Source Testing Manual and the EPA Clean Air Act National Stack Testing Guidance.

Stack testing shall also be performed to demonstrate compliance with the NMOC limitation in the Control Device Efficiency Restriction section of the operating permit for Source IDs C05, C07 and C08.

(i) Compliance with the control system outlet concentration requirement shall be indicated by an emission test program demonstrating the NMOC concentration to be <50 ppmvd (as carbon) measured at the control system outlet by U.S. EPA Reference Method 25A (RM25A) and U.S. EPA Reference Method 18 (RM18). RM18 is only used to quantify and subtract the non-regulated pollutant of methane from the results of the RM25A test results in order to obtain the control system exhaust concentration as NMOC. If an NMOC concentration of greater than or equal to 50 ppmvd as carbon is measured at the control system outlet by RM25A; that RM25A test cannot be used to demonstrate compliance with the NMOC emission concentration limit. In that event, the owner/operator must retest the device within 90 days, or a longer period as approved in writing by the Department. The owner/operator will select one of the following options:

- (1) Perform any necessary evaluation, maintenance and/or adjustments, and perform the retest using RM25A and M18, or
- (2) Retest using U.S. EPA Reference Method 25 (RM25) to determine if the outlet emissions are less than 20 ppmv (as hexane at 3% oxygen), or
- (3) Retest using RM25, in conjunction with U.S. EPA Reference Methods 1, 2, 3 or 3A, and 4, for testing the control system inlet and outlet or to determine the control device destruction efficiency, or
- (4) Retest using another methodology otherwise approved by the Department upon the permittee's request.

(ii) If the original test included carbon monoxide (CO) and nitrogen oxide (NO_x) emissions testing to determine compliance with an applicable emission limit, then the retest of the control system (for failure to demonstrate compliance with the NMOC emission concentration) should also include a retest of the CO and NO_x emissions to assure continued compliance with those emissions standards.

(iii) The NMOC stack test shall, at a minimum, test for NMOC at the control system outlet in accordance with the provisions of U.S. EPA Reference Method 25A (RM25A), U.S. EPA Reference Method 18 (RM18) for methane only and 25 Pa. Code Chapter 139; or utilize another test methodology that has been approved by the Department at the permittee's request. Alternatively, the permittee may choose to test the control system outlet concentration or percent destruction efficiency on a mass basis as determined in accordance with the provisions of U.S. EPA Reference Methods 1, 2, 3 or 3A, 4; and 25 or

**SECTION E. Source Group Restrictions.**

25A/18; and with 25 Pa. Code Chapter 139 at the control system inlet and/or control system outlet; or by another test methodology otherwise approved by the Department.

(d) At least thirty (30) days prior to the test, the Regional Air Quality Manager, shall be informed of the date and time of the test.

(e) Within sixty (60) days after the source test(s) (unless a more stringent regulatory requirement applies), one paper copy plus an electronic copy of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

(f) In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in writing and include a justification for the extension. The Department may grant an extension for a reasonable cause. The Department can, at its discretion, change dates or time limits specified in operating permits that are not otherwise prohibited from change by regulation.

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.**

Source Id	Source Description		
105	MSW LANDFILL (NORTH, SOUTH CELL & WILLA EXPANSION)		
Emission Limit		Pollutant	
1.980	Tons/Yr	as a 12-month rolling sum, post-closure	VOC
2.970	Tons/Yr	as a 12-month rolling sum (pre-closure)	VOC
C05	IC ENGINE/GENERATOR CATERPILLAR G3516LE		
Emission Limit		Pollutant	
3.400	GRAMS/HP-Hr	g/bhp-hr	CO
37.700	Tons/Yr	12-month rolling sum	CO
147.200	Tons	12-month rolling sum, combined C05, C07, and C08	CO
0.700	GRAMS/HP-Hr	g/bhp-hr	NOX
7.760	Tons	12-month rolling sum	NOX
22.930	Tons	12-month rolling sum, combined C05, C07, and C08	NOX
5.970	Tons	12-month rolling sum, combined C05, C07, and C08	PM10
5.970	Tons	12-month rolling sum, combined C05, C07, and C08	PM2.5
14.770	Tons	12-month rolling sum, combined C05, C07, and C08	SOX
500.000	PPMV	dry basis, expressed as SO2	SOX
5.970	Tons	12-month rolling sum, combined C05, C07, and C08	TSP
0.500	GRAMS/HP-Hr	g/bhp-hr	VOC
5.540	Tons	12-month rolling sum	VOC
17.980	Tons	12-month rolling sum, combined C05, C07, and C08	VOC
C07	ENCLOSED FLARE		
Emission Limit		Pollutant	
0.200	Lbs/MMBTU		CO
7.200	Lbs/Hr		CO
31.540	Tons/Yr	as a 12-month rolling sum	CO
147.200	Tons	12-month rolling sum, combined C05, C07, and C08	CO
0.060	Lbs/MMBTU		NOX
2.150	Lbs/Hr		NOX
9.420	Tons/Yr	as a 12-month rolling sum	NOX
22.930	Tons	12-month rolling sum, combined C05, C07, and C08	NOX
0.600	Lbs/Hr	PM, PM10 and PM2.5	PM10
2.630	Tons/Yr	as a 12-month rolling sum, PM, PM10, PM2.5	PM10
5.970	Tons	12-month rolling sum, combined C05, C07, and C08	PM10
5.970	Tons	12-month rolling sum, combined C05, C07, and C08	PM2.5
3.100	Lbs/Hr		SOX
13.580	Tons/Yr	as a 12-month rolling sum	SOX
14.770	Tons	12-month rolling sum, combined C05, C07, and C08	SOX

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description
	and C08
5.970 Tons	12-month rolling sum, combined C05, C07, and C08 TSP
0.075 Lbs/Hr	VOC
0.330 Tons/Yr	as a 12-month rolling sum VOC
17.980 Tons	12-month rolling sum, combined C05, C07, and C08 VOC
C08	IC ENGINE/GENERATOR CATERPILLAR G3520C (PA60F)
Emission Limit	Pollutant
4.400 GRAMS/HP-Hr	g/bhp-hr CO
94.880 Tons/Yr	12-month rolling sum CO
147.200 Tons	12-month rolling sum, combined C05, C07, and C08 CO
0.436 GRAMS/HP-Hr	g/bhp-hr Formaldehyde
0.500 GRAMS/HP-Hr	g/bhp-hr NOX
10.780 Tons/Yr	12-month rolling sum NOX
22.930 Tons	12-month rolling sum, combined C05, C07, and C08 NOX
5.970 Tons	12-month rolling sum, combined C05, C07, and C08 PM10
5.970 Tons	12-month rolling sum, combined C05, C07, and C08 PM2.5
14.770 Tons	12-month rolling sum, combined C05, C07, and C08 SOX
500.000 PPMV	dry basis, expressed as SO2 SOX
5.970 Tons	12-month rolling sum, combined C05, C07, and C08 TSP
0.570 GRAMS/HP-Hr	g/bhp-hr VOC
12.290 Tons/Yr	12-month rolling sum VOC
17.980 Tons	12-month rolling sum, combined C05, C07, and C08 VOC

Site Emission Restriction Summary

Emission Limit	Pollutant
147.280 Tons/Yr	12-month rolling sum CO
14.800 Tons/Yr	12-month rolling sum SOX
99.900 Tons/Yr	12-month rolling sum, PM TSP
23.310 Tons/Yr	12-month rolling sum NOX
20.970 Tons/Yr	12-month rolling sum (pre-closure) VOC
30.330 Tons/Yr	12-month rolling sum PM10
8.440 Tons/Yr	12-month rolling sum PM2.5
15.060 Tons/Yr	12-month rolling sum (pre-closure) Hazardous Air Pollutants
19.980 Tons/Yr	12-month rolling sum (post-closure) VOC
14.500 Tons/Yr	12-month rolling sum (post-closure) Hazardous Air Pollutants



SECTION G. Emission Restriction Summary.

**SECTION H. Miscellaneous.**

1. The Department has determined that emissions from the following activities, excluding those indicated as Site Level Requirements in Section C of this permit, do not require additional limitations, monitoring or recordkeeping.

Storage Tanks**Material - Size - Location**

a. Propane (FML001) - 250 gallon for flare (C07) pilot- Enclosed Flare Propane Storage

b. Waste Oil - 300 gallon - Engine No. 1 Building

- 300 gallon - Engine No. 3 Building

- 275 gallon - Maintenance Building

- 385 gallon - Recycling Collection Center

Diesel - 500 gallon on-road - Fuel Island

- 275 gallon - Maintenance Building

- 500 gallon- Maintenance Building

- 2 @ 300 gallon each - Mobile refueling Unit

- 575 gal (FML002) for 102 hp Emergency Generator Source ID 102

- 500 gallon for 335 hp Emergency Generator Source ID 111 - Pump House 1

Gasoline - 300 gallons - Fuel Island

Water - 6,000 gallons - Mobile Spraying Unit

Leachate - 14,000 gallons - Pump House No. 2

- 6,000 gallons - Pump House No. 3

- 4,000 gallons - Pump House No. 4

- 2@ 330,000 gallons each - Pump House 1

- 800 gallon raw leachate process tank - Reverse Osmosis Treatment Plant

Condensing Boiler 205,000 Btu/hr - Reverse Osmosis Treatment Plant

50,000 Btu/hr infrared heater (natural gas fired)

Space Heaters

1 @ 118,000 Btu/hr No. 2 distillate fuel fired - Maintenance Building

1@ 30,000 Btu/hr natural gas fired

2. The original State Only Operating Permit 15-00060 (APS 469027 AUTH 485313) issued on June 6, 2006 serves as the basis for certain terms and conditions set forth in this State Only Operating Permit.

3. November 16, 2011: This issuance of the State Only Operating Permit (APS #469027 AUTH # 881213) incorporates Plan Approval PA-15-0060C and RFD 15-A01-1130.

4. May, 2013: This initial issuance of the Title V Operating Permit (APS # 770788 AUTH # 911535) incorporates Plan Approval 15-0060D.

5. The following changes from SOOP 15-00060 are made with the initial issuance of TVOP 15-00060:

Section A:

Fuel Material Locations are added for propane, diesel fuel and natural gas.

The Parts Washer is added as a source and a map included.

The permit maps for Source ID 102 and 103 are revised to include the fuel.

The permit map for Source 105 is revised to include the flare.

Section C:**Emissions Restrictions-**

- Emissions limitations are indicated as being finalized after the incorporation of Plan Approval 15-0060G.

Monitoring-

- Tiered monitoring is removed. Perimeter monitoring will be required once daily. The facility monitoring condition is revised to include the requirement for appropriate action to be taken upon observation of odors, fugitive or visible emissions.

Recordkeeping-

A condition is included for recordkeeping of facility-wide emissions of NO_x, CO, VOC, SO_x, PM₁₀/PM_{2.5} and HAP on a monthly and on a 12-month rolling basis.

Reporting-

**SECTION H. Miscellaneous.**

- The condition for reporting of accidental releases pursuant to 40 CFR Part 68 is removed, as the condition is included in Section B.
- The wording of the AIMS reporting requirement is revised to conform to current Department practice.
- A condition for semi-annual deviation reporting is added for the Title V facility.

Work Practice-

- The reference for the condition prohibiting modifications without Department approval is revised for the Title V.

Section D**Source ID 102**

- The applicable conditions of 40 CFR Part ZZZZ are included.

Source ID 105**Throughput Restriction-**

- The condition is revised to reflect issuance of the solid waste permit for the North cell re-grade.

Source ID C05**Fuel Restriction-**

- The condition is revised to permit use of landfill gas from all Department approved sources.

Testing-

- Conditions reflecting current Department guidance for NMOC concentration and destruction efficiency testing are included.

Monitoring-

- The condition is revised to include monitoring from all Department approved landfill gas sources.

Recordkeeping-

The requirement to record emissions on a 12-month rolling basis is added.

Source ID 110

Requirements for the source are included.

Recordkeeping- solvent loss on an annual basis.

Work Practice- requirements of 25 Pa. Code Section 129.63.

Additional- description of the parts washer.

The following changes to Source C07 requirements are made with incorporation of Plan Approval 15-0060D.

Fuel Restriction-

- The condition is revised to allow use of landfill gas from all Department approved sources.

Testing-

The testing requirement from the Plan Approval is included on a once in 5 years basis. Current Department guidelines for test report preparation are included.

Recordkeeping

The recordkeeping condition for methane content of the fuel is revised to include analysis by a gas chromatograph or "equivalent instrument."

6. August, 2013: The Title V Operating Permit (APS # 770788 AUTH # 978753) is amended to incorporate Plan Approval 15-0060F for IC engine Source ID C08 and change the permit contact and responsible official to Scott Mengle.

The following changes are made with the incorporation of Plan Approval 15-0060F:

Section C

Facilitywide emissions limitations are referenced to Plan Approval 15-0060G.

Malfunction reporting condition is included in accordance with Department guidelines.

**SECTION H. Miscellaneous.****Section D**

The requirements of 40 CFR Part 60 Subpart JJJJ are included.

Emission Restrictions

- Formaldehyde limitation is set in accordance with Department guidelines for Risk Assessment.
- Emissions of NOx, CO and VOC on a 12-month rolling basis are referenced to Plan Approval 15-0060G.

Fuel Restriction

- The condition is revised to allow use of landfill gas from all Department approved sources.

Operating Hours Restriction

- The condition is removed, pursuant to Plan Approval 15-0060G.

Throughput Restriction

- A typographical error is corrected to 14.19 MMBtu/hr.

Testing

- The testing requirement from the Plan Approval is included on a once in 5-year basis, with either destruction efficiency or NMOC concentration determination required. Current Department guidelines for report preparation and testing procedures for NMOC compliance demonstration are included.

Recordkeeping

A condition for the keeping of a running log of the hours of operation since the last test pursuant to 40 CFR Section 60.4243(b)(2)(ii) is included.

Work Practice

- A limit of 2 business days is included for reporting of the engines's inoperation.

7. August, 2019: APS # 770788, AUTH # 1205324

The Operating Permit is renewed and Plan Approval 15-0060G is incorporated.

The following changes were made with the renewed TVOP. Condition numbers refer to the August 16, 2013 amended issuance.

Section G was rearranged to keep the minor source listing in Item 1. Item 1 was modified to account for changes in the insignificant sources as follows:

Size changes: 2 waste oil tanks to 300 gal. from 275 gal., 1 water tank to 6000 gal from 2000 gal.

Location change: 1 - 500 gal diesel tank and 1- 300 gal gasoline located to Fuel Island

Correction : to 2- 330,000 gal leachate tanks from 2 @33,000 gal.

Additions: leachate; 1@4000 gal, 1@800 gal., 1-diesel @500 gal., 1- condensing boiler @ 205,000 Btu/hr, 1 infrared heater @ 50,000 Btu/hr, 1-space heater @30,000 Btu/hr.

Cover Page

Steve Burn's title was changed to "Site Manager."

Section A

The Leachate Evaporators (Source ID 103) were removed and an Emergency Generator (335 hp) (Source ID 111) was added.

All references to condition numbers in the Operating Permit apply to the August 16, 2013 amended issuance of the Operating Permit 15-00060. All references to condition numbers in the Plan Approval apply to the September 24, 2013 modified issuance of the Plan Approval 09-0060G.

The wording of the following standard facility-wide conditions in the Operating Permit was changed based on current Department guidance.

Section C, Operating Permit

Condition #002 – regulatory reference to the open burning prohibition was included.

Condition #003 – regulatory reference was included

Condition #006 – The condition was revised to include the exemptions of opacity training and the regulatory reference for the

**SECTION H. Miscellaneous.**

allowable fugitive emissions.

Condition #008

The complete list of exceptions in 25 Pa. Code Section 129.14(c) to the open burning prohibition was included.

Condition #009

In part (b) of the condition, a reference to the latest version of the DEP Source Test manual was included.

Condition #012

The regulatory references for prohibitions against odors, visible and fugitive emissions were included to better define the monitoring required.

Condition #013

"Monthly" was added to the recordkeeping requirement for landfill gas volumes, on a 12-month rolling basis, since the monthly amount must be known before the 12-month rolling amount is calculated.

Condition #014

Was combined with similar condition Section C #003 from Plan Approval 15-0060G.

Condition #023

Paragraph (b) of this condition was removed, since it no longer fits DEP guidelines for standard conditions.

Section C, Plan Approval

The following Conditions from the Plan Approval were incorporated into the Operating Permit, Section C:

#001, pertaining to facility emissions limits.

#002, pertaining to the keeping of records for 5 years

#003, pertaining to calculating and recording emissions from individual sources and the facility. Condition #003 was modified to include use of emission factors from the latest stack test if available.

#004, pertaining to addresses for notices and reports. The condition was modified to include electronic reporting

Condition #005, #006 were removed since they only apply to the Plan Approval

Section D, Operating Permit

Source ID 102

Condition #005

The following changes were made in response to the US Court of Appeals vacatur on May 2, 2016.

"Emergency demand response" was removed from the lead paragraph.

Paragraphs (b)(2) and (3) were removed.

Paragraph (c)(1) was removed, since the applicability date has passed.

Condition #012

40 CFR Sections 63.6640(f)(2)(ii) – (iii) was removed in response to the Court of Appeals vacatur.

Condition #023

Section (b) containing the compliance date for 40 CFR Part 63 Subpart ZZZZ was removed, since the date is past.

Additional

Source ID 102 was grouped with Source ID 111, which has the same conditions, into Section E, Emergency Generator Engines.

Section D, Operating Permit

Source ID 105

Condition #001, pertaining to finalization of emissions was removed, since the emissions limits are finalized herein.

Condition #002, pertaining to allowable waste capacity was replaced by Condition #007 from the Plan Approval

Conditions #003 and #004, pertaining to calculation of VOC emissions were combined with a similar emissions calculation condition in Section C

Condition #005, pertaining to recordkeeping for road wetting, was moved to Section C

Condition #007, pertaining to good operating and maintenance practices was removed since it is covered by the Section C condition.

**SECTION H. Miscellaneous.****Section D, Plan Approval
Source ID 105**

In All references to requirements of 40 CFR Part 60 Subpart WWW conditions as being Best Available Technology were removed. While the conditions do define Best Available Technology, pursuant to DEP's Landfill Guidance Document (275-2101-007), the facility is now subject to 40 CFR Part 60 Subpart WWW conditions in its own right with inclusion of the Willa expansion. This has affected Conditions

#001, #002, #003, #004, #011, #014, #015, #016, #017, #023, #025, #032, #033, #036 of the Plan Approval.

Condition #001

(a) The date the gas collection and control plan was received was included, since the no additional submissions are currently required.

(b) The phrase "and subsequent modifications" was included since the GCC plan can be revised.

(c) This condition required installation of the gas collection and control system within 30 months of the issuance of the Plan Approval. It was removed since the gas collection control system is operating. The condition was replaced with the requirement to maintain the gas collection and control system.

Condition #006

The condition was removed since the NMOC emission rate was determined to be 50 megagrams per year and the landfill gas collection and control system has been installed.

Condition #012

The condition specifying the calculation procedure for the annual NMOC emission rate from the landfill was removed since 50 megagrams per year has been exceeded and the landfill gas control system installed.

Condition #013

The requirement to submit the VOC/NMOC ratio determination report within 90 days of completion of the testing, to the Air Quality Manager, was included.

Conditions #019, #020, #021, #027, #028, #034, #035

The introductory phrase "by the time the landfill is required to install a collection and control system" was removed from the conditions since the time for this requirement has passed.

Condition #022

The condition was removed, since the owner/operator is exempted from the required annual NMOC reporting once the gas collection and control system is installed and operational.

Condition #026

The condition was removed since the report indicating a design capacity of over 2.5 million megagrams and cubic meters was submitted.

**Section D, Operating Permit
Source ID C05****Condition #002, #009**

The Willa expansion was added to the list of landfill area approved to deliver landfill gas to the engine.

Condition #005

The newly applicable authority of 40 CFR Section 60.752(b)(2)(iii)(B) was added to the condition.

Condition #006

The Condition was updated for current guidelines for stack testing to include 90 days for protocol review, including 90 days for protocol approval, a single protocol for routine testing under the same conditions, and removal of the reference to DEP's Source Testing Manual. The Condition was combined with similar ones for Source IDs C07 and C08 and placed in Section E (Stack Tests).

Conditions #007 and #008, pertaining to stack test submissions were replaced with an updated condition, in Section E (Stack

**SECTION H. Miscellaneous.**

Tests), requiring provision of 1 electronic and 1 paper copy submission to the Regional Office and to DEP's stack testing group was added based on recent guidance from DEP's Source Test Group. The updated condition also includes requirement for organization of pertinent information related to the stack test.

Condition #010

The emissions recordkeeping condition was combined with the emissions recordkeeping condition from the Plan Approval (Condition #007) to include individual source emissions on a 12-month rolling basis as well as the combined C05, C07 and C08.

Additional

The requirements of 25 Pa. Code Sections 129.203 and 129.204 for C05 and C08 were added to a new Section E (Small NOx).

Section D, Plan Approval**Source ID C05****Condition #006**

The newly applicable authority of 40 CFR Section 60.758(b) was added to the performance testing and vendor specification recordkeeping condition.

Condition #008

The start-up, shutdown and malfunction definition condition was stated under the authority of 40 CFR Section 60.755(e) only.

Operating Permit**Source ID C07****Condition #001**

The emissions limits were replaced by emissions limits from Plan Approval 15-0060G.

Condition #002

The Condition was updated for current guidelines for stack testing to include 90 days for protocol review, including 90 days for protocol approval, a single protocol for routine testing under the same conditions, and removal of the reference to DEP's Source Testing Manual. The condition was combined with similar ones for Source IDs C05 and C08 and placed in Section E (Stack Tests).

Conditions #003 and #004, pertaining to stack test submissions, were replaced with an updated condition in Section E, (Stack Tests), requiring provision of 1 electronic and 1 paper copy to the Regional Office and DEP's stack testing group was added based on recent guidance from DEP's Source Test Group. The updated condition also includes requirement for organization of pertinent information related to the stack test.

Condition #005, #008

The Willa expansion was added to the list of landfill areas approved to deliver landfill gas to the engine.

Condition #006

Emissions calculations on a monthly & 12-month rolling basis was added to the condition for the source and combination of sources C05, C06, C07.

Condition #007

Part (b) of the condition, pertaining to annual reporting of pollutants to the Department, was removed since the requirement is covered under the annual source report, Section C, Condition #022.

Condition #008

*Paragraphs (b) and (c) limiting the flare as a back-up or temporary control device were replaced with conditions from the Plan Approval allowing it's use as a primary control device if the production of landfill gas exceeds the capacity of the 2 engines.

*1600 °F was replaced with requirements from 40 CFR Part 60 Subpart WWW, setting the temperature not to be operated for each 3-hour period of operation based on rolling hourly data, an average combustion temperature of no more than 28°C(50.4°F) below the average combustion temperature during the most recent performance test in which compliance with the destruction efficiency/NMOC removal was demonstrated.

Plan Approval**Source ID C07**

**SECTION H. Miscellaneous.****Condition #002**

The condition requiring NMOC 98% destruction efficiency or NMOC outlet concentration of 20ppmdv was added under the authority of 40 CFR Section 60.752(b)(2)(iii)(B), since the regulation now directly applies to the facility.

Condition #004, #006, #007, #011

The reference to BAT was removed with the incorporation of the conditions, since the requirements from 40 CFR Part 60 Subpart WWW now apply directly to the flare.

Operating Permit

Source ID C08

Condition #001

Limits per 12-month rolling period were added from the Plan Approval

Condition #002, #009

The Willa expansion was added to the list of landfill areas approved to deliver landfill gas to the engine.

Condition #004

The newly applicable authority of 40 CFR Section 60.752(b)(2)(iii)(B) was added to the condition.

Conditions #005, #008

The Conditions were updated for current guidelines for stack testing to include 90 days for protocol review, including 90 days for protocol approval, a single protocol for routine testing under the same conditions, and removal of the reference to DEP's Source Testing Manual. The condition was combined with similar ones for Source IDs C05 and C07 and placed in Section E (Stack Tests).

Conditions #006, #007 pertaining to stack test submissions were replaced with an updated condition in Section E, (Stack Tests), requiring provision of 1 electronic and 1 paper copy submission to the Regional Office and to DEP's stack testing group was added based on recent guidance from DEP's Source Test Group. The updated condition also includes requirement for organization of pertinent information related to the stack test.

Condition #010

The emissions recordkeeping condition was combined with the emissions recordkeeping condition from the Plan Approval (Condition #007) to include individual source emissions on a 12-month rolling basis as well as the combined C05, C07 and C08.

Additional

The requirements of 25 Pa. Code Sections 129.203 and 129.204 were added for Source IDs C05 and C08 in a new Section E (Small NOx).

Plan Approval

Source ID C08.

Condition #006

The newly applicable authority of 40 CFR Section 60.758(b) was added to the condition.

Condition #009

The start-up, shutdown and malfunction definition condition was stated under the authority of 40 CFR Section 60.755(e) only.

8. November 2023: APS # 770788, AUTH # 1415666

The facility became subjected to 40 C.F.R. Part 62, Subpart OOO on June 21, 2021. 40 CFR Part 63, Subpart AAAA was amended, and new requirements of Subpart AAAA became effective on September 27, 2021. 40 CFR Part 62, Subpart OOO allows affected facilities the option to comply with certain major provisions of Subpart AAAA in lieu of Subpart OOO. The existing requirements under 40 CFR Part 60, Subpart WWW were replaced with the corresponding requirements of and references to Subpart AAAA, as amended in the operating permit.

9. April 2025: APS # 770788, AUTH # 1451103**Emission Sources/Activities Added to the Facility****Unit Description Size Location**

**SECTION H. Miscellaneous.**

Propane Tank for Source ID 112 (FML001) 1,000 gallons Engine No.1 Building
Waste Oil Tank 600 gallons Maintenance Building
Diesel Tank (off-road) 1,000 gallons Fuel Island
Diesel Tank Two at 600
gallons each Mobile Refueling Unit
Diesel Tank for Source 102 (FML002) 775 gallons Maintenance Building
Water Tank 4,000 gallons Mobile Spraying Unit
Condensing Boiler (Natural Gas) 41,000 Btu/hr Reverse Osmosis Treatment Plant
Shop Heater (Natural Gas) 400,000 Btu/hr Maintenance Building
Infrared Radiant Heater (Propane) 80,000 Btu/hr Engine No. 1 Building
Infrared Radiant Heater (Natural Gas) 60,000 Btu/hr Water Truck Shed
Two Hot Dawg Heaters (Natural Gas) Two at 30,000
Btu/hr each Reverse Osmosis Treatment Plant
Infrared Radiant Heat Tube (Natural Gas) 50,000 Btu/hr Reverse Osmosis Treatment Plant

Emission Sources/Activities Removed From the Facility

Unit Description	Size	Location
Diesel Tank	275 gallons	Maintenance Building
Diesel Tank	500 gallons	Maintenance Building
Diesel Tank	Two at 300 gallons each	Mobile Refueling Unit
Diesel Tank for Source 102 (FML002)	575 gallons	Maintenance Building
Space Heater (No. 2 Fuel Oil)	118,000 Btu/hr	Maintenance Building



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