



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: March 27, 2026

Effective Date: April 1, 2026

Expiration Date: March 31, 2031

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: 06-05112

Federal Tax Id - Plant Code: 20-4329021-1

Owner Information

Name: WESTERN BERKS LDFL ACQUISITION CO LLC
Mailing Address: 455 POPLAR NECK RD
BIRDSBORO, PA 19508-8300

Plant Information

Plant: WB COMM LDFL & RCYL CTR/WESTERN BERKS LDFL
Location: 06 Berks County 06928 Cumru Township
SIC Code: 4953 Trans. & Utilities - Refuse Systems

Responsible Official

Name: SCOTT PERIN
Title: AREA DIR OF DISPOSAL OPS
Phone: (484) 239 - 7914 Email: sperin@wm.com

Permit Contact Person

Name: PAUL BERMILLO
Title: SR DISTRICT MGR
Phone: (215) 266 - 5886 Email: pbermil2@wm.com

[Signature] _____
WILLIAM R. WEAVER, SOUTH CENTRAL REGION AIR PROGRAM MANAGER



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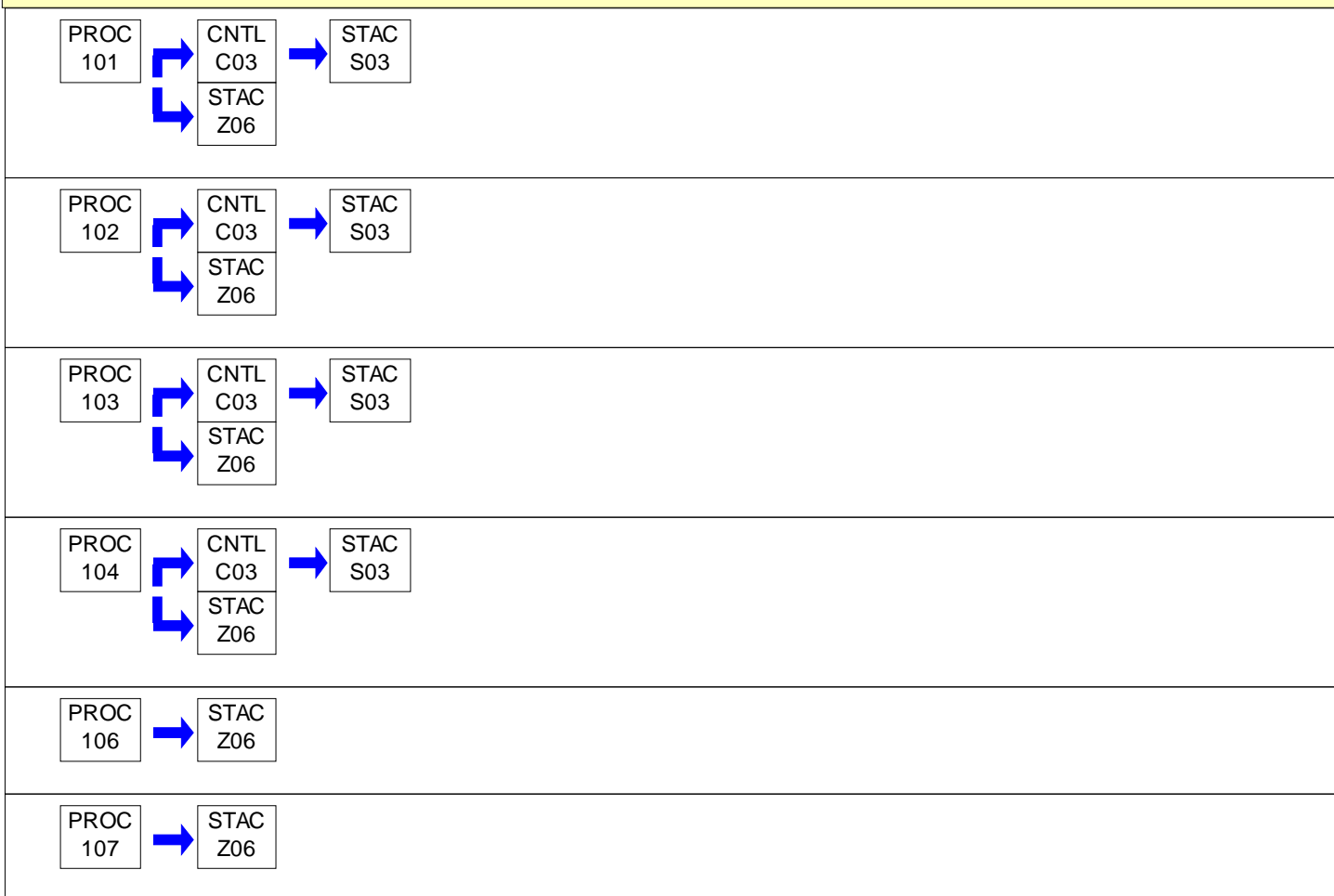
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Source ID	Source Name	Capacity/Throughput	Fuel/Material
101	LANDFILL CELL A	50.000 Cu Yd/HR	MUNICIPAL SOLID WASTE
102	LANDFILL CELL B-1	50.000 Cu Yd/HR	MUNICIPAL SOLID WASTE
103	LANDFILL STRIP EXPANSION CELL	100.000 Cu Yd/HR	MUNICIPAL SOLID WASTE
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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

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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 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.

**SECTION B. General Title V Requirements****#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.

#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.

**SECTION B. General Title V Requirements****#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].

#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.

**SECTION B. General Title V Requirements****#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.
- (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

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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.

(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.

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(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 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

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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 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.

**SECTION B. General Title V Requirements****#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.

#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:

**SECTION B. General Title V Requirements**

- (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.
- (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.

**SECTION B. General Title V Requirements**

(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 fugitive air contaminants from a source other than the following:

- (1) Construction or demolition of buildings or structures.
- (2) Grading, paving and maintenance of roads and streets.
- (3) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.
- (4) Clearing of land.
- (5) Stockpiling of materials.
- (6) Sources and classes of sources other than those identified in paragraphs (a) - (e), for which the operator has obtained a determination from the Department in accordance with 25 Pa. Code Section 123.1(b) 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**

No person shall permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in the preceding permit Condition #001, Section C, if such emissions are visible at the point the emissions pass outside the person's property.

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

No person shall emit any malodorous air contaminants into the outdoor atmosphere 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**

No person shall emit visible air contaminants into the outdoor atmosphere in such a manner that the opacity of the emission is either of the following unless otherwise stated in this permit:

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

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

The limitations of 25 Pa. Code Section 123.41 (relating to limitations) do not apply to a visible emission in any of the following instances:

- (1) When the presence of uncombined water is the only reason for failure of the emission to meet the limitations.
- (2) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- (3) When the emission results from sources specified in Section C, Condition #001 (relating to prohibition of certain fugitive emissions).

**SECTION C. Site Level Requirements****# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall limit the facility's annual emissions to less than the following thresholds during any consecutive 12-month period:

- (a) PM-10 - 36 tons
- (b) NOx - 15.8 tons
- (c) CO - 52.6 tons
- (d) SOx - 24 tons
- (e) VOC - 19.7 tons
- (f) HAP (single) - less than 10 tons
- (g) HAP (total) - less than 25 tons

Compliance verification requires emissions to be calculated and recorded for each month and each consecutive 12-month period.

II. TESTING REQUIREMENTS.**# 007 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

- (1) A device approved by the Department and maintained to provide accurate opacity measurements.
- (2) Observers, trained and certified, to measure plume opacity with the naked eye, as per EPA Method 9, or with the aid of any devices approved by the Department.

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

The Department reserves the right to require exhaust stack testing of any source as necessary during the permit term to verify emissions for purposes including emission fees, malfunctions or permit condition violations.

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

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

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

(a) Unless otherwise approved in writing by DEP, the permittee shall do the following:

- (1) Conduct performance testing on the flare for NMOC reduction efficiency or the outlet concentration prior to submitting the permit renewal application utilizing methodology outlined in any applicable federal regulations, 25 Pa. Code Section 139 and the Department's Source Testing Manual. The stack test shall be performed at least 180 days prior to the expiration of this permit but no more than 18 months prior to the expiration of this permit.
- (2) Submit to DEP a test protocol for review and approval within 90 days of commencing an emissions testing program, and not conduct the test that is the subject of the protocol until the protocol has been approved by DEP.
- (3) If DEP finds deficiencies in the protocol, the permittee shall provide a response to DEP addressing the deficiencies within 30 days of being notified of the deficiencies.
- (4) Complete the performance test within 90 days of DEP's approval of the test protocol.
- (5) Conduct the performance test during source operational conditions expected to produce maximum emissions.

**SECTION C. Site Level Requirements**

- (b) Pursuant to 25 Pa. Code § 139.3 at least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the appropriate Regional Office. Notification shall also be sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.
- (c) Pursuant to 25 Pa. Code Section 139.53(a)(3) within 15 calendar days after completion of the on-site testing portion of an emission test program, if a complete test report has not yet been submitted, an electronic mail notification shall be sent to the Department's Division of Source Testing and Monitoring and the appropriate Regional Office indicating the completion date of the on-site testing.
- (d) Pursuant to 40 CFR Part 60.8(a), 40 CFR Part 61.13(f) and 40 CFR Part 63.7(g) a complete test report shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an emission test program. For those tests being conducted pursuant to 40 CFR Part 61, a complete test report shall be submitted within 31 days after completion of the test
- (e) Pursuant to 25 Pa. Code Section 139.53(b) a complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or non-compliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:
- (1) A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.
 - (2) Permit number(s) and condition(s) which are the basis for the evaluation.
 - (3) Summary of results with respect to each applicable permit condition.
 - (4) Statement of compliance or non-compliance with each applicable permit condition.
- (f) Pursuant to 25 Pa. Code § 139.3 to all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.
- (g) All testing shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection.
- (h) Pursuant to 25 Pa. Code Section 139.53(a)(1) and 139.53(a)(3) all submittals, besides notifications, shall be accomplished through PSIMS*Online available through <https://www.depgreenport.state.pa.us/ecommm/Login.jsp> when it becomes available. If internet submittal cannot be accomplished, submittal shall be made as follows:
- Regional Office:
Digital copy (only): RA-epscstacktesting@pa.gov
- Bureau of Air Quality:
Digital copy (only): RA-epstacktesting@pa.gov
- (i) The permittee shall ensure all federal reporting requirements contained in the applicable subpart of 40 CFR are followed, including timelines more stringent than those contained herein. In the event of an inconsistency or any conflicting requirements between state and the federal, the most stringent provision, term, condition, method or rule shall be used by default.

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

The permittee shall conduct a daily inspection around the facility periphery during the daylight hours when the facility is in production to detect visible emissions, fugitive emissions and malodors as follows:

- (a) Visible emissions in excess of the limits stated in Section Condition #004. Visible emissions may be measured according to the methods specified in Section C, Condition #007. As an alternative, facility personnel who observe such

**SECTION C. Site Level Requirements**

visible emissions shall report each incident to the Department within two hours of each occurrence and make arrangements for a certified observer to read the visible emissions.

(b) Presence of visible fugitive emissions and fugitive particulate matter beyond the plant property boundaries, as stated in Section C, Condition #002.

(c) Presence of odors beyond the facility property boundaries that have the potential to be malodorous as stated in Section C, Condition #003.

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

The permittee shall maintain a logbook of inspections as referenced in Section C, Condition #011. The logbook shall include, at a minimum, the following information:

- (1) The name of the company representative doing the observation.
- (2) The date and time of the monitoring.
- (3) The wind direction noted during the observation.
- (4) A description of any emissions and/or malodors observed and actions taken to mitigate them. If none, record "NONE."

These records shall be maintained at the facility for the most recent five (5) year period and be made available to the Department upon request.

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

The permittee shall keep the following records:

- (a) The maximum design capacity of each cell as approved by the Department
- (b) The current amount of waste in each cell at the end of each month
- (c) The amount of waste accepted each calendar year starting with the year 2008
- (d) The location of each well and vented manhole in each cell
- (e) The date and location of each new well or vent installed in each cell
- (f) The location of all underground or aboveground piping that is part of the gas collection system

V. REPORTING REQUIREMENTS.**# 014 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

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

(a) Malfunctions which pose an imminent danger to public health, safety, welfare and the environment, shall be immediately reported to the Department by telephone. The telephone report of such malfunctions shall occur no later than two hours after discovery of the incident. Telephone reports can be made to the Reading District Office at (610) 916-0100 during normal business hours, or to the Department's Emergency Hotline at any time. The Emergency Hotline phone number is changed/updated periodically. The current Emergency Hotline phone number can be found at <https://www.dep.pa.gov/About/Regional/SouthcentralRegion/Pages/default.aspx>. The permittee shall submit a written report of instances of such malfunctions to the Department within three (3) days of the telephone report.

(b) Unless otherwise approved by DEP, all malfunctions shall be reported through the Department's Greenport PUP system available through: <https://greenport.pa.gov/ePermitPublicAccess/PublicSubmission/Home>

**SECTION C. Site Level 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.

015 [25 Pa. Code §129.14]

Open burning operations

(a) No person may permit the open burning of material in the air basin except where the open burning operations result from the following:

- (1) 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.
- (2) Any fire set for the propose of instructing personnel in fire fighting, when approved by the Department.
- (3) A fire set for the prevention and control of disease or pests, when approved by the Department.
- (4) A fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.
- (5) A fire set solely for recreational or ceremonial purposes.
- (6) A fire set solely for cooking food.

(b) This permit does not constitute authorization to burn solid waste pursuant to Section 610(3) of the Solid Waste Management Act, 35 P. S. Section 6018.610(3), or any other provision of the Solid Waste Management Act.

VIII. COMPLIANCE CERTIFICATION.

The permittee shall submit within thirty days of 01/01/2026 a certificate of compliance with all permit terms and conditions set forth in this Title V permit as required under condition #026 of section B of this permit, and annually thereafter.

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

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

**SECTION D. Source Level Requirements**

Source ID: 101

Source Name: LANDFILL CELL A

Source Capacity/Throughput:

50.000 Cu Yd/HR

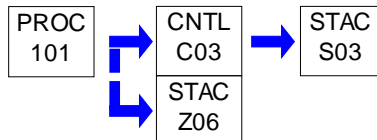
MUNICIPAL SOLID WASTE

Conditions for this source occur in the following groups: SG01 LANDFILL CELLS

SG02

SG03

SG04

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall place no more waste in Cell A.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit the amount of waste disposed in the landfill to that set by the DEP in the current Waste Management Permit.

Operation Hours Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit the operations on the cell to the hours set by the Department's current Waste Management Permit.

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.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall, at a minimum, conduct leak checks once per month on each gas vent and vented manhole. No leak shall exceed 500 ppmv propane (1365 ppmv as methane) at a distance of 0.5 inches.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records of all monitoring, inspections and repairwork. These records may be included and maintained with the records for the other cells at the facility. The permittee shall clearly identify how the records are being recorded and maintained.

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.****# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall notify the Department thirty (30) days prior to any changes in the cell's gas collection system.

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

The permittee shall report all malfunctions and excursions, corrective actions taken, dates, times, durations and possible causes of the events to the Department every six months. This shall be part of the semi-annual compliance reports. The report shall include all monitoring down times not associated with malfunctions and/or excursions.

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

The permittee shall notify the Department's Air Quality Program of any changes to their permit limitations under the Department's Waste Management Program that effect the requirements and conditions within this permit.

VI. WORK PRACTICE REQUIREMENTS.**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall direct the landfill gas collected from the cell to the No. 1 enclosed flare or the third-party LFGE plant. The only exemption to this is if the permittee is actively working on parts of the cell or the collection and control system.

VII. ADDITIONAL REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Cell A is subject to 40 CFR 62, Subpart OOO and 40 CFR 63, Subpart AAAA requirements.

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

**SECTION D. Source Level Requirements**

Source ID: 102

Source Name: LANDFILL CELL B-1

Source Capacity/Throughput:

50.000 Cu Yd/HR

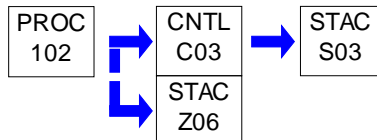
MUNICIPAL SOLID WASTE

Conditions for this source occur in the following groups: SG01 LANDFILL CELLS

SG02

SG03

SG04

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

The permittee shall limit the amount of waste disposed in the landfill to that set by the DEP in the current Waste Management Permit.

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

The Landfill Cell B-1 is subject to the Departments "Best Available Technology" requirements, 40 CFR 62, Subpart OOO and 40 CFR 63, Subpart AAAA requirements.



SECTION D. Source Level Requirements

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

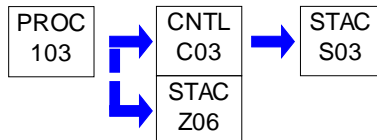
**SECTION D. Source Level Requirements**

Source ID: 103

Source Name: LANDFILL STRIP EXPANSION CELL

Source Capacity/Throughput: 100.000 Cu Yd/HR MUNICIPAL SOLID WASTE

Conditions for this source occur in the following groups: SG01 LANDFILL CELLS
 SG02
 SG03
 SG04

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

The permittee shall limit the amount of waste disposed in the landfill to that set by the DEP in the current Waste Management Permit.

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

The Strip Expansion Cell is subject to the Departments "Best Available Technology" requirements, 40 CFR 62, Subpart OOO and 40 CFR 63, Subpart AAAA requirements.



SECTION D. Source Level Requirements

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

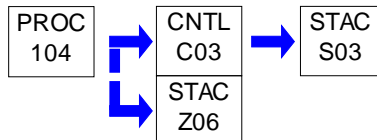
**SECTION D. Source Level Requirements**

Source ID: 104

Source Name: LANDFILL EASTERN EXPANSION CELL

Source Capacity/Throughput: 100.000 Cu Yd/HR MUNICIPAL SOLID WASTE

Conditions for this source occur in the following groups: SG01 LANDFILL CELLS
 SG02
 SG03
 SG04

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

The permittee shall limit the amount of waste disposed in the landfill to that set by the DEP in the current Waste Management Permit.

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

The Eastern Expansion Cell is subject to the Departments "Best Available Technology" requirements, 40 CFR 62, Subpart OOO and 40 CFR 63, Subpart AAAA requirements.



SECTION D. Source Level Requirements

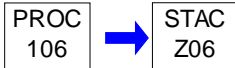
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 106

Source Name: PAVED AND UNPAVED ROADWAYS

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 permittee shall maintain sufficient records to determine the annual emissions from the various roadways at the facility.

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 §127.441]****Operating permit terms and conditions.**

The permittee shall maintain records of the sweeping and/or watering activities in a daily log for both paved and unpaved roadways and unloading areas. The permittee shall also record all maintenance actions on the various roadways.

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

(a) On paved roadways, the permittee shall:

- (1) During dry periods, sweep and/or water at least twice each day of operation, and
- (2) During wet periods, sweep and/or water as necessary to control dust and mud.

(b) On unpaved roadways, unloading areas and shoulders, the permittee shall:

- (1) During dry periods, water at least twice per day, and
- (2) During wet periods, water as necessary.

(c) On all roadways, under all conditions, the permittee shall not apply water in amounts that result in muddy conditions. The permittee shall clean-up any dirt or mud carried off the landfill as necessary.

**SECTION D. Source Level Requirements****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee may use Department approved dust suppression agents (such as calcium chloride) to minimize dust emissions from both paved and unpaved roadways and unloading areas. Use of these agents shall be recorded with the other roadway maintenance records.

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

The permittee shall follow their plan for the minimization of mud as found in the facility's plan for the Department's Waste Management Program. The permittee shall make a copy of this plan available to the Department upon request.

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

(a) The permittee shall limit the vehicle speed at the landfill as follows:

- (1) Paved roadways - 25 miles per hour
- (2) Unpaved areas - 15 miles per hour

(b) The permittee shall post speed limit signs approximately every 5,000 feet and at all points of speed change on all permanent or semi-permanent roadways.

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

All vehicles entering and exiting the facility shall be covered.

VII. ADDITIONAL REQUIREMENTS.

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

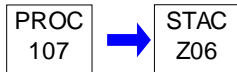
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 107

Source Name: CONSTRUCTION

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 permittee shall maintain sufficient records to determine the annual emissions from the construction operations at the landfill.

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

Unless otherwise approved by the Department, the permittee shall apply for and receive a General Permit (GP-3) for any equipment brought to the facility to process non-metallic minerals.

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

**SECTION E. Source Group Restrictions.**

Group Name: SG01 LANDFILL CELLS
 Group Description: Municipal Solid Waste Landfill Cells
 Sources included in this group

ID	Name
101	LANDFILL CELL A
102	LANDFILL CELL B-1
103	LANDFILL STRIP EXPANSION CELL
104	LANDFILL EASTERN EXPANSION CELL

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

(a) The permittee shall limit the emissions from the various fill areas and flare during any consecutive 12-month period to the following:

- (1) PM-10 - 10.1 tons
- (2) HCl - 1.2 tons

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT, & PA 06-5112A]

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

The permittee shall operate the enclosed ground flare in a manner that results in no visible emission. Except during start-up, shutdown or malfunctions, the flame shall not be visible above the top of the shroud.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT]

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

(a) The permittee shall limit the emissions from the No. 1 Enclosed Ground Flare to the following rates:

- (1) PM-10 - 0.04 grains per dry standard cubic foot
- (2) Sulfur Oxides - 500 parts per million, by volume, @ 3 percent oxygen
- (3) Non Methane Organic Compounds (NMOC) - 20 part per million, by volume, @ 3 percent oxygen or 98 percent destruction.

[Additional authority for parts of this condition are derived from 25 PA Code Section 127.1, BAT, 40 CFR 60, Subpart WWW, & OP 06-03090]

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

The permittee shall limit the operation of the cells to the hours set by the Department's current Waste Management Permit.

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

The permittee shall limit the amount of waste disposed in each cell to that set by the Department's current Waste Management Permit and this permit.

**SECTION E. Source Group Restrictions.****# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall limit the daily fill rate to that set by the Department's current Waste Management Permit.

Control Device Efficiency Restriction(s).**# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall maintain a minimum temperature at the top of the combustion zone in the enclosed ground flare. This temperature shall not drop more than 50°F (28°C) below the required temperature during any three hour period during the operation of the enclosed ground flare.

(b) The minimum temperature limit for the flare shall be 1500°F. This temperature limit shall be adjusted to the average temperature measure during the most recent source testing for NMOC or the NMOC destruction efficiency, that showed the flare in compliance with the NMOC limits.

(c) The permittee shall note on the temperature records where the temperature was measured and why it was being measured at this point.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT]

[Subpart (a) of above condition shall be superseded upon the facility's compliance with the GCCS portions of Subpart OOO & AAAAA. Compliance with the GCCS requirements shall occur no later than 11/09/2026.]

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

The gas temperature in the interior wellheads shall be less than 62.8°C (145°F). When approved by the Department, the permittee may establish a higher operating temperature at a particular well, after demonstrating that the elevated parameter does not cause fires or significantly inhibit anaerobic decomposition by killing methanogens.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT]

[The above condition shall be superseded upon the facility's compliance with the GCCS portions of Subpart OOO & AAAAA. Compliance with the GCCS requirements shall occur no later than 11/09/2026.]

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

The permittee shall determine the average temperature in the combustion zone of the enclosed ground flare during each NMOC source testing period. This temperature shall be maintained as the minimum temperature of Condition #007 above during the operation of the flare in accordance with this permit.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT and 40 CFR 60, Subpart WWW]

[The above condition shall be superseded upon the facility's compliance with the GCCS portions of Subpart OOO & AAAAA. Compliance with the GCCS requirements shall occur no later than 11/09/2026.]

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

(a) The nitrogen level shall be determined by using the test method as set forth in 40 CFR Part 60, Method 3C, unless the Department has approved an alternative test method.

(b) The oxygen content shall be determined by using the test method set forth in 40 CFR Part 60, Method 3A, unless the Department has approved an alternative test method.

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

**SECTION E. Source Group Restrictions.**

- (2) A data recorder is not required,
- (3) Only two calibration gases are required, a zero and span, and ambient air may be used as the span,
- (4) A calibration error check is not required, and
- (5) The allowable sample bias, zero shift and calibration drift are 10 percent.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT]

[The above condition shall be superseded upon the facility's compliance with the GCCS portions of Subpart OOO & AAAA. Compliance with the GCCS requirements shall occur no later than 11/09/2026.]

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

(a) At a minimum, the permittee shall conduct monthly leak checks on gas pumps, the flare and the parts of the associated landfill gas handling equipment under positive pressure located at the flare. No leaks shall exceed 500 ppmv as propane (1365 ppmv as methane) at a distance of 0.5 inches.

(b) These checks are not required on any enclosed ground flare and associated equipment that is operating for periods less than 12 continuous hours at a time. Any flare and associated equipment that is operating for periods longer than 12 continuous hours, but less than 24 hours, the permittee shall conduct the checks once per quarter. Once the flare and associated equipment is operating continuously (24 hours per day), the checks shall be as noted in the first paragraph.

(c) If the permittee or the Department notices an odor of landfill gas at the flare or associated equipment, a leak check of all equipment shall be conducted.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT & 06-05112C]

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

The permittee shall operate and maintain a gas flow rate measuring device on the enclosed ground flare that provides a measurement of the gas flow to the flare. The device shall record the gas flow rate at least every 15 minutes.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT and 40 CFR 60, Subpart WWW]

[The above condition shall be superseded upon the facility's compliance with the GCCS portions of Subpart OOO & AAAA. Compliance with the GCCS requirements shall occur no later than 11/09/2026.]

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

The permittee shall install and maintain temperature measuring and recording devices on the enclosed ground flare that show the temperature of the gases in the combustion zone. The recording device shall be a continuous recorder having an accuracy of plus or minus one percent on the temperature being measured expressed in degrees Celsius or plus or minus 0.5 degrees Celsius, whichever is greater.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT and 40 CFR 60, Subpart WWW]

[The above condition shall be superseded upon the facility's compliance with the GCCS portions of Subpart OOO & AAAA. Compliance with the GCCS requirements shall occur no later than 11/09/2026.]

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

The permittee shall observe the flare daily for visible emissions.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT]

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

The permittee shall implement a program to monitor for the cover integrity and implement cover repairs as necessary on a monthly basis.

**SECTION E. Source Group Restrictions.**

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT and 40 CFR, 60.755]

[The above condition shall be superseded upon the facility's compliance with the GCCS portions of Subpart OOO & AAAA. Compliance with the GCCS requirements shall occur no later than 11/09/2026.]

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

(a) At a minimum, the permittee shall conduct monitoring of the wellheads monthly for temperature, either nitrogen or oxygen content and gauge pressure using approved methods.

(b) To comply with the above, the permittee shall install and maintain a sampling port on each wellhead, so that the above measurements can be made. The permittee shall maintain on site equipment that can measure at a minimum the temperature and gauge pressure on each well. The permittee shall provide this equipment upon the Department's request.

[Additional authority for this condition is derived from 25 PA Code section 127.1, BAT]

[The above condition shall be superseded upon the facility's compliance with the GCCS portions of Subpart OOO & AAAA. Compliance with the GCCS requirements shall occur no later than 11/09/2026.]

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

At a minimum, the permittee shall monitor the surface concentrations of methane once per quarter in areas of the cells equipped with a collector system. The monitoring shall be conducted in accordance with the surface monitoring plan approved by the Department. This monitoring shall be along the perimeter of the collection area and along a serpentine pattern spaced 30 meters apart (or a site-specific established spacing). Monitoring shall also take place in areas where visual observation indicate elevated concentrations of landfill gas and/or there is a protrusion through the final cover, including wells. The permittee shall use an organic vapor analyzer, flame ionization detector or other portable monitor meeting the specifications provided in 40 CFR Part 60, Subpart WWW, Section 60.755(d).

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

(b) The surface emission monitoring shall be in accordance with Method 21.

(c) The probe shall be placed within 5 to 10 centimeters of the surface.

(d) The monitoring shall be performed during typical meteorological conditions.

The permittee shall maintain a surface monitoring plan for the cells. The plan shall be updated each time the permittee adds additional collection area. The permittee shall submit the modified monitoring plan semi-annually. If no changes have been made the plan does not need to be submitted to the Department.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT and 40 CFR Section 60.755]

[The above condition shall be superseded upon the facility's compliance with the GCCS portions of Subpart OOO & AAAA. Compliance with the GCCS requirements shall occur no later than 11/09/2026.]

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

(a) The permittee shall maintain the following records:

- (1) The monthly volume of gas entering the No. 1 Enclosed Ground Flare,
- (2) The monthly emissions of PM-10, NO_x, CO, SO_x, VOC, HCl and HAP from the landfill,
- (3) A 12-month rolling total of gas entering the No. 1 Enclosed Ground Flare,
- (4) A 12-month rolling total emissions of PM-10, NO_x, CO, SO_x, VOC, HCl and HAP from the landfill,
- (5) Total area of the landfill with a gas collection system installed at the end of each month,
- (6) Total area of landfill with a final cap in place at the end of each month,

**SECTION E. Source Group Restrictions.**

- (7) Total area of landfill at final grade without a collection system and/or cap at the end of each month, and
 (8) Total area of landfill in active disposal or not at final grade at the end of each month.

(b) The permittee shall calculate the emissions in a manner approved by the Department.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT and 40 CFR 60, Subpart WWW]

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

The permittee shall record the results of any inspections of the equipment associated with the enclosed ground flare in a manner approved by the Department. These records shall include any corrective actions taken.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT]

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

The permittee shall record all inspections and calibrations of the monitoring, measuring and recording devices. Any adjustments, repairs and/or replacements shall be recorded. These shall include the date and personnel conducting the action.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT]

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

The permittee shall record all surface monitoring readings. All readings of 500 ppmv or more of methane above the background at any location, during the landfill surface monitoring, shall be recorded as exceedances and corrective actions taken. All corrective actions taken shall be recorded along with the remonitoring results. As long as the specified corrective actions in this permit are taken, per Condition #030, the exceedance is not a violation of the operating requirements.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT]

[The above condition shall be superseded upon the facility's compliance with the GCCS portions of Subpart OOO & AAAA. Compliance with the GCCS requirements shall occur no later than 11/09/2026.]

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

The permittee shall comply with the following recordkeeping requirements for all cells of the landfill including Cell A:

- (a) The permittee shall keep on the site records of the maximum design capacity, the current amount of solid waste in place and a year by year waste acceptance rate,
- (b) The permittee shall keep records of all visible emission readings, heat content determinations, gas flow to the flare, flame monitoring and outages of the flare,
- (c) The permittee shall keep records of the average combustion temperature measured at least every 15 minutes and average over the same time period as the performance test,
- (d) The permittee shall keep a record of the percent reduction of NMOC or emission rate determined during the latest performance test approved by the Department,
- (e) The permittee shall keep a record of all 3-hour periods of operation during which the average combustion zone temperature was more than 50 degrees Fahrenheit below the average combustion zone temperature during the most recent performance test for compliance,
- (f) The permittee shall keep the surface monitoring data, well pressures, temperatures, nitrogen or oxygen concentrations and any other parameters that are available to indicate that the collection system is operating properly,
- (g) The permittee shall keep records of the wells in operation and the wells out of service, if any, on a daily basis,

**SECTION E. Source Group Restrictions.**

(h) The permittee shall keep documentation of the nature, date of deposition, amount, and location of asbestos containing or nondegradable waste excluded from collection as well as any non-landfill gas producing areas excluded from the landfill gas collection system,

(i) The permittee shall maintain an up-to-date, readily accessible plot map showing each existing or planned collector (well or piping) in the system and provide a unique identification location label for each collector and readily accessible records of the installation date and location of newly installed collectors. The plan shall include all areas of asbestos containing waste or nondegradable waste excluded from the collection system and nonproductive areas excluded from the collection area.

(j) The permittee shall keep records of all monitoring activities performed to meet the requirements of 25 PA Code Section 127.1, BAT.

(k) The permittee shall keep records of any exceedances of the collection or control systems, and

(l) The permittee shall maintain all records required under this operating permit and 40 CFR Part 60, Subpart WWW for a minimum period of five (5) years and shall be made available to the department. The permittee may maintain off-site records, if they are retrievable within 4 hours.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT]

[The above condition shall be superseded upon the facility's compliance with the GCCS portions of Subpart OOO & AAAA. Compliance with the GCCS requirements shall occur no later than 11/09/2026.]

V. REPORTING REQUIREMENTS.**# 023 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall report all malfunctions and excursions, corrective actions taken, dates, times, durations and possible causes of events to the Department every six months. This shall be part of the semi-annual compliance reports. The report shall include all monitoring down times not associated with malfunctions and/or excursions.

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

(a) The permittee shall notify the Department in writing of the following within five working days:

- (1) Date each cell reaches final grade,
- (2) Date collection system is complete,
- (3) Start of venting to permanent flare.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT]

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

(a) The permittee, within 10 days of a detected unanticipated positive pressure in the parts of the collection system required to be under negative pressure, shall submit to the Department a brief written notice describing the cause of the unanticipated positive pressure event and the steps taken and/or planned to be taken to remedy the occurrence and prevent the event from occurring in the future. The notice shall transmit monitoring data indicating that the unanticipated positive pressure event has been abated or, if abatement has to be achieved, a supplemental notice and such data shall be forwarded to the Department when abatement is achieved.

(b) This does not include positive pressure resulting from routine maintenance to the system.

026 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The collection devices within the interior and along the perimeter of the cells in this source group shall be certified to achieve comprehensive control of surface gas emissions by a professional engineer. The following issues shall be addressed in the design:

**SECTION E. Source Group Restrictions.**

- (a) Depths of refuse, refuse gas generation rates and flow characteristics, cover properties, gas system expandability, leachate and condensate management, accessibility, compatibility with filling operations, integration with closure end use, air intrusion control, corrosion resistance, fill settlement, and resistance to the refuse decomposition heat.
- (b) The design shall address gas migration issues and augmentation of the collection system through the use of active and passive systems at the landfill perimeter or exterior.
- (c) The collection system shall control all gas producing areas except as provided by 40 CFR Section 60.759(a)(3).

[The above condition shall be superseded upon the facility's compliance with the GCCS portions of Subpart OOO & AAAA. Compliance with the GCCS requirements shall occur no later than 11/09/2026.]

VI. WORK PRACTICE REQUIREMENTS.**# 027 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall operate and maintain a gas collection system and an enclosed ground flare to control the collected landfill gas. This approval allows the permittee to install additional sections of the collection system as the landfill expands to the design capacity and as approved by the Department. The permittee may add additional wells and/or piping to meet the requirements of this permit. These changes shall be submitted to the Waste Management and Air Quality Programs by letter at least fifteen (15) days prior to construction.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT]

[The above condition shall be superseded upon the facility's compliance with the GCCS portions of Subpart OOO & AAAA. Compliance with the GCCS requirements shall occur no later than 11/09/2026.]

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

The gas collection system shall be operated such that all collected gases are vented to a control device (enclosed ground flare) and/or a treatment system at all times. In the event that the active gas collection and/or control/treatment systems are inoperable, valves in the collection and control/treatment system contributing to the venting of the gas to the atmosphere shall be closed within one hour.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT]

[The above condition shall be superseded upon the facility's compliance with the GCCS portions of Subpart OOO & AAAA. Compliance with the GCCS requirements shall occur no later than 11/09/2026.]

029 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

All wellheads and vented manholes shall be airtight and be equipped so at the request of the Department the pressure differential between the vent and the atmosphere can be measured. The wellheads and vented manholes shall be equipped with a sampling port and thermometer.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT]

[The above condition shall be superseded upon the facility's compliance with the GCCS portions of Subpart OOO & AAAA. Compliance with the GCCS requirements shall occur no later than 11/09/2026.]

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

If a surface monitoring reading of 500 ppmv or more of methane above background is measured, the following corrective actions shall be taken until the measurement is below the above limit:

- (a) The location of each monitoring exceedance shall be marked and the location recorded,
- (b) Cover maintenance or adjustments to the vacuum of the adjacent wells to increase the gas collection in the vicinity of each exceedance shall be made and the location shall be re-monitored within ten (10) calendar days of the detecting the

**SECTION E. Source Group Restrictions.**

exceedance,

(c) If re-monitoring of the location shows a second exceedance, additional corrective action shall be taken and the location shall be re-monitored within ten (10) calendar days of the second exceedance,

(d) If a third exceedance is recorded, a new well or collection device shall be installed at the location within 120 calendar days of the initial exceedance, and

(e) If the second monitoring shows no exceedance, the area shall be monitored a third time one month after the initial exceedance, if no regular quarterly monitoring takes place before the one month period.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT]

[The above condition shall be superseded upon the facility's compliance with the GCCS portions of Subpart 000 & AAAAA. Compliance with the GCCS requirements shall occur no later than 11/09/2026.]

031 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall secure any bypass lines in the closed position with a car-seal or a lock-and-key configuration. A visual inspection of the seals or closure mechanisms shall be performed at least once every month to ensure that the valves are maintained in the closed position and that the gas flow is not diverted through the bypass lines.

[The above condition shall be superseded upon the facility's compliance with the GCCS portions of Subpart 000 & AAAAA. Compliance with the GCCS requirements shall occur no later than 11/09/2026.]

032 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each owner or operator shall construct the gas collection devices using the following equipment or procedures:

(a) 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.

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

(c) 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.

(d) Each owner or operator shall convey the landfill gas to a control system through the collection header pipe(s). The gas mover equipment shall be sized to handle the maximum gas generation flow rate expected over the intended use period of the gas moving equipment using the following procedures:

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

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

**SECTION E. Source Group Restrictions.**

[The above condition shall be superseded upon the facility's compliance with the GCCS portions of Subpart OOO & AAAA. Compliance with the GCCS requirements shall occur no later than 11/09/2026.]

033 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

All monitoring and measuring devices shall be calibrated, maintained and operated according to the manufacturer's specifications or Department Guidelines.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT and 40 CFR 60, Subpart WWW]

[The above condition shall be superseded upon the facility's compliance with the GCCS portions of Subpart OOO & AAAA. Compliance with the GCCS requirements shall occur no later than 11/09/2026.]

034 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall in accordance with the manufacturer's recommendations inspect each of the following on the enclosed ground flare for proper operation and calibration once per quarter:

- (a) The flow meter and recording device
- (b) The thermocouple used to measure the combustion zone temperature.
- (c) The temperature recording device.
- (d) Any equipment used to monitor for gas leaks at the flare and associated equipment.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT]

035 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The enclosed ground flare shall be equipped with the following equipment:

- (a) A flame detection device.
- (b) An automatic pilot ignition source using an auxiliary fuel source.
- (c) An automatic shut-off mechanism designed to immediately stop the flow of gas when a flame-out occurs.
- (d) An automatic notification system to inform the permittee of the flare's failure to restart within a limited time period.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT and 40 CFR 60, Subpart WWW]

036 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

A permanent gas collection system shall be installed for each cell within one year after that cell has achieved final grade. As part of the system, the permittee shall install and maintain a final cover on the completed cells including a geomembrane cap as approved by the Department's Waste Management Program.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT and 40 CFR 60, Subpart WWW]

037 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall take all reasonable steps to limit the emissions of landfill gas and other odorous gases from the leachate collection and handling system.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT]

038 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall install and maintain a total geomembrane cap system on the completed sections of the landfill in accordance with the permittee's permit from the Department's Waste Management Program.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT]

**SECTION E. Source Group Restrictions.****# 039 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) If a positive pressure exists in the wellheads, action shall be initiated to correct the exceedance within five (5) calendar days. If negative pressure cannot be achieved without excess air infiltration within fifteen (15) calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 calendar days of the initial measurement of the positive pressure. An alternative time line for corrective action may be submitted to the Department. This request shall be submitted within fifteen (15) calendar days of the end of the fifteen (15) day adjustment period noted above.

(b) If a well exceeds one of the operating parameters of Section E, Group SG01, Condition #008, action shall be initiated to correct the exceedance within five (5) calendar days. If correction of the exceedance cannot be achieved within fifteen (15) calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 calendar days of the initial exceedance. An alternative time line for corrective action may be submitted to the Department. This request shall be submitted within fifteen (15) calendar days of the fifteen (15) day adjustment period noted above.

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT]

[The above condition shall be superseded upon the facility's compliance with the GCCS portions of Subpart OOO & AAAA. Compliance with the GCCS requirements shall occur no later than 11/09/2026.]

040 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The collection system shall be operated with a negative pressure in each component not designed to operate under positive pressure (mechanical blowers, the flare and all piping connecting those components) except under the following conditions:

(a) When a fire or increased well temperature is detected: The permittee record all instances when positive pressure occurs in efforts to avoid fire.

(b) When the collection or control systems are experiencing down times due to routine maintenance. Routine equipment maintenance includes the following, but is not limited to:

- (1) Gas collection header repairs,
- (2) Wellhead and valve repairs, replacements or modifications,
- (3) Temporary well shutdowns or vacuum reductions to minimize or prevent the introduction of excess air into the landfill,
- (4) Flare station blower repairs, replacement or modification,
- (5) Flare relight system testing, repair, replacement or modification,
- (6) Flare thermocouple or temperature switch repair, replacement or modification,
- (7) Flare liner inspection, repair, replacement or modification,
- (8) Flare actuator valve repair, replacement or modification,
- (9) Flare flame arrestor basket cleaning,
- (10) Flare control panel timer adjustment or replacement,
- (11) Condensate trap pump repair, replacement or modification,
- (12) Condensate pump pump-outs, and
- (13) Electrical service repairs.

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

[Additional authority for this condition is derived from 25 PA Code Section 127.1, BAT]

[The above condition shall be superseded upon the facility's compliance with the GCCS portions of Subpart OOO & AAAA. Compliance with the GCCS requirements shall occur no later than 11/09/2026.]

**SECTION E. Source Group Restrictions.****VII. ADDITIONAL REQUIREMENTS.****# 041 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

ALTERNATIVE PROCEDURES:

The permittee may use the following alternatives to E SG01 008, 016, 025, and 039:

ALTERNATIVE 1: [ALTERNATIVE 1 IS NO LONGER APPLICABLE AND HAS BEEN REMOVED]

ALTERNATIVE 2: The owner or its LFG collection system operator may place certain LFG wells on an inactive list. In order for LFG wells to be placed on an inactive list they would have to demonstrate the following characteristics:

(1) Methane quality that is consistently below 40% by volume, and the oxygen quality that is consistently above 5%, while the throttle valve is either closed or slightly open with an applied vacuum to the well of less than one (1.0) inch of water column, or

(2) Waste placement near the LFG well requires the raising of the casing to a point that it is unsafe for the owner or the LFG collection system operator to monitor (approximately five (5) feet to be determined by owner/operator personnel on a case by case basis) the NSPS required parameters. In this case, monitoring shall resume once waste filling has occurred in the area and it is once again safe to access the LFG well.

The owner and/or operator may place these LFG wells on an inactive list which shall only alleviate the compliance requirements for oxygen and vacuum at these LFG wells. The owner or the LFG system operator shall not abandon these inactive LFG wells, but shall simply close the wellhead valve and temporarily stop LFG extraction from them. The owner or the LFG system operator shall continue to perform routine well monitoring, recordkeeping, and reporting at the inactive LFG wells (similar to all other LFG wells). The inactive wells shall be exempt from the oxygen and pressure requirements of NSPS §60.753(b) and (c) during the period which they are classified as inactive.

The owner or their LFG operator shall continue to conduct quarterly surface emissions monitoring in all areas with designated inactive LFG wells to confirm less than 500 ppm methane emissions (above background) is occurring. Should more than 500 ppm methane emissions (above background) continue after 10 days from the first measured exceedance in areas surrounding inactive LFG wells, the owner or their LFG operator shall resume vacuum extraction from the inactive wells, or install new LFG wells, or submit an alternate compliance plan to PADEP for approval.

The owner or their LFG operator shall include a list of inactive LFG wells in each semi-annual Title V report, the reason for placing them on an inactive list, and the dates they were deemed inactive.

ALTERNATIVE 3: A well may be operated at temperatures higher than 62.8°C (145°F), provided the following steps are taken:

(1) Upon observation of a well temperature greater than 62.8°C (145°F), the initial course of action shall be to adjust the valve to either reduce or eliminate the vacuum applied to the well. This corrective action shall be taken within 5 days of the observation of an elevated reading.

(2) If the reduction of vacuum favorably lowers the temperature but appears to be detrimental to gas collection, the operator shall adjust the well to the benefit of gas collection. If, as a result, the temperature climbs above 62.8°C (145°F), or if the temperature remained elevated throughout the well adjustments, carbon monoxide monitoring (to ensure carbon monoxide levels below 100 ppmv) shall be conducted to verify that combustion within the waste mass is not occurring. In addition to measuring the temperature and carbon monoxide levels, the operator shall visually inspect the area around the well for signs of settlement or distressed vegetation, and shall inspect the wellhead for soot or other indications of combustion.

(3) If the elevated temperatures persist at a well, and there are no signs of combustion or detrimental effects on anaerobic activity, the operator shall consider the well to be an Alternative 3 well and shall place the well under a period of observation. The observation period shall be characterized by the inclusion of carbon monoxide monitoring with the regular monthly monitoring events. This monitoring is in addition to the regular measurement of gauge pressure, temperature, and oxygen or nitrogen levels. Visual inspection of the wellhead and the area immediately surrounding the well shall also be conducted.



SECTION E. Source Group Restrictions.

(4) At such time when the landfill has acquired sufficient background data, a new maximum operating temperature shall be selected for the well. The new temperature and supporting data shall be provided to PADEP and USEPA through a notification letter. Once approved by the Department in writing, routine carbon monoxide monitoring of the well may be discontinued. However, visual inspection of the wellhead and the area immediately surrounding the well shall be included with the regular monthly monitoring events throughout the entire period of time that a well is operated under Alternative 3.

[Additional authority for this condition is derived from PA 06-05112C]

[The above condition shall be superseded upon the facility's compliance with the GCCS portions of Subpart 000 & AAAA. Compliance with the GCCS requirements shall occur no later than 11/09/2026]

042 [25 Pa. Code §127.441]

Operating permit terms and conditions.

If monitoring demonstrates that the operational requirements of Section E, Group SG01, Conditions #008, #021 & #040 are not met, corrective action shall be taken as specified in Section E, Group SG01, Conditions #030 & #039. If corrective actions are taken as specified, the monitored exceedance is not a violation of the operational requirements.

[The above condition shall be superseded upon the facility's compliance with the GCCS portions of Subpart 000 & AAAA. Compliance with the GCCS requirements shall occur no later than 11/09/2026.]

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

**SECTION E. Source Group Restrictions.**

Group Name: SG02

Group Description: 40 CFR 61, Subpart M Sources

Sources included in this group

ID	Name
101	LANDFILL CELL A
102	LANDFILL CELL B-1
103	LANDFILL STRIP EXPANSION CELL
104	LANDFILL EASTERN EXPANSION CELL

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 [40 CFR Part 61 NESHAPs §40 CFR 61.151]****Subpart M--National Emission Standard for Asbestos****Standard for inactive waste disposal sites for asbestos mills and manufacturing and fabricating operations.**

Each owner or operator of any inactive waste disposal site that was operated by sources covered under § 61.142, 61.144, or 61.147 and received deposits of asbestos-containing waste material generated by the sources, shall:

61.151(a) Comply with one of the following:

61.151(a)(1) Either discharge no visible emissions to the outside air from an inactive waste disposal site subject to this paragraph; or

61.151(a)(2) Cover the asbestos-containing waste material with at least 15 centimeters (6 inches) of compacted nonasbestos-containing material, and grow and maintain a cover of vegetation on the area adequate to prevent exposure of the asbestos-containing waste material. In desert areas where vegetation would be difficult to maintain, at least 8 additional centimeters (3 inches) of well-graded, nonasbestos crushed rock may be placed on top of the final cover instead of vegetation and maintained to prevent emissions; or

61.151(a)(3) Cover the asbestos-containing waste material with at least 60 centimeters (2 feet) of compacted nonasbestos-containing material, and maintain it to prevent exposure of the asbestos-containing waste; or

**SECTION E. Source Group Restrictions.**

61.151(a)(4) For inactive waste disposal sites for asbestos tailings, a resinous or petroleum-based dust suppression agent that effectively binds dust to control surface air emissions may be used instead of the methods in paragraphs (a) (1), (2), and (3) of this section. Use the agent in the manner and frequency recommended for the particular asbestos tailings by the manufacturer of the dust suppression agent to achieve and maintain dust control. Obtain prior written approval of the Administrator to use other equally effective dust suppression agents. For purposes of this paragraph, any used, spent, or other waste oil is not considered a dust suppression agent.

61.151(b) Unless a natural barrier adequately deters access by the general public, install and maintain warning signs and fencing as follows, or comply with paragraph (a)(2) or (a)(3) of this section.

61.151(b)(1) Display warning signs at all entrances and at intervals of 100 m (328 ft) or less along the property line of the site or along the perimeter of the sections of the site where asbestos-containing waste material was deposited. The warning signs must:

61.151(b)(1)(i) Be posted in such a manner and location that a person can easily read the legend; and

61.151(b)(1)(ii) Conform to the requirements for 51 cm× 36 cm (20[inch]× 14[inch]) upright format signs specified in 29 CFR 1910.145(d)(4) and this paragraph; and

61.151(b)(1)(iii) Display the following legend in the lower panel with letter sizes and styles of a visibility at least equal to those specified in this paragraph.

Legend	Notation
Asbestos Waste Disposal Site	2.5 cm (1 inch) Sans Serif, Gothic or Block
Do Not Create Dust	1.9 cm (3/4 inch) Sans Serif, Gothic or Block
Breathing Asbestos is Hazardous to Your Health	14 Point Gothic.

Spacing between any two lines must be at least equal to the height of the upper of the two lines.

61.151(b)(2) Fence the perimeter of the site in a manner adequate to deter access by the general public.

61.151(b)(3) When requesting a determination on whether a natural barrier adequately deters public access, supply information enabling the Administrator to determine whether a fence or a natural barrier adequately deters access by the general public.

61.151(c) The owner or operator may use an alternative control method that has received prior approval of the Administrator rather than comply with the requirements of paragraph (a) or (b) of this section.

61.151(d) Notify the Administrator in writing at least 45 days prior to excavating or otherwise disturbing any asbestos-containing waste material that has been deposited at a waste disposal site under this section, and follow the procedures specified in the notification. If the excavation will begin on a date other than the one contained in the original notice, notice of the new start date must be provided to the Administrator at least 10 working days before excavation begins and in no event shall excavation begin earlier than the date specified in the original notification. Include the following information in the notice:

61.151(d)(1) Scheduled starting and completion dates.

61.151(d)(2) Reason for disturbing the waste.

61.151(d)(3) Procedures to be used to control emissions during the excavation, storage, transport, and ultimate disposal of the excavated asbestos-containing waste material. If deemed necessary, the Administrator may require changes in the emission control procedures to be used.

61.151(d)(4) Location of any temporary storage site and the final disposal site.

**SECTION E. Source Group Restrictions.**

61.151(e) Within 60 days of a site becoming inactive and after the effective date of this subpart, record, in accordance with State law, a notation on the deed to the facility property and on any other instrument that would normally be examined during a title search; this notation will in perpetuity notify any potential purchaser of the property that:

61.151(e)(1) The land has been used for the disposal of asbestos-containing waste material;

61.151(e)(2) The survey plot and record of the location and quantity of asbestos-containing waste disposed of within the disposal site required in § 61.154(f) have been filed with the Administrator; and

61.151(e)(3) The site is subject to 40 CFR part 61, subpart M.

[49 FR 13661, Apr. 5, 1984, as amended at 53 FR 36972, Sept. 23, 1988. Redesignated and amended at 55 FR 48429, Nov. 20, 1990]

002 [40 CFR Part 61 NESHAPs §40 CFR 61.154]

**Subpart M--National Emission Standard for Asbestos
Standard for active waste disposal sites.**

Each owner or operator of an active waste disposal site that receives asbestos-containing waste material from a source covered under § 61.149, 61.150, or 61.155 shall meet the requirements of this section:

61.154(a) Either there must be no visible emissions to the outside air from any active waste disposal site where asbestos-containing waste material has been deposited, or the requirements of paragraph (c) or (d) of this section must be met.

61.154(b) Unless a natural barrier adequately deters access by the general public, either warning signs and fencing must be installed and maintained as follows, or the requirements of paragraph (c)(1) of this section must be met.

61.154(b)(1) Warning signs must be displayed at all entrances and at intervals of 100 m (330 ft) or less along the property line of the site or along the perimeter of the sections of the site where asbestos-containing waste material is deposited. The warning signs must:

61.154(b)(1)(i) Be posted in such a manner and location that a person can easily read the legend; and

61.154(b)(1)(ii) Conform to the requirements of 51 cm x 36 cm (20[inch]x 14[inch]) upright format signs specified in 29 CFR 1910.145(d)(4) and this paragraph; and

61.154(b)(1)(iii) Display the following legend in the lower panel with letter sizes and styles of a visibility at least equal to those specified in this paragraph.

Legend	Notation
Asbestos Waste Disposal Site	2.5 cm (1 inch) Sans Serif, Gothic or Block.
Do Not Create Dust	1.9 cm (3/4 inch) Sans Serif, Gothic or Block.
Breathing Asbestos is Hazardous to Your Health	14 Point Gothic.

Spacing between any two lines must be at least equal to the height of the upper of the two lines.

61.154(b)(2) The perimeter of the disposal site must be fenced in a manner adequate to deter access by the general public.

61.154(b)(3) Upon request and supply of appropriate information, the Administrator will determine whether a fence or a natural barrier adequately deters access by the general public.

61.154(c) Rather than meet the no visible emission requirement of paragraph (a) of this section, at the end of each operating day, or at least once every 24-hour period while the site is in continuous operation, the asbestos-containing waste material that has been deposited at the site during the operating day or previous 24-hour period shall:

**SECTION E. Source Group Restrictions.**

61.154(c)(1) Be covered with at least 15 centimeters (6 inches) of compacted nonasbestos-containing material, or

61.154(c)(2) Be covered with a resinous or petroleum-based dust suppression agent that effectively binds dust and controls wind erosion. Such an agent shall be used in the manner and frequency recommended for the particular dust by the dust suppression agent manufacturer to achieve and maintain dust control. Other equally effective dust suppression agents may be used upon prior approval by the Administrator. For purposes of this paragraph, any used, spent, or other waste oil is not considered a dust suppression agent.

61.154(d) Rather than meet the no visible emission requirement of paragraph (a) of this section, use an alternative emissions control method that has received prior written approval by the Administrator according to the procedures described in § 61.149(c)(2).

61.154(e) For all asbestos-containing waste material received, the owner or operator of the active waste disposal site shall:

61.154(e)(1) Maintain waste shipment records, using a form similar to that shown in Figure 4, and include the following information:

61.154(e)(1)(i) The name, address, and telephone number of the waste generator.

61.154(e)(1)(ii) The name, address, and telephone number of the transporter(s).

61.154(e)(1)(iii) The quantity of the asbestos-containing waste material in cubic meters (cubic yards).

61.154(e)(1)(iv) The presence of improperly enclosed or uncovered waste, or any asbestos-containing waste material not sealed in leak-tight containers. Report in writing to the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator (identified in the waste shipment record), and, if different, the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the disposal site, by the following working day, the presence of a significant amount of improperly enclosed or uncovered waste. Submit a copy of the waste shipment record along with the report.

61.154(e)(1)(v) The date of the receipt.

61.154(e)(2) As soon as possible and no longer than 30 days after receipt of the waste, send a copy of the signed waste shipment record to the waste generator.

61.154(e)(3) Upon discovering a discrepancy between the quantity of waste designated on the waste shipment records and the quantity actually received, attempt to reconcile the discrepancy with the waste generator. If the discrepancy is not resolved within 15 days after receiving the waste, immediately report in writing to the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator (identified in the waste shipment record), and, if different, the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the disposal site. Describe the discrepancy and attempts to reconcile it, and submit a copy of the waste shipment record along with the report.

61.154(e)(4) Retain a copy of all records and reports required by this paragraph for at least 2 years.

61.154(f) Maintain, until closure, records of the location, depth and area, and quantity in cubic meters (cubic yards) of asbestos-containing waste material within the disposal site on a map or diagram of the disposal area.

61.154(g) Upon closure, comply with all the provisions of § 61.151.

61.154(h) Submit to the Administrator, upon closure of the facility, a copy of records of asbestos waste disposal locations and quantities.

61.154(i) Furnish upon request, and make available during normal business hours for inspection by the Administrator, all records required under this section.

**SECTION E. Source Group Restrictions.**

61.154(j) Notify the Administrator in writing at least 45 days prior to excavating or otherwise disturbing any asbestos-containing waste material that has been deposited at a waste disposal site and is covered. If the excavation will begin on a date other than the one contained in the original notice, notice of the new start date must be provided to the Administrator at least 10 working days before excavation begins and in no event shall excavation begin earlier than the date specified in the original notification. Include the following information in the notice:

61.154(j)(1) Scheduled starting and completion dates.

61.154(j)(2) Reason for disturbing the waste.

61.154(j)(3) Procedures to be used to control emissions during the excavation, storage, transport, and ultimate disposal of the excavated asbestos-containing waste material. If deemed necessary, the Administrator may require changes in the emission control procedures to be used.

61.154(j)(4) Location of any temporary storage site and the final disposal site.

(Secs. 112 and 301(a) of the Clean Air Act as amended (42 U.S.C. 7412, 7601(a))

[49 FR 13661, Apr. 5, 1990. Redesignated and amended at 55 FR 48431, Nov. 20, 1990; 56 FR 1669, Jan. 16, 1991]

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

**SECTION E. Source Group Restrictions.**

Group Name: SG03

Group Description: 40 CFR 62, Subpart OOO Sources

Sources included in this group

ID	Name
101	LANDFILL CELL A
102	LANDFILL CELL B-1
103	LANDFILL STRIP EXPANSION CELL
104	LANDFILL EASTERN EXPANSION CELL

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 §127.441]****Operating permit terms and conditions.**

Individual sources within this source group that are subject to 40 CFR 62, Subpart OOO—Federal Plan Requirements for Municipal Solid Waste Landfills That Commenced Construction On or Before July 17, 2014 and Have Not Been Modified or Reconstructed Since July 17, 2014 shall comply with all applicable requirements of the Subpart. 40 CFR 60.4(a) requires submission of copies of all requests, reports and other communications to both the Department and the EPA. The EPA copies shall be forwarded to:

Associate Director
 United States Environmental Protection Agency
 Region III, Enforcement & Compliance Assurance Division
 Air, RCRA and Toxics Branch (3ED21)
 Four Penn Center
 1600 John F. Kennedy Boulevard
 Philadelphia, Pennsylvania 19103-2852

Unless otherwise approved by DEP, the DEP copies shall be reported through the Department's Greenport PUP system available through: <https://greenport.pa.gov/ePermitPublicAccess/PublicSubmission/Home>

**SECTION E. Source Group Restrictions.**

In the event that the Federal Subpart that is the subject of this Source Group is revised, the permittee shall comply with the revised version of the subpart, and shall not be required to comply with any provisions in this permit designated as having the subpart as their authority, to the extent that such permit provisions would be inconsistent with the applicable provisions of the revised subpart.

002 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR 62.16710]**Subpart OOO - Federal Plan Requirements for Municipal Solid Waste Landfills That Commenced Construction On or Before July 17, 2014 and Have Not Been Modified or Reconstructed Since July 17, 2014****Scope and delegated authorities.**

This subpart establishes emission control requirements and compliance schedules for the control of designated pollutants from certain designated municipal solid waste (MSW) landfills in accordance with section 111(d) of the Clean Air Act and subpart B of 40 CFR part 60.

62.16710(a) If you own or operate a designated facility as described in §62.16711, then you must comply with this subpart.

62.16710(b) The following authorities will not be delegated to state, local, or tribal agencies:

62.16710(b)(1) Approval of alternative methods to determine the site-specific nonmethane organic compounds (NMOC) concentration or a site-specific methane generation rate constant (k).

62.16710(b)(2) Alternative emission standards.

62.16710(b)(3) Major alternatives to test methods. Major alternatives to test methods or to monitoring are modifications made to a federally enforceable test method or to a Federal monitoring requirement. These changes may involve the use of unproven technology or modified procedures or an entirely new method.

62.16710(b)(4) Waivers of recordkeeping.

003 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR 62.16711]**Subpart OOO - Federal Plan Requirements for Municipal Solid Waste Landfills That Commenced Construction On or Before July 17, 2014 and Have Not Been Modified or Reconstructed Since July 17, 2014****Designated facilities.**

62.16711(a) The designated facility to which this subpart applies is each municipal solid waste landfill in each state, protectorate, and portion of Indian country that meets the conditions of paragraphs (a)(1) and (2) of this section, except for landfills exempted by paragraphs (b) and (c) of this section.

62.16711(a)(1) The municipal solid waste landfill commenced construction, reconstruction, or modification on or before July 17, 2014.

62.16711(a)(2) The municipal solid waste landfill has accepted waste at any time since November 8, 1987, or the landfill has additional capacity for future waste deposition.

62.16711(b) [NA – NO CURRENTLY EFFECTIVE SIP IMPLEMENTING 40 CFR 60, SUBPART Cf]

62.16711(c) [NA – NO NEGATIVE DECLARATION LETTER]

62.16711(d) Physical or operational changes made to an existing MSW landfill solely to comply with an emission guideline implemented by a state or Federal plan are not considered a modification or reconstruction and would not subject an existing MSW landfill to the requirements of 40 CFR 60, Subpart XXX. Landfills that commence construction, modification, or reconstruction after July 17, 2014, are subject to 40 CFR part 60, Subpart XXX.

62.16711(e) [NA – LANDFILL IS > 2.5 MILLION MEGAGRAMS/2.5 MILLION CUBIC METERS]

62.16711(f) When an MSW landfill subject to this subpart is closed as defined in this subpart, the owner or operator is no longer subject to the requirement to maintain an operating permit under 40 CFR part 70 or 71 for the landfill if the landfill is not

otherwise subject to the requirements of either 40 CFR part 70 or 71 and if either of the following conditions are met:

**SECTION E. Source Group Restrictions.**

62.16711(f)(1) The landfill was never subject to the requirement to install and operate a gas collection and control system under §62.16714; or

62.16711(f)(2) The landfill meets the conditions for control system removal specified in §62.16714(f).

62.16711(g) [NA – NOT A CLOSED LANDFILL]

62.16711(h) When an MSW landfill subject to this subpart is a legacy controlled landfill, as defined in §62.16730, the owner or operator is not subject to the following reports of this subpart, provided the owner or operator submitted these reports under 40 CFR part 60, subpart WWW; subpart GGG of this part; or a state plan implementing 40 CFR part 60, subpart Cc on or before June 21, 2021. [NOTE: ALL REPORTS BELOW HAVE BEEN SUBMITTED UNDER NSPS SUBPART WWW PRIOR TO 6/21/21.]

62.16711(h)(1) Initial design capacity report specified in §62.16724(a).

62.16711(h)(2) Initial or subsequent NMOC emission rate report specified in §62.16724(c).

62.16711(h)(3) Collection and control system design plan specified in §62.16724(d).

62.16711(h)(5) Initial annual report specified in §62.16724(h).

62.16711(h)(4) Initial performance test report in §62.16724(i).

004 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR 62.16712]

Subpart OOO - Federal Plan Requirements for Municipal Solid Waste Landfills That Commenced Construction On or Before July 17, 2014 and Have Not Been Modified or Reconstructed Since July 17, 2014

Compliance schedule and increments of progress.

[NA – LANDFILL IS A LEGACY CONTROLLED LANDFILL WHICH REACHED FULL COMPLIANCE IN THE PAST]

005 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR 62.16714]

Subpart OOO - Federal Plan Requirements for Municipal Solid Waste Landfills That Commenced Construction On or Before July 17, 2014 and Have Not Been Modified or Reconstructed Since July 17, 2014

Standards for municipal solid waste landfill emissions.

62.16714(a) Landfills. Each owner or operator of an MSW landfill having a design capacity greater than or equal to 2.5 million megagrams by mass and 2.5 million cubic meters by volume must collect and control MSW landfill emissions at each MSW landfill that meets the following conditions:

62.16714(a)(1) Waste acceptance date. The landfill has accepted waste at any time since November 8, 1987, or has additional design capacity available for future waste deposition.

62.16714(a)(2) Construction commencement date. The landfill commenced construction, reconstruction, or modification on or before July 17, 2014.

62.16714(a)(3) NMOC emission rate. The landfill has an NMOC emission rate greater than or equal to 34 megagrams per year or Tier 4 SEM shows a surface emission concentration of 500 parts per million methane or greater.

62.16714(a)(4) [NA – NOT A CLOSED LANDFILL]

62.16714(b)-(c) [IDENTICAL REQUIREMENT FOUND IN NESHAP SUBPART AAAA]

62.16714(d) [NA – LANDFILL IS > 2.5 MILLION MEGAGRAMS/2.5 MILLION CUBIC METERS]

62.16714(e) [NA – COLLECTION AND CONTROL SYSTEM ALREADY INSTALLED]

62.16714(f) Removal criteria. The collection and control system may be capped, removed, or decommissioned if the following criteria are met:

62.16714(f)(1) The landfill is a closed landfill (as defined in §62.16730). A closure report must be submitted to the

**SECTION E. Source Group Restrictions.**

Administrator as provided in §62.16724(f).

62.16714(f)(2) The collection and control system has been in operation a minimum of 15 years or the landfill owner or operator demonstrates that the gas collection and control system will be unable to operate for 15 years due to declining gas flow.

62.16714(f)(3) Following the procedures specified in §62.16718(b), the calculated NMOC emission rate at the landfill is less than 34 megagrams per year on three successive test dates. The test dates must be no less than 90 days apart, and no more than 180 days apart.

62.16714(f)(4) [NA – LANDFILL NOT CLOSED]

006 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR 62.16716]

Subpart 000 - Federal Plan Requirements for Municipal Solid Waste Landfills That Commenced Construction On or Before July 17, 2014 and Have Not Been Modified or Reconstructed Since July 17, 2014

Operational standards for collection and control systems.

[NA – FACILITY MUST COMPLY WITH 40 CFR §63.1958]

007 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR 62.16718]

Subpart 000 - Federal Plan Requirements for Municipal Solid Waste Landfills That Commenced Construction On or Before July 17, 2014 and Have Not Been Modified or Reconstructed Since July 17, 2014

Test methods and procedures.

Calculate the landfill NMOC emission rate and conduct a surface emission monitoring demonstration according to the provisions in this section.

62.16718(a) [NA – PER 5/19/24 TIER 2 REPORT - NMOC > 34 Mg/yr]

62.16718(b) After the installation and startup of a collection and control system in compliance with this subpart, the owner or operator must calculate the NMOC emission rate for purposes of determining when the system can be capped, removed, or decommissioned as provided in §62.16714(f), using Equation 3:

[SEE REGULATION FOR EQUATION]

62.16718(b)(1) Flow rate. The flow rate of landfill gas, QLFG, must be determined by measuring the total landfill gas flow rate at the common header pipe that leads to the control system using a gas flow measuring device calibrated according to the provisions of section 10 of EPA Method 2E of appendix A-1 of 40 CFR part 60.

62.16718(b)(2) NMOC concentration. The average NMOC concentration, CNMOC, must 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 EPA Method 25 or EPA Method 25C of appendix A-7 of 40 CFR part 60. The sample location on the common header pipe must be before any condensate removal or other gas refining units. The landfill owner or operator must divide the NMOC concentration from EPA Method 25 or EPA Method 25C of appendix A-7 of 40 CFR part 60 by six to convert from CNMOC as carbon to CNMOC as hexane.

62.16718(b)(3) Gas flow rate method. The owner or operator may use another method to determine landfill gas flow rate and NMOC concentration if the method has been approved by the Administrator.

62.16718(b)(3)(i) Within 60 days after the date of calculating the NMOC emission rate for purposes of determining when the system can be capped or removed, the owner or operator must submit the results according to §62.16724(j)(2).

62.16718(b)(3)(ii) [Reserved]

62.16718(c) When calculating emissions for Prevention of Significant Deterioration purposes, the owner or operator of each MSW landfill subject to the provisions of this subpart must estimate the NMOC emission rate for comparison to the Prevention of Significant Deterioration major source and significance levels in §§51.166 or 52.21 of this chapter using Compilation of Air Pollutant Emission Factors, Volume I: Stationary Point and Area Sources (AP-42) or other approved measurement procedures.

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62.16718(d) – (e) [INITIAL PERFORMANCE TEST IS IN THE PAST]

008 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR 62.16720]

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Compliance provisions.

[NA – FACILITY MUST COMPLY WITH 40 CFR §63.1960]

009 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR 62.16722]

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Monitoring of operations.

[NA – FACILITY MUST COMPLY WITH 40 CFR §63.1961]

010 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR 62.16724]

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Reporting guidelines

Follow the reporting provisions listed in this section, as applicable, except as provided under 40 CFR 60.24 and §§62.16711(g), (h), and 62.16724(d)(2).

62.16724(a) [NA – NOT REQUIRED PER 40 CFR §62.16711(h)(1)]

62.16724(b) [COMPLIANCE WITH 40 CFR §63.1981(b) ENSURES COMPLIANCE WITH THIS REQUIREMENT]

62.16724(c) [NA – NOT REQUIRED PER 40 CFR §62.16711(h)(2)]

62.16724(d) [NA – NOT REQUIRED PER 40 CFR §62.16711(h)(3)]

62.16724(e) [COMPLIANCE WITH 40 CFR §63.1981(e) ENSURES COMPLIANCE WITH THIS REQUIREMENT]

62.16724(f) [COMPLIANCE WITH 40 CFR §63.1981(f) ENSURES COMPLIANCE WITH THIS REQUIREMENT]

62.16724(g) - (g)(1)(ii) [COMPLIANCE WITH 40 CFR §63.1981(g) ENSURES COMPLIANCE WITH THIS REQUIREMENT, EXCEPT PARAGRAPH (g)(1)(iii) APPLIES]

62.16724(g)(1)(iii) Dated copies of three successive NMOC emission rate reports demonstrating that the landfill is no longer producing 34 megagrams or greater of NMOC per year, unless the NMOC emission rate reports have been submitted to the EPA via the EPA's CDX. 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; or

62.16724(g)(1)(iv) [COMPLIANCE WITH 40 CFR §63.1981(g)(1)(iii) ENSURES COMPLIANCE WITH THIS REQUIREMENT]

62.16724(g)(2) [COMPLIANCE WITH 40 CFR §63.1981(g)(2) ENSURES COMPLIANCE WITH THIS REQUIREMENT]

62.16724(h) [NA – FACILITY MUST COMPLY WITH SEMI-ANNUAL REPORTING REQUIREMENTS IN 40 CFR §63.1981(h)]

62.16724(i) [NA – INITIAL PERFORMANCE TEST IS IN THE PAST]

62.16724(j) [ELECTRONIC REPORTS MUST BE SUBMITTED PER 40 CFR §63.1981(l)]

62.16724(k) Corrective action and the corresponding timeline. The owner or operator must submit according to paragraphs (k)(1) and (2) of this section. If complying with the operational provisions of 40 CFR 63.1958, 63.1960, and 63.1961 of this

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chapter, as allowed at §§62.16716, 62.16720, and 62.16722, the owner or operator must follow the corrective action and the corresponding timeline reporting requirements in §63.1981(j) of this chapter in lieu of paragraphs (k)(1) and (2) of this section.

62.16724(k)(1) - (2) [NA – FACILITY MUST COMPLY WITH 40 CFR §63.1981(j)]

62.16724(l) Liquids addition. 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 must submit to the Administrator, annually, following the procedure specified in paragraph (j)(2) of this section, the following information:

62.16724(l)(1) Volume of leachate recirculated (gallons per year) and the reported basis of those estimates (records or engineering estimates).

62.16724(l)(2) Total volume of all other liquids added (gallons per year) and the reported basis of those estimates (records or engineering estimates).

62.16724(l)(3) Surface area (acres) over which the leachate is recirculated (or otherwise applied).

62.16724(l)(4) Surface area (acres) over which any other liquids are applied.

62.16724(l)(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.

62.16724(l)(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.

62.16724(l)(7) The initial report must contain items in paragraph (l)(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.

62.16724(l)(8) Subsequent annual reports must contain items in paragraph (l)(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.

62.16724(l)(9) Landfills in the closed landfill subcategory are exempt from reporting requirements contained in paragraphs (l)(1) through (7) of this section.

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

62.16724(m) – (n) [NA – TIER 4 PROCEDURES DO NOT APPLY]

62.16724(o) – (p) [NA – NOT SUBJECT TO INCREMENTS OF PROGRESS REQUIREMENTS]

62.16724(q) 24-hour high temperature report. Each owner or operator that chooses to comply with the provisions in §§63.1958, 63.1960, and 63.1961 of this chapter, as allowed in §§62.16716, 62.16720, and 62.16722, must submit the 24-hour high temperature report according to §63.1981(k) of this chapter.

011 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR 62.16726]

Subpart OOO - Federal Plan Requirements for Municipal Solid Waste Landfills That Commenced Construction On or Before July 17, 2014 and Have Not Been Modified or Reconstructed Since July 17, 2014
Recordkeeping guidelines.

Follow the recordkeeping provisions in this section.

62.16726(a) - (c) [COMPLIANCE WITH 40 CFR §63.1983(a)-(c) ENSURES COMPLIANCE WITH THIS REQUIREMENT]

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62.16726(d) [COMPLIANCE WITH 40 CFR §63.1983(d) ENSURES COMPLIANCE WITH THIS REQUIREMENT]

62.16726(e) Except as provided in §62.16724(d)(2), each owner or operator subject to the provisions of this subpart must keep for at least 5 years up-to-date, readily accessible records of the items in paragraphs (e)(1) through (5) of this section. Each owner or operator that chooses to comply with the provisions in §§63.1958, 63.1960, and 63.1961 of this chapter, as allowed in §§62.16716, 62.16720, and 62.16722, must keep the records in paragraph (e)(6) of this section and must keep records according to §63.1983(e)(1) through (5) of this chapter in lieu of paragraphs (e)(1) through (5) of this section.

62.16726(e)(1) – (5) [NA – FACILITY MUST KEEP RECORDS ACCORDING TO 40 CFR §63.1983(e)(1) through (5)]

62.16726(e)(6) Each owner or operator that chooses to comply with the provisions in §§63.1958, 63.1960, and 63.1961 of this chapter, as allowed in §§62.16716, 62.16720, and 62.16722, must keep records of the date upon which the owner or operator started complying with the provisions in §§63.1958, 63.1960, and 63.1961 of this chapter.

62.16726(f) [NA – LANDFILL IS > 2.5 MILLION MEGAGRAMS/2.5 MILLION CUBIC METERS]

62.16726(g) [NA – TIER 4 PROCEDURES DO NOT APPLY]

62.16726(h) [NA – MUST MONITOR PER 40 CFR §63.1961]

62.16726(i) Any records required to be maintained by this subpart that are submitted electronically via the EPA's CDX may be maintained in electronic format.

62.16726(j) For each owner or operator reporting leachate or other liquids addition under §62.16724(l), keep records of any engineering calculations or company records used to estimate the quantities of leachate or liquids added, the surface areas for which the leachate or liquids were applied, and the estimates of annual waste acceptance or total waste in place in the areas where leachate or liquids were applied.

012 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR 62.16728]

Subpart OOO - Federal Plan Requirements for Municipal Solid Waste Landfills That Commenced Construction On or Before July 17, 2014 and Have Not Been Modified or Reconstructed Since July 17, 2014 Specifications for active collection systems.

[COMPLIANCE WITH 40 CFR §63.1962 ENSURES COMPLIANCE WITH THESE REQUIREMENTS]

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

**SECTION E. Source Group Restrictions.**

Group Name: SG04

Group Description: 40 CFR 63, Subpart AAAA Sources

Sources included in this group

ID	Name
101	LANDFILL CELL A
102	LANDFILL CELL B-1
103	LANDFILL STRIP EXPANSION CELL
104	LANDFILL EASTERN EXPANSION CELL

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 §127.441]****Operating permit terms and conditions.**

Individual sources within this source group that are subject to 40 CFR 63 Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills shall comply with all applicable requirements of the Subpart. 40 CFR 63.13(a) requires submission of copies of all requests, reports and other communications to both the Department and the EPA. The EPA copies shall be forwarded to:

Associate Director
 United States Environmental Protection Agency
 Region III, Enforcement & Compliance Assurance Division
 Air, RCRA and Toxics Branch (3ED21)
 Four Penn Center
 1600 John F. Kennedy Boulevard
 Philadelphia, Pennsylvania 19103-2852

Unless otherwise approved by DEP, the DEP copies shall be reported through the Department's Greenport PUP system available through: <https://greenport.pa.gov/ePermitPublicAccess/PublicSubmission/Home>

In the event that the Federal Subpart that is the subject of this Source Group is revised, the permittee shall comply with the

**SECTION E. Source Group Restrictions.**

revised version of the subpart, and shall not be required to comply with any provisions in this permit designated as having the subpart as their authority, to the extent that such permit provisions would be inconsistent with the applicable provisions of the revised subpart.

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

Table 1 of Subpart AAAA shows which parts of the General Provisions in §§63.1 through 63.15 apply to you. This table is incorporated by reference.

003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1930]**Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills****What is the purpose of this subpart?**

This subpart establishes national emission standards for hazardous air pollutants for existing and new municipal solid waste (MSW) landfills.

63.1930(a) [NA – AFTER 9/27/21]

63.1930(b) Beginning no later than September 27, 2021, all landfills described in §63.1935 must meet the requirements of this subpart. A landfill may choose to meet the requirements of this subpart rather than the requirements identified in §63.1930(a) at any time before September 27, 2021. The requirements of this subpart apply at all times, including during periods of SSM, and the SSM requirements of the General Provisions of this part do not apply.

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1935]**Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills****Am I subject to this subpart?**

You are subject to this subpart if you meet the criteria in paragraph (a) or (b) of this section.

63.1935(a) You are subject to this subpart if you own or operate a MSW landfill that has accepted waste since November 8, 1987 or has additional capacity for waste deposition and meets any one of the three criteria in paragraphs (a)(1) through (3) of this section:

63.1935(a)(1) Your MSW landfill is a major source as defined in 40 CFR 63.2 of subpart A.

63.1935(a)(2) Your MSW landfill is collocated with a major source as defined in 40 CFR 63.2 of subpart A.

63.1935(a)(3) [NA - FACILITY NOT AN AREA SOURCE]

63.1935(b) [NA - FACILITY DOES NOT INCLUDE A BIOREACTOR]

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1940]**Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills****What is the affected source of this subpart?**

63.1940(a) An affected source of this subpart is a MSW landfill, as defined in § 63.1990, that meets the criteria in § 63.1935(a) or (b). The affected source includes the entire disposal facility in a contiguous geographic space where household waste is placed in or on land, including any portion of the MSW landfill operated as a bioreactor.

63.1940(b) [NA - FACILITY IS AN EXISTING SOURCE]

63.1940(c) An affected source of this subpart is existing if it is not new.

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1945]**Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills****When do I have to comply with this subpart?**

63.1945(a) [NA - FACILITY IS AN EXISTING SOURCE]

63.1945(b) [NA - DATE HAS ALREADY PASSED]

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1947]**Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills**

**SECTION E. Source Group Restrictions.****When do I have to comply with this subpart if I own or operate a bioreactor?**

[NA - FACILITY DOES NOT USE A BIOREACTOR]

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1950]**Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills****When am I no longer required to comply with this subpart?**

You are no longer required to comply with the requirements of this subpart when your landfill meets the collection and control system removal criteria in § 63.1957(b).

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1952]**Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills****When am I no longer required to comply with the requirements of this subpart if I own or operate a bioreactor?**

[NA - FACILITY DOES NOT USE A BIOREACTOR]

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1955]**Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills****What requirements must I meet?**

63.1955(a) Beginning no later than September 28, 2021, the collection and control system design plan may include for approval collection and control systems that include any alternatives to the operational standards, test methods, procedures, compliance measures, monitoring, recordkeeping, or reporting provisions, as provided in §63.1981(d)(2).

[NOTE: PRE- 9/28/21 REQUIREMENTS REMOVED]

63.1955(b) [NA – FACILITY DOES NOT USE A BIOREACTOR]

63.1955(c) At all times, beginning no later than September 27, 2021, the owner or operator must 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 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.

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1957]**Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills****Requirements for gas collection and control system installation and removal.**

63.1957(a) Operation. Operate the collection and control device in accordance with the provisions of §§63.1958, 63.1960, and 63.1961.

63.1957(b) Removal criteria. The collection and control system may be capped, removed, or decommissioned if the following criteria are met:

63.1957(b)(1) The landfill is a closed landfill (as defined in §63.1990). A closure report must be submitted to the Administrator as provided in §63.1981(f);

63.1957(b)(2) The gas collection and control system has been in operation a minimum of 15 years or the landfill owner or operator demonstrates that the gas collection and control system will be unable to operate for 15 years due to declining gas flow; and

63.1957(b)(3) Following the procedures specified in §63.1959(c), the calculated NMOC emission rate at the landfill is less than 50 Mg/yr on three successive test dates. The test dates must be no less than 90 days apart, and no more than 180 days apart.

012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1958]**Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills****Operational standards for collection and control systems.**

Each owner or operator of an MSW landfill with a gas collection and control system used to comply with the provisions of §63.1957 must:

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63.1958(a) 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:

63.1958(a)(1) 5 years or more if active; or

63.1958(a)(2) 2 years or more if closed or at final grade;

63.1958(b) Operate the collection system with negative pressure at each wellhead except under the following conditions:

63.1958(b)(1) A fire or increased well temperature. The owner or operator must record instances when positive pressure occurs in efforts to avoid a fire. These records must be submitted with the semi-annual reports as provided in §63.1981(h);

63.1958(b)(2) Use of a geomembrane or synthetic cover. The owner or operator must develop acceptable pressure limits in the design plan;

63.1958(b)(3) A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows. All design changes must be approved by the Administrator as specified in §63.1981(d)(2);

63.1958(c)

63.1958(c)(1) Beginning no later than September 27, 2021, operate each interior wellhead in the collection system with a landfill gas temperature less than 62.8 degrees Celsius (145 degrees Fahrenheit). [NOTE: PRE-9/28/21 REQUIREMENTS REMOVED]

63.1958(c)(2) The owner or operator may establish a higher operating temperature value at a particular well. A higher operating value demonstration must be submitted to the Administrator for approval and must include supporting data demonstrating that the elevated parameter neither causes fires nor significantly inhibits anaerobic decomposition by killing methanogens. The demonstration must satisfy both criteria in order to be approved (i.e., neither causing fires nor killing methanogens is acceptable).

63.1958(d)

63.1958(d)(1) Operate the collection system so that the methane concentration is less than 500 parts per million (ppm) above background at the surface of the landfill. To determine if this level is exceeded, the owner or operator must conduct surface testing around the 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 or operator may establish an alternative traversing pattern that ensures equivalent coverage. A surface monitoring design plan must be developed that includes a topographical map with the monitoring route and the rationale for any site-specific deviations from the 30-meter intervals. Areas with steep slopes or other dangerous areas may be excluded from the surface testing.

63.1958(d)(2) Beginning no later than September 27, 2021, the owner or operator must:

63.1958(d)(2)(i) Conduct surface testing using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications provided in §63.1960(d).

63.1958(d)(2)(ii) Conduct surface testing at all cover penetrations. Thus, the owner or operator must monitor any cover penetrations that are within an area of the landfill where waste has been placed and a gas collection system is required.

63.1958(d)(2)(iii) Determine the latitude and longitude coordinates of each exceedance using an instrument with an accuracy of at least 4 meters. The coordinates must be in decimal degrees with at least five decimal places.

63.1958(e)

63.1958(e)(1) Beginning no later than September 27, 2021, operate the system in accordance to §63.1955(c) such that all collected gases are vented to a control system designed and operated in compliance with §63.1959(b)(2)(iii). In the event the collection or control system is not operating: [NOTE: PRE-9/28/21 REQUIREMENTS REMOVED]

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63.1958(e)(1)(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

63.1958(e)(1)(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.

63.1958(e)(2) [Reserved]

63.1958(f) Operate the control system at all times when the collected gas is routed to the system.

63.1958(g) If monitoring demonstrates that the operational requirements in paragraph (b), (c), or (d) of this section are not met, corrective action must be taken as specified in §63.1960(a)(3) and (5) or (c). If corrective actions are taken as specified in §63.1960, the monitored exceedance is not a deviation of the operational requirements in this section.

[85 FR 17261, Mar. 26, 2020, as amended at 85 FR 64400, Oct. 13, 2020]

013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1959]**Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills NMOC calculation procedures.**

63.1959(a) [NA – PER 5/19/24 TIER 2 REPORT - NMOC > 50 Mg/yr]

63.1959(b) Each owner or operator of an affected source having a design capacity equal to or greater than 2.5 million Mg and 2.5 million m³ must either comply with paragraph (b)(2) of this section or calculate an NMOC emission rate for the landfill using the procedures specified in paragraph (a) of this section. The NMOC emission rate must be recalculated annually, except as provided in §63.1981(c)(1)(ii)(A).

63.1959(b)(1) [NA – GREATER THAN 50 MG/YR]

63.1959(b)(2) If the calculated NMOC emission rate is equal to or greater than 50 Mg/yr using Tier 1, 2, or 3 procedures, the owner or operator must either:

63.1959(b)(2)(i) Submit a collection and control system design plan prepared by a professional engineer to the Administrator within 1 year as specified in § 63.1981(d) or calculate NMOC emissions using the next higher tier in paragraph (a) of this section. The collection and control system must meet the requirements in paragraphs (b)(2)(ii) and (iii) of this section. [NOTE: COLLECTION AND CONTROL SYSTEM DESIGN PLAN SUBMITTED ON 5/5/25, REVISED ON 12/9/25, AND APPROVED BY DEP ON 12/22/25]

63.1959(b)(2)(ii) Collection system. Install and start up a collection and control system that captures the gas generated within the landfill as required by paragraphs (b)(2)(ii)(B) or (C) and (b)(2)(iii) of this section within 30 months after:

63.1959(b)(2)(ii)(A) The first annual report in which the NMOC emission rate equals or exceeds 50 Mg/yr, unless Tier 2 or Tier 3 sampling demonstrates that the NMOC emission rate is less than 50 Mg. [5/19/24 TIER 2 REPORT > 50 Mg/yr]

63.1959(b)(2)(ii)(B) An active collection system must:

63.1959(b)(2)(ii)(B)(1) Be designed to handle the maximum expected gas flow rate from the entire area of the landfill that warrants control over the intended use period of the gas control system equipment;

63.1959(b)(2)(ii)(B)(2) Collect gas from each area, cell, or group of cells in the landfill in which the initial solid waste has been placed for a period of 5 years or more if active; or 2 years or more if closed or at final grade;

63.1959(b)(2)(ii)(B)(3) Collect gas at a sufficient extraction rate; and

63.1959(b)(2)(ii)(B)(4) Be designed to minimize off-site migration of subsurface gas.

63.1959(b)(2)(ii)(C) A passive collection system must:

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63.1959(b)(2)(ii)(C)(1) Comply with the provisions specified in paragraphs (b)(2)(ii)(B)(1), (2), and (3) of this section; and

63.1959(b)(2)(ii)(C)(2) Be installed with liners on the bottom and all sides in all areas in which gas is to be collected. The liners must be installed as required under §258.40 of this chapter.

63.1959(b)(2)(iii) Control system. Route all the collected gas to a control system that complies with the requirements in either paragraph (b)(2)(iii)(A), (B), or (C) of this section.

63.1959(b)(2)(iii)(A) A non-enclosed flare designed and operated in accordance with the parameters established in §63.11(b) except as noted in paragraph (e) of this section; or

63.1959(b)(2)(iii)(B) A control system designed and operated to reduce NMOC by 98 weight-percent, or, when an enclosed combustion device is used for control, to either reduce NMOC by 98 weight-percent or reduce the outlet NMOC concentration to less than 20 ppmv, dry basis as hexane at 3-percent oxygen. The reduction efficiency or ppmv must be established by an initial performance test to be completed no later than 180 days after the initial startup of the approved control system using the test methods specified in paragraph (e) of this section. The performance test is not required for boilers and process heaters with design heat input capacities equal to or greater than 44 megawatts that burn landfill gas for compliance with this subpart.

63.1959(b)(2)(iii)(B)(1) [NA – FACILITY DOES NOT USE BOILER OR PROCESS HEATER]

63.1959(b)(2)(iii)(B)(2) The control device must be operated within the parameter ranges established during the initial or most recent performance test. The operating parameters to be monitored are specified in §§63.1961(b) through (e);

63.1959(b)(2)(iii)(C) [NA – FACILITY DOES NOT OPERATE A TREATMENT SYSTEM]

63.1959(b)(2)(iii)(D) [NA – FACILITY DOES NOT OPERATE A TREATMENT SYSTEM]

63.1959(c) After the installation and startup of a collection and control system in compliance with this subpart, the owner or operator must calculate the NMOC emission rate for purposes of determining when the system can be capped, removed, or decommissioned as provided in §63.1957(b)(3), using Equation 3:

[SEE REGULATION FOR EQUATION]

63.1959(c)(1) The flow rate of landfill gas, QLFG, must be determined by measuring the total landfill gas flow rate at the common header pipe that leads to the control system using a gas flow measuring device calibrated according to the provisions of section 10 of EPA Method 2E of appendix A-1 of part 60.

63.1959(c)(2) The average NMOC concentration, CNMOC, must 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 EPA Method 25 or 25C of appendix A-7 to part 60 of this chapter. The sample location on the common header pipe must be before any condensate removal or other gas refining units. The landfill owner or operator must divide the NMOC concentration from EPA Method 25 or 25C of appendix A-7 to part 60 by 6 to convert from CNMOC as carbon to CNMOC as hexane.

63.1959(c)(3) The owner or operator may use another method to determine landfill gas flow rate and NMOC concentration if the method has been approved by the Administrator.

63.1959(c)(3)(i) Within 60 days after the date of completing each performance test (as defined in §63.7), the owner or operator must submit the results of the performance test, including any associated fuel analyses, according to §63.1981(l)(1).

63.1959(c)(3)(ii) [Reserved]

63.1959(d) For the performance test required in § 63.1959(b)(2)(iii)(B), EPA Method 25 or 25C (EPA Method 25C of

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appendix A-7 to part 60 of this chapter may be used at the inlet only) of appendix A of this part must be used to determine compliance with the 98 weight-percent efficiency or the 20- ppmv outlet concentration level, unless another method to demonstrate compliance has been approved by the Administrator as provided by § 63.1981(d)(2). EPA Method 3, 3A, or 3C of appendix A-7 to part 60 must be used to determine oxygen for correcting the NMOC concentration as hexane to 3 percent. In cases where the outlet concentration is less than 50 ppm NMOC as carbon (8 ppm NMOC as hexane), EPA Method 25A should be used in place of EPA Method 25. EPA Method 18 may be used in conjunction with EPA Method 25A on a limited basis (compound specific, e.g., methane) or EPA Method 3C may be used to determine methane. The methane as carbon should be subtracted from the EPA Method 25A total hydrocarbon value as carbon to give NMOC concentration as carbon. The landowner or operator must divide the NMOC concentration as carbon by 6 to convert from the CNMOC as carbon to CNMOC as hexane. Equation 4 must be used to calculate efficiency:

[SEE REGULATION FOR EQUATION]

63.1959(e) For the performance test required in § 63.1959(b)(2)(iii)(A), the net heating value of the combusted landfill gas as determined in § 63.11(b)(6)(ii) is calculated from the concentration of methane in the landfill gas as measured by EPA Method 3C of appendix A to part 60 of this chapter. A minimum of three 30-minute EPA Method 3C samples are determined. The measurement of other organic components, hydrogen, and carbon monoxide is not applicable. EPA Method 3C may be used to determine the landfill gas molecular weight for calculating the flare gas exit velocity under § 63.11(b)(7) of subpart A.

63.1959(e)(1) Within 60 days after the date of completing each performance test (as defined in § 63.7), the owner or operator must submit the results of the performance tests, including any associated fuel analyses, required by § 63.1959(c) or (e) according to § 63.1981(l)(1).

63.1959(e)(2) [Reserved]

63.1959(f) The performance tests required in §§ 63.1959(b)(2)(iii)(A) and (B), must be conducted under such conditions as the Administrator specifies to the owner or operator based on representative performance of the affected source for the period being tested. Representative conditions exclude periods of startup and shutdown unless specified by the Administrator. The owner or operator may not conduct performance tests during periods of malfunction. The owner or operator must record the process information that is necessary to document operating conditions during the test and include in such record an explanation to support that such conditions represent normal operation. Upon request, the owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of performance tests.

[85 FR 17261, Mar. 26, 2020, as amended at 85 FR 64400, Oct. 13, 2020]

014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1960]

Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills Compliance provisions.

63.1960(a) Except as provided in §63.1981(d)(2), the specified methods in paragraphs (a)(1) through (5) of this section must be used to determine whether the gas collection system is in compliance with §63.1959(b)(2)(ii).

63.1960(a)(1) For the purposes of calculating the maximum expected gas generation flow rate from the landfill to determine compliance with §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 §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.

63.1960(a)(1)(i) For sites with unknown year-to-year solid waste acceptance rate: [SEE REGULATION FOR EQUATION]

63.1960(a)(1)(ii) For sites with known year-to-year solid waste acceptance rate: [SEE REGULATION FOR EQUATION]

63.1960(a)(1)(iii) If a collection and control system has been installed, actual flow data may be used to project the

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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.

63.1960(a)(2) For the purposes of determining sufficient density of gas collectors for compliance with §63.1959(b)(2)(ii)(B)(2), 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.

63.1960(a)(3) For the purpose of demonstrating whether the gas collection system flow rate is sufficient to determine compliance with §63.1959(b)(2)(ii)(B)(3), the owner or operator must measure gauge pressure in the gas collection header applied to each individual well monthly. Any attempted corrective measure must not cause exceedances of other operational or performance standards. [NOTE: PRE-9/28/21 REQUIREMENTS REMOVED]

63.1960(a)(3)(i) Beginning no later than September 27, 2021, if a positive pressure exists, action must be initiated to correct the exceedance within 5 days, except for the three conditions allowed under §63.1958(b).

63.1960(a)(3)(i)(A) If negative pressure cannot be achieved without excess air infiltration within 15 days of the first measurement of positive pressure, 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 positive pressure was first measured. The owner or operator must keep records according to §63.1983(e)(3).

63.1960(a)(3)(i)(B) If corrective actions cannot be fully implemented within 60 days following the positive pressure 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 positive pressure measurement. The owner or operator must submit the items listed in §63.1981(h)(7) as part of the next semi-annual report. The owner or operator must keep records according to §63.1983(e)(4).

63.1960(a)(3)(i)(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 §63.1981(j). The owner or operator must keep records according to §63.1983(e)(5).

63.1960(a)(3)(ii) [Reserved]

63.1960(a)(4) [NOTE: PRE-9/28/21 REQUIREMENTS REMOVED]

63.1960(a)(4)(i) Once an owner or operator subject to the provisions of this subpart seeks to demonstrate compliance with the operational standard for temperature in §63.1958(c)(1), the owner or operator must monitor each well monthly for temperature for the purpose of identifying whether excess air infiltration exists. If a well exceeds the operating parameter for temperature as provided in §63.1958(c)(1), action must be initiated to correct the exceedance within 5 days. Any attempted corrective measure must not cause exceedances of other operational or performance standards.

63.1960(a)(4)(i)(A) If a landfill gas temperature less than or equal to 62.8 degrees Celsius (145 degrees Fahrenheit) cannot be achieved within 15 days of the first measurement of landfill gas temperature greater than 62.8 degrees Celsius (145 degrees Fahrenheit), 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 degrees Celsius (145 degrees Fahrenheit) was first measured. The owner or operator must keep records according to §63.1983(e)(3).

63.1960(a)(4)(i)(B) 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 degrees Celsius (145 degrees Fahrenheit). The owner or operator must submit the items listed in §63.1981(h)(7) as part of the next semi-annual report.

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The owner or operator must keep records according to §63.1983(e)(4).

63.1960(a)(4)(i)(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 §63.1981(h)(7) and (j). The owner or operator must keep records according to §63.1983(e)(5).

63.1960(a)(4)(i)(D) 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 degrees Celsius (170 degrees Fahrenheit) and the carbon monoxide concentration measured, according to the procedures in §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 degrees Celsius or 145 degrees Fahrenheit) must be completed within 15 days.

63.1960(a)(5) [NA – FACILITY NOT SEEKING TO SHOW COMPLIANCE WITH §63.1959(b)(2)(ii)(B)(4) WITH NONCONFORMING COLLECTION SYSTEM]

63.1960(b) For purposes of compliance with §63.1958(a), each owner or operator of a controlled landfill must place each well or design component as specified in the approved design plan as provided in §63.1981(d). Each well must be installed no later than 60 days after the date on which the initial solid waste has been in place for a period of:

63.1960(b)(1) 5 years or more if active; or

63.1960(b)(2) 2 years or more if closed or at final grade.

63.1960(c) The following procedures must be used for compliance with the surface methane operational standard as provided in §63.1958(d).

63.1960(c)(1) After installation and startup of the gas collection system, the owner or operator must monitor surface concentrations of methane along the entire perimeter of the collection area and along a pattern that traverses the landfill at 30 meter intervals (or a site-specific established spacing) for each collection area on a quarterly basis using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications provided in paragraph (d) of this section.

63.1960(c)(2) The background concentration must be determined by moving the probe inlet upwind and downwind outside the boundary of the landfill at a distance of at least 30 meters from the perimeter wells.

63.1960(c)(3) Surface emission monitoring must be performed in accordance with section 8.3.1 of EPA Method 21 of appendix A-7 of part 60 of this chapter, except that the probe inlet must be placed within 5 to 10 centimeters of the ground. Monitoring must be performed during typical meteorological conditions.

63.1960(c)(4) Any reading of 500 ppm or more above background at any location must be recorded as a monitored exceedance and the actions specified in paragraphs (c)(4)(i) through (v) of this section must be taken. As long as the specified actions are taken, the exceedance is not a violation of the operational requirements of §63.1958(d).

63.1960(c)(4)(i) The location of each monitored exceedance must be marked and the location and concentration recorded. Beginning no later than September 27, 2021, 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.

63.1960(c)(4)(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.

63.1960(c)(4)(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 (c)(4)(v) of this section must be taken, and no further monitoring of that location is required until the action specified in paragraph (c)(4)(v) of this section has been taken.

63.1960(c)(4)(iv) Any location that initially showed an exceedance but has a methane concentration less than 500 ppm

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methane above background at the 10-day re-monitoring specified in paragraph (c)(4)(ii) or (iii) of this section 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 (c)(4)(iii) or (v) of this section must be taken.

63.1960(c)(4)(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 Administrator for approval.

63.1960(c)(5) The owner or operator must implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis.

63.1960(d) Each owner or operator seeking to comply with the provisions in paragraph (c) of this section must comply with the following instrumentation specifications and procedures for surface emission monitoring devices:

63.1960(d)(1) The portable analyzer must 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".

63.1960(d)(2) The calibration gas must be methane, diluted to a nominal concentration of 500 ppm in air.

63.1960(d)(3) 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 must be used.

63.1960(d)(4) The calibration procedures provided in sections 8 and 10 of EPA Method 21 of appendix A of part 60 of this chapter must be followed immediately before commencing a surface monitoring survey.

63.1960(e)

63.1960(e)(1) [NA – 9/27/21]

63.1960(e)(2) Once an owner or operator subject to the provisions of this subpart seeks to demonstrate compliance with the operational standard in §63.1958(e)(1), the provisions of this subpart apply at all times, including periods of SSM. During periods of SSM, you must comply with the work practice requirement specified in §63.1958(e) in lieu of the compliance provisions in §63.1960.

[85 FR 17261, Mar. 26, 2020, as amended at 85 FR 64400, Oct. 13, 2020; 87 FR 8203, Feb. 14, 2022]

015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1961]**Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills Monitoring of operations.**

Except as provided in §63.1981(d)(2):

63.1961(a) Each owner or operator seeking to comply with §63.1959(b)(2)(ii)(B) for an active gas collection system must install a sampling port and a thermometer, other temperature measuring device, or an access port for temperature measurements at each wellhead and:

63.1961(a)(1) Measure the gauge pressure in the gas collection header on a monthly basis as provided in §63.1960(a)(3); and

63.1961(a)(2) Monitor nitrogen or oxygen concentration in the landfill gas on a monthly basis as follows:

63.1961(a)(2)(i) The nitrogen level must be determined using EPA Method 3C of appendix A-2 to part 60 of this chapter, unless an alternative test method is established as allowed by §63.1981(d)(2).

63.1961(a)(2)(ii) Unless an alternative test method is established as allowed by §63.1981(d)(2), the oxygen level must

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be determined by an oxygen meter using EPA Method 3A or 3C of appendix A-2 to part 60 of this chapter or ASTM D6522-11 (incorporated by reference, see §63.14). Determine the oxygen level by an oxygen meter using EPA Method 3A or 3C of appendix A-2 to part 60 or ASTM D6522-11 (if sample location is prior to combustion) except that:

63.1961(a)(2)(ii)(A) The span must be set between 10- and 12-percent oxygen;

63.1961(a)(2)(ii)(B) A data recorder is not required;

63.1961(a)(2)(ii)(C) Only two calibration gases are required, a zero and span;

63.1961(a)(2)(ii)(D) A calibration error check is not required; and

63.1961(a)(2)(ii)(E) The allowable sample bias, zero drift, and calibration drift are ± 10 percent.

63.1961(a)(2)(iii) A portable gas composition analyzer may be used to monitor the oxygen levels provided:

63.1961(a)(2)(iii)(A) The analyzer is calibrated; and

63.1961(a)(2)(iii)(B) The analyzer meets all quality assurance and quality control requirements for EPA Method 3A of appendix A-2 to part 60 of this chapter or ASTM D6522-11 (incorporated by reference, see §63.14).

63.1961(a)(3) [NA – AFTER 9/27/21]

63.1961(a)(4) Where an owner or operator subject to the provisions of this subpart seeks to demonstrate compliance with the operational standard for temperature in §63.1958(c)(1), monitor temperature of the landfill gas on a monthly basis as provided in §63.1960(a)(4). 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. Keep records specified in §63.1983(e).

63.1961(a)(5) Where an owner or operator subject to the provisions of this subpart seeks to demonstrate compliance with the operational standard for temperature in §63.1958(c)(1), unless a higher operating temperature value has been approved by the Administrator under this subpart or under 40 CFR part 60, subpart WWW; 40 CFR 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 must initiate enhanced monitoring at each well with a measurement of landfill gas temperature greater than 62.8 degrees Celsius (145 degrees Fahrenheit) as follows:

63.1961(a)(5)(i) Visual observations for subsurface oxidation events (smoke, smoldering ash, damage to well) within the radius of influence of the well.

63.1961(a)(5)(ii) Monitor oxygen concentration as provided in paragraph (a)(2) of this section;

63.1961(a)(5)(iii) Monitor temperature of the landfill gas at the wellhead as provided in paragraph (a)(4) of this section.

63.1961(a)(5)(iv) Monitor temperature of the landfill gas every 10 vertical feet of the well as provided in paragraph (a)(6) of this section.

63.1961(a)(5)(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 that the analyzer is calibrated and the analyzer meets all quality assurance and quality control requirements for EPA Method 3C or EPA Method 18.

63.1961(a)(5)(vi) Monitor and determine carbon monoxide concentrations, as follows:

63.1961(a)(5)(vi)(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

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63.1961(a)(5)(vi)(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.

63.1961(a)(5)(vi)(C) When sampling directly from the wellhead, you must 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.

63.1961(a)(5)(vi)(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.

63.1961(a)(5)(vii) The enhanced monitoring described in this paragraph (a)(5) must begin 7 calendar days after the first measurement of landfill gas temperature greater than 62.8 degrees Celsius (145 degrees Fahrenheit); and

63.1961(a)(5)(viii) The enhanced monitoring in this paragraph (a)(5) must 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.

63.1961(a)(5)(ix) The enhanced monitoring in this paragraph (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).

63.1961(a)(6) 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.

63.1961(b) Each owner or operator seeking to comply with §63.1959(b)(2)(iii) using an enclosed combustor must calibrate, maintain, and operate according to the manufacturer's specifications, the following equipment:

63.1961(b)(1) 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. A temperature monitoring device is not required for boilers or process heaters with design heat input capacity equal to or greater than 44 megawatts.

63.1961(b)(2) A device that records flow to the control device and bypass of the control device (if applicable). The owner or operator must:

63.1961(b)(2)(i) Install, calibrate, and maintain a gas flow rate measuring device that must record the flow to the control device at least every 15 minutes; and

63.1961(b)(2)(ii) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism must be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.

63.1961(c) Each owner or operator seeking to comply with §63.1959(b)(2)(iii) using a non-enclosed flare must install, calibrate, maintain, and operate according to the manufacturer's specifications the following equipment:

63.1961(c)(1) A heat sensing device, such as an ultraviolet beam sensor or thermocouple, at the pilot light or the flame itself to indicate the continuous presence of a flame; and

63.1961(c)(2) A device that records flow to the flare and bypass of the flare (if applicable). The owner or operator must:

63.1961(c)(2)(i) Install, calibrate, and maintain a gas flow rate measuring device that records the flow to the control

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device at least every 15 minutes; and

63.1961(c)(2)(ii) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism must be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.

63.1961(d) [NA – FACILITY DOES NOT USE A DEVICE OTHER THAN AN OPEN FLARE OR AN ENCLOSED COMBUSTOR]

63.1961(e) Each owner or operator seeking to install a collection system that does not meet the specifications in §63.1962 or seeking to monitor alternative parameters to those required by §§63.1958 through 63.1961 must provide information satisfactory to the Administrator as provided in §63.1981(d)(2) and (3) describing the design and operation of the collection system, the operating parameters that would indicate proper performance, and appropriate monitoring procedures. The Administrator may specify additional appropriate monitoring procedures.

63.1961(f) Each owner or operator seeking to demonstrate compliance with the 500-ppm surface methane operational standard in §63.1958(d) must monitor surface concentrations of methane according to the procedures in §63.1960(c) and the instrument specifications in §63.1960(d). If you are complying with the 500-ppm surface methane operational standard in §63.1958(d)(2), for location, you must determine the latitude and longitude coordinates of each exceedance using an instrument with an accuracy of at least 4 meters and the coordinates must be in decimal degrees with at least five decimal places. In the semi-annual report in §63.1981(h), you must report the location of each exceedance of the 500-ppm methane concentration as provided in §63.1958(d) and the concentration recorded at each location for which an exceedance was recorded in the previous month. Any closed landfill that has no monitored exceedances of the operational standard in three consecutive quarterly monitoring periods may skip to annual monitoring. Any methane reading of 500 ppm or more above background detected during the annual monitoring returns the frequency for that landfill to quarterly monitoring.

63.1961(g) Each owner or operator seeking to demonstrate compliance with §63.1959(b)(2)(iii)(C) using a landfill gas treatment system must calibrate, maintain, and operate according to the manufacturer's specifications a device that records flow to the treatment system and bypass of the treatment system (if applicable). Beginning no later than September 27, 2021, each owner or operator must maintain and operate all monitoring systems associated with the treatment system in accordance with the site-specific treatment system monitoring plan required in §63.1983(b)(5)(ii). The owner or operator must:

63.1961(g)(1) Install, calibrate, and maintain a gas flow rate measuring device that records the flow to the treatment system at least every 15 minutes; and

63.1961(g)(2) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism must be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.

63.1961(h) The monitoring requirements of paragraphs (a), (b), (c), (d), and (g) of this section apply at all times the affected source is operating, except for periods of monitoring system malfunctions, repairs associated with monitoring system malfunctions, and required monitoring system quality assurance or quality control activities. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. You are required to complete monitoring system repairs in response to monitoring system malfunctions and to return the monitoring system to operation as expeditiously as practicable. Where an owner or operator subject to the provisions of this subpart seeks to demonstrate compliance with the temperature and nitrogen or oxygen operational standards in introductory paragraph §63.1958(c)(1), (d)(2), and (e)(1), the standards apply at all times.

[85 FR 17261, Mar. 26, 2020, as amended at 85 FR 64401, Oct. 13, 2020; 87 FR 8203, Feb. 14, 2022]

016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1962]

Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills Specifications for active collection systems.

63.1962(a) Each owner or operator seeking to comply with § 63.1959(b)(2)(i) must site active collection wells, horizontal collectors, surface collectors, or other extraction devices at a sufficient density throughout all gas producing areas using the following procedures unless alternative procedures have been approved by the Administrator as provided in §

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63.1981(d)(2) and (3):

63.1962(a)(1) The collection devices within the interior must be certified to achieve comprehensive control of surface gas emissions by a professional engineer. The following issues must 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.

63.1962(a)(2) The sufficient density of gas collection devices determined in paragraph (a)(1) of this section must 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.

63.1962(a)(3) The placement of gas collection devices determined in paragraph (a)(1) of this section must control all gas producing areas, except as provided by paragraphs (a)(3)(i) and (ii) of this section.

63.1962(a)(3)(i) Any segregated area of asbestos or nondegradable material may be excluded from collection if documented as provided under § 63.1983(d). The documentation must provide the nature, date of deposition, location and amount of asbestos or nondegradable material deposited in the area and must be provided to the Administrator upon request.

63.1962(a)(3)(ii) Any nonproductive area of the landfill may be excluded from control, provided that the total of all excluded areas can be shown to contribute less than 1 percent of the total amount of NMOC emissions from the landfill. The amount, location, and age of the material must be documented and provided to the Administrator upon request. A separate NMOC emissions estimate must be made for each section proposed for exclusion, and the sum of all such sections must be compared to the NMOC emissions estimate for the entire landfill.

63.1962(a)(3)(ii)(A) The NMOC emissions from each section proposed for exclusion must be computed using Equation 7:

[SEE REGULATION FOR EQUATION]

63.1962(a)(3)(ii)(B) 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 § 63.1959(c) or Equation 7 in paragraph (a)(3)(ii)(A) of this section.

63.1962(a)(3)(iii) The values for k and CNMOC determined in field testing must be used if field testing has been performed in determining the NMOC emission rate or the radii of influence (the distance from the well center to a point in the landfill where the pressure gradient applied by the blower or compressor approaches zero). If field testing has not been performed, the default values for k , L_0 and CNMOC provided in § 63.1959(a)(1) or the alternative values from § 63.1959(a)(5) must be used. The mass of nondegradable solid waste contained within the given section may be subtracted from the total mass of the section when estimating emissions provided the nature, location, age, and amount of the nondegradable material is documented as provided in paragraph (a)(3)(i) of this section.

63.1962(b) Each owner or operator seeking to comply with § 63.1959(b)(2)(ii) must construct the gas collection devices using the following equipment or procedures:

63.1962(b)(1) The landfill gas extraction components must 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 must extend as necessary to comply with emission and migration standards. Collection devices such as wells and horizontal collectors must be perforated to allow gas entry without head loss sufficient to impair performance across the intended extent of control. Perforations must be situated with regard to the need to prevent excessive air infiltration.

63.1962(b)(2) Vertical wells must be placed so as not to endanger underlying liners and must address the occurrence of

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water within the landfill. Holes and trenches constructed for piped wells and horizontal collectors must be of sufficient cross-section so as to allow for their proper construction and completion including, for example, centering of pipes and placement of gravel backfill. Collection devices must 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.

63.1962(b)(3) Collection devices may be connected to the collection header pipes below or above the landfill surface. The connector assembly must include a positive closing throttle valve, any necessary seals and couplings, access couplings and at least one sampling port. The collection devices must be constructed of PVC, HDPE, fiberglass, stainless steel, or other nonporous material of suitable thickness.

63.1962(c) Each owner or operator seeking to comply with § 63.1959(b)(2)(iii) must convey the landfill gas to a control system in compliance with § 63.1959(b)(2)(iii) through the collection header pipe(s). The gas mover equipment must 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:

63.1962(c)(1) For existing collection systems, the flow data must be used to project the maximum flow rate. If no flow data exists, the procedures in paragraph (c)(2) of this section must be used.

63.1962(c)(2) For new collection systems, the maximum flow rate must be in accordance with § 63.1960(a)(1).

017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1964]**Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills
How is compliance determined?**

Compliance is determined using performance testing, collection system monitoring, continuous parameter monitoring, and other credible evidence. In addition, continuous parameter monitoring data collected under §63.1961(b)(1), (c)(1), and (d) are used to demonstrate compliance with the operating standards for control systems. If a deviation occurs, you have failed to meet the control device operating standards described in this subpart and have deviated from the requirements of this subpart.

63.1964(a) [NA – AFTER 9/27/21]

63.1964(b) After September 27, 2021, the SSM provisions of §63.6(e) of subpart A no longer apply to this subpart and the SSM plan developed under paragraph (a) of this section no longer applies. Compliance with the emissions standards and the operating standards of §63.1958 of this subpart is required at all times.

018 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1965]**Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills
What is a deviation?**

A deviation is defined in §63.1990. For the purposes of the landfill monitoring and SSM plan requirements, deviations include the items in paragraphs (a) through (c) of this section.

63.1965(a) A deviation occurs when the control device operating parameter boundaries described in §63.1983(c)(1) are exceeded.

63.1965(b) A deviation occurs when 1 hour or more of the hours during the 3-hour block averaging period does not constitute a valid hour of data. A valid hour of data must have measured values for at least three 15-minute monitoring periods within the hour.

(c) [NA – AFTER 9/27/21]

019 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1975]**Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills
How do I calculate the 3-hour block average used to demonstrate compliance?**

Beginning no later than September 27, 2021, averages are calculated according to § 63.1983(b)(2)(i) for average combustion temperature and § 63.1983(c)(1)(i) for 3-hour average combustion temperature for enclosed combustors, except that the data collected during the event listed in paragraph (a) of this section are not to be included in any average computed under this subpart. [NOTE: PRE-9/28/21 REQUIREMENTS REMOVED]

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63.1975(a) Monitoring system breakdowns, repairs, calibration checks, and zero (low-level) and high-level adjustments.

63.1975(b) Startups.

63.1975(c) Shutdowns.

63.1975(d) Malfunctions.

[85 FR 17261, Mar. 26, 2020, as amended at 87 FR 8204, Feb. 14, 2022]

020 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1981]

Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills
What reports must I submit?

You must submit the reports specified in this section and the reports specified in Table 1 to this subpart. If you have previously submitted a design capacity report, amended design capacity report, initial NMOC emission rate report, initial or revised collection and control system design plan, closure report, equipment removal report, or initial performance test under 40 CFR part 60, subpart WWW; 40 CFR 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, then that submission constitutes compliance with the design capacity report in paragraph (a) of this section, the amended design capacity report in paragraph (b) of this section, the initial NMOC emission rate report in paragraph (c) of this section, the initial collection and control system design plan in paragraph (d) of this section, the revised design plan in paragraph (e) of this section, the closure report in paragraph (f) of this section, the equipment removal report in paragraph (g) of this section, and the initial performance test report in paragraph (i) of this section. You do not need to re-submit the report(s). However, you must include a statement certifying prior submission of the respective report(s) and the date of submittal in the first semi-annual report required in this section.

63.1981(a) [NA – INITIAL DESIGN CAPACITY REPORT IS IN THE PAST]

63.1981(b) Amended design capacity report. An amended design capacity report must be submitted to the Administrator providing notification of an increase in the design capacity of the landfill, within 90 days of an increase in the maximum design capacity of the landfill to meet or exceed 2.5 million Mg and 2.5 million m³. This increase in design capacity may result from an increase in the permitted volume of the landfill or an increase in the density as documented in the annual recalculation required in § 63.1983(f).

63.1981(c) NMOC emission rate report. Each owner or operator subject to the requirements of this subpart must submit a copy of the latest NMOC emission rate report that was submitted according to § 60.757(b) of this chapter or submit an NMOC emission rate report to the Administrator initially and annually thereafter, except as provided for in paragraph (c)(1)(ii)(A) of this section. The Administrator may request such additional information as may be necessary to verify the reported NMOC emission rate. If you have submitted an annual report under 40 CFR part 60, subpart WWW; 40 CFR 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, then that submission constitutes compliance with the annual NMOC emission rate report in this paragraph. You do not need to re-submit the annual report for the current year. Beginning no later than September 27, 2021, the report must meet the following requirements:

63.1981(c)(1) The NMOC emission rate report must contain an annual or 5-year estimate of the NMOC emission rate calculated using the formula and procedures provided in § 63.1959(a) or (b), as applicable.

63.1981(c)(1)(i) The initial NMOC emission rate report must be submitted no later than 90 days after the date of commenced construction, modification, or reconstruction for landfills that commence construction, modification, or reconstruction on or after March 12, 1996.

63.1981(c)(1)(ii) Subsequent NMOC emission rate reports must be submitted annually thereafter, except as provided for in paragraph (c)(1)(ii)(A) of this section.

63.1981(c)(1)(ii)(A) If the estimated NMOC emission rate as reported in the annual report to the Administrator is less than 50 Mg/yr in each of the next 5 consecutive years, the owner or operator may elect to submit, an estimate of the NMOC emission rate for the next 5-year period in lieu of the annual report. This estimate must include the current amount of solid

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waste-in-place and the estimated waste acceptance rate for each year of the 5 years for which an NMOC emission rate is estimated. All data and calculations upon which this estimate is based must be provided to the Administrator. This estimate must be revised at least once every 5 years. If the actual waste acceptance rate exceeds the estimated waste acceptance rate in any year reported in the 5-year estimate, a revised 5-year estimate must be submitted to the Administrator. The revised estimate must cover the 5-year period beginning with the year in which the actual waste acceptance rate exceeded the estimated waste acceptance rate.

63.1981(c)(1)(ii)(B) The report must be submitted following the procedure specified in paragraph (l)(2) of this section.

63.1981(c)(2) The NMOC emission rate report must include all the data, calculations, sample reports and measurements used to estimate the annual or 5-year emissions.

63.1981(c)(3) Each owner or operator subject to the requirements of this subpart is exempted from the requirements to submit an NMOC emission rate report, after installing a collection and control system that complies with § 63.1959(b)(2), during such time as the collection and control system is in operation and in compliance with §§ 63.1958 and 63.1960.

63.1981(d) Collection and control system design plan. Each owner or operator subject to the provisions of § 63.1959(b)(2) must submit a collection and control system design plan to the Administrator for approval according to § 60.757(c) of this chapter and the schedule in § 60.757(c)(1) and (2). Beginning no later than September 27, 2021, each owner or operator subject to the provisions of § 63.1959(b)(2) must submit a collection and control system design plan to the Administrator according to paragraphs (d)(1) through (6) of this section. The collection and control system design plan must be prepared and approved by a professional engineer.

63.1981(d)(1) The collection and control system as described in the design plan must meet the design requirements in § 63.1959(b)(2).

63.1981(d)(2) The collection and control system design plan must include any alternatives to the operational standards, test methods, procedures, compliance measures, monitoring, recordkeeping or reporting provisions of §§ 63.1957 through 63.1983 proposed by the owner or operator.

63.1981(d)(3) The collection and control system design plan must either conform with specifications for active collection systems in § 63.1962 or include a demonstration to the Administrator's satisfaction of the sufficiency of the alternative provisions to § 63.1962.

63.1981(d)(4) Each owner or operator of an MSW landfill affected by this subpart must submit a collection and control system design plan to the Administrator for approval within 1 year of becoming subject to this subpart.

63.1981(d)(5) The landfill owner or operator must notify the Administrator that the design plan is completed and submit a copy of the plan's signature page. The Administrator has 90 days to decide whether the design plan should be submitted for review. If the Administrator chooses to review the plan, the approval process continues as described in paragraph (d)(6) of this section. In the event that the design plan is required to be modified to obtain approval, the owner or operator must take any steps necessary to conform any prior actions to the approved design plan and any failure to do so could result in an enforcement action.

63.1981(d)(6) Upon receipt of an initial or revised design plan, the Administrator must review the information submitted under paragraphs (d)(1) through (3) of this section 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.

63.1981(e) Revised design plan. Beginning no later than September 27, 2021, the owner or operator who has already been required to submit a design plan under paragraph (d) of this section must submit a revised design plan to the Administrator for approval as follows:

63.1981(e)(1) At least 90 days before expanding operations to an area not covered by the previously approved design plan.

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63.1981(e)(2) Prior to installing or expanding the gas collection system in a way that is not consistent with the design plan that was submitted to the Administrator according to paragraph (d) of this section.

63.1981(f) Closure report. Each owner or operator of a controlled landfill must submit a closure report to the Administrator within 30 days of waste acceptance cessation. The Administrator may request additional information as may be necessary to verify that permanent closure has taken place in accordance with the requirements of § 258.60 of this chapter. If a closure report has been submitted to the Administrator, no additional wastes may be placed into the landfill without filing a notification of modification as described under § 63.9(b) of subpart A.

63.1981(g) Equipment removal report. Each owner or operator of a controlled landfill must submit an equipment removal report as provided in § 60.757(e) of this chapter. 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.

63.1981(g)(1) Beginning no later than September 27, 2021, the equipment removal report must contain all of the following items:

63.1981(g)(1)(i) A copy of the closure report submitted in accordance with paragraph (f) of this section;

63.1981(g)(1)(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

63.1981(g)(1)(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.

63.1981(g)(2) The Administrator may request such additional information as may be necessary to verify that all of the conditions for removal in § 63.1957(b) have been met.

63.1981(h) Semi-annual report. The owner or operator of a landfill seeking to comply with § 63.1959(b)(2) using an active collection system designed in accordance with § 63.1959(b)(2)(ii) must submit to the Administrator semi-annual reports. Beginning no later than September 27, 2021, you must submit the report, following the procedure specified in paragraph (l) of this section. The initial report must be submitted within 180 days of installation and startup of the collection and control system and must include the initial performance test report required under § 63.7 of subpart A, as applicable. In the initial 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 CDX. For enclosed combustion devices and flares, reportable exceedances are defined under § 63.1983(c). The semi-annual reports must contain the information in paragraphs (h)(1) through (8) of this section.

63.1981(h)(1) Number of times that applicable parameters monitored under § 63.1958(b), (c), and (d) were exceeded and when the gas collection and control system was not operating under § 63.1958(e), including periods of SSM. For each instance, report the date, time, and duration of each exceedance.

63.1981(h)(1)(i) [NA – AFTER 9/27/21]

63.1981(h)(1)(ii) Where an owner or operator subject to the provisions of this subpart seeks to demonstrate compliance with the operational standard for temperature in § 63.1958(c)(1), 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 § 63.1961(a)(4) were exceeded. For each instance, report the date, time, and duration of each exceedance.

63.1981(h)(1)(iii) Beginning no later than September 27, 2021, number of times the parameters for the site-specific treatment system in § 63.1961(g) were exceeded.

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63.1981(h)(2) Description and duration of all periods when the gas stream was diverted from the control device or treatment system through a bypass line or the indication of bypass flow as specified under § 63.1961.

63.1981(h)(3) Description and duration of all periods when the control device or treatment system was not operating and length of time the control device or treatment system was not operating.

63.1981(h)(4) All periods when the collection system was not operating.

63.1981(h)(5) The location of each exceedance of the 500-ppm methane concentration as provided in § 63.1958(d) and the concentration recorded at each location for which an exceedance was recorded in the previous month. Beginning no later than September 27, 2021, for location, you record the latitude and longitude coordinates of each exceedance using an instrument with an accuracy of at least 4 meters. The coordinates must be in decimal degrees with at least five decimal places.

63.1981(h)(6) The date of installation and the location of each well or collection system expansion added pursuant to § 63.1960(a)(3) and (4), (b), and (c)(4).

63.1981(h)(7) For any corrective action analysis for which corrective actions are required in § 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.

63.1981(h)(8) Each owner or operator required to conduct enhanced monitoring in §§ 63.1961(a)(5) and (6) must include the results of all monitoring activities conducted during the period.

63.1981(h)(8)(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.

63.1981(h)(8)(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 carbon monoxide.

63.1981(h)(8)(iii) Include the date, time, staff person name, and description of findings for each visual observation for subsurface oxidation event.

63.1981(i) Initial performance test report. Each owner or operator seeking to comply with § 63.1959(b)(2)(iii) must include the following information with the initial performance test report required under § 63.7 of subpart A:

63.1981(i)(1) A diagram of the collection system showing collection system positioning including all wells, horizontal collectors, surface collectors, or other gas extraction devices, including the locations of any areas excluded from collection and the proposed sites for the future collection system expansion;

63.1981(i)(2) The data upon which the sufficient density of wells, horizontal collectors, surface collectors, or other gas extraction devices and the gas mover equipment sizing are based;

63.1981(i)(3) The documentation of the presence of asbestos or nondegradable material for each area from which collection wells have been excluded based on the presence of asbestos or nondegradable material;

63.1981(i)(4) The sum of the gas generation flow rates for all areas from which collection wells have been excluded based on nonproductivity and the calculations of gas generation flow rate for each excluded area;

63.1981(i)(5) The provisions for increasing gas mover equipment capacity with increased gas generation flow rate, if the present gas mover equipment is inadequate to move the maximum flow rate expected over the life of the landfill; and

63.1981(i)(6) The provisions for the control of off-site migration.

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63.1981(j) Corrective action and the corresponding timeline. The owner or operator must submit information regarding corrective actions according to paragraphs (j)(1) and (2) of this section.

63.1981(j)(1) For corrective action that is required according to § 63.1960(a)(3) or (4) and is not completed within 60 days after the initial exceedance, you must submit a notification to the Administrator as soon as practicable but no later than 75 days after the first measurement of positive pressure or temperature exceedance.

63.1981(j)(2) For corrective action that is required according to § 63.1960(a)(3) or (4) and is expected to take longer than 120 days after the initial exceedance to complete, you must submit the root cause analysis, corrective action analysis, and corresponding implementation timeline to the Administrator as soon as practicable but no later than 75 days after the first measurement of positive pressure or temperature monitoring value of 62.8 degrees Celsius (145 degrees Fahrenheit) or above unless a higher operating temperature value has been approved by the Administrator for the well under this subpart or under 40 CFR part 60, subpart WWW; 40 CFR 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. The Administrator must approve the plan for corrective action and the corresponding timeline.

63.1981(k) 24-hour high temperature report. Where an owner or operator subject to the provisions of this subpart seeks to demonstrate compliance with the operational standard for temperature in § 63.1958(c)(1) and a landfill gas temperature measured at either the wellhead or at any point in the well is greater than or equal to 76.7 degrees Celsius (170 degrees Fahrenheit) and the carbon monoxide concentration measured is greater than or equal to 1,000 ppmv, then you must report the date, time, well identifier, temperature and carbon monoxide reading via email to the Administrator within 24 hours of the measurement unless a higher operating temperature value has been approved by the Administrator for the well under this subpart or under 40 CFR part 60, subpart WWW; 40 CFR 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.

63.1981(l) Electronic reporting. Beginning no later than September 27, 2021, the owner or operator must submit reports electronically according to paragraphs (l)(1) and (2) of this section.

63.1981(l)(1) Within 60 days after the date of completing each performance test required by this subpart, you must submit the results of the performance test following the procedures specified in paragraphs (l)(1)(i) through (iii) of this section.

63.1981(l)(1)(i) Data collected using test methods supported by the EPA's Electronic Reporting Tool (ERT) as listed on the EPA's ERT website (<https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert>) at the time of the test. Submit the results of the performance test to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI), which can be accessed through the EPA's CDX (<https://cdx.epa.gov/>). The data must be submitted in a file format generated through the use of the EPA's ERT. Alternatively, you may submit an electronic file consistent with the extensible markup language (XML) schema listed on the EPA's ERT website.

63.1981(l)(1)(ii) Data collected using test methods that are not supported by the EPA's ERT as listed on the EPA's ERT website at the time of the test. The results of the performance test must be included as an attachment in the ERT or an alternate electronic file consistent with the XML schema listed on the EPA's ERT website. Submit the ERT generated package or alternative file to the EPA via CEDRI.

63.1981(l)(1)(iii) Confidential business information (CBI). If you claim some of the information submitted under paragraph (a) of this section is CBI, you must submit a complete file, including information claimed to be CBI, to the EPA. The file must be generated through the use of the EPA's ERT or an alternate electronic file consistent with the XML schema listed on the EPA's ERT website. Submit the file on a compact disc, flash drive, or other commonly used electronic storage medium and clearly mark the medium as CBI. Mail the electronic medium to U.S. EPA/OAQPS/CORE CBI Office, Attention: Group Leader, Measurement Policy Group, MD C404-02, 4930 Old Page Rd., Durham, NC 27703. The same file with the CBI omitted must be submitted to the EPA via the EPA's CDX as described in paragraph (l)(1)(i) of this section.

63.1981(l)(2) Each owner or operator required to submit reports following the procedure specified in this paragraph must submit reports to the EPA via CEDRI. CEDRI can be accessed through the EPA's CDX. The owner or operator must use the appropriate electronic report in CEDRI for this subpart or an alternate electronic file format consistent with the XML schema listed on the CEDRI website (<https://www.epa.gov/electronic-reporting-air-emissions/compliance-and-emissions-data-reporting-interface-cedri>). Once the spreadsheet template upload/forms for the reports have been available in CEDRI for 90 days, the owner or operator must begin submitting all subsequent reports via CEDRI. The reports must be submitted by the

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deadlines specified in this subpart, regardless of the method in which the reports are submitted. The NMOC emission rate reports, semi-annual reports, and bioreactor 40-percent moisture reports should be electronically reported as a spreadsheet template upload/form to CEDRI. If the reporting forms specific to this subpart are not available in CEDRI at the time that the reports are due, the owner or operator must submit the reports to the Administrator at the appropriate address listed in § 63.13 of subpart A.

63.1981(m) Claims of EPA system outage. Beginning no later than September 27, 2021, if you are required to electronically submit a report through CEDRI in the EPA's CDX, you may assert a claim of EPA system outage for failure to comply timely with the reporting requirement. To assert a claim of EPA system outage, you must meet the following requirements:

63.1981(m)(1) You must have been or will be precluded from accessing CEDRI and submitting a required report within the time prescribed due to an outage of either the EPA's CEDRI or CDX systems.

63.1981(m)(2) The outage must have occurred within the period of time beginning 5 business days prior to the date that the submission is due.

63.1981(m)(3) The outage may be planned or unplanned.

63.1981(m)(4) You must submit notification to the Administrator in writing as soon as possible following the date you first knew, or through due diligence should have known, that the event may cause or has caused a delay in reporting.

63.1981(m)(5) You must provide to the Administrator a written description identifying:

63.1981(m)(5)(i) The date(s) and time(s) when CDX or CEDRI was accessed and the system was unavailable;

63.1981(m)(5)(ii) A rationale for attributing the delay in reporting beyond the regulatory deadline to EPA system outage;

63.1981(m)(5)(iii) Measures taken or to be taken to minimize the delay in reporting; and

63.1981(m)(5)(iv) The date by which you propose to report, or if you have already met the reporting requirement at the time of the notification, the date you reported.

63.1981(m)(6) The decision to accept the claim of EPA system outage and allow an extension to the reporting deadline is solely within the discretion of the Administrator.

63.1981(m)(7) In any circumstance, the report must be submitted electronically as soon as possible after the outage is resolved.

63.1981(n) Claims of force majeure. Beginning no later than September 27, 2021, if you are required to electronically submit a report through CEDRI in the EPA's CDX, you may assert a claim of force majeure for failure to comply timely with the reporting requirement. To assert a claim of force majeure, you must meet the following requirements:

63.1981(n)(1) You may submit a claim if a force majeure event is about to occur, occurs, or has occurred or there are lingering effects from such an event within the period of time beginning 5 business days prior to the date the submission is due. For the purposes of this section, a force majeure event is defined as an event that will be or has been caused by circumstances beyond the control of the affected facility, its contractors, or any entity controlled by the affected facility that prevents you from complying with the requirement to submit a report electronically within the time period prescribed. Examples of such events are acts of nature (e.g., hurricanes, earthquakes, or floods), acts of war or terrorism, or equipment failure or safety hazard beyond the control of the affected facility (e.g., large scale power outage).

63.1981(n)(2) You must submit notification to the Administrator in writing as soon as possible following the date you first knew, or through due diligence should have known, that the event may cause or has caused a delay in reporting.

63.1981(n)(3) You must provide to the Administrator:

63.1981(n)(3)(i) A written description of the force majeure event;

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63.1981(n)(3)(ii) A rationale for attributing the delay in reporting beyond the regulatory deadline to the force majeure event;

63.1981(n)(3)(iii) Measures taken or to be taken to minimize the delay in reporting; and

63.1981(n)(3)(iv) The date by which you propose to report, or if you have already met the reporting requirement at the time of the notification, the date you reported.

63.1981(n)(4) The decision to accept the claim of force majeure and allow an extension to the reporting deadline is solely within the discretion of the Administrator.

63.1981(n)(5) In any circumstance, the reporting must occur as soon as possible after the force majeure event occurs.

[85 FR 17261, Mar. 26, 2020, as amended at 87 FR 8204, Feb. 14, 2022]

021 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1982]

**Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills
What records and reports must I submit and keep for bioreactors or liquids addition other than leachate?**

[NA – NO BIOREACTORS OR LIQUIDS ADDITION OTHER THAN LEACHATE]

022 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1983]

**Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills
What records must I keep?**

You must keep records as specified in this subpart. You must also keep records as specified in the general provisions of 40 CFR part 63 as shown in Table 1 to this subpart.

63.1983(a) Except as provided in § 63.1981(d)(2), each owner or operator of an MSW landfill subject to the provisions of § 63.1959(b)(2)(ii) and (iii) of this chapter must keep for at least 5 years up-to-date, readily accessible, on-site records of the design capacity report that triggered § 63.1959(b), the 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.

63.1983(b) Except as provided in § 63.1981(d)(2), each owner or operator of a controlled landfill must keep up-to-date, readily accessible records for the life of the control system equipment of the data listed in paragraphs (b)(1) through (5) of this section 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.

63.1983(b)(1) Where an owner or operator subject to the provisions of this subpart seeks to demonstrate compliance with § 63.1959(b)(2)(ii):

63.1983(b)(1)(i) The maximum expected gas generation flow rate as calculated in § 63.1960(a)(1).

63.1983(b)(1)(ii) The density of wells, horizontal collectors, surface collectors, or other gas extraction devices determined using the procedures specified in § 63.1962(a)(1) and (2).

63.1983(b)(2) Where an owner or operator subject to the provisions of this subpart seeks to demonstrate compliance with § 63.1959(b)(2)(iii) through use of an enclosed combustion device other than a boiler or process heater with a design heat input capacity equal to or greater than 44 megawatts:

63.1983(b)(2)(i) The average temperature measured at least every 15 minutes and averaged over the same time period of the performance test.

63.1983(b)(2)(ii) The percent reduction of NMOC determined as specified in § 63.1959(b)(2)(iii)(B) achieved by the control device.

63.1983(b)(3) [NA – FACILITY DOES NOT USE BOILER OR PROCESS HEATER]

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63.1983(b)(4) Where an owner or operator subject to the provisions of this subpart seeks to demonstrate compliance with § 63.1959(b)(2)(iii)(A) through use of a non-enclosed flare, the flare type (i.e., steam-assisted, air-assisted, or nonassisted), all visible emission readings, heat content determination, flow rate or bypass flow rate measurements, and exit velocity determinations made during the performance test as specified in § 63.11; continuous records of the flare pilot flame or flare flame monitoring and records of all periods of operations during which the pilot flame or the flare flame is absent.

63.1983(b)(5) [NA – FACILITY DOES NOT OPERATE A TREATMENT SYSTEM]

63.1983(c) Except as provided in § 63.1981(d)(2), each owner or operator of a controlled landfill subject to the provisions of this subpart must keep for 5 years up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored in § 63.1961 as well as up-to-date, readily accessible records for periods of operation during which the parameter boundaries established during the most recent performance test are exceeded.

63.1983(c)(1) The following constitute exceedances that must be recorded and reported under § 63.1981(h):

63.1983(c)(1)(i) For enclosed combustors except for boilers and process heaters with design heat input capacity of 44 megawatts (150 million Btu per hour) or greater, all 3-hour periods of operation during which the average temperature was more than 28 degrees Celsius (50 degrees Fahrenheit) below the average combustion temperature during the most recent performance test at which compliance with § 63.1959(b)(2)(iii) was determined.

63.1983(c)(1)(ii) [NA – FACILITY DOES NOT USE BOILER OR PROCESS HEATER]

63.1983(c)(2) Each owner or operator subject to the provisions of this subpart must keep up-to-date, readily accessible continuous records of the indication of flow to the control system and the indication of bypass flow or records of monthly inspections of car-seals or lock-and-key configurations used to seal bypass lines, specified under § 63.1961(b)(2)(ii), (c)(2)(ii), and (g)(2).

63.1983(c)(3) [NA – FACILITY DOES NOT USE BOILER OR PROCESS HEATER]

63.1983(c)(4) Each owner or operator seeking to comply with the provisions of this subpart by use of a non-enclosed flare must keep up-to-date, readily accessible continuous records of the flame or flare pilot flame monitoring specified under § 63.1961(c), and up-to-date, readily accessible records of all periods of operation in which the flame or flare pilot flame is absent.

63.1983(c)(5) Each owner or operator of a landfill seeking to comply with § 63.1959(b)(2) using an active collection system designed in accordance with § 63.1959(b)(2)(ii) must keep records of periods when the collection system or control device is not operating.

63.1983(c)(6) Where an owner or operator subject to the provisions of this subpart seeks to demonstrate compliance with the operational standard in § 63.1958(e)(1), the date, time, and duration of each startup and/or shutdown period, recording the periods when the affected source was subject to the standard applicable to startup and shutdown.

63.1983(c)(7) Where an owner or operator subject to the provisions of this subpart seeks to demonstrate compliance with the operational standard in § 63.1958(e)(1), in the event that an affected unit fails to meet an applicable standard, record the information below in this paragraph:

63.1983(c)(7)(i) For each failure record the date, time and duration of each failure and the cause of such events (including unknown cause, if applicable).

63.1983(c)(7)(ii) For each failure to meet an applicable standard; record and retain a list of the affected sources or equipment.

63.1983(c)(7)(iii) Record actions taken to minimize emissions in accordance with the general duty of § 63.1955(c) and any corrective actions taken to return the affected unit to its normal or usual manner of operation.

63.1983(c)(8) Beginning no later than September 27, 2021, in lieu of the requirements specified in § 63.8(d)(3) of subpart

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A you must keep the written procedures required by § 63.8(d)(2) on record for the life of the affected source or until the affected source is no longer subject to the provisions of this part, to be made available for inspection, upon request, by the Administrator. If the performance evaluation plan is revised, you must keep previous (i.e., superseded) versions of the performance evaluation plan on record to be made available for inspection, upon request, by the Administrator, for a period of 5 years after each revision to the plan. The program of corrective action should be included in the plan required under § 63.8(d)(2).

63.1983(d) Except as provided in § 63.1981(d)(2), each owner or operator subject to the provisions of this subpart must 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.

63.1983(d)(1) Each owner or operator subject to the provisions of this subpart must keep up-to-date, readily accessible records of the installation date and location of all newly installed collectors as specified under § 63.1960(b).

63.1983(d)(2) Each owner or operator subject to the provisions of this subpart must keep readily accessible documentation of the nature, date of deposition, amount, and location of asbestos-containing or nondegradable waste excluded from collection as provided in § 63.1962(a)(3)(i) as well as any nonproductive areas excluded from collection as provided in § 63.1962(a)(3)(ii).

63.1983(e) Except as provided in § 63.1981(d)(2), each owner or operator subject to the provisions of this subpart must keep for at least 5 years up-to-date, readily accessible records of the following:

63.1983(e)(1) All collection and control system exceedances of the operational standards in § 63.1958, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance.

63.1983(e)(2) Each owner or operator subject to the control provisions of this subpart must keep records of each wellhead temperature monitoring value of greater than 55 degrees Celsius (131 degrees Fahrenheit), each wellhead nitrogen level at or above 20 percent, and each wellhead oxygen level at or above 5 percent, except:

63.1983(e)(2)(i) When an owner or operator subject to the provisions of this subpart seeks to demonstrate compliance with the compliance provisions for wellhead temperature in § 63.1958(c)(1), but no later than September 27, 2021, the records of each wellhead temperature monitoring value of 62.8 degrees Celsius (145 degrees Fahrenheit) or above instead of values greater than 55 degrees Celsius (131 degrees Fahrenheit).

63.1983(e)(2)(ii) Each owner or operator required to conduct the enhanced monitoring provisions in § 63.1961(a)(5), must also keep records of all enhanced monitoring activities.

63.1983(e)(2)(iii) Each owner or operator required to submit the 24-hour high temperature report in § 63.1981(k), must also keep a record of the email transmission.

63.1983(e)(3) For any root cause analysis for which corrective actions are required in § 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.

63.1983(e)(4) For any root cause analysis for which corrective actions are required in § 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.

63.1983(e)(5) For any root cause analysis for which corrective actions are required in § 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.

63.1983(f) [NA – LANDFILL IS > 2.5 MILLION MEGAGRAMS/2.5 MILLION CUBIC METERS]

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63.1983(g) Except as provided in § 63.1981(d)(2), each owner or operator subject to the provisions of this subpart must keep for at least 5 years up-to-date, readily accessible records of all collection and control system monitoring data for parameters measured in § 63.1961(a)(1) through (6).

63.1983(h) Where an owner or operator subject to the provisions of this subpart seeks to demonstrate compliance with the operational standard for temperature in § 63.1958(c)(1), you must keep the following records.

63.1983(h)(1) Records of the landfill gas temperature on a monthly basis as monitored in § 63.1960(a)(4).

63.1983(h)(2) Records of enhanced monitoring data at each well with a measurement of landfill gas temperature greater than 62.8 degrees Celsius (145 degrees Fahrenheit) as gathered in § 63.1961(a)(5) and (6).

63.1983(h)(2)(i) Any records required to be maintained by this subpart that are submitted electronically via the EPA's CEDRI may be maintained in electronic format. This ability to maintain electronic copies does not affect the requirement for facilities to make records, data, and reports available upon request to a delegated air agency or the EPA as part of an on-site compliance evaluation.

63.1983(h)(2)(ii) [Reserved]

[85 FR 17261, Mar. 26, 2020, as amended at 85 FR 64401, Oct. 13, 2020]

023 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1985]

**Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills
Who enforces this subpart?**

63.1985(a) This subpart can be implemented and enforced by the EPA, or a delegated authority such as the applicable state, local, or tribal agency. If the EPA Administrator has delegated authority to a state, local, or tribal agency, then that agency as well as the EPA has the authority to implement and enforce this subpart. Contact the applicable EPA Regional office to find out if this subpart is delegated to a state, local, or tribal agency.

63.1985(b) In delegating implementation and enforcement authority of this subpart to a state, local, or tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the EPA Administrator and are not transferred to the state, local, or tribal agency.

63.1985(c) The authorities that will not be delegated to state, local, or tribal agencies are as follows. Approval of alternatives to the emission standards in §§ 63.1955 through 63.1962. Where this subpart references part 60, subpart WWW of this subchapter, the cited provisions will be delegated according to the delegation provisions of part 60, subpart WWW of this subchapter. For this subpart, the EPA also retains the authority to approve methods for determining the NMOC concentration in § 63.1959(a)(3) and the method for determining the site-specific methane generation rate constant k in § 63.1959(a)(4).

[85 FR 17261, Mar. 26, 2020, as amended at 87 FR 8204, Feb. 14, 2022]

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



SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this Title V facility.



SECTION G. Emission Restriction Summary.

No emission restrictions listed in this section of the permit.

**SECTION H. Miscellaneous.**

#001

This permit supersedes Title V Operating Permit No. 06-05112, issued on 11/12/20 and modified on 6/21/22.

#002

The following sources have been found to be of minor significance and require no additional requirements:

- a. 0.65 mmBtu/hr propane fired boiler
- b. Leachate Treatment Plant
- c. Leachate Storage Tank - 940,000 gallons
- d. Effluent Storage Tank - 320,000 gallons
- e. Diesel Storage Tanks (2)
 - 1) 3,000 gallons
 - 2) 100 gallons
- f. Gasoline Storage Tank - 275 gallon

#003

The design inlet gas capacity of the enclosed ground flare (C03) is 1,200 scfm.

#004

References to 40 CFR 60, Subpart WWW requirements are intended for historical context only.



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