COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: September 9, 2022 Effective Date: October 1, 2022

Expiration Date: September 30, 2027

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: 06-05085

Federal Tax Id - Plant Code: 23-2645522-1

Owner Information

Name: NEW MORGAN LDFL CO INC
Mailing Address: 4400 MOUNT PISGAH RD
YORK, PA 17406-8240

Plant Information

Plant: NEW MORGAN LDFL CO INC/CONESTOGA LDFL NEW MORGAN B
Location: 06 Berks County 06977 New Morgan Borough
SIC Code: 4953 Trans. & Utilities - Refuse Systems

Responsible Official

Name: TIM O'DONNELL
Title: GEN MGR
Phone: (610) 286 - 7876 Email:

Permit Contact Person

Name: MAZEN HAYDAR
Title: ENV MGR
Phone: (610) 273 - 6567 Email: mhaydar@republicservices.com

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

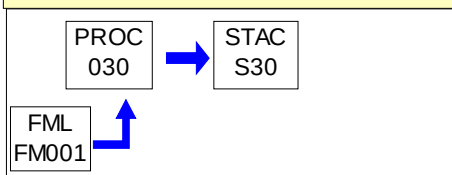
SECTION A. Table of Contents

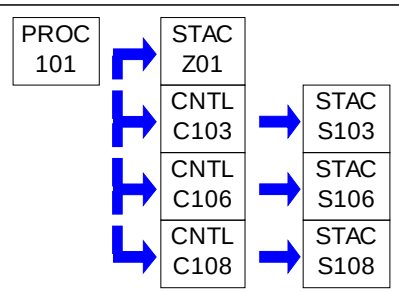
SECTION A. Table of Contents

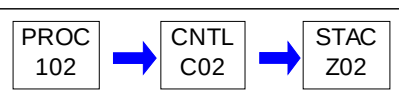
SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput		Fuel/Material
030	KOHLER EMERGENCY GENERATOR	1.600	Gal/HR	NO. 2 FUEL OIL
101	MUNICIPAL SOLID WASTE DISPOSAL SITE			
102	PAVED AND UNPAVED ROADWAYS			
103	CONSTRUCTION AREA			
104	COLD CLEANING MACHINE			
201	CAT C27 EMERGENCY GENERATOR	57.300	Gal/HR	DIESEL
202	CAT C32 EMERGENCY GENERATOR	71.900	Gal/HR	DIESEL
C02	FUGITIVE CONTROLS: ROADWAYS			
C03	FUGITIVE CONTROLS: CONSTRUCTION AREA			
C103	ENCLOSED FLARE #3			
C106	ENCLOSED FLARE #4			
C108	CANDLESTICK FLARE			
FM001	DIESEL FUEL TANK			
FML003	PROPANE TANKS			
S103	STACK: ENCLOSED FLARE #3			
S106	STACK: ENCLOSED FLARE #4			
S108	CANDLESTICK FLARE STACK			
S201	STACK: CAT C27 EMERGENCY GENERATOR			
S202	STACK: CAT C32 EMERGENCY GENERATOR			
S30	STACK: EMERGENCY GENERATOR			
Z01	FUGITIVE: LANDFILLGAS			
Z02	FUGITIVE: ROAD DUST			
Z03	FUGITIVE: CONSTRUCTION AREA			
Z104	FUGITIVE: COLD CLEANER			

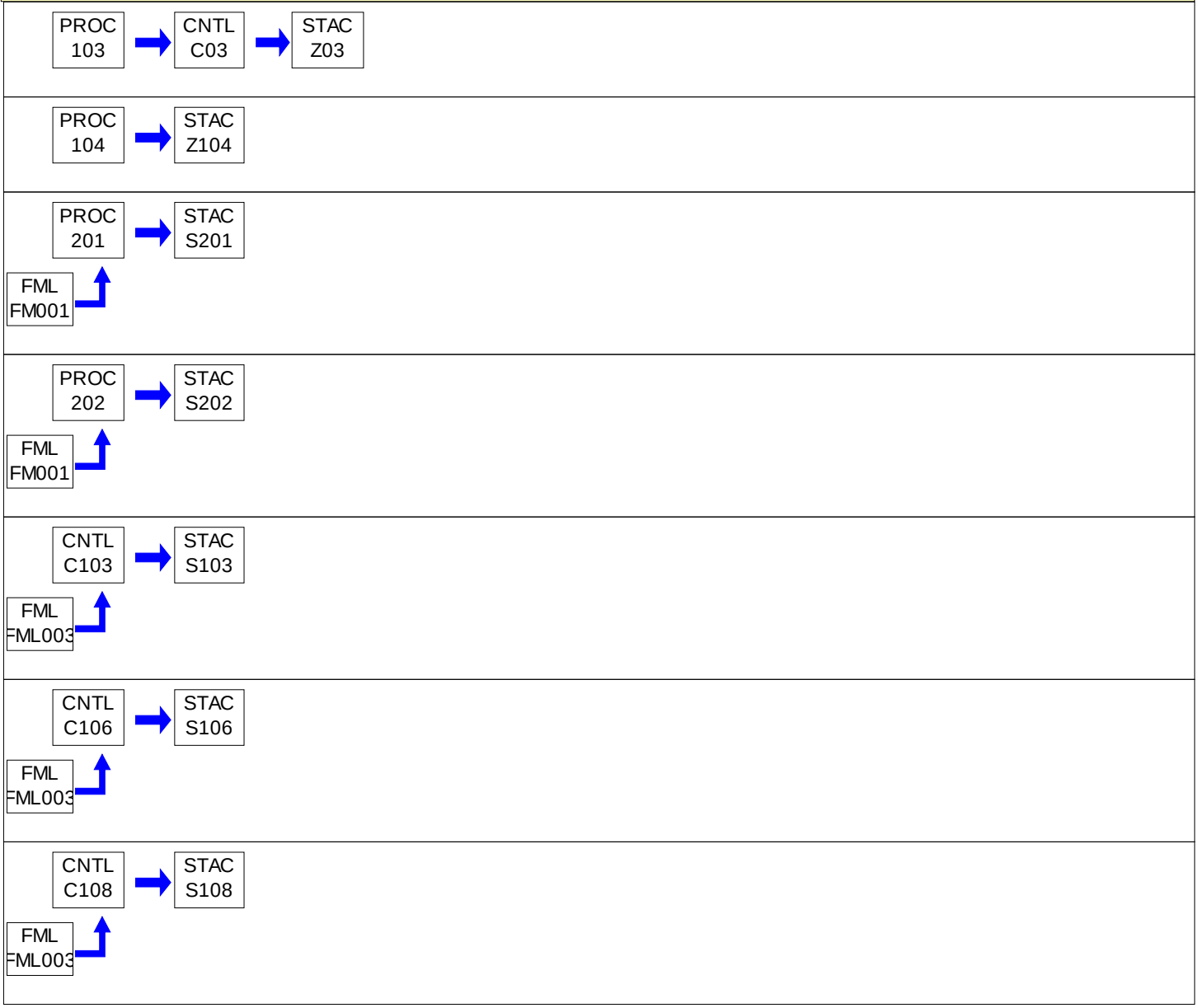
PERMIT MAPS







PERMIT MAPS


PROC 103
CNTL C03
STAC Z03
PROC 104
STAC Z104
PROC 201
STAC S201
FML FM001
PROC 202
STAC S202
FML FM001
CNTL C103
STAC S103
FML FML003
CNTL C106
STAC S106
FML FML003
CNTL C108
STAC S108
FML FML003

SECTION B. General Title V Requirements

#001 [25 Pa. Code § 121.1]

Definitions

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

#002 [25 Pa. Code § 121.7]

Prohibition of Air Pollution

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

#003 [25 Pa. Code § 127.512(c)(4)]

Property Rights

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

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

Permit Expiration

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

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

Permit Renewal

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

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

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

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

#006 [25 Pa. Code §§ 127.450(a)(4) & 127.464(a)]

Transfer of Ownership or Operational Control

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

(1) The Department determines that no other change in the permit is necessary;

(2) A written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee; and,

(3) A compliance review form has been submitted to the Department and the permit transfer has been approved by

SECTION B. General Title V Requirements

the Department.

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

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

Inspection and Entry

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

(1) Enter at reasonable times upon the permittee's premises where a Title V source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;

(2) Have access to and copy or remove, at reasonable times, records that are kept under the conditions of this permit;

(3) Inspect at reasonable times, facilities, equipment including monitoring and air pollution control equipment, practices, or operations regulated or required under this permit;

(4) Sample or monitor, at reasonable times, substances or parameters, for the purpose of assuring compliance with the permit or applicable requirements as authorized by the Clean Air Act, the Air Pollution Control Act, or the regulations promulgated under the Acts.

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

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

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

Compliance Requirements

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

(1) Enforcement action

(2) Permit termination, revocation and reissuance or modification

(3) Denial of a permit renewal application

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

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

#009 [25 Pa. Code § 127.512(c)(2)]

Need to Halt or Reduce Activity Not a Defense

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

SECTION B. General Title V Requirements

#010 [25 Pa. Code §§ 127.411(d) & 127.512(c)(5)]

Duty to Provide Information

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

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

#011 [25 Pa. Code §§ 127.463, 127.512(c)(3) & 127.542]

Reopening and Revising the Title V Permit for Cause

(a) This Title V permit may be modified, revoked, reopened and reissued or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay a permit condition.

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

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

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

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

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

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

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

#012 [25 Pa. Code § 127.543]

Reopening a Title V Permit for Cause by EPA

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

#013 [25 Pa. Code § 127.522(a)]

Operating Permit Application Review by the EPA

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

R3_Air_Apps_and_Notices@epa.gov

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

SECTION B. General Title V Requirements

#014 [25 Pa. Code § 127.541]

Significant Operating Permit Modifications

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

R3_Air_Apps_and_Notices@epa.gov

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

#015 [25 Pa. Code §§ 121.1 & 127.462]

Minor Operating Permit Modifications

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

R3_Air_Apps_and_Notices@epa.gov

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

#016 [25 Pa. Code § 127.450]

Administrative Operating Permit Amendments

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

R3_Air_Apps_and_Notices@epa.gov

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

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

#017 [25 Pa. Code § 127.512(b)]

Severability Clause

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

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

Fee Payment

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

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

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

SECTION B. General Title V Requirements

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

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

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

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

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

#019 [25 Pa. Code §§ 127.14(b) & 127.449]

Authorization for De Minimis Emission Increases

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

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

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

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

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

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

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

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

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

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

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

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

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

SECTION B. General Title V Requirements

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

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

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

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

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

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

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

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

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

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

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

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

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

#020 [25 Pa. Code §§ 127.11a & 127.215]

Reactivation of Sources

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

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

#021 [25 Pa. Code §§ 121.9 & 127.216]

Circumvention

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

SECTION B. General Title V Requirements

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

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

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

Submissions

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

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

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

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

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

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

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

Sampling, Testing and Monitoring Procedures

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

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

#024 [25 Pa. Code § 127.513]

Compliance Certification

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

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

(b) The compliance certification shall be postmarked or hand-delivered no later than thirty days after each anniversary of

SECTION B. General Title V Requirements

the date of issuance of this Title V Operating Permit, or on the submittal date specified elsewhere in the permit, to the Department in accordance with the submission requirements specified in Section B, Condition #022 of this permit. The Title V compliance certification shall be emailed to EPA at R3_APD_Permits@epa.gov.

#025 [25 Pa. Code §§ 127.511 & Chapter 135]

Recordkeeping Requirements

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

(1) The date, place (as defined in the permit) and time of sampling or measurements.

(2) The dates the analyses were performed.

(3) The company or entity that performed the analyses.

(4) The analytical techniques or methods used.

(5) The results of the analyses.

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

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

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

#026 [25 Pa. Code §§ 127.411(d), 127.442, 127.463(e) & 127.511(c)]

Reporting Requirements

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

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

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

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

SECTION B. General Title V Requirements

#027 [25 Pa. Code § 127.3]

Operational Flexibility

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

(1) Section 127.14 (relating to exemptions)

(2) Section 127.447 (relating to alternative operating scenarios)

(3) Section 127.448 (relating to emissions trading at facilities with federally enforceable emissions caps)

(4) Section 127.449 (relating to de minimis emission increases)

(5) Section 127.450 (relating to administrative operating permit amendments)

(6) Section 127.462 (relating to minor operating permit amendments)

(7) Subchapter H (relating to general plan approvals and operating permits)

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

Risk Management

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

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

(1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:

(i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
(ii) The date on which a regulated substance is first present above a threshold quantity in a process.

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

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

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

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

(1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,

(2) Certify that the Title V facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.

SECTION B. General Title V Requirements

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

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

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

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

#029 [25 Pa. Code § 127.512(e)]

Approved Economic Incentives and Emission Trading Programs

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

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

Permit Shield

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

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

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

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

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

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

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

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

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

#031 [25 Pa. Code §135.3]

Reporting

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

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

#032 [25 Pa. Code §135.4]

Report Format

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

SECTION C. Site Level Requirements

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

No person shall permit the emission into the outdoor atmosphere of any fugitive air contaminant from a source other than the following:

(a) Construction or demolition of buildings or structures.

(b) Grading, paving and maintenance of roads and streets.

(c) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are notconsidered as emissions from use of roads and streets.

(d) Clearing of land.

(d) Stockpiling of materials.

(f) Open burning operations.

(g) Sources and classes of sources other than those identified above, for which the operator has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:

(1) The emissions are of minor significance with respect to causing air pollution;

(2) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air 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 Section C, Condition # 001, if the emissions are visible at the point the emissions pass outside the person's property.

 # 003 [25 Pa. Code §123.31]

Limitations

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

 # 004 [25 Pa. Code §123.41]

Limitations

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

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

(b) Equal to or greater than 60% at any time.

 # 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

(1) PM-10 - 104.1 tons
(2) PM-2.5 - 100.0 tons
(3) NOx - 99.0 tons
(4) CO - 242.2 tons
(5) SOx (expressed as SO2) - 95.0 tons
(6) VOC - 50.0 tons

SECTION C. Site Level Requirements

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

[Additional authority for this permit condition is derived from PA 06-05085D]

II. TESTING REQUIREMENTS.

 # 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

(1) Conduct performance tests in accordance with 25 Pa Code Section 139 and the Department's Source Testing Manual and any applicable federal regulations.

(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.

(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.

SECTION C. Site Level Requirements

(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/ecomm/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.

 # 007 [25 Pa. Code §127.511]
Monitoring and related recordkeeping and reporting requirements.

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

III. MONITORING REQUIREMENTS.

 # 008 [25 Pa. Code §123.43]
Measuring techniques

Visible air contaminants may be measured using either of the following:

(a) A device approved by the Department and maintained to provide accurate opacity measurements.

(b) 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.

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

The permittee shall conduct a daily inspection during regular business workdays around the facility periphery during the daylight hours, when the facility is accepting waste to detect visible emissions, fugitive visible emissions and odorous emissions as follows:

(a) Visible emissions in excess of the limits stated in Section C, Condition #004. Visible emissions may be measured according to the methods specified in Section C, Condition #008. As an alternative, facility personnel who observe such visible emissions shall report each incident to the Department within four hours of the occurrence and arrange for a certified observer to read the visible emissions.

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

(c) Presence of odorous air contaminants beyond the facility property boundaries as stated in Section C, Condition #003.

IV. RECORDKEEPING REQUIREMENTS.

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

(a) For the purpose of Prevention of Significant Deterioration (PSD), New Source Review (NSR), Maximum Available Control Technology (MACT) and any other federal program, the permittee shall maintain a 12-month rolling total of the following emissions from the landfill:

(1) PM-10

SECTION C. Site Level Requirements

(2) PM-2.5
(3) Nitrogen Oxides (NOx)
(4) Sulfur Oxides (SOx)
(5) Carbon Monoxide (CO)
(6) Volatile Organic Compounds (VOC)
(7) Hazardous Air Pollutants (HAP)

(b) The permittee shall utilize appropriate U.S. EPA AP-42 emission factors to determine PM-10 and PM-2.5 emissions for both flare and roadway emissions.

 # 011 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

(a) The permittee shall maintain records of daily inspections conducted in accordance with Section C, Condition #009. At a minimum, these records shall include the following information:

(1) The name of the company representative conducting each inspection.
(2) The date and time of each inspection.
(3) The wind direction during each inspection.
(4) A description of the emissions and/or malodors observed and the actions taken to mitigate them.

(b) The permittee shall maintain these records for a minimum of five years and shall make them available to Department representatives upon request.

V. REPORTING REQUIREMENTS.

 # 012 [25 Pa. Code §127.512]

Operating permit terms and conditions.

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 that affects the facility's ability to comply with a permit term. 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 required by this permit, any other malfunction that is not subject to the reporting requirement of subsection (a) above, shall be reported to the Department, in writing, within five (5) days of malfunction discovery.

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.

 # 013 [25 Pa. Code §127.512]

Operating permit terms and conditions.

Pursuant to Section C, Category VIII. COMPLIANCE CERTIFICATION below, the permittee shall forward the annual compliance certification report to U.S. EPA electronically, in lieu of a hard copy version, to the following email address (unless othewise specified by DEP or EPA): 'R3_APD_Permits@epa.gov'.

SECTION C. Site Level Requirements

 # 014 [25 Pa. Code §129.14]

Open burning operations

(a) The permittee shall not conduct open burning of materials in such a manner that:

(1) The emissions are visible, at any time, at the point such emissions pass outside the property of the person on whose land the open burning is being conducted.

(2) Malodorous air contaminants form the open burning are detectable outside the property of the person on whose land the open burning is being conducted.

(3) The emissions interfere with the reasonable enjoyment of life and property.

(4) The emissions cause damage to vegetation or property.

(5) The emissions are or may be deleterious to human or animal health.

(b) Exceptions. The requirements of Subsection (a) do not apply where the open burning operations result from:

(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 official.

(2) Any fire set for the purpose 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 solely for recreational or ceremonial purposes.

(5) A fire set solely for cooking food.

(c) 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 01/01/2023 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.

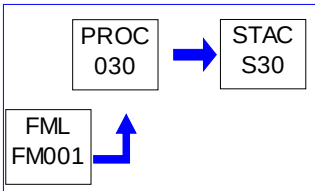
***** Permit Shield In Effect *****

SECTION D. Source Level Requirements

Source ID: 030 Source Name: KOHLER EMERGENCY GENERATOR

Source Capacity/Throughput: 1.600 Gal/HR NO. 2 FUEL OIL

Conditions for this source occur in the following groups: GRP03



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.13]

Processes

The permittee shall limit the emissions of particulate matter to 0.04 grains per dry standard cubic foot.

 # 002 [25 Pa. Code §123.21]

General

The permittee shall limit the emissions of sulfur oxides, expressed as SO2, to 500 ppm by volume, dry basis.

Operation Hours Restriction(s).

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit the source's hours of operation to 500 during any consecutive 12-month period.

[Additional authority for this condition is derived from 25 Pa Code, Section 129.93]

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.

 # 004 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

(a) The permittee shall record and maintain the following records for this source in a manner approved by the Department:

(1) Date of operation,
(2) Hours operated,
(3) Amount and type of fuel consumed,
(4) Heating value and sulfur content of fuel.

(b) These records shall be maintained for a period of five (5) years, and be made available to the Department upon request.

SECTION D. Source Level 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) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

 # 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate and maintain the source in accordance with manufacturer's specifications.

[Additional authority for this condition is derived from 25 Pa Code, Section 129.93]

VII. ADDITIONAL REQUIREMENTS.

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

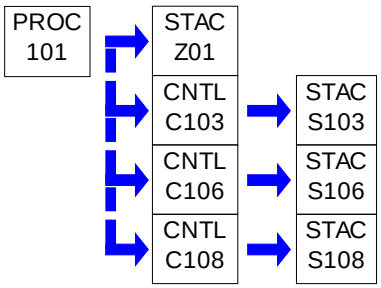
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 101 Source Name: MUNICIPAL SOLID WASTE DISPOSAL SITE

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GRP01
GRP02



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Pursuant to the best available technology provisions of Chapter 127 of Article III of the rules and regulations of the Department, the permittee shall limit the emissions from C103 & C106 to the following rates:

(1) PM-10 (filterable) - 0.01 grains per dry standard cubic foot
(2) NOx - 0.05 pounds/million BTU
(3) CO - 0.1 pounds/million BTU
(4) VOC - 5 ppmdv as hexane @ 3% oxygen
(5) HCl - 1.5 pounds per hour

(b) The permittee shall limit sulfur oxide (expressed as SO2) emissions from the two (2) enclosed flares to 30.2 lb/hr.

[Additional authority for this permit condition is derived from PA 06-05085E]

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the best available technology provisions of Chapter 127 of Article III of the rules and regulations of the Department, the Non-methane Organic Compounds (NMOC) destruction efficiency of the permanent enclosed flares shall be 99% or greater, unless the NMOC emission rate is 8 ppmdv (as hexane @ 3% 02) or less.

[Compliance with the requirement specified in this streamlined permit condition assures compliance with 40 CFR 60.752(b)(2)(iii)(B)]

[Additional authority for this permit condition is derived from PA 06-05085E]

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall limit particulate matter (PM10) emissions from the two (2) enclosed flares to 37.4 tons per year, based on any consecutive 12-month total.

(b) The permittee shall utilize appropriate U.S. EPA AP-42 emission factors to determine PM-10 and PM-2.5 emissions.

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate temporary flares in a manner that will not result in visible emissions.

SECTION D. Source Level Requirements

Operation Hours Restriction(s).

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

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

Throughput Restriction(s).

 # 006 [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 Department in the current Waste Management Permit.

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

The permittee shall limit the amount of landfill gas (LFG) sent to the flares to less than 7,516 MMscf per year, based on any consecutive 12-month rolling total.

[Additional authority for this permit condition is derived from PA 06-05085E]

II. TESTING REQUIREMENTS.

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

Unless otherwise approved in writing by DEP, the permittee shall test each enclosed flare for the NMOC reduction efficiency or the outlet concentration of NMOC prior to submitting the permit renewal application. The permittee shall perform the testing utilizing methodology outlined in 25 Pa. Code Section 139 and the Department's Source Testing Manual or by other means approved by the Department. The stack test shall be performed no more than 365 days prior to expiration of this permit. The testing shall be done to demonstrate compliance with the NMOC emission limit under Section D, Source ID 101, Condition #002.

III. MONITORING REQUIREMENTS.

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

Unless otherwise approved by the Department in writing, the permittee shall at a minimum sample the landfill gas once during the first three years of the permit and once during the last year of the permit for total chlorine.

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

(a) The permittee shall, at a minimum, sample the landfill gas quarterly for total sulfur content.

(b) If, based on any test, the calculated combined SO2 emissions from the two (2) enclosed flares exceed 21.1 lb/hr, the permittee shall increase the sampling frequency and emission calculation to monthly, at a minimum. The permittee may revert back to quarterly sampling once the calculated SO2 rate is below 21.1 lb/hr.

(c) The permittee shall maintain these records for a minimum of five years and shall make them available to Department representatives upon request.

[Additional authority for this permit condition is derived from PA 06-05085D]

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

In lieu of conducting a source test for emissions of sulfur oxides, the permittee may use mass balances and sampling of the landfill gas entering the flare for total sulfur to determine compliance with the mass emission limit in Condition #001.

[Additional authority for this permit condition is derived from PA 06-05085C]

SECTION D. Source Level Requirements

 # 012 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The gas pumps, permanent flares, piping and associated equipment shall be leak checked weekly or equivalent as approved by the Department. This includes the equipment used to transfer gas to a third party operation or off-site. No leaks shall exceed 500 ppmv as propane (1365 ppmv as methane) at a distance of 0.5 inches. This does not apply to equipment that is connected to temporary flares, before connection to the active collection system.

 # 013 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall check the flares for visible emissions as part of the facility monitoring required in Condition #009, Section C.

IV. RECORDKEEPING REQUIREMENTS.

 # 014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

(b) 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 permit condition is derived from PA 06-05085C]

 # 015 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall record the amount of landfill gas that is sent to third parties either on-site or off-site. These records shall be the total to each party daily, monthly and 12-month rolling total.

 # 016 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall maintain the following records:

(a) The monthly volume of gas entering the flares,
(b) The monthly volume of gas transferred to a third party,
(c) The monthly emissions of PM-10, PM-2.5 NOx, SOx, CO, VOC and HAPs,
(d) A 12-month rolling total of gas entering the flares,
(e) A 12-month rolling total of gas transfer to a third party, and
(f) A 12-month rolling total emissions of PM-10, PM-2.5, NOx, SOx, CO, VOC and HAPs.

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

V. REPORTING REQUIREMENTS.

 # 017 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall notify the Department of the start of the following actions within five (5) working days of the start:

(a) Installation of each new cap section,

(b) Installation of each new well, and

(c) Connection of each new well to the gas collection system.

SECTION D. Source Level Requirements

VI. WORK PRACTICE REQUIREMENTS.

 # 018 [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 proposal and approval of the Department's Waste Management Program.

 # 019 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

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

[Additional authority for this permit condition is derived from PA 06-05085C]

VII. ADDITIONAL REQUIREMENTS.

 # 020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The design capacity of the permanent enclosed flares is as follows:

(a) #3 Flare - 5000 scfm
(b) #4 Flare - 5500 scfm

[Additional authority for this permit condition is derived from PA 06-05085E]

 # 021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain sufficient capacity for landfill gas control to meet the total amount of landfill gas generated by the landfill. This capacity shall include any amount of gas being transferred to a third party for use. In the event that the third party can not handle any gas being transferred the permittee is responsible to control the gas in accordance with applicable federal regulations.

 # 022 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Control IDs C103 & C106 shall be:

(1) Operated such that that there are no visible flames above the flare.

(2) Operated with no visible emissions, except for periods not to exceed a total of five minutes during any two consecutive hours.

(3) Equipped with an automatic pilot ignition source using an auxiliary fuel (e.g. propane or natural gas).

(4) Equipped with a flame detection device.

(5) Equipped with an automatic shut-off mechanism designed to immediately stop the flow of gases when a flame-out occurs. During the restart or start-up, there should be sufficient flow of auxiliary fuel to the burners such that unburned landfill gases are not emitted to the atmosphere.

[Additional authority for this permit condition is derived from PA 06-05085E]

 # 023 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Control ID C108, Candlestick Flare, shall be:

(1) Equipped with an automatic pilot ignition source.

(2) Equipped with a flame detection device.

SECTION D. Source Level Requirements

(3) Equipped with an automatic shut-off mechanism designed to immediately stop the flow of gases when a flame-out occurs.

(4) Limited to 500 dscfm, at 50% methane (net heat input not to exceed 15 million Btu per hour, calculated on the higher heating value of the landfill gas).

(b) The total landfill gas combusted in the open flare should not exceed the greatest of either 500 dscfm, at 50% methane (net heat input not to exceed 15 million Btu per hour, calculated on the higher heating value of the landfill gas) or 20% of the total landfill gas flow, at 50% methane.

(c) The total landfill gas combusted in the open flare should not exceed the minimum flow necessary to support combustion in the facility's enclosed flare, based on manufacturer specified turn-down ratio and Btu requirements, if the enclosed flare has unused capacity to support the landfill gas flow.

(d) The landfill owner or operator shall monitor, on a daily basis (except holidays and weekends), the flow in dry standard cubic feet or the temperature and flow rate of the landfill gas combusted in the open flare, unless applicable federal regulations require more frequent monitoring.

(e) The landfill owner or operator shall record, on a daily basis (except holidays and weekends), the amount of landfill gas combusted in the flare.

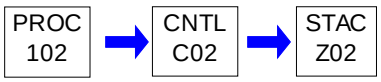
[Additional authority for this permit condition is derived from PA 06-05085E]

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

SECTION D. Source Level Requirements

Source ID: 102 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.

(a) The permittee shall maintain sufficient records to determine the monthly and 12-month rolling emissions from this source.

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

[Additional authority for this permit condition is derived from PA 06-05085B]

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.

(a) On paved roadways, the permittee shall:

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

(b) On paved roadway shoulders, the permittee shall:

(1) During dry periods, water twice per day as necessary, and

SECTION D. Source Level Requirements

(2) During wet periods, water as necessary without causing muddy conditions.

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

(1) During dry periods, water twice per day, and
(2) During wet periods, water as necessary.
(3) During all periods, the permittee shall not apply water in amounts that result in muddy conditions.

[Additional authority for this permit condition is derived from PA 06-05085B]

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee may use dust suppression agents (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.

[Additional authority for this permit condition is derived from PA 06-05085B]

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall use a truck wash to minimize dust and mud. Should the truck wash need to be relocated during the operation of the landfill, the permittee shall make every effort to minimize the amount of time the truck wash is out of service.

[Additional authority for this permit condition is derived from PA 06-05085B]

 # 005 [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.

(c) All vehicles entering the facility shall be covered.

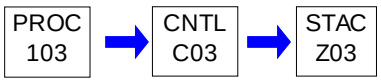
[Additional authority for this permit condition is derived from PA 06-05085B]

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

SECTION D. Source Level Requirements

Source ID: 103 Source Name: CONSTRUCTION AREA

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 monthly and 12-month rolling emissions from this source.

[Additional authority for this permit condition is derived from PA 06-05085B]

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.

The permittee shall apply for and receive a General Permit (GP-3) prior to bringing any equipment on site to process nonmetallic minerals.

[Additional authority for this permit condition is derived from PA 06-05085B]

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

SECTION D. Source Level Requirements

Source ID: 104 Source Name: COLD CLEANING MACHINE

Source Capacity/Throughput:

PROC 104 → STAC Z104

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §129.63]

Degreasing operations

(a) The permittee shall not use in a cold cleaning machine any solvent, with greater than 5% VOC by weight in the amount of 2 gallons or more, that has a vapor pressure of 1.0 millimeter of mercury (mm Hg) or greater measured at 20°C (68°F).

(b) The above requirement does not apply:

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

(2) If the permittee demonstrates, and the Department approves in writing, that compliance with these conditions will result in unsafe operating conditions.

(3) To immersion cold cleaning machines with a freeboard ratio equal to or greater than 0.75.

Control Device Efficiency Restriction(s).

 # 002 [25 Pa. Code §129.63]

Degreasing operations

Any immersion cold cleaning machine shall have a freeboard ratio of 0.50 or greater.

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.

 # 003 [25 Pa. Code §129.63]

Degreasing operations

(a) The permittee shall maintain an inventory of the cold cleaning machines used at the facility. The inventory shall be updated each January. The inventory shall include the following information:

(1) Type of unit
(2) Size of the unit in gallons of solvent
(3) Solvent used
(4) Freeboard ratio
(5) Location of the unit at the facility

(b) The permittee shall maintain for at least two (2) years and shall provide to the Department, on request, the following information:

SECTION D. Source Level Requirements

(1) The name and address of the solvent supplier.
(2) Type of solvent including the product or vendor identification number.
(3) The vapor pressure of the solvent measured in millimeters of mercury (mmHg) at 20°C (68°F).

(c) An invoice, bill of sale, certificate that corresponds to a number of sales, Material Safety Data Sheet (MSDS), or other appropriate documentation acceptable to the Department may be used to comply with this section.

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.

 # 004 [25 Pa. Code §129.63]

Degreasing operations

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

 # 005 [25 Pa. Code §129.63]

Degreasing operations

(a) Remote reservoir cold cleaning machines shall:

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

(i) Cleaned parts should be drained at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining. During the draining, tipping or rotating, the parts should be positioned so that solvent drains directly back to the cold cleaning machine.
(ii) When a pump-agitated solvent bath is used, the agitator should be operated to produce a rolling motion of the solvent with no observable splashing of the solvent against the tank walls or the parts being cleaned.
(iii) Work area fans should be located and positioned so that they do not blow across the opening of the degreaser unit.

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

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

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

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

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

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

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

SECTION D. Source Level Requirements

VII. ADDITIONAL REQUIREMENTS.

 # 006 [25 Pa. Code §129.63]

Degreasing operations

The permittee that operates a parts washer or cold cleaning machine that uses two gallons or more of solvent containing greater than 5% VOC by weight for the cleaning of metal parts shall comply with the requirements in this section.

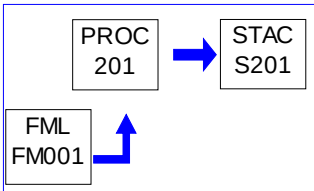
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 201 Source Name: CAT C27 EMERGENCY GENERATOR

Source Capacity/Throughput: 57.300 Gal/HR DIESEL

Conditions for this source occur in the following groups: GRP04



I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

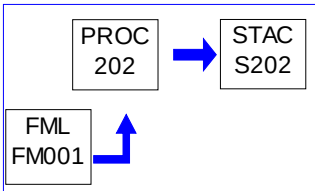
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 202 Source Name: CAT C32 EMERGENCY GENERATOR

Source Capacity/Throughput: 71.900 Gal/HR DIESEL

Conditions for this source occur in the following groups: GRP04



I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

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

SECTION E. Source Group Restrictions.

Group Name: GRP01

Group Description: 40 CFR 62, Subpart OOO Sources

Sources included in this group

ID	Name
101	MUNICIPAL SOLID WASTE DISPOSAL SITE

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

The Department copies shall be forwarded to the DEP SCRO Air Quality Program Manager at wiweaver@pa.gov, unless otherwise directed in writing by DEP.

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

SECTION E. Source Group Restrictions.

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:

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

SECTION E. Source Group Restrictions.

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 Administrator as provided in §62.16724(f).

SECTION E. Source Group Restrictions.

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 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

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 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

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 – GAS COLLECTION AND CONTROL SYSTEM INSTALLED AND OPERATING]

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.

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

SECTION E. Source Group Restrictions.

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

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 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]

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

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]

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

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 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.

SECTION E. Source Group Restrictions.

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]

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

SECTION E. Source Group Restrictions.

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: GRP02

Group Description: 40 CFR 63, Subpart AAAA Sources

Sources included in this group

ID	Name
101	MUNICIPAL SOLID WASTE DISPOSAL SITE

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

The Department copies shall be forwarded to the DEP SCRO Air Quality Program Manager at wiweaver@pa.gov, unless otherwise directed in writing by DEP.

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

SECTION E. Source Group Restrictions.

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 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

When do I have to comply with this subpart if I own or operate a bioreactor?

SECTION E. Source Group Restrictions.

[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 you are no longer required to apply controls as specified in 40 CFR 60.752(b)(2)(v) of subpart WWW, or the Federal plan or EPA approved and effective State plan or tribal plan that implements 40 CFR part 60, subpart Cc, whichever applies to your landfill.

 # 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

SECTION E. Source Group Restrictions.

§63.1957 must:

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

SECTION E. Source Group Restrictions.

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]

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 – GAS COLLECTION AND CONTROL SYSTEM ALREADY INSTALLED AND OPERATING]

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 ALREADY SUBMITTED]

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) [NA – COLLECTION AND CONTROL SYSTEM ALREADY INSTALLED]

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.

SECTION E. Source Group Restrictions.

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

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]

SECTION E. Source Group Restrictions.

63.1959(d) – (f) [INITIAL PERFORMANCE TEST IS IN THE PAST]

[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 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,

SECTION E. Source Group Restrictions.

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. 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.

SECTION E. Source Group Restrictions.

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 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 remonitoring 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]

SECTION E. Source Group Restrictions.

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 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

SECTION E. Source Group Restrictions.

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

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:

SECTION E. Source Group Restrictions.

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 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

SECTION E. Source Group Restrictions.

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 § 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

SECTION E. Source Group Restrictions.

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, Lo 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 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) [FACILITY OPERATES AN EXISTING COLLECTION SYSTEM]

 # 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

SECTION E. Source Group Restrictions.

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]

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

SECTION E. Source Group Restrictions.

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) [NA – NMOC EMISSION RATE REPORT NOT REQUIRED]

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.

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

SECTION E. Source Group Restrictions.

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.

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

SECTION E. Source Group Restrictions.

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) [NA – REQUIREMENT IS IN THE PAST]

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

SECTION E. Source Group Restrictions.

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 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

SECTION E. Source Group Restrictions.

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;

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

SECTION E. Source Group Restrictions.

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]

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 (82 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]

SECTION E. Source Group Restrictions.

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 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

SECTION E. Source Group Restrictions.

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]

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

SECTION E. Source Group Restrictions.

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 E. Source Group Restrictions.

Group Name: GRP03

Group Description: 40 CFR 63, Subpart ZZZZ Engine(s)

Sources included in this group

ID	Name
030	KOHLER EMERGENCY GENERATOR

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 Part 63 Subpart ZZZZ -National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines 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

The Department copies shall be forwarded to the DEP SCRO Air Quality Program Manager at wiweaver@pa.gov, unless otherwise directed in writing by DEP.

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

SECTION E. Source Group Restrictions.

of the revised subpart.

 # 002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]

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

Am I subject to this subpart?

You are subject to this subpart if you own or operate a stationary RICE at a major or area source of HAP emissions, except if the stationary RICE is being tested at a stationary RICE test cell/stand.

63.6585(a) A stationary RICE is any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. Stationary RICE differ from mobile RICE in that a stationary RICE is not a non-road engine as defined at 40 CFR 1068.30, and is not used to propel a motor vehicle or a vehicle used solely for competition.

63.6585(b) A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year, except that for oil and gas production facilities, a major source of HAP emissions is determined for each surface site.

63.6585(c) [NA - FACILITY IS A MAJOR SOURCE OF HAP]

63.6585(d) [NA - FACILITY IS A MAJOR SOURCE OF HAP]

63.6585(e) [NA - RICE NOT USED FOR NATIONAL SECURITY]

63.6585(f) [NA - FACILITY IS A MAJOR SOURCE OF HAP]

[69 FR page 33506, June 15, 2004, as amended at 73 FR page 3603, Jan. 18, 2008; 78 FR page 6700, Jan. 30, 2013]

 # 003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6590]

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

What parts of my plant does this subpart cover?

This subpart applies to each affected source.

63.6590(a) Affected source.

An affected source is any existing, new, or reconstructed stationary RICE located at a major or area source of HAP emissions, excluding stationary RICE being tested at a stationary RICE test cell/stand.

63.6590(a)(1) Existing stationary RICE.

63.6590(a)(1)(i) For stationary RICE with a site rating of more than 500 brake horsepower (HP) located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before December 19, 2002.

63.6590(a)(1)(ii) For stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

63.6590(a)(1)(iii) [NA - FACILITY IS MAJOR FOR HAP]

63.6590(a)(1)(iv) A change in ownership of an existing stationary RICE does not make that stationary RICE a new or reconstructed stationary RICE.

63.6590(a)(2) [NA - EXISTING ENGINES]

SECTION E. Source Group Restrictions.

63.6590(a)(3) [NA - NOT RECONSTRUCTED ENGINES]

63.6590(b) Stationary RICE subject to limited requirements.

63.6590(b)(1) An affected source which meets either of the criteria in paragraphs (b)(1)(i) through (ii) of this section does not have to meet the requirements of this subpart and of subpart A of this part except for the initial notification requirements of § 63.6645(f).

63.6590(b)(1)(i) [NA - ENGINES ARE NOT NEW OR RECONSTRUCTED]

63.6590(b)(1)(ii) [NA - ENGINES ARE NOT NEW OR RECONSTRUCTED]

63.6590(b)(2) [NA - EXISTING ENGINES]

63.6590(b)(3) The following stationary RICE do not have to meet the requirements of this subpart and of subpart A of this part, including initial notification requirements:

63.6590(b)(3)(i) [NA - ENGINES NOT 2SLB >500 HP]

63.6590(b)(3)(ii) [NA - ENGINES NOT 4SLB OR >500 HP]

63.6590(b)(3)(iii) [NA - ENGINES <500 HP]

63.6590(b)(3)(iv) [NA - ENGINES <500 HP]

63.6590(b)(3)(v) [NA - ENGINES <500 HP AND DO NOT COMBUST LFG]

63.6590(c) [NA - ENGINES NOT SUBJECT TO SUBPART IIII OR JJJJ]

[69 FR page 33506, June 15, 2004, as amended at 73 FR page 3604, Jan. 18, 2008; 75 FR page 9674, Mar. 3, 2010; 75 FR page 37733, June 30, 2010; 75 FR page 51588, Aug. 20, 2010; 78 FR page 6700, Jan. 30, 2013]

 # 004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6595]

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

When do I have to comply with this subpart?

63.6595(a) Affected Sources.

63.6595(a)(1) If you have an existing stationary RICE, excluding existing non-emergency CI stationary RICE, with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the applicable emission limitations, operating limitations and other requirements no later than June 15, 2007. If you have an existing non-emergency CI stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, an existing stationary CI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary CI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations, operating limitations, and other requirements no later than May 3, 2013. If you have an existing stationary SI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary SI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations, operating limitations, and other requirements no later than October 19, 2013.

63.6595(a)(2) - (7) [NA - EXISTING ENGINES]

63.6595(b) [NA - FACILITY IS MAJOR FOR HAP]

63.6595(c) If you own or operate an affected source, you must meet the applicable notification requirements in § 63.6645 and in 40 CFR part 63, subpart A.

SECTION E. Source Group Restrictions.

[69 FR page 33506, June 15, 2004, as amended at 73 FR page 3604, Jan. 18, 2008; 75 FR page 9675, Mar. 3, 2010; 75 FR page 51589, Aug. 20, 2010; 78 FR page 6701, Jan. 30, 2013]

 # 005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6602]

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

What emission limitations must I meet if I own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions?

If you own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations and other requirements in Table 2c to this subpart which apply to you. Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in § 63.6620 and Table 4 to this subpart.

TABLE 2C REQUIREMENTS:

4. For each EMERGENCY STATIONARY CI RICE and black start stationary CI RICE*, you must meet the following requirement, except during periods of startup:

a. Change oil and filter every 500 hours of operation or annually, whichever comes first**;

b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and

c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

5. For each EMERGENCY STATIONARY SI RICE; black start stationary SI RICE; non-emergency, non-black start 4SLB stationary RICE >500 HP that operate 24 hours or less per calendar year; non-emergency, non-black start 4SRB stationary RICE >500 HP that operate 24 hours or less per calendar year**, you must meet the following requirement, except during periods of startup:

a. Change oil and filter every 500 hours of operation or annually, whichever comes first*;

b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and

c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

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

* If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in Table 2c of this subpart, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. Sources must report any failure to perform the work practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable.

**Sources have the option to utilize an oil analysis program as described in § 63.6625(i) or (j) in order to extend the specified oil change requirement in Table 2c of this subpart

***Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.

[END OF TABLE 2c REQUIREMENTS]

[75 FR page 51589, Aug. 20, 2010; 78 FR page 6701, Jan. 30, 2013]

SECTION E. Source Group Restrictions.

 # 006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6604]

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

What fuel requirements must I meet if I own or operate an existing stationary CI RICE?

(a) [NA – ENGINE(S) ARE EMERGENCY]

(b) [NA - EXISTING ENGINES NOT CONTRACTUALLY OBLIAGATED TO BE AVAILABLE]

(c) [NA - NEW ENGINES NOT CONTRACTUALLY OBLIAGATED TO BE AVAILABLE]

(d) [NA – ENGINE(S) NOT IN SPECIFIED GEOGRAPHICAL AREAS]

[78 FR 6702, Jan. 30, 2013, as amended at 85 FR 78463, Dec. 4, 2020]

 # 007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6605]

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

What are my general requirements for complying with this subpart?

63.6605(a) You must be in compliance with the emission limitations, operating limitations, and other requirements in this subpart that apply to you at all times.

63.6605(b) At all times you 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 you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[69 FR page 33506, June 15, 2004, as amended at 75 FR page 9675, Mar. 3, 2010; 78 FR page 6702, Jan. 30, 2013]

 # 008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6612]

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

By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate an existing stationary RICE with a site rating of less than or equal to 500 brake (please see below)

If you own or operate an existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing stationary RICE located at an area source of HAP emissions you are subject to the requirements of this section.

63.6612(a) You must conduct any initial performance test or other initial compliance demonstration according to Tables 4 and 5 to this subpart that apply to you within 180 days after the compliance date that is specified for your stationary RICE in § 63.6595 and according to the provisions in § 63.7(a)(2). [PER TABLES 4 AND 5, NO TESTING APPLIES TO EMERGENCY ENGINES]

63.6612(b) [PER TABLES 4 AND 5, NO TESTING APPLIES TO EMERGENCY ENGINES]

[75 FR page 9676, Mar. 3, 2010, as amended at 75 FR page 51589, Aug. 20, 2010]

 # 009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6615]

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

When must I conduct subsequent performance tests?

[PER TABLE 3, NO TESTING APPLIES TO EMERGENCY ENGINES]

 # 010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6620]

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

SECTION E. Source Group Restrictions.

What performance tests and other procedures must I use?

[PER TABLES 3 AND 4, NO TESTING APPLIES TO EMERGENCY ENGINES]

 # 011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]

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

What are my monitoring, installation, operation, and maintenance requirements?

63.6625(a) [NA - NO CEMS REQUIRED OR ELECTED]

63.6625(b) [NA - NO CPMS REQUIRED OR ELECTED]

63.6625(c) [NA - LFG NOT USED]

63.6625(d) [NA - EXISTING ENGINES]

63.6625(e) If you own or operate any of the following stationary RICE, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions:

63.6625(e)(1) An existing stationary RICE with a site rating of less than 100 HP located at a major source of HAP emissions;

63.6625(e)(2) An existing emergency or black start stationary RICE with a site rating of less than or equal to 500 HP located at a major source of HAP emissions;

63.6625(e)(3) - (10) [NA - FACILITY IS MAJOR FOR HAP]

63.6625(f) If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing emergency stationary RICE located at an area source of HAP emissions, you must install a non-resettable hour meter if one is not already installed.

63.6625(g) [NA - ENGINES ARE EMERGENCY]

63.6625(h) If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.

63.6625(i) If you own or operate a stationary CI engine that is subject to the work, operation or management practices in items 1 or 2 of Table 2c to this subpart or in items 1 or 4 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

63.6625(j) If you own or operate a stationary SI engine that is subject to the work, operation or management practices in items 6, 7, or 8 of Table 2c to this subpart or in items 5, 6, 7, 9, or 11 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart.

SECTION E. Source Group Restrictions.

The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

[69 FR page 33506, June 15, 2004, as amended at 73 FR page 3606, Jan. 18, 2008; 75 FR page 9676, Mar. 3, 2010; 75 FR page 51589, Aug. 20, 2010; 76 FR page 12866, Mar. 9, 2011; 78 FR page 6703, Jan. 30, 2013]

 # 012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6630]

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

How do I demonstrate initial compliance with the emission limitations and operating limitations?

(a) [NA - PER TABLE 5, NO TESTING APPLIES TO EMERGENCY ENGINES]

(b) [NA - PER TABLE 5, NO TESTING APPLIES TO EMERGENCY ENGINES]

(c) [NA - NOT SUBJECT PER 63.6645(a)(5)]

(d) [NA – ENGINES ARE EMERGENCY]

(e) [NA – ENGINES ARE EMERGENCY]

[Amended at 78 FR page 6704, Jan. 30, 2013]

 # 013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6635]

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

How do I monitor and collect data to demonstrate continuous compliance?

[NA - ENGINES NOT SUBJECT TO EMISSION OR OPERATING LIMITATIONS]

 # 014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]

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

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

63.6640(a) You must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you according to methods specified in Table 6 to this subpart.

63.6640(b) [NA - NO EMISSION OR OPERATING LIMITATIONS]

63.6640(c) [NA - FACILITY IS MAJOR FOR HAP]

63.6640(d) [NA - ENGINES ARE EXISTING]

63.6640(e) You must also report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. If you own or operate a new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal to 500 brake HP), a new or reconstructed stationary RICE located at an area source of HAP emissions, or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart: An existing 2SLB stationary RICE, an

SECTION E. Source Group Restrictions.

existing 4SLB stationary RICE, an existing emergency stationary RICE, an existing limited use stationary RICE, or an existing stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis. If you own or operate any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart, except for the initial notification requirements: a new or reconstructed stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new or reconstructed emergency stationary RICE, or a new or reconstructed limited use stationary RICE.

63.6640(f) If you own or operate an emergency stationary RICE, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1) through (4) of this section. In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (4) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (4) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

63.6640(f)(1) There is no time limit on the use of emergency stationary RICE in emergency situations.

63.6640(f)(2) You may operate your emergency stationary RICE for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs (f)(3) and (4) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).

63.6640(f)(2)(i) Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.

63.6640(f)(2)(ii) - (iii) [NA - VACATED AS OF 5/2/16 PER COURT ORDER]

63.6640(f)(3) Emergency stationary RICE located at major sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

63.6640(f)(4) [NA - FACILITY IS MAJOR FOR HAP]

[69 FR page 33506, June 15, 2004, as amended at 71 FR page 20467, Apr. 20, 2006; 73 FR page 3606, Jan. 18, 2008; 75 FR page 9676, Mar. 3, 2010; 75 FR page 51591, Aug. 20, 2010; 78 FR page 6704, Jan. 30, 2013]

 # 015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6645]

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

What notifications must I submit and when?

63.6645(a) You must submit all of the notifications in § § 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to you by the dates specified if you own or operate any of the following;

63.6645(a)(1) An existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions.

63.6645(a)(2) [NA - FACILITY IS MAJOR FOR HAP]

SECTION E. Source Group Restrictions.

63.6645(a)(3) [NA - ENGINES <500 HP]

63.6645(a)(4) [NA - EXISTING ENGINES]

63.6645(a)(5) This requirement does not apply if you own or operate an existing stationary RICE less than 100 HP, an existing stationary emergency RICE, or an existing stationary RICE that is not subject to any numerical emission standards.

63.6645(b) - (f) [NA – PER (a)(5)]

63.6645(g) [NA – NO TESTING REQUIRED]

63.6645(h) [NA – NO TESTING REQUIRED]

63.6645(i) [NA - FACILITY IS MAJOR FOR HAP]

[73 FR 3606, Jan. 18, 2008, as amended at 75 FR 9677, Mar. 3, 2010; 75 FR 51591, Aug. 20, 2010; 78 FR 6705, Jan. 30, 2013; 85 FR 73912, Nov. 19, 2020]

 # 016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6650]

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

What reports must I submit and when?

[NA - EXCEPT FOR FOOTNOTE 1 OF TABLE 2c, FACILITY IS NOT SUBJECT TO ANY REPORTING REQUIREMENTS IN TABLE 7]

 # 017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]

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

What records must I keep?

63.6655(a) If you must comply with the emission and operating limitations, you must keep the records described in paragraphs (a)(1) through (a)(5), (b)(1) through (b)(3) and (c) of this section.

63.6655(a)(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in § 63.10(b)(2)(xiv).

63.6655(a)(2) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.

63.6655(a)(3) [NA - NOT REQUIRED TO CONDUCT PERFORMANCE TESTS]

63.6655(a)(4) Records of all required maintenance performed on the air pollution control and monitoring equipment.

63.6655(a)(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with § 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

63.6655(b) [NA – NOT REQUIRED TO INSTALL CEMS OR CPMS]

63.6655(c) [NA – ENGINES DO NOT COMBUST LANDFILL OR DIGESTER GAS]

63.6655(d) You must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies to you.

TABLE 6 REQUIREMENTS:

For each:

9. Existing emergency and black start stationary RICE <=500 HP located at a major source of HAP...

SECTION E. Source Group Restrictions.

Complying with the requirement to ...
a. Work or Management practices

You must demonstrate continuous compliance by ...
i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or
ii. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[END OF TABLE 6 REQUIREMENTS]

63.6655(e) You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate any of the following stationary RICE;

63.6655(e)(1) An existing stationary RICE with a site rating of less than 100 brake HP located at a major source of HAP emissions.

63.6655(e)(2) An existing stationary emergency RICE.

63.6655(e)(3) [NA - FACILITY IS MAJOR FOR HAP]

63.6655(f) If you own or operate any of the stationary RICE in paragraphs (f)(1) through (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in § 63.6640(f)(2)(ii) or (iii) or § 63.6640(f)(4)(ii), the owner or operator must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes.

63.6655(f)(1) An existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions that does not meet the standards applicable to non-emergency engines.

63.6655(f)(2) [NA - FACILITY IS MAJOR FOR HAP]

[69 FR page 33506, June 15, 2004, as amended at 75 FR page 9678, Mar. 3, 2010; 75 FR page 51592, Aug. 20, 2010; 78 FR page 6706, Jan. 30, 2013]

 # 018 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6660]

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

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

63.6660(a) Your records must be in a form suitable and readily available for expeditious review according to § 63.10(b)(1).

63.6660(b) As specified in § 63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

63.6660(c) You must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to § 63.10(b)(1).

[69 FR page 33506, June 15, 2004, as amended at 75 FR page 9678, Mar. 3, 2010]

 # 019 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6665]

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

What parts of the General Provisions apply to me?

Table 8 to this subpart shows which parts of the General Provisions in § § 63.1 through 63.15 apply to you. If you own or operate a new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal

SECTION E. Source Group Restrictions.

to 500 brake HP), a new or reconstructed stationary RICE located at an area source of HAP emissions, or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with any of the requirements of the General Provisions specified in Table 8: An existing 2SLB stationary RICE, an existing 4SLB stationary RICE, an existing stationary RICE that combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, an existing emergency stationary RICE, or an existing limited use stationary RICE. If you own or operate any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in the General Provisions specified in Table 8 except for the initial notification requirements: A new stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new emergency stationary RICE, or a new limited use stationary RICE.

[75 FR page 9678, Mar. 3, 2010]

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

SECTION E. Source Group Restrictions.

Group Name: GRP04

Group Description: 40 CFR 60, Subpart IIII Engine(s)

Sources included in this group

ID	Name
201	CAT C27 EMERGENCY GENERATOR
202	CAT C32 EMERGENCY GENERATOR

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 Part 60 Subpart IIII shall comply with all applicable requirements of the Subpart. 40 CFR 60.4 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

The Department copies shall be forwarded to the DEP SCRO Air Quality Program Manager at wiweaver@pa.gov, unless otherwise directed in writing by DEP.

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.

SECTION E. Source Group Restrictions.

 # 002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4200]

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Am I subject to this subpart?

60.4200(a) The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) and other persons as specified in paragraphs (a)(1) through (4) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.

60.4200(a)(1) [NA - NOT AN ENGINE MANUFACTURER]

60.4200(a)(2) Owners and operators of stationary CI ICE that commence construction after July 11, 2005, where the stationary CI ICE are:

60.4200(a)(2)(i) Manufactured after April 1, 2006, and are not fire pump engines, or

60.4200(a)(2)(ii) [NA - NOT FIRE PUMP ENGINES]

60.4200(a)(3) [NA - NOT MODIFIED OR RECONSTRUCTED]

60.4200(a)(4) The provisions of § 60.4208 of this subpart are applicable to all owners and operators of stationary CI ICE that commence construction after July 11, 2005.

60.4200(b) [NA - TEST CELL NOT INVOLVED]

60.4200(c) [NA - NOT AN AREA SOURCE]

60.4200(d) Stationary CI ICE may be eligible for exemption from the requirements of this subpart as described in 40 CFR part 1068, subpart C (or the exemptions described in 40 CFR part 89, subpart J and 40 CFR part 94, subpart J, for engines that would need to be certified to standards in those parts), except that owners and operators, as well as manufacturers, may be eligible to request an exemption for national security.

60.4200(e) [NA - NOT TEMPORARY REPLACEMENT UNIT(S)]

[71 FR 39172preview citation details, July 11, 2006, as amended at 76 FR 37967, June 28, 2011; 86 FR 34357, June 29, 2021]

 # 003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4205]

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal combustion engine?

60.4205(a) [NA – ENGINE(S) 2007 MODEL YEAR OR LATER]

60.4205(b) Owners and operators of 2007 model year and later emergency stationary CI ICE with a displacement of less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards for new nonroad CI engines in § 60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE.

60.4202 REQUIREMENTS

60.4202(a) Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later emergency stationary CI ICE with a maximum engine power less than or equal to 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder that are not fire pump engines to the emission standards specified in paragraphs (a)(1) through (2) of this section.

60.4202(a)(1) [NA - UNIT(S) > 50 HP]

SECTION E. Source Group Restrictions.

60.4202(a)(2) For engines with a maximum engine power greater than or equal to 37 KW (50 HP), the certification emission standards for new nonroad CI engines for the same model year and maximum engine power in 40 CFR 89.112 and 40 CFR 89.113 for all pollutants beginning in model year 2007. [CERTIFICATION DOCUMENTATION RECEIVED]

FROM 89.113

89.113(a) Exhaust opacity from compression-ignition nonroad engines for which this subpart is applicable must not exceed:

89.113(a)(1) 20 percent during the acceleration mode;

89.113(a)(2) 15 percent during the lugging mode; and

89.113(a)(3) 50 percent during the peaks in either the acceleration or lugging modes.

END OF 60.4202 REQUIREMENTS

60.4205(c) [NA - NOT FIRE PUMP ENGINES]

60.4205(d) [NA - UNITS < 30 L/CYL]

60.4205(e) [NA - DOES NOT CONDUCT PERFORMANCE TESTS IN USE]

60.4205(f) [NA - NOT MODIFIED/RECONSTRUCTED]

[71 FR 39172, July 11, 2006, as amended at 76 FR 37969, June 28, 2011; 86 FR 34358, June 29, 2021]

 # 004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4206]

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

How long must I meet the emission standards if I am an owner or operator of a stationary CI internal combustion engine?

Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in § § 60.4204 and 60.4205 over the entire life of the engine.

[76 FR page 37969, June 28, 2011]

 # 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4207]

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject to this subpart?

60.4207(a) [Reserved]

60.4207(b) Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted.

60.4207(c) [RESERVED]

60.4207(d) [NA - UNITS(S) < 30 L/CYL]

60.4207(e) [NA – NO NATIONAL SECURITY EXEMPTION]

[71 FR 39172, July 11, 2006, as amended at 76 FR 37969, June 28, 2011; 78 FR 6695, Jan. 30, 2013; 85 FR 78463, Dec. 4, 2020]

SECTION E. Source Group Restrictions.

 # 006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4208]

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

What is the deadline for importing or installing stationary CI ICE produced in the previous model year?

60.4208(a) After December 31, 2008, owners and operators may not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines.

60.4208(b) [NA - UNIT(S) > 25 HP AND NOT FIRE PUMP ENGINES]

60.4208(c) - (g) [NA - UNIT(S) ARE EMERGENCY]

60.4208(h) [NA - IMPORTATION NOT RELEVANT IN THIS CASE]

60.4208(i) The requirements of this section do not apply to owners or operators of stationary CI ICE that have been modified, reconstructed, and do not apply to engines that were removed from one existing location and reinstalled at a new location.

[Amended at 76 FR page 37969, June 28, 2011]

 # 007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4209]

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

What are the monitoring requirements if I am an owner or operator of a stationary CI internal combustion engine?

If you are an owner or operator, you must meet the monitoring requirements of this section. In addition, you must also meet the monitoring requirements specified in § 60.4211.

60.4209(a) If you are an owner or operator of an emergency stationary CI internal combustion engine that does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter prior to startup of the engine.

60.4209(b) [NA – ENGINES NOT EQUIPPED WITH DIESEL PARTICULATE FILTER]

[Amended at 76 FR page 37969, June 28, 2011]

 # 008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?

60.4211(a) If you are an owner or operator and must comply with the emission standards specified in this subpart, you must do all of the following, except as permitted under paragraph (g) of this section:

60.4211(a)(1) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;

60.4211(a)(2) Change only those emission-related settings that are permitted by the manufacturer; and

60.4211(a)(3) Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you.

60.4211(b) [NA – POST-2007 MODEL]

60.4211(c) If you are an owner or operator of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in § 60.4204(b) or § 60.4205(b), or if you are an owner or operator of a CI fire pump engine that is manufactured during or after the model year that applies to your fire pump engine power rating in table 3 to this subpart and must comply with the emission standards specified in § 60.4205(c), you must comply by purchasing an engine certified to the emission standards in § 60.4204(b), or § 60.4205(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in paragraph (g) of this section.

SECTION E. Source Group Restrictions.

60.4211(d) [NA - UNITS NOT SUBJECT TO § 60.4204(c) or § 60.4205(d)]

60.4211(e) [NA - NOT MODIFIED/RECONSRUCTED]

60.4211(f) If you own or operate an emergency stationary ICE, you must operate the emergency stationary ICE according to the requirements in paragraphs (f)(1) through (3) of this section. In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (3) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (3) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

60.4211(f)(1) There is no time limit on the use of emergency stationary ICE in emergency situations.

60.4211(f)(2) You may operate your emergency stationary ICE for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (f)(3) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).

60.4211(f)(2)(i) Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.

60.4211(f)(2)(ii) - (iii) [NA - VACATED AS OF 5/2/16 PER COURT ORDER]

60.4211(f)(3) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraph (f)(3)(i) of this section, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

60.4211(f)(3)(i) [NA - ENGINES NOT USED AS PART OF FINANCIAL ARRANGEMENT]

60.4211(f)(3)(ii) [Reserved]

60.4211(g) If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as follows:

60.4211(g)(1) [NA - ENGINES > 100 HP]

60.4211(g)(2) [NA - ENGINES > 500 HP]

60.4211(g)(3) If you are an owner or operator of a stationary CI internal combustion engine greater than 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. You must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

SECTION E. Source Group Restrictions.

[71 FR 39172, July 11, 2006, as amended at 76 FR 37970, June 28, 2011; 78 FR 6695, Jan. 30, 2013; 81 FR 44219, July 7, 2016; 86 FR 34359preview citation details, June 29, 2021]

 # 009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4212]

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

What test methods and other procedures must I use if I am an owner or operator of a stationary CI internal combustion engine with a displacement of less than 30 liters per cylinder?

[NA – TESTING NOT REQUIRED FOR CERTIFIED UNITS WHICH ARE NOT ALTERED PER 60.4211(g)]

 # 010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4213]

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

What test methods and other procedures must I use if I am an owner or operator of a stationary CI internal combustion engine with a displacement of greater than or equal to 30 liters per cylinder?

[NA – DISPLACEMENT <30 L/CYL]

 # 011 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4214]

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?

60.4214(a) [NA – UNIT(S) ARE EMERGENCY]

60.4214(b) If the stationary CI internal combustion engine is an emergency stationary internal combustion engine, the owner or operator is not required to submit an initial notification. Starting with the model years in table 5 to this subpart, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time.

60.4214(c) [NA - ENGINES NOT EQUIPPED WITH DIESEL PARTICULATE FILTER]

60.4214(d) [NA - ENGINES NOT USED FOR PURPOSES IN § 60.4211(f)(2)(ii) AND (iii) OR § 60.4211(f)(3)(i)]

[71 FR 39172, July 11, 2006, as amended at 78 FR 6696, Jan. 30, 2013; 81 FR 44219, July 7, 2016]

 # 012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4218]

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

What parts of the General Provisions apply to me?

Table 8 to this subpart shows which parts of the General Provisions in § § 60.1 through 60.19 apply to you.

***** 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. 06-05085, issued on 3/17/17.

#002
The following activities are not required to meet any emission restrictions, testing and monitoring requirements, reporting requirements and work practice standards:

(1) 120 Gallon Diesel Fuel Storage Tank
(1) 12,000 Gallon Diesel Fuel Storage Tank
(1) 1,000 Gallon Gasoline Fuel Storage Tank
(1) 1,000 Gallon Used (Waste) Oil Storage Tank
Miscellaneous space heaters
Small portable gas generators
Deodorizer sprayers
Tirewash System
(2) 1,250,000 1,281,890 gallon leachate storage tanks
(1) 233,000 gallon leachate treatment plant storage tank
(1) 300 gallon antifreeze tank
(1) 200 gallon used antifreeze tank
(2) 350 gallon motor oil storage tank
(1) 2,000 gallon diesel tank (LTP/Flare Generators)
(2) 350 gallon transmission oil tanks
(1) 350 hydraulic oil tank
(1) 275 gallon diesel tank
(2) 100 hP portable diesel generators
(1) 500 gallon perfume concentrate tank
(1) 1,400 gallon sulfuric acid tank
(1) 300 gallon Cleaner A tank
(1) 300 gallon Cleaner B tank
(1) 300 gallon 25% sodium hydroxide tank
(2) 1,000 gallon leachate tanks
(2) 1,000 gallon permeate tanks (leachate)
(1) 1,000 gallon concentrate tank (leachate)
(1) 500 gallon concentrate tank (leachate)
(1) 500 gallon Diesel Fuel (Mobile) tank
(1) 500 gallon Flare Station Pilot - Propane
(2) 2,000 gallon Leachate Treatment Plant Boiler (1.05 mmBtu/hr) tanks - Propane
(1) 7,800 gallon Polyaluminum Hydroxychloride (PAX) tank
(1) 1,800 gallon Methanol tank
(1) 350 gallon Sulfuric Acid tote
(1) 350 gallon Phosphoric Acid tote
(1) 350 gallon Sodium Hydroxide tote
(1) 250,000 gallon Treated Effluent tank
(1) 330,772 gallon Denitrification tank (Leachate)
(1) 683,510 gallon Aeration tank (Leachate)
(1) 276,838 gallon Treated Effluent tank
(1) 3,000 gallon Water/Cleaning Chemicals tank
(1) 800 gallon Treated Effluent tank
(4) 100 hP Portable Diesel Water Pumps
Methane Bioreactor Leachate Treatement System (RFD #3426)

#003
The average combustion temperature during the most recent performance test for each flare is:
Flare #3 - C103 (tested 9/14/21) - 1,633 deg F
Flare #4 - C106 (tested 9/15/21) - 1,593 deg F

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