COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: February 14, 2023 Effective Date: March 1, 2023

Expiration Date: February 29, 2028

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: 22-05007

Federal Tax Id - Plant Code: 23-6006036-4

Owner Information

Name: LANCASTER CNTY SWMA
Mailing Address: 1670 S 19TH ST
HARRISBURG, PA 17104-3201

Plant Information

Plant: LANCASTER CNTY SWMA/SUSQ RESOURCE MGMT COMPLEX
Location: 22 Dauphin County 22001 Harrisburg City
SIC Code: 4953 Trans. & Utilities - Refuse Systems

Responsible Official

Name: KEVIN CONNOR
Title: FAC MGR
Phone: (717) 236 - 0958 Email:

Permit Contact Person

Name: DANIEL BROWN
Title: ENV COMPLIANCE MANAGER
Phone: (717) 553 - 5864 Email: dbrown@lcswma.org

[Signature] _____

WILLIAM R. WEAVER, SOUTHCENTRAL REGION AIR PROGRAM MANAGER

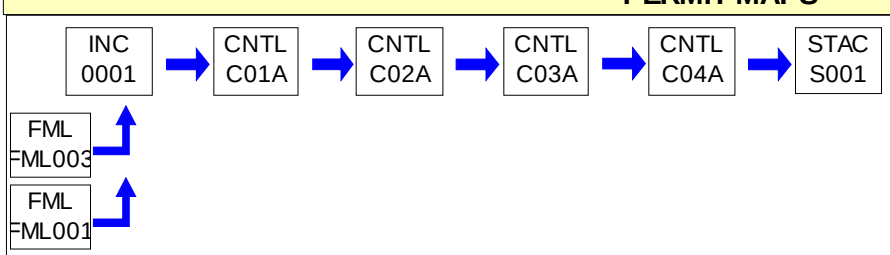
SECTION A. Table of Contents

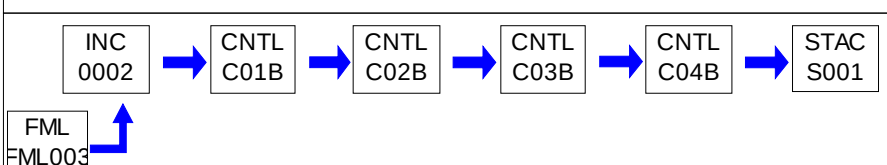
SECTION A. Table of Contents

SECTION A. Site Inventory List

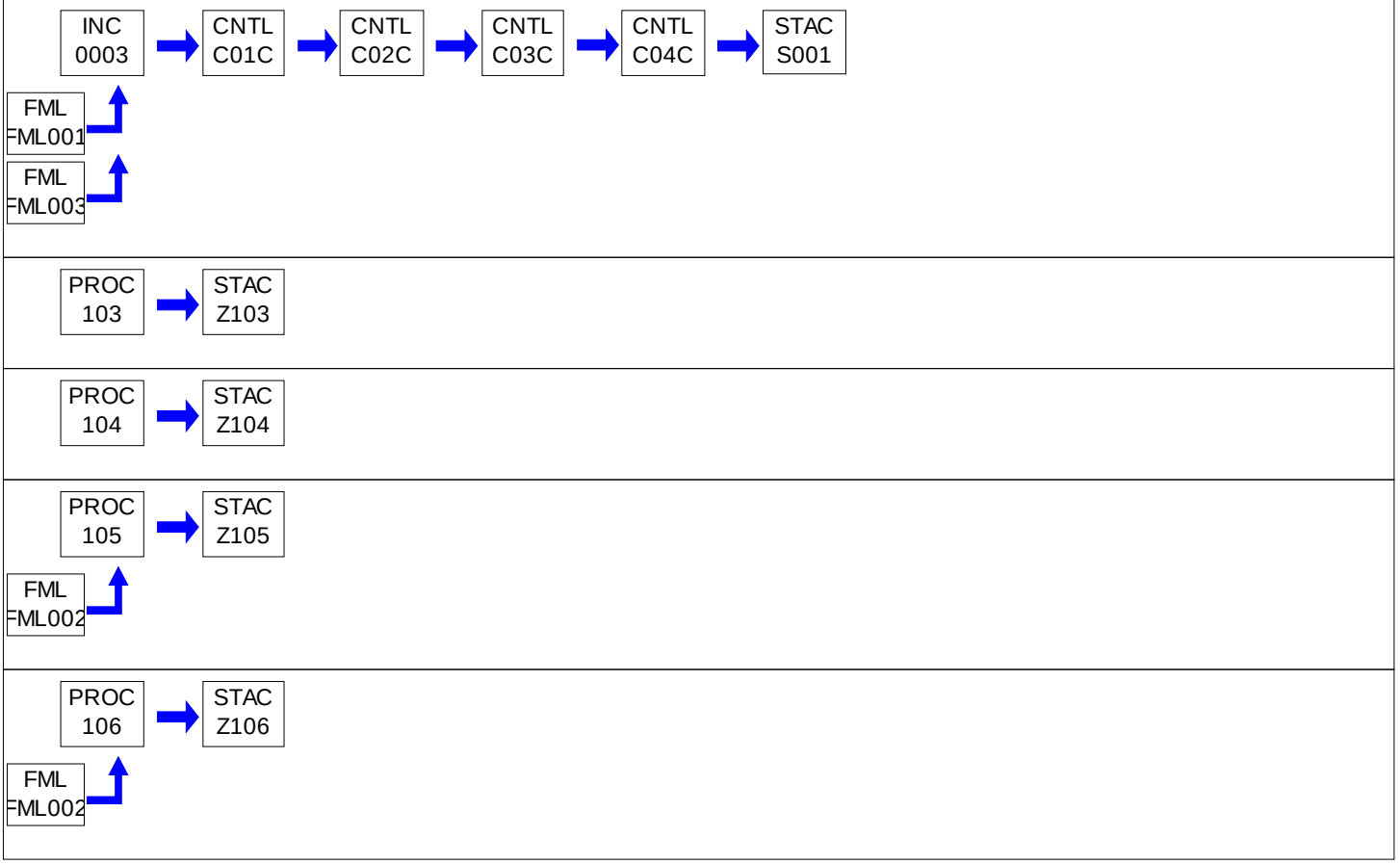
Source ID	Source Name	Capacity/Throughput		Fuel/Material
0001	UNIT #1	11.100	Tons/HR	MUNI SOLID WASTE
0002	UNIT #2	11.100	Tons/HR	MUNI SOLID WASTE
0003	UNIT #3	11.100	Tons/HR	MUNI SOLID WASTE
103	PARTS WASHER			
104	COOLING TOWER			
105	EMERGENCY GENERATOR			
106	FIRE PUMP DIESEL ENGINE			
C01A	SELECTIVE NON-CATALYTIC REDUCTION - UNIT #1			
C01B	SELECTIVE NON-CATALYTIC REDUCTION - UNIT #2			
C01C	SELECTIVE NON-CATALYTIC REDUCTION - UNIT #3			
C02A	CARBON INJECTION SYSTEM - UNIT #1			
C02B	CARBON INJECTION SYSTEM - UNIT #2			
C02C	CARBON INJECTION SYSTEM - UNIT #3			
C03A	LIME INJECTION SYSTEM - UNIT #1			
C03B	LIME INJECTION SYSTEM - UNIT #2			
C03C	LIME INJECTION SYSTEM - UNIT #3			
C04A	BAGHOUSE - UNIT #1			
C04B	BAGHOUSE - UNIT #2			
C04C	BAGHOUSE - UNIT #3			
FML001	REFUSE PIT			
FML002	DIESEL FUEL			
FML003	NATURAL GAS LINE			
S001	COMBINED STACK			
Z103	PARTS WASHER - FUGITIVE EMISSIONS			
Z104	COOLING TOWER EMISSIONS			
Z105	EMERGENCY GENERATOR			
Z106	FIRE PUMP DIESEL ENGINE			

PERMIT MAPS





PERMIT MAPS


INC 0003
CNTL C01C
CNTL C02C
CNTL C03C
CNTL C04C
STAC S001
FML FML001
FML FML003
PROC 103
STAC Z103
PROC 104
STAC Z104
PROC 105
STAC Z105
FML FML002
PROC 106
STAC Z106
FML FML002

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 not considered as emissions from use of roads and streets.

(d) Clearing of land.

(e) Stockpiling of materials.

(f) 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 the emission of particulate matter 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 §123.42]

Exceptions

The emission limitations of Section 123.41 shall not apply when:

(1) The presence of uncombined water vapor is the only reason for failure of the emission to meet the limitations;

(2) The emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions;

(3) The emission results from sources specified in Section C, Condition 001 (relating to prohibition of certain fugitive emissions).

 # 005 [25 Pa. Code §129.14]

Open burning operations

No person shall conduct the open burning of materials in an air basin except for the following:

(1) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.

(2) A fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.

SECTION C. Site Level Requirements

(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.

This permit does not constitute authorization to burn solid waste in violation of 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.

II. TESTING REQUIREMENTS.

 # 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Unless otherwise approved by the DEP in writting all testing shall conform to the following:

(a) Pursuant to 25 Pa. Code § 139.3 at least 90 calendar days prior to commencing an emissions testing program, unless otherwise approved in writing by DEP, a test protocol shall be submitted to the Department for review and approval. Unless otherwise approved in writing by DEP, the permittee shall not conduct the test that is the subject of the protocol, until the protocol has been approved by DEP.

(b) Pursuant to 25 Pa. Code § 139.3 at least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the appropriate Regional Office. Notification shall also be sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.

(c) Pursuant to 25 Pa. Code Section 139.53(a)(3) within 15 calendar days after completion of the on-site testing portion of an emission test program, if a complete test report has not yet been submitted, an electronic mail notification shall be sent to the Department's Division of Source Testing and Monitoring and the appropriate Regional Office indicating the completion date of the on-site testing.

(d) Pursuant to 40 CFR Part 60.8(a), 40 CFR Part 61.13(f) and 40 CFR Part 63.7(g) a complete test report shall be submitted
to the Department no later than 60 calendar days after completion of the on-site testing portion of an emission test program.
For those tests being conducted pursuant to 40 CFR Part 61, a complete test report shall be submitted within 31 days after completion of the test.

(e) Pursuant to 25 Pa. Code Section 139.53(b) a complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or non-compliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:

1. A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.
2. Permit number(s) and condition(s) which are the basis for the evaluation.
3. Summary of results with respect to each applicable permit condition.
4. Statement of compliance or non-compliance with each applicable permit condition.

(f) Pursuant to 25 Pa. Code § 139.3 to all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

(g) All testing shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection.

SECTION C. Site Level Requirements

(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, one digital copy of each submittal shall be made to each of the following:

Regional Office:
Digital copy: RA-epscstacktesting@pa.gov

Bureau of Air Quality:
Digital copy: 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 sources and control devices referenced in this permit to measure emissions for purposes including verification of permit condition compliance and estimation of annual air emissions.

 # 008 [25 Pa. Code §139.1]

Sampling facilities.

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

III. MONITORING REQUIREMENTS.

 # 009 [25 Pa. Code §123.43]

Measuring techniques

Visible stack emissions may be measured using either of the following:

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

(2) Observers, trained and certified in EPA Method 9, to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

 # 010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall conduct a daily inspection around the plant periphery during daylight hours when the plant is in production to detect visible stack emissions, visible emissions leaving the premises and odorous air emissions as follows:

(a) Stack emissions in excess of the limits stated in Section E for Source ID #0001, #0002 and #0003 combustors. Visible stack emissions may be measured according to the methods specified in Section C, Condition 009, or as an alternative, plant personnel who observe visible stack emissions may report the incidence of visible stack emissions to the Department within two (2) hours of the incident and make arrangements for a certified observer to measure the visible stack emissions.

(b) The presence of visible emissions beyond the plant boundaries as stated in Section C, Condition 002.

(c) The presence of odorous air emissions

SECTION C. Site Level Requirements

IV. RECORDKEEPING REQUIREMENTS.

 # 011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records of each daily inspection conducted in accordance with Section C, Condition 010. 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. Where none are noted, record "NONE".

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

 # 012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain the facility certification records required by 40 CFR Part 60, Subpart Eb on-site in a location that is readily accessible to all employees required to obtain certification, Department representatives and EPA personnel.

V. REPORTING REQUIREMENTS.

 # 013 [25 Pa. Code §127.512]

Operating permit terms and conditions.

(a) The permittee shall report malfunctions which occur at the facility to the DEP. As defined in 40 CFR Section 60.2 and incorporated by reference in 25 Pa. Code Chapter 122, a malfunction is any sudden, infrequent and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. Malfunctions shall be reported as follows:

(1) Any malfunction which poses an imminent danger to the public health, safety, welfare and environment, shall be immediately reported to the DEP by telephone. The telephone report of such malfunctions shall occur no later than two (2) hours after the permittee is aware of the malfunction. The permittee shall submit a written report of instances of such malfunctions to the DEP within three (3) days of the telephone report.

(2) Unless otherwise required by this permit, any other malfunction that is not subject to the reporting requirements of paragraph (1) above, shall be reported to the DEP, in writing, within five (5) days of discovery of the malfunction.

(b) Unless otherwise approved by DEP, all malfunctions shall be reported to dbubbenmoy@pa.gov.

(c) Telephone reports can be made to the Harrisburg District Office at 717-705-4702 during normal business hours, or to the DEP'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.

VI. WORK PRACTICE REQUIREMENTS.

 # 014 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

The permittee shall take all reasonable actions to prevent particulate matter from the sources identified in Section C, Condition 001 (a) through (e) from becoming airborne. The actions shall include, but are not limited to, the following:

(1) Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction

SECTION C. Site Level Requirements

operations, the grading of roads or the clearing of land.

(2) Application of asphalt, oil, water or suitable chemicals on dirt roads, materials stockpiles and other surfaces which may give rise to airborne dusts.

(3) Paving and maintenance of roadways.

(4) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

 # 015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The facility tipping area shall be operated under negative pressure to prevent the escape of malodors. The air shall be used as primary combustion air in the combustors. Open storage of waste outside of the tipping floor building is prohibited. This condition applies when the combustors are operating.

 # 016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Open-topped waste trucks must be appropriately covered. Trucks not properly covered shall be denied access to the SRMC. Notice of this requirement shall be conspicuously posted. All haulers of material off the site shall be required to tarp or otherwise cover their loads.

 # 017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Combustor ash shall be loaded in an enclosed area or handled wet in enclosed containers. Ash removal equipment shall operate within an enclosed area.

 # 018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The facility operators shall remove to the greatest extent practical hazardous materials, such as polyvinyl chloride plastics, corrosive materials, batteries, pressurized cans and household hazardous materials from the waste to be incinerated in the Group 001 combustors consistent with safe work practices.

 # 019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Prior to combustion, all difficult to burn, bulky combustible material, regardless of waste type, must be evaluated and sized to insure complete combustion and access through the hoppers before placement in the feed chute. Large, bulky non-combustibles (e.g., water heaters, refrigerators) and difficult to burn, bulky combustible materials (e.g., mattresses, sofas) that have not been properly sized and visible automotive batteries shall be excluded from the waste charged to the combustors.

 # 020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not accept for processing, other than composting, truckloads composed primarily of leaf waste (leaves, garden residues, shrubbery and tree trimmings and similar material, but not including grass clippings).

 # 021 [25 Pa. Code §127.444]

Compliance requirements.

The permittee shall operate and maintain the emission sources and air cleaning devices referenced in this permit in accordance with the manufacturer's general recommendations and good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.

 # 022 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall comply with the requirements of 25 Pa. Code Sections 129.96-129.100 for all applicable sources at the facility.

SECTION C. Site Level Requirements

 # 023 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Operation of any air emissions source is contingent upon proper operation of its associated emissions control system(s) unless otherwise approved by the Department.

 # 024 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall comply with the facility personnel certification requirements of 40 CFR Part 60, Subpart Eb. At a minimum, this requirement applies to the following:

a. chief facility operators
b. operations supervisors
c. all shift supervisors
d. control room operators

 # 025 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain and annually update a site-specific Operating Manual that includes the following:

a. a summary of the applicable standards
b. a description of basic combustion theory applicable to the municipal waste combustor unit(s)
c. procedures for receiving, handling and feeding municipal solid waste
d. combustor unit(s) startup, shutdown and malfunction procedures
e. procedures for maintaining proper combustion air supply levels
f. procedures for operating the combustor unit(s) in accordance with applicable standards
g. procedures for responding to periodic upset, off-specification or emergency conditions
h. procedures for minimizing particulate matter carryover
i. procedures for monitoring the degree of municipal waste burnout
j. procedures for handling ash
k. procedures for monitoring emissions from the unit(s)
l. recordkeeping and reporting procedures
m. site-specific training manual for plant operators

 # 026 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall establish a training program to review the Operating Manual with each person who has operational responsibilities, including, but not limited to, chief facility operators, shift supervisors, control room operators, ash handlers, maintenance personnel and crane/load handlers. Reviews shall be conducted within six months after startup of the unit(s) and annually thereafter.

 # 027 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The facility Operating Manual and employee training records shall be kept in a location that is readily accessible to all employees required to undergo training, Department representatives and EPA personnel.

 # 028 [25 Pa. Code §127.513]

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 #024 of Section B of this permit, and annually thereafter. In lieu of a hard copy submittal the permittee shall forward an electronic copy to the DEP SCRO Air Quality Program Manager at wiweaver@pa.gov, unless otherwise directed in writing by DEP.

VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this permit including Section B (relating

SECTION C. Site Level Requirements

to Title V General Requirements).

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

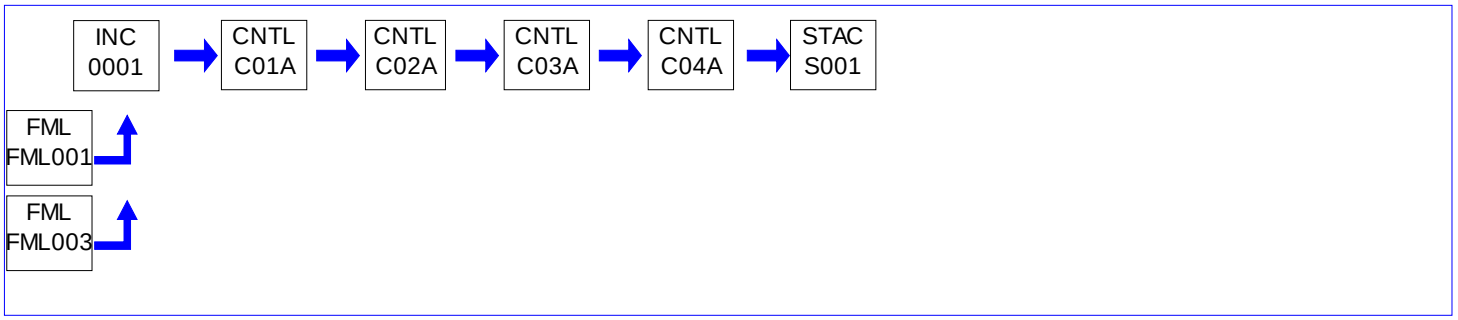
***** Permit Shield In Effect *****

SECTION D. Source Level Requirements

Source ID: 0001 Source Name: UNIT #1

Source Capacity/Throughput: 11.100 Tons/HR MUNI SOLID WASTE

Conditions for this source occur in the following groups: GROUP 001
GROUP 002
GROUP 003
GROUP 005



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).

SECTION D. Source Level Requirements

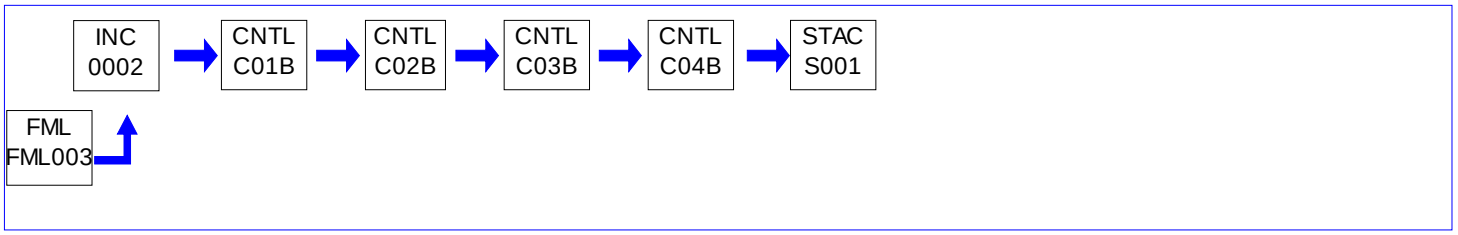
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 0002 Source Name: UNIT #2

Source Capacity/Throughput: 11.100 Tons/HR MUNI SOLID WASTE

Conditions for this source occur in the following groups: GROUP 001
GROUP 002
GROUP 003
GROUP 005



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).

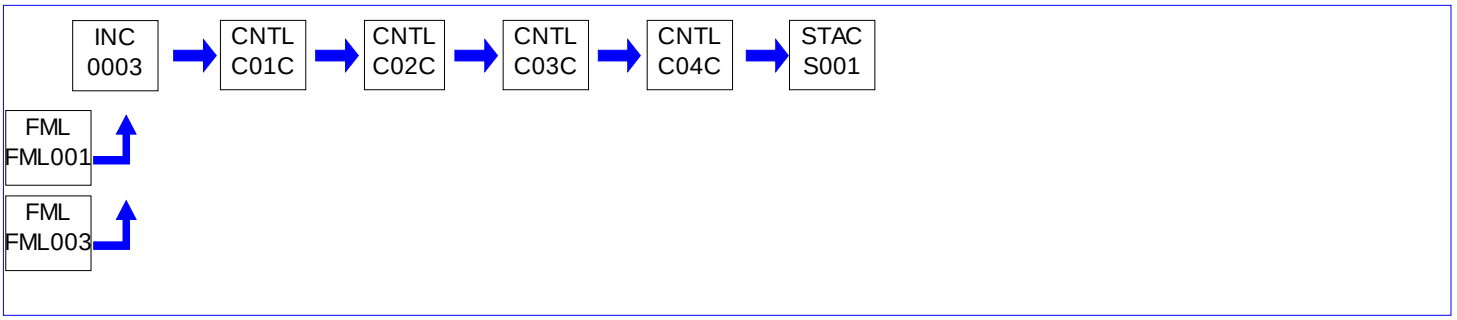
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 0003 Source Name: UNIT #3

Source Capacity/Throughput: 11.100 Tons/HR MUNI SOLID WASTE

Conditions for this source occur in the following groups: GROUP 001
GROUP 002
GROUP 003
GROUP 005



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).

SECTION D. Source Level Requirements

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

SECTION D. Source Level Requirements

Source ID: 103 Source Name: PARTS WASHER

Source Capacity/Throughput:

PROC 103 → STAC Z103

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §129.63]

Degreasing operations

The permittee may not use in a cold cleaning machine any solvent with a vapor pressure of 1.0 millimeter of mercury (mm Hg) or greater and containing greater than 5% VOC by weight, measured at 20°C (68°F) containing VOCs. This condition does not apply to the following Cold Cleaning Machines:

(1) Machines used in extreme cleaning service.

(2) Machines, in which the Department approves in writing, that compliance with this condition will result in unsafe operating conditions.

(3) Immersion machines with a freeboard ratio equal to or greater than 0.75.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

 # 002 [25 Pa. Code §129.63]

Degreasing operations

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

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

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

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

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).

SECTION D. Source Level Requirements

VI. WORK PRACTICE REQUIREMENTS.

 # 003 [25 Pa. Code §129.63]

Degreasing operations

(a) Immersion cold cleaning machines shall have a freeboard ratio of 0.50 or greater.

(b) Both immersion and remote reservoir cold cleaning machines shall have a permanent, conspicuous label summarizing the operating requirements in Section D, Condition #004. In addition, the label shall include the following discretionary good operating practices:

(1) 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.

(2) 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.

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

(c) 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 inches shall constitute an acceptable cover.

 # 004 [25 Pa. Code §129.63]

Degreasing operations

The permittee shall operate the cold cleaning machines 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.

VII. ADDITIONAL REQUIREMENTS.

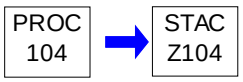
No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

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

SECTION D. Source Level Requirements

Source ID: 104 Source Name: COOLING TOWER

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.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

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

SECTION D. Source Level Requirements

Source ID: 105 Source Name: EMERGENCY GENERATOR

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 004

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: 106 Source Name: FIRE PUMP DIESEL ENGINE

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 004

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: GROUP 001

Group Description: Municipal Waste Combustors

Sources included in this group

ID	Name
0001	UNIT #1
0002	UNIT #2
0003	UNIT #3

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The emissions generated from the facility's combustors shall not exceed the following limitations based on a consecutive 12-month rolling period:

NOx (oxides of nitrogen) - 249 tons per year
PM-10 - 32 tons per year
Sulfur oxides (as SO2) - 116 tons per year
Carbon monoxide - 141 tons per year

(b) Monthly emission records for verification of the above limits shall be maintained on-site for the most recent five-year period and and be made available to te Department upon request.

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the provisions of 40 CFR Part 60, Subpart Eb, the following individual limits* are hereby established for each of the Group 001 combustors:

Carbon monoxide - 100 ppmv, four-hour averaging period
Sulfur oxides (as SO2) - 30 ppmv, 24-hr. geometric average or 80% reduction by weight or volume
Particulate matter (filterable) - 24 mg/DSCM (0.01 grains/DSCF)
Nitrogen oxides (NOx) - 150 ppmv, 24-hr. daily arithmetic average
Cadmium - 0.020 mg/DSCM
Lead - 0.20 mg/DSCM
Mercury - 0.080 mg/DSCM or 85% reduction by weight
Hydrogen chloride - 25 ppmv or 95% reduction by weight or volume
Total dioxin/furan - 13 ng/DSCM
Opacity - 10% per 6-minute averaging period
Unit Load** - 110 % of maximum demonstrated during most recent dioxin testing
Visible ash emissions*** - not in excess of 5% of the observation period as per EPA Reference Method 22
Baghouse inlet temperatures not to exceed 17degrees C. above maximum temperature demonstrated during most recent dioxin testing.

* all concentrations are corrected to 7% oxygen
** not applicable during and two weeks preceding the annual dioxin/furan testing
*** does not apply to emissions inside buildings or enclosures, or during maintenance and repair activities

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The following individual emission limits* apply to each of the Group 001 combustors:

Carbon monoxide - 100 ppmv, 4-hour arithmetic average
Sulfur dioxide - 30 ppmv, 24-hour arithmetic mean or 80% reduction by weight, 24-hour geometric mean
PM10 - 0.012 grains/DSCF (filterable + condensable)

SECTION E. Source Group Restrictions.

Nitrogen oxides (NOx)** - 135 ppmv, 24-hr. daily arithmetic average
Cadmium compounds - 15.8 ug/DSCM
Lead and compounds - 166.0 ug/DSCM
Mercury and compounds - 80 ug/DSCM or 85% reduction by weight, hourly basis
Hydrogen chloride - 25 pmv, 24-hour arithmetic mean or 95% reduction by weight, 24-hour arithmetic mean
Total dioxin/furan - 13 ng/DSCM
Arsenic and compounds - 7.2 ug/DSCM
Beryllium and compounds - 0.2 ug/DSCM
Chromium+6 and compounds*** - 2.3 ug/DSCM
Nickel and compounds - 25.0 ug/DSCM

* all concentrations are corrected to 7% oxygen
** voluntary limit for emission netting purposes
*** simultaneous testing of total chromium may be used to identify those instances where retesting is necessary (i.e., hexavalent chromium concentrations greater than total chromium concentrations)

Visible stack emissions shall not equal or exceed 10% for a period or periods aggregating more than three (3) minutes in any one hour; or equal to or greater than 30% at any time.

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the Best Available Technology (BAT) provision of 25 Pa. Code, Section 127.1, ammonia slip from each selective non-catalytic reduction (SNCR) system exhaust shall not exceed a three-hour rolling average of 12 ppm, measured dry volume, at 7% oxygen, under normal operation. Ammonia slip shall be verified during the required annual stack testing.

 # 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Particulate matter emissions from exhausts associated with the handling and storage of lime, carbon and ash for the Group 001 combustors shall be controlled to a level not to exceed 0.02 grain per dry standard cubic foot of exhaust.

II. TESTING REQUIREMENTS.

 # 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Unless otherwise approved by the Department in writing, the following procedures and test methods shall be used to determine compliance with the emission limits contained in this operating permit:

EPA Reference Method 1 shall be used to select sampling sites and traverse points
EPA Reference Methods 3, 3A or 3B, as applicable, shall be used for exhaust gas analysis
EPA Reference Methods 5/201A or 202, as applicable, shall be used for particulate matter emissions
EPA Reference Method 9 shall be used to determine opacity
EPA Reference Methods 10, 10A or 10B, as applicable, shall be used for carbon monoxide
EPA Reference Method 19 shall be used for sulfur dioxide and nitrogen oxides emissions
EPA Reference Method 22 shall be used for fugitive ash emissions
EPA Reference Method 23 shall be used for dioxin/furan emissions
EPA Reference Methods 26 or 26A, as applicable, shall be used for stack hydrogen chloride emissions
EPA Reference Method 29 shall be used for lead, cadmium and mercury emissions

 # 007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the provisions of 40 CFR Part 60, Subpart Eb, unless otherwise approved by the Department in writing, the permittee shall conduct annual emissions testing of the Group 001 combustors to include, but not limited to, the following:

particulate matter (filterable + condensable), cadmium, opacity, lead, hydrogen chloride, mercury and fugitive ash emissions.

SECTION E. Source Group Restrictions.

 # 008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall conduct emissions testing of each of the Group 001 combustors at any time or interval of time as may reasonably be prescribed by the Department. At a minimum, source tests shall be conducted as follows:

Every six months - PM10, cadmium and compounds, arsenic and compounds, nickel and compounds, hexavalent chromium and compounds, beryllium and compounds, lead and compounds, mercury and compounds. Testing may occur annually for these parameters if test results are less than 80% of the permitted standard. If a given parameter/unit equals or exceeds 80%, that parameter/unit shall be tested semi-annually for a period of 24-consecutive months until testing demonstrates a result of less than 80% of the permitted standard. The permittee shall notify the Department prior to reverting back to annual testing.

Annually - dioxins/furans, polycyclic aromatic hydrocarbon compounds[including: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, Dibenz(a,h)anthracene, and Indeno(1,2,3-cd)pyrene, and naphthalene], volatile organic compounds, hexavalent chromium and compounds, polychlorinated biphenyls [including: Aroclor 1254], copper and compounds, manganese and compounds, selenium and compounds, vanadium and compounds, zinc and compounds, hydrogen fluoride, and formaldehyde.

The Department reserves the right to modify these testing schedules based upon CEMS data, stack test results or other relevant factors.

Pursuant to 40 CFR 60.58(g)(5)(iii), where all performance tests over a 2-year period indicate that dioxin/furan emissions are less than 7 nanograms per dry standard cubic meter (total mass) for the Group 001 combustors, the permittee may conduct annual dioxin/furan performance tests for one combustor per year at the HRRF. Each year a different combustor at the facility shall be tested, and the combustors shall be tested in sequence.

III. MONITORING REQUIREMENTS.

 # 009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain and operate instrumentation to monitor the following parameters for each SNCR and carbon injection system associated with the Group 001 combustors:

a. total amount of ammonia solution injected
b. carbon feed screw speed
c. carbon mass feed rate (40 CFR Part 60, Subpart Eb)
d. carbon usage (40 CFR Part 60, Subpart Eb)

 # 010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Within 30 days after each annual performance test report is submitted to the Department, the permittee shall use the average annual emission rate for each compound of potential concern (COPC) used in the multi-pathway risk assessment to determine the associated cancer and non-cancer risk for each compound. This calculation shall be conducted using a Department approved method. These emission rates will use the average of all available actual emission rates obtained during the testing. The resulting cancer and non-cancer risks for each pollutant shall be added to determine the cumulative cancer and non-cancer risks.

The re-assessment may be based on an average of performance tests conducted over a five-year period. These risk assessment results will be compared with the acceptable risk levels of cancer risk of 1 in 100,000 and the non-cancer hazard index of 0.25. If the resulting cumulative risk values exceed the acceptable risk levels then a Compliance Plan shall be submitted to the Department for approval within 60 days of the test.

SECTION E. Source Group Restrictions.

IV. RECORDKEEPING REQUIREMENTS.

 # 011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain detailed records of all maintenance performed on the Group 001 combustors and the associated emissions control systems for the most recent five-year period. These records shall be maintained on-site and made available to Department representatives upon request.

V. REPORTING REQUIREMENTS.

 # 012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall submit the results of the annual risk evaluation to the Department within 30 days after each performance test result is submitted to the Department.

VI. WORK PRACTICE REQUIREMENTS.

 # 013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain the combustion gases at a temperature greater than 1,800 degrees F.* for at least one second. Temperature shall be calculated on an hourly average (1-hour block arithmetic average). Each combustor shall be equipped with automatically controlled auxiliary fuel burners to maintain the combustion gases at the required conditions under all waste firing situations, except during start-up and shutdown periods, and to insure that the temperatures reach 1,800 degrees F. prior to the introduction of waste.

* The above temperature corresponds to a side wall thermocouple temperature of 1,169 degrees F.

 # 014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The charging of waste to the Group 001 combustors shall automatically cease through the use of an interlock system if:

a. the combustor temperature drops below 1,600 degrees F. for a period of at least 15 minutes, at the point at which the gas residence is at least one second, or
b. the CO emissions exceed 600 ppmv corrected to 7% O2 on a dry basis for a period of at least 15 minutes, except during start-up periods, or
c. the flue gas oxygen level drops below 3% (wet basis or equivalent dry) for a period of at least 15 minutes, or
d. the opacity of the visible emissions is equal to or greater than 10% for a period of at least 15 minutes.

Should there be a cessation of feed, waste charging shall be resumed only after meeting the required levels.

VII. ADDITIONAL REQUIREMENTS.

 # 015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Group 001 combustors are subject to 40 CFR Part 60, Subpart Eb - Standards of Performance for Large Municipal Waste Combustors for Which Construction is Commenced After September 20, 1994 or for Which Modification or Reconstruction is Commenced After June 19, 1996 and shall comply with all applicable provisions of the Subpart to include the 40 CFR Part 60, Subpart A General Provisions. In accordance with 40 CFR 60.4, copies of all requests, reports, applications, submittals and other communications related to 40 CFR Part 60 compliance shall be forwarded to both the DEP and the EPA. The EPA copies shall be forwarded to;

United States Environmental Protection Agency
Region III, Air and Radiation Division
Permits Branch (3AD10)
Four Penn Center
1600 John F. Kennedy Boulevard

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.

 # 016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The following definitions apply to the operation of the Group 001 combustors:

Continuous burning: the continuous, semi-continuous, or batch feeding of municipal solid waste for purposes of waste disposal, energy production, or providing heat to the combustion system in preparation for waste disposal or energy production. The use of municipal solid waste solely to provide thermal protection of the grate or hearth during the startup when municipal solid waste is not being fed to the grate is not considered to be continuous burning.

Dioxins/furans: means tetra- through octa- chlorinated dibenzo-p-dioxins and dibenzofurans.

Four-hour block average: means the average of all hourly emissions concentrations when the combustor(s) are operating and combusting municipal solid waste measured over 4-hour periods of time from 12:00 midnight to 4 a.m., 4 a.m. to 8 a.m., 8 a.m. to 12:00 noon, 12:00 noon to 4 p.m., 4 p.m. to 8 p.m., and 8 p.m. to 12:00 midnight.

Hourly average: means any 60-minute period commencing on the hour.

Malfunction: any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. Failures that are caused by poor maintenance or careless operation are not malfunctions.

Shutdown: commences with cessation of charging municipal waste, for the express purpose of shutting down the combustor.

Startup: commences with the continuous burning of municipal solid waste and does not include any warmup period when combusting fossil fuel or other non-municipal solid waste fuel, and no municipal waste is being fed to the combustor.

Twenty-four hour daily average: means either the arithmetic mean or geometric mean (as specified) of all hourly emission concentrations when the combustor is operating and combusting municipal solid waste measured over a 24-hour period between 12:00 midnight and the following midnight.

 # 017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Department reserves the right to use the CEMS data, stack test results and the operating parameters for the Group 001 combustors and their associated air cleaning devices to verify emission rates, to develop emission factors and to develop compliance assurance measures for the facility.

 # 018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

With the exception of Section E, Condition 001, above, the standards contained in this operating permit apply at all times except during periods of startup or shutdown. Each of these periods is limited to three (3) hours per occurrence and is defined in Section E, Condition 016, above. Section E, Condition 001 does apply during periods of startup and shutdown.

 # 019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The municipal water supply is the sole approved water source for the facility's cooling tower. Any future alternative sources require written Department approval beforehand. Cooling tower particulate matter emissions shall be included in the facility's annual air emissions report.

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

SECTION E. Source Group Restrictions.

Group Name: GROUP 002

Group Description: CEM Requirements

Sources included in this group

ID	Name
0001	UNIT #1
0002	UNIT #2
0003	UNIT #3

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.

 # 001 [25 Pa. Code §139.101]

General requirements.

A. The following continuous emission monitoring systems (CEMS) must be operated and maintained in accordance with the requirements of 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), and the "Submittal and Approval", "Record Keeping and Reporting", and "Quality Assurance" requirements of Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001, and as specified in Phase I, Phase II and Phase III approvals issued by the Department. NOTE: Any standards in this condition derived from Subpart Eb are subject to the SSM provisions in 40 CFR 60.58b(a)(1). Any standards in this condition related to Condition 017 for Source Group 001 in Section E of this permit are subject to the startup and shutdown provisions of that condition.

On each of Units 1, 2 and 3:

1. Exhaust Gas Flow CEMS
a. Parameter to be Reported: Exhaust Gas Flow
b. Units of Measurement to be Reported: SCFM
c. Moisture Basis of Measurement to be Reported: NA
d. Correction basis of Measurements to be Reported: NA
e. Emission Standard: NA
f. Averaging Period: NA

2. CO CEMS 1
a. Parameter to be Reported: CO
b. Units of Measurement to be Reported: lb/hr
c. Moisture Basis of Measurement to be Reported: Dry
d. Correction basis of Measurements to be Reported: 7% O2
e. Emission Standard: None
f. Averaging Period: 12-month sum, rolling by 1 month

3. CO CEMS 2
a. Parameter to be Reported: CO
b. Units of Measurement to be Reported: ppmv
c. Moisture Basis of Measurement to be Reported: Dry
d. Correction basis of Measurements to be Reported: 7% O2
e. Emission Standard: <=100
f. Averaging Period: 4-hour average, block

4. NOx CEMS 1
a. Parameter to be Reported: NOx
b. Units of Measurement to be Reported: lb/hr

SECTION E. Source Group Restrictions.

c. Moisture Basis of Measurement to be Reported: Dry
d. Correction basis of Measurements to be Reported: 7% O2
e. Emission Standard: None
f. Averaging Period: 12-month sum, rolling by 1 month

5. NOx CEMS 2
a. Parameter to be Reported: NOx
b. Units of Measurement to be Reported: ppmv
c. Moisture Basis of Measurement to be Reported: Dry
d. Correction basis of Measurements to be Reported: 7% O2
e. Emission Standard: <=135
f. Averaging Period: 24-hour, block

6. SOx CEMS 1
a. Parameter to be Reported: SOx
b. Units of Measurement to be Reported: lb/hr
c. Moisture Basis of Measurement to be Reported: Dry
d. Correction basis of Measurements to be Reported: 7% O2
e. Emission Standard: None
f. Averaging Period: 12-month sum, rolling by 1 month

7. SOx CEMS 2
a. Parameter to be Reported: SOx
b. Units of Measurement to be Reported: ppmv
c. Moisture Basis of Measurement to be Reported: Dry
d. Correction basis of Measurements to be Reported: 7% O2
e. Emission Standard: <=30
f. Averaging Period: 24-hour, block, geometric

8. Steam Flow CEMS
a. Parameter to be Reported: Steam Flow
b. Units of Measurement to be Reported: Klbs/hr
c. Moisture Basis of Measurement to be Reported: NA
d. Correction basis of Measurements to be Reported: NA
e. Emission Standard: varies, specified elsewhere in permit (depends on measurements during dioxin/furan tests)
f. Averaging Period: 4-hour average, block

9. Furnace Temperature CEMS
a. Parameter to be Reported: Furnace Temperature (as measured by sidewall thermocouples)
b. Units of Measurement to be Reported: degrees F
c. Moisture Basis of Measurement to be Reported: NA
d. Correction basis of Measurements to be Reported: NA
e. Emission Standard: >=1,800
f. Averaging Period: 1-hour average, block

10. Baghouse Inlet Temperature CEMS
a. Parameter to be Reported: Baghouse Inlet Temperature
b. Units of Measurement to be Reported: degrees F
c. Moisture Basis of Measurement to be Reported: NA
d. Correction basis of Measurements to be Reported: NA
e. Emission Standard: varies, specified elsewhere in permit (depends on measurements during dioxin/furan tests)
f. Averaging Period: 4-hour average, block

Combined for Units 1, 2 and 3:

11. HCl CEMS
a. Parameter to be Reported: HCl

SECTION E. Source Group Restrictions.

b. Units of Measurement to be Reported: ppmv
c. Moisture Basis of Measurement to be Reported: Dry
d. Correction basis of Measurements to be Reported: 7% O2
e. Emission Standard: <=25
f. Averaging Period: 24-hour, block

12. Opacity CEMS
a. Parameter to be Reported: Opacity
b. Units of Measurement to be Reported: percent
c. Moisture Basis of Measurement to be Reported: NA
d. Correction basis of Measurements to be Reported: NA
e. Emission Standard: No more than 3 min/hr >=10%; No minutes >=30%
f. Averaging Period: as indicated in emission standard

Note: Data substitution is not formally required for the above standards. Nevertheless, separate and apart from the CEM reporting process, the permittee is responsible provide DEP with a reasonable estimate of emissions for time periods where CEM data is unavailable, for the purposes of determining compliance with any 12-month standards, and for annual emission inventory purposes.

B. Data Availability Standards

1. The steam flow and baghouse inlet temperature (CEMS) shall, at a minimum, meet one of the following data availability requirements:

(i) In each calendar month, at least 90% of the time periods for which an emission standard or an operational parameter applies, shall be valid as set forth in the Quality Assurance section of Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001, or

(ii) In each calendar quarter, at least 95% of the hours shall be valid as set forth in the Quality Assurance section of Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

2. 139.111. Waste incinerator monitoring requirements.

(1) Carbon monoxide and temperature monitoring systems shall meet the following minimum data availability requirements:

(i) One hundred percent of the data hours shall be valid hours as set forth in the Quality Assurance section of Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

(ii) At least 90% of the data required to be collected each hour shall be valid data as set forth in the Quality Assurance section of Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

(2) Opacity monitoring systems shall meet the following minimum data availability requirement: At least 95% of the data hours each day shall be valid hours as set forth in the Quality Assurance section of Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

(3) Hydrogen chloride, sulfur dioxide and nitrogen oxide monitoring systems shall meet the following minimum data availability requirement: At least 90% of the data hours each month shall be valid hours as set forth in the Quality Assurance section of Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

C. Quality Assurance Requirements

Continuous Emission Systems and components must be operated and maintained in accordance with the requirements established in 25 PA Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), the "Quality Assurance" requirements in the Department's Continuous Source Monitoring Manual, Revision No. 8, 274-0300-001. Note: Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.

SECTION E. Source Group Restrictions.

Note: Compliance with any subsequently issued revisions to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.

IV. RECORDKEEPING REQUIREMENTS.

 # 002 [25 Pa. Code §139.101]

General requirements.

1. The permittee shall comply with the recordkeeping requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), the "Record Keeping and Reporting" requirements in the Department's Continuous Source Monitoring Manual, Revision No. 8, 274-0300-001.

2. Records shall be retained for at least 5 years and shall be made available to the Department upon request.

Note: Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance with this condition.

V. REPORTING REQUIREMENTS.

 # 003 [25 Pa. Code §139.101]

General requirements.

Reporting Requirements:

a. The permittee shall submit quarterly reports of continuous emission monitoring to the Department in accordance with the requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources),and, the "Record Keeping and Reporting" requirements as established in Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

b. The permittee shall report emissions for all periods of unit operation, including startup, shutdown and malfunction.

c. Initial quarterly reports following system certification shall be submitted to the Department within 35 days following the date upon which the Department notifies the owner or operator, in writing, of the approval of the continuous source monitoring system for use in determining compliance with applicable emission standards.

d. Subsequent quarterly reports shall be submitted to the Department within 30 days after the end of each calendar quarter.

e. Failure to submit required reports of continuous emission monitoring within the time periods specified in this Condition, shall constitute violations of this Permit, unless approved in advance by the Department in writing.

f. Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual

Note: Compliance with any subsequently issued revisions to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

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

SECTION E. Source Group Restrictions.

Group Name: GROUP 003

Group Description: 40 CFR Part 60, Subpart Eb Requirements

Sources included in this group

ID	Name
0001	UNIT #1
0002	UNIT #2
0003	UNIT #3

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Standards for municipal waste combustor metals, acid gases, organics, and nitrogen oxides

NOTE: IF ANALOGOUS, MORE STRINGENT STANDARDS THAN THE ONES LISTED IN THIS CONDITION ARE FOUND IN GROUP 001, THEN COMPLIANCE WITH THE RELEVANT GROUP 001 CONDITIONS ASSURES COMPLIANCE WITH THE ANALOGOUS CONDITIONS BELOW.

40cfr60.52b(a)
The limits for municipal waste combustor metals are specified in paragraphs (a)(1) through (a)(5) of this section.

40cfr60.52b(a)(1)
On and after the date on which the initial performance test is completed or is required to be completed under §60.8 of subpart A of this part, no owner or operator of an affected facility shall cause to be discharged into the atmosphere from that affected facility any gases that contain particulate matter in excess of the limits specified in paragraph (a)(1)(i) or (a)(1)(ii) of this section.

40cfr60.52b(a)(1)(i)
For affected facilities that commenced construction, modification, or reconstruction after September 20, 1994, and on or before December 19, 2005, the emission limit is 24 milligrams per dry standard cubic meter, corrected to 7 percent oxygen.

40cfr60.52b(a)(1)(ii) [NA - COMMENCED CONSTRUCTION FEBRUARY 2004]

40cfr60.52b(a)(2)
On and after the date on which the initial performance test is completed or is required to be completed under §60.8 of subpart A of this part, no owner or operator of an affected facility shall cause to be discharged into the atmosphere from that affected facility any gases that exhibit greater than 10 percent opacity (6-minute average).

[THIS CONDITION ENSURES COMPLIANCE WITH 25 PA. CODE SECTION 123.41]

40cfr60.52b(a)(3)
On and after the date on which the initial performance test is completed or is required to be completed under §60.8 of subpart A of this part, no owner or operator of an affected facility shall cause to be discharged into the atmosphere from that affected facility any gases that contain cadmium in excess of the limits specified in paragraph (a)(3)(i) or (a)(3)(ii) of this section.

40cfr60.52b(a)(3)(i)
For affected facilities that commenced construction, modification, or reconstruction after September 20, 1994, and on or before December 19, 2005, the emission limit is 20 micrograms per dry standard cubic meter, corrected to 7 percent oxygen.

40cfr60.52b(a)(3)(ii) [NA - COMMENCED CONSTRUCTION FEBRUARY 2004]

40cfr60.52b(a)(4)
On and after the date on which the initial performance test is completed or is required to be completed under §60.8 of subpart A of this part, no owner or operator of an affected facility shall cause to be discharged into the atmosphere from the

SECTION E. Source Group Restrictions.

affected facility any gases that contain lead in excess of the limits specified in paragraph (a)(4)(i) or (a)(4)(ii) of this section.

40cfr60.52b(a)(4)(i)
For affected facilities that commenced construction, modification, or reconstruction after September 20, 1994, and on or before December 19, 2005, the emission limit is 200 micrograms per dry standard cubic meter, corrected to 7 percent oxygen.

40cfr60.52b(a)(4)(ii) [NA - COMMENCED CONSTRUCTION FEBRUARY 2004]

40cfr60.52b(a)(5)
On and after the date on which the initial performance test is completed or is required to be completed under §60.8 of subpart A of this part, no owner or operator of an affected facility shall cause to be discharged into the atmosphere from the affected facility any gases that contain mercury in excess of the limits specified in paragraph (a)(5)(i) or (a)(5)(ii) of this section.

40cfr60.52b(a)(5)(i)
For affected facilities that commenced construction, modification, or reconstruction after September 20, 1994 and on or before December 19, 2005, the emission limit is 80 micrograms per dry standard cubic meter or 15 percent of the potential mercury emission concentration (85-percent reduction by weight), corrected to 7 percent oxygen, whichever is less stringent.

40cfr60.52b(a)(5)(ii) [NA - COMMENCED CONSTRUCTION FEBRUARY 2004]

40cfr60.52b(b)
The limits for municipal waste combustor acid gases are specified in paragraphs (b)(1) and (b)(2) of this section.

40cfr60.52b(b)(1)
On and after the date on which the initial performance test is completed or is required to be completed under §60.8 of subpart A of this part, no owner or operator of an affected facility shall cause to be discharged into the atmosphere from that affected facility any gases that contain sulfur dioxide in excess of 30 parts per million by volume or 20 percent of the potential sulfur dioxide emission concentration (80-percent reduction by weight or volume), corrected to 7 percent oxygen (dry basis), whichever is less stringent. The averaging time is specified under §60.58b(e).

40cfr60.52b(b)(2)
On and after the date on which the initial performance test is completed or is required to be completed under §60.8 of subpart A of this part, no owner or operator of an affected facility shall cause to be discharged into the atmosphere from that affected facility any gases that contain hydrogen chloride in excess of 25 parts per million by volume or 5 percent of the potential hydrogen chloride emission concentration (95-percent reduction by weight or volume), corrected to 7 percent oxygen (dry basis), whichever is less stringent.

40cfr60.52b(c)
The limits for municipal waste combustor organics are specified in paragraphs (c)(1) and (c)(2) of this section.

40cfr60.52b(c)(1)
On and after the date on which the initial performance test is completed or is required to be completed under §60.8 of subpart A of this part, no owner or operator of an affected facility for which construction, modification or reconstruction commences on or before November 20, 1997 shall cause to be discharged into the atmosphere from that affected facility any gases that contain dioxin/furan emissions that exceed 30 nanograms per dry standard cubic meter (total mass), corrected to 7 percent oxygen, for the first 3 years following the date of initial startup. After the first 3 years following the date of initial startup, no owner or operator shall cause to be discharged into the atmosphere from that affected facility any gases that contain dioxin/furan total mass emissions that exceed 13 nanograms per dry standard cubic meter (total mass), corrected to 7 percent oxygen.

40cfr60.52b(c)(2)
On and after the date on which the initial performance test is completed or is required to be completed under §60.8 of subpart A of this part, no owner or operator of an affected facility for which construction, modification, or reconstruction commences after November 20, 1997 shall cause to be discharged into the atmosphere from that affected facility any gases that contain dioxin/furan total mass emissions that exceed 13 nanograms per dry standard cubic meter (total mass),

SECTION E. Source Group Restrictions.

corrected to 7 percent oxygen.

40cfr60.52b(d)
The limits for nitrogen oxides are specified in paragraphs (d)(1) and (d)(2) of this section.

40cfr60.52b(d)(1)
During the first year of operation after the date on which the initial performance test is completed or is required to be completed under §60.8 of subpart A of this part, no owner or operator of an affected facility shall cause to be discharged into the atmosphere from that affected facility any gases that contain nitrogen oxides in excess of 180 parts per million by volume, corrected to 7 percent oxygen (dry basis). The averaging time is specified under §60.58b(h).

40cfr60.52b(d)(2)
After the first year of operation following the date on which the initial performance test is completed or is required to be completed under §60.8 of subpart A of this part, no owner or operator of an affected facility shall cause to be discharged into the atmosphere from that affected facility any gases that contain nitrogen oxides in excess of 150 parts per million by volume, corrected to 7 percent oxygen (dry basis). The averaging time is specified under §60.58b(h).

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Standards for municipal waste combustor fugitive ash emissions

40cfr60.55b(a)
On and after the date on which the initial performance test is completed or is required to be completed under §60.8 of subpart A of this part, no owner or operator of an affected facility shall cause to be discharged to the atmosphere visible emissions of combustion ash from an ash conveying system (including conveyor transfer points) in excess of 5 percent of the observation period (i.e., 9 minutes per 3-hour period), as determined by EPA Reference Method 22 observations as specified in §60.58b(k), except as provided in paragraphs (b) and (c) of this section.

40cfr60.55b(b)
The emission limit specified in paragraph (a) of this section does not cover visible emissions discharged inside buildings or enclosures of ash conveying systems; however, the emission limit specified in paragraph (a) of this section does cover visible emissions discharged to the atmosphere from buildings or enclosures of ash conveying systems.

40cfr60.55b(c)
The provisions specified in paragraph (a) of this section do not apply during maintenance and repair of ash conveying systems.

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.

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Compliance and performance testing

SSM PROVISIONS

40cfr60.58b(a)
The provisions for startup, shutdown, and malfunction are provided in paragraphs (a)(1) and (a)(2) of this section.

40cfr60.58b(a)(1)
Except as provided by §60.56b, the standards under this subpart apply at all times except during periods of startup,

SECTION E. Source Group Restrictions.

shutdown, and malfunction. Duration of startup, shutdown, or malfunction periods are limited to 3 hours per occurrence, except as provided in paragraph (a)(1)(iii) of this section. During periods of startup, shutdown, or malfunction, monitoring data shall be dismissed or excluded from compliance calculations, but shall be recorded and reported in accordance with the provisions of 40 CFR 60.59b(d)(7).

40cfr60.58b(a)(1)(i)
The startup period commences when the affected facility begins the continuous burning of municipal solid waste and does not include any warmup period when the affected facility is combusting fossil fuel or other nonmunicipal solid waste fuel, and no municipal solid waste is being fed to the combustor.

40cfr60.58b(a)(1)(ii)
Continuous burning is the continuous, semicontinuous, or batch feeding of municipal solid waste for purposes of waste disposal, energy production, or providing heat to the combustion system in preparation for waste disposal or energy production. The use of municipal solid waste solely to provide thermal protection of the grate or hearth during the startup period when municipal solid waste is not being fed to the grate is not considered to be continuous burning.

40cfr60.58b(a)(1)(iii)
For the purpose of compliance with the carbon monoxide emission limits in §60.53b(a), if a loss of boiler water level control (e.g., boiler waterwall tube failure) or a loss of combustion air control (e.g., loss of combustion air fan, induced draft fan, combustion grate bar failure) is determined to be a malfunction, the duration of the malfunction period is limited to 15 hours per occurrence. During such periods of malfunction, monitoring data shall be dismissed or excluded from compliance calculations, but shall be recorded and reported in accordance with the provisions of §60.59b(d)(7).

40cfr60.58b(a)(2) [NA - NO AIR CURTAIN INCINERATORS]

OXYGEN MONITORING

40cfr60.58b(b)
The owner or operator of an affected facility shall install, calibrate, maintain, and operate a continuous emission monitoring system for measuring the oxygen or carbon dioxide content of the flue gas at each location where carbon monoxide, sulfur dioxide, nitrogen oxides emissions, or particulate matter (if the owner or operator elects to continuously monitor emissions under paragraph (n) of this section) are monitored and record the output of the system and shall comply with the test procedures and test methods specified in paragraphs (b)(1) through (b)(8) of this section.

40cfr60.58b(b)(1)
The span value of the oxygen (or 20 percent carbon dioxide) monitor shall be 25 percent oxygen (or 20 percent carbon dioxide).

40cfr60.58b(b)(2)
The monitor shall be installed, evaluated, and operated in accordance with §60.13 of subpart A of this part.

40cfr60.58b(b)(3) [NA - REQUIREMENT PREVIOUSLY FULFILLED]

40cfr60.58b(b)(4)
The monitor shall conform to Performance Specification 3 in appendix B of this part except for section 2.3 (relative accuracy requirement).

40cfr60.58b(b)(5)
The quality assurance procedures of appendix F of this part except for section 5.1.1 (relative accuracy test audit) shall apply to the monitor.

40cfr60.58b(b)(6) [NA - CO2 CORRECTION NOT USED]

40cfr60.58b(b)(6)(i)
The fuel factor equation in Method 3B shall be used to determine the relationship between oxygen and carbon dioxide at a sampling location. Method 3, 3A, or 3B, or as an alternative ASME PTC-19-10-1981-part10, as applicable, shall be used to determine the oxygen concentration at the same location as the carbon dioxide monitor.

SECTION E. Source Group Restrictions.

40cfr60.58b(b)(6)(ii)
Samples shall be taken for at least 30 minutes in each hour.

40cfr60.58b(b)(6)(iii)
Each sample shall represent a 1-hour average.

40cfr60.58b(b)(6)(iv)
A minimum of three runs shall be performed.

40cfr60.58b(b)(7) [NA - CO2 CORRECTION NOT USED]

40cfr60.58b(b)(8)
During a loss of boiler water level control or loss of combustion air control malfunction period as specified in paragraph (a)(1)(iii) of this section, a diluent cap of 14 percent for oxygen or 5 percent for carbon dioxide may be used in the emissions calculations for sulfur dioxide and nitrogen oxides.

PM AND OPACITY MONITORING

40cfr60.58b(c)
Except as provided in paragraph (c)(10) of this section, the procedures and test methods specified in paragraphs (c)(1) through (c)(11) of this section shall be used to determine compliance with the emission limits for particulate matter and opacity under §60.52b(a)(1) and (a)(2).

40cfr60.58b(c)(1)
The EPA Reference Method 1 shall be used to select sampling site and number of traverse points.

40cfr60.58b(c)(2)
The EPA Reference Method 3, 3A or 3B, or as an alternative ASME PTC-19-10-1981-part10, as applicable, shall be used for gas analysis.

40cfr60.58b(c)(3)
EPA Reference Method 5 shall be used for determining compliance with the particulate matter emission limit. The minimum sample volume shall be 1.7 cubic meters. The probe and filter holder heating systems in the sample train shall be set to provide a gas temperature no greater than 160 °C. An oxygen or carbon dioxide measurement shall be obtained simultaneously with each Method 5 run.

40cfr60.58b(c)(4) [NA - CO2 CORRECTION NOT USED]

40cfr60.58b(c)(5)
As specified under §60.8 of subpart A of this part, all performance tests shall consist of three test runs. The average of the particulate matter emission concentrations from the three test runs is used to determine compliance.

40cfr60.58b(c)(6)
In accordance with paragraphs (c)(7) and (c)(11) of this section, EPA Reference Method 9 shall be used for determining compliance with the opacity limit except as provided under §60.11(e) of subpart A of this part.

40cfr60.58b(c)(7) [NA - REQUIREMENT PREVIOUSLY FULFILLED]

40cfr60.58b(c)(8)
The owner or operator of an affected facility shall install, calibrate, maintain, and operate a continuous opacity monitoring system for measuring opacity and shall follow the methods and procedures specified in paragraphs (c)(8)(i) through (c)(8)(iv) of this section.

40cfr60.58b(c)(8)(i)
The output of the continuous opacity monitoring system shall be recorded on a 6-minute average basis.

40cfr60.58b(c)(8)(ii)

SECTION E. Source Group Restrictions.

The continuous opacity monitoring system shall be installed, evaluated, and operated in accordance with §60.13 of subpart A of this part.

40cfr60.58b(c)(8)(iii)
The continuous opacity monitoring system shall conform to Performance Specification 1 in appendix B of this part.

40cfr60.58b(c)(8)(iv) [NA - REQUIREMENT PREVIOUSLY FULFILLED]

40cfr60.58b(c)(9)
Following the date that the initial performance test for particulate matter is completed or is required to be completed under §60.8 of subpart A of this part for an affected facility, the owner or operator shall conduct a performance test for particulate matter on a calendar year basis (no less than 9 calendar months and no more than 15 calendar months following the previous performance test; and must complete five performance tests in each 5-year calendar period).

40cfr60.58b(c)(10) [NA - NO CEM FOR PARTICULATE MATTER]

40cfr60.58b(c)(11)
Following the date that the initial performance test for opacity is completed or is required to be completed under §60.8 of subpart A of this part for an affected facility, the owner or operator shall conduct a performance test for opacity on an annual basis (no less than 9 calendar months and no more than 15 calendar months following the previous performance test; and must complete five performance tests in each 5-year calendar period) using the test method specified in paragraph (c)(6) of this section.

METALS MONITORING

40cfr60.58b(d)
The procedures and test methods specified in paragraphs (d)(1) and (d)(2) of this section shall be used to determine compliance with the emission limits for cadmium, lead, and mercury under §60.52b(a).

40cfr60.58b(d)(1)
The procedures and test methods specified in paragraphs (d)(1)(i) through (d)(1)(ix) of this section shall be used to determine compliance with the emission limits for cadmium and lead under §60.52b(a) (3) and (4).

40cfr60.58b(d)(1)(i)
The EPA Reference Method 1 shall be used for determining the location and number of sampling points.

40cfr60.58b(d)(1)(ii)
The EPA Reference Method 3, 3A, or 3B, or as an alternative ASME PTC-19-10-1981-part10, as applicable, shall be used for flue gas analysis.

40cfr60.58b(d)(1)(iii)
The EPA Reference Method 29 shall be used for determining compliance with the cadmium and lead emission limits.

40cfr60.58b(d)(1)(iv)
An oxygen or carbon dioxide measurement shall be obtained simultaneously with each Method 29 test run for cadmium and lead required under paragraph (d)(1)(iii) of this section.

40cfr60.58b(d)(1)(v) [NA - CO2 CORRECTION NOT USED]

40cfr60.58b(d)(1)(vi)
All performance tests shall consist of a minimum of three test runs conducted under representative full load operating conditions. The average of the cadmium or lead emission concentrations from three test runs or more shall be used to determine compliance.

40cfr60.58b(d)(1)(vii)
Following the date of the initial performance test or the date on which the initial performance test is required to be completed under §60.8 of subpart A of this part, the owner or operator of an affected facility shall conduct a performance test

SECTION E. Source Group Restrictions.

for compliance with the emission limits for cadmium and lead on a calendar year basis (no less than 9 calendar months and no more than 15 calendar months following the previous performance test; and must complete five performance tests in each 5-year calendar period).

40cfr60.58b(d)(1)(viii) [Reserved]

40cfr60.58b(d)(2)
The procedures and test methods specified in paragraphs (d)(2)(i) through (d)(2)(xi) of this section shall be used to determine compliance with the mercury emission limit under §60.52b(a)(5).

40cfr60.58b(d)(2)(i)
The EPA Reference Method 1 shall be used for determining the location and number of sampling points.

40cfr60.58b(d)(2)(ii)
The EPA Reference Method 3, 3A, or 3B, or as an alternative ASME PTC-19-10-1981-part10, as applicable, shall be used for flue gas analysis.

40cfr60.58b(d)(2)(iii)
The EPA Reference Method 29 or as an alternative ASTM D6784-02 shall be used to determine the mercury emission concentration. The minimum sample volume when using Method 29 as an alternative ASTM D6784-02 for mercury shall be 1.7 cubic meters.

40cfr60.58b(d)(2)(iv)
An oxygen (or carbon dioxide) measurement shall be obtained simultaneously with each Method 29 or as an alternative ASTM D6784-02 test run for mercury required under paragraph (d)(2)(iii) of this section.

40cfr60.58b(d)(2)(v)
The percent reduction in the potential mercury emissions (%PHg) is computed using equation 1:

where: %PHg = [(Ei - Eo)/Ei] X 100

%PHg= percent reduction of the potential mercury emissions achieved.
Ei= potential mercury emission concentration measured at the control device inlet, corrected to 7 percent oxygen (dry basis).
Eo= controlled mercury emission concentration measured at the mercury control device outlet, corrected to 7 percent oxygen (dry basis).

40cfr60.58b(d)(2)(vi)
All performance tests shall consist of a minimum of three test runs conducted under representative full load operating conditions. The average of the mercury emission concentrations or percent reductions from three test runs or more is used to determine compliance.

40cfr60.58b(d)(2)(vii) [NA - CO2 CORRECTION NOT USED]

40cfr60.58b(d)(2)(viii) [NA - REQUIREMENT PREVIOUSLY FULFILLED]

40cfr60.58b(d)(2)(ix)
Following the date that the initial performance test for mercury is completed or is required to be completed under §60.8 of subpart A of this part, the owner or operator of an affected facility shall conduct a performance test for mercury emissions on a calendar year basis (no less than 9 calendar months and no more than 15 calendar months from the previous performance test; and must complete five performance tests in each 5-year calendar period).

40cfr60.58b(d)(2)(x) [Reserved]

40cfr60.58b(d)(2)(xi)
The owner or operator of an affected facility where activated carbon injection is used to comply with the mercury emission limit shall follow the procedures specified in paragraph (m) of this section for measuring and calculating carbon usage.

SECTION E. Source Group Restrictions.

40cfr60.58b(d)(3) [NA - NO CONTINUOUS METALS MONITORING]

40cfr60.58b(d)(4) [NA - NO CONTINUOUS METALS MONITORING]

SO2 MONITORING

40cfr60.58b(e)
The procedures and test methods specified in paragraphs (e)(1) through (e)(14) of this section shall be used for determining compliance with the sulfur dioxide emission limit under §60.52b(b)(1).

40cfr60.58b(e)(1)
The EPA Reference Method 19, section 4.3, shall be used to calculate the daily geometric average sulfur dioxide emission concentration.

40cfr60.58b(e)(2)
The EPA Reference Method 19, section 5.4, shall be used to determine the daily geometric average percent reduction in the potential sulfur dioxide emission concentration.

40cfr60.58b(e)(3) [NA - CO2 CORRECTION NOT USED]

40cfr60.58b(e)(4) [NA - REQUIREMENT PREVIOUSLY FULFILLED]

40cfr60.58b(e)(5)
The owner or operator of an affected facility shall install, calibrate, maintain, and operate a continuous emission monitoring system for measuring sulfur dioxide emissions discharged to the atmosphere and record the output of the system.

40cfr60.58b(e)(6)
Following the date that the initial performance test for sulfur dioxide is completed or is required to be completed under §60.8 of subpart A of this part, compliance with the sulfur dioxide emission limit shall be determined based on the 24-hour daily geometric average of the hourly arithmetic average emission concentrations using continuous emission monitoring system outlet data if compliance is based on an emission concentration, or continuous emission monitoring system inlet and outlet data if compliance is based on a percent reduction.

40cfr60.58b(e)(7)
At a minimum, valid continuous monitoring system hourly averages shall be obtained as specified in paragraphs (e)(7)(i) and (e)(7)(ii) for 90 percent of the operating hours per calendar quarter and 95 percent of the operating days per calendar year that the affected facility is combusting municipal solid waste.

40cfr60.58b(e)(7)(i)
At least two data points per hour shall be used to calculate each 1-hour arithmetic average.

40cfr60.58b(e)(7)(ii)
Each sulfur dioxide 1-hour arithmetic average shall be corrected to 7 percent oxygen on an hourly basis using the 1-hour arithmetic average of the oxygen (or carbon dioxide) continuous emission monitoring system data.

40cfr60.58b(e)(8)
The 1-hour arithmetic averages required under paragraph (e)(6) of this section shall be expressed in parts per million corrected to 7 percent oxygen (dry basis) and used to calculate the 24-hour daily geometric average emission concentrations and daily geometric average emission percent reductions. The 1-hour arithmetic averages shall be calculated using the data points required under §60.13(e)(2) of subpart A of this part.

40cfr60.58b(e)(9)
All valid continuous emission monitoring system data shall be used in calculating average emission concentrations and percent reductions even if the minimum continuous emission monitoring system data requirements of paragraph (e)(7) of this section are not met.

40cfr60.58b(e)(10)

SECTION E. Source Group Restrictions.

The procedures under §60.13 of subpart A of this part shall be followed for installation, evaluation, and operation of the continuous emission monitoring system.

40cfr60.58b(e)(11) [NA - REQUIREMENT PREVIOUSLY FULFILLED]

40cfr60.58b(e)(12)
The continuous emission monitoring system shall be operated according to Performance Specification 2 in appendix B of this part. For sources that have actual inlet emissions less than 100 parts per million dry volume, the relative accuracy criterion for inlet sulfur dioxide continuous emission monitoring systems should be no greater than 20 percent of the mean value of the reference method test data in terms of the units of the emission standard, or 5 parts per million dry volume absolute value of the mean difference between the reference method and the continuous emission monitoring systems, whichever is greater.

40cfr60.58b(e)(12)(i)
During each relative accuracy test run of the continuous emission monitoring system required by Performance Specification 2 in appendix B of this part, sulfur dioxide and oxygen (or carbon dioxide) data shall be collected concurrently (or within a 30- to 60-minute period) by both the continuous emission monitors and the test methods specified in paragraphs (e)(12)(i)(A) and (e)(12)(i)(B) of this section.

40cfr60.58b(e)(12)(i)(A)
For sulfur dioxide, EPA Reference Method 6, 6A, or 6C, or as an alternative ASME PTC-19-10-1981-part10, shall be used.

40cfr60.58b(e)(12)(i)(B)
For oxygen (or carbon dioxide), EPA Reference Method 3, 3A, or 3B, or as an alternative ASME PTC-19-10-1981-part10, as applicable, shall be used.

40cfr60.58b(e)(12)(ii)
The span value of the continuous emissions monitoring system at the inlet to the sulfur dioxide control device shall be 125 percent of the maximum estimated hourly potential sulfur dioxide emissions of the municipal waste combustor unit. The span value of the continuous emission monitoring system at the outlet of the sulfur dioxide control device shall be 50 percent of the maximum estimated hourly potential sulfur dioxide emissions of the municipal waste combustor unit.

40cfr60.58b(e)(13)
Quarterly accuracy determinations and daily calibration drift tests shall be performed in accordance with procedure 1 in appendix F of this part.

40cfr60.58b(e)(14)
When sulfur dioxide emissions data are not obtained because of continuous emission monitoring system breakdowns, repairs, calibration checks, and/or zero and span adjustments, emissions data shall be obtained by using other monitoring systems as approved by EPA or EPA Reference Method 19 to provide, as necessary, valid emissions data for a minimum of 90 percent of the hours per calendar quarter and 95 percent of the hours per calendar year that the affected facility is operated and combusting municipal solid waste.

HCL MONITORING

40cfr60.58b(f)
The procedures and test methods specified in paragraphs (f)(1) through (f)(8) of this section shall be used for determining compliance with the hydrogen chloride emission limit under §60.52b(b)(2).

40cfr60.58b(f)(1)
The EPA Reference Method 26 or 26A, as applicable, shall be used to determine the hydrogen chloride emission concentration. The minimum sampling time shall be 1 hour.

40cfr60.58b(f)(2)
An oxygen (or carbon dioxide) measurement shall be obtained simultaneously with each test run for hydrogen chloride required by paragraph (f)(1) of this section.

SECTION E. Source Group Restrictions.

40cfr60.58(b)(f)(3)
The percent reduction in potential hydrogen chloride emissions (% PHCl) is computed using equation 2:

%PHCl = Ei - Eo/Ei x x100 (2)

where:

%PHCl=percent reduction of the potential hydrogen chloride emissions achieved.

Ei=potential hydrogen chloride emission concentration measured at the control device inlet, corrected to 7 percent oxygen (dry basis).

Eo=controlled hydrogen chloride emission concentration measured at the control device outlet, corrected to 7 percent oxygen (dry basis).

40cfr60.58b(f)(4)
The owner or operator of an affected facility may request that compliance with the hydrogen chloride emission limit be determined using carbon dioxide measurements corrected to an equivalent of 7 percent oxygen. The relationship between oxygen and carbon dioxide levels for the affected facility shall be established as specified in paragraph (b)(6) of this section.

40cfr60.58b(f)(5)
As specified under §60.8 of subpart A of this part, all performance tests shall consist of three test runs. The average of the hydrogen chloride emission concentrations or percent reductions from the three test runs is used to determine compliance.

40cfr60.58b(f)(6)
The owner or operator of an affected facility shall conduct an initial performance test for hydrogen chloride as required under §60.8 of subpart A of this part.

40cfr60.58b(f)(7)
Following the date that the initial performance test for hydrogen chloride is completed or is required to be completed under §60.8 of subpart A of this part, the owner or operator of an affected facility shall conduct a performance test for hydrogen chloride emissions on an annual basis (no more than 12 calendar months following the previous performance test).

40cfr60.58b(f)(8) [NA - HCL CEMS NOT USED FOR FEDERAL PURPOSES]

D/F MONITORING

40cfr60.58b(g)
The procedures and test methods specified in paragraphs (g)(1) through (g)(9) of this section shall be used to determine compliance with the limits for dioxin/furan emissions under §60.52b(c).

40cfr60.58b(g)(1)
The EPA Reference Method 1 shall be used for determining the location and number of sampling points.

40cfr60.58b(g)(2)
The EPA Reference Method 3, 3A, or 3B, or as an alternative ASME PTC-19-10 - 1981- part10, as applicable, shall be used for flue gas analysis.

40cfr60.58b(g)(3)
The EPA Reference Method 23 shall be used for determining the dioxin/furan emission concentration.

40cfr60.58b(g)(3)(i)
The minimum sample time shall be 4 hours per test run.

SECTION E. Source Group Restrictions.

40cfr60.58b(g)(3)(ii)
An oxygen (or carbon dioxide) measurement shall be obtained simultaneously with each Method 23 test run for dioxins/furans.

40cfr60.58b(g)(4) [NA - REQUIREMENT PREVIOUSLY FULFILLED]

40cfr60.58b(g)(5)
Following the date that the initial performance test for dioxins/furans is completed or is required to be completed under §60.8 of subpart A of this part, the owner or operator of an affected facility shall conduct performance tests for dioxin/furan emissions in accordance with paragraph (g)(3) of this section, according to one of the schedules specified in paragraphs (g)(5)(i) through (g)(5)(iii) of this section.

40cfr60.58b(g)(5)(i)
For affected facilities, performance tests shall be conducted on a calendar year basis (no less than 9 calendar months and no more than 15 calendar months following the previous performance test; and must complete five performance tests in each 5-year calendar period).

40cfr60.58b(g)(5)(ii)
For the purpose of evaluating system performance to establish new operating parameter levels, testing new technology or control technologies, diagnostic testing, or related activities for the purpose of improving facility performance or advancing the state-of-the-art for controlling facility emissions, the owner or operator of an affected facility that qualifies for the performance testing schedule specified in paragraph (g)(5)(iii) of this section, may test one unit for dioxin/furan and apply the dioxin/furan operating parameters to similarly designed and equipped units on site by meeting the requirements specified in paragraphs (g)(5)(ii)(A) through (g)(5)(ii)(D) of this section.

40cfr60.58b(g)(5)(ii)(A)
Follow the testing schedule established in paragraph (g)(5)(iii) of this section. For example, each year a different affected facility at the municipal waste combustor plant shall be tested, and the affected facilities at the plant shall be tested in sequence (e.g., unit 1, unit 2, unit 3, as applicable).

40cfr60.58b(g)(5)(ii)(B)
Upon meeting the requirements in paragraph (g)(5)(iii) of this section for one affected facility, the owner or operator may elect to apply the average carbon mass feed rate and associated carbon injection system operating parameter levels for dioxin/furan as established in paragraph (m) of this section to similarly designed and equipped units on site.

40cfr60.58b(g)(5)(ii)(C)
Upon testing each subsequent unit in accordance with the testing schedule established in paragraph (g)(5)(iii) of this section, the dioxin/furan and mercury emissions of the subsequent unit shall not exceed the dioxin/furan and mercury emissions measured in the most recent test of that unit prior to the revised operating parameter levels.

40cfr60.58b(g)(5)(ii)(D)
The owner or operator of an affected facility that selects to follow the performance testing schedule specified in paragraph (g)(5)(iii) of this section and apply the carbon injection system operating parameters to similarly designed and equipped units on site shall follow the procedures specified in §60.59b(g)(4) for reporting.

40cfr60.58b(g)(5)(iii)
Where all performance tests over a 2-year period indicate that dioxin/furan emissions are less than or equal to 7 nanograms per dry standard cubic meter (total mass) for all affected facilities located within a municipal waste combustor plant, the owner or operator of the municipal waste combustor plant may elect to conduct annual performance tests for one affected facility (i.e., unit) per year at the municipal waste combustor plant. At a minimum, a performance test for dioxin/furan emissions shall be conducted on a calendar year basis (no less than 9 calendar months and no more than 15 months following the previous performance test; and must complete five performance tests in each 5-year calendar period) for one affected facility at the municipal waste combustor plant. Each year a different affected facility at the municipal waste combustor plant shall be tested, and the affected facilities at the plant shall be tested in sequence (e.g., unit 1, unit 2, unit 3, as applicable). If each annual performance test continues to indicate a dioxin/furan emission level less than or equal to 7 nanograms per dry standard cubic meter (total mass), the owner or operator may continue conducting a performance test on only one affected facility per calendar year. If any annual performance test indicates either a dioxin/furan emission level

SECTION E. Source Group Restrictions.

greater than 7 nanograms per dry standard cubic meter (total mass), performance tests shall thereafter be conducted annually on all affected facilities at the plant until and unless all annual performance tests for all affected facilities at the plant over a 2-year period indicate a dioxin/furan emission level less than or equal to 7 nanograms per dry standard cubic meter (total mass).

40cfr60.58b(g)(6)
The owner or operator of an affected facility that selects to follow the performance testing schedule specified in paragraph (g)(5)(iii) of this section shall follow the procedures specified in §60.59b(g)(4) for reporting the selection of this schedule.

40cfr60.58b(g)(7)
The owner or operator of an affected facility where activated carbon is used shall follow the procedures specified in paragraph (m) of this section for measuring and calculating the carbon usage rate.

40cfr60.58b(g)(8) [NA - CO2 CORRECTION NOT USED]

40cfr60.58b(g)(9)
As specified under §60.8 of subpart A of this part, all performance tests shall consist of three test runs. The average of the dioxin/furan emission concentrations from the three test runs is used to determine compliance.

40cfr60.58b(g)(10) [NA - NO CEM FOR DIOXIN/FURANS]

NOX MONITORING

40cfr60.58b(h)
The procedures and test methods specified in paragraphs (h)(1) through (h)(12) of this section shall be used to determine compliance with the nitrogen oxides emission limit for affected facilities under §60.52b(d).

40cfr60.58b(h)(1)
The EPA Reference Method 19, section 4.1, shall be used for determining the daily arithmetic average nitrogen oxides emission concentration.

40cfr60.58b(h)(2) [NA - CO2 CORRECTION NOT USED]

40cfr60.58b(h)(3) [NA - REQUIREMENT PREVIOUSLY FULFILLED]

40cfr60.58b(h)(4)
The owner or operator of an affected facility subject to the nitrogen oxides emission limit under §60.52b(d) shall install, calibrate, maintain, and operate a continuous emission monitoring system for measuring nitrogen oxides discharged to the atmosphere, and record the output of the system.

40cfr60.58b(h)(5)
Following the date that the initial performance test for nitrogen oxides is completed or is required to be completed under §60.8 of subpart A of this part, compliance with the emission limit for nitrogen oxides required under §60.52b(d) shall be determined based on the 24-hour daily arithmetic average of the hourly emission concentrations using continuous emission monitoring system outlet data.

40cfr60.58b(h)(6)
At a minimum, valid continuous emission monitoring system hourly averages shall be obtained as specified in paragraphs (h)(6)(i) and (h)(6)(ii) of this section for 90 percent of the operating hours per calendar quarter and for 95 percent of the operating hours per calendar year that the affected facility is combusting municipal solid waste.

40cfr60.58b(h)(6)(i)
At least 2 data points per hour shall be used to calculate each 1-hour arithmetic average.

40cfr60.58b(h)(6)(ii)
Each nitrogen oxides 1-hour arithmetic average shall be corrected to 7 percent oxygen on an hourly basis using the 1-hour arithmetic average of the oxygen (or carbon dioxide) continuous emission monitoring system data.

SECTION E. Source Group Restrictions.

40cfr60.58b(h)(7)
The 1-hour arithmetic averages required by paragraph (h)(5) of this section shall be expressed in parts per million by volume (dry basis) and used to calculate the 24-hour daily arithmetic average concentrations. The 1-hour arithmetic averages shall be calculated using the data points required under §60.13(e)(2) of subpart A of this part.

40cfr60.58b(h)(8)
All valid continuous emission monitoring system data must be used in calculating emission averages even if the minimum continuous emission monitoring system data requirements of paragraph (h)(6) of this section are not met.

40cfr60.58b(h)(9)
The procedures under §60.13 of subpart A of this part shall be followed for installation, evaluation, and operation of the continuous emission monitoring system. The initial performance evaluation shall be completed no later than 180 days after the date of initial startup of the municipal waste combustor unit, as specified under §60.8 of subpart A of this part.

40cfr60.58b(h)(10)
The owner or operator of an affected facility shall operate the continuous emission monitoring system according to Performance Specification 2 in appendix B of this part and shall follow the procedures and methods specified in paragraphs (h)(10)(i) and (h)(10)(ii) of this section.

40cfr60.58b(h)(10)(i)
During each relative accuracy test run of the continuous emission monitoring system required by Performance Specification 2 of appendix B of this part, nitrogen oxides and oxygen (or carbon dioxide) data shall be collected concurrently (or within a 30- to 60-minute period) by both the continuous emission monitors and the test methods specified in paragraphs (h)(10)(i)(A) and (h)(10)(i)(B) of this section.

40cfr60.58b(h)(10)(i)(A)
For nitrogen oxides, EPA Reference Method 7, 7A, 7C, 7D, or 7E shall be used.

40cfr60.58b(h)(10)(i)(B)
For oxygen (or carbon dioxide), EPA Reference Method 3, 3A, or 3B, or as an alternative ASME PTC-19-10-1981-part10, as applicable, shall be used.

40cfr60.58b(h)(10)(ii)
The span value of the continuous emission monitoring system shall be 125 percent of the maximum estimated hourly potential nitrogen oxide emissions of the municipal waste combustor unit.

40cfr60.58b(h)(11)
Quarterly accuracy determinations and daily calibration drift tests shall be performed in accordance with procedure 1 in appendix F of this part.

40cfr60.58b(h)(12)
When nitrogen oxides continuous emission data are not obtained because of continuous emission monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments, emissions data shall be obtained using other monitoring systems as approved by EPA or EPA Reference Method 19 to provide, as necessary, valid emissions data for a minimum of 90 percent of the hours per calendar quarter and 95 percent of the hours per calendar year the unit is operated and combusting municipal solid waste.

CO/STEAM FLOW MONITORING

40cfr60.58b(i)
The procedures specified in paragraphs (i)(1) through (i)(12) of this section shall be used for determining compliance with the operating requirements under §60.53b.

40cfr60.58b(i)(1)
Compliance with the carbon monoxide emission limits in §60.53b(a) shall be determined using a 4-hour block arithmetic average for all types of affected facilities except mass burn rotary waterwall municipal waste combustors and refuse-derived fuel stokers.

SECTION E. Source Group Restrictions.

40cfr60.58b(i)(2)
For affected mass burn rotary waterwall municipal waste combustors and refuse-derived fuel stokers, compliance with the carbon monoxide emission limits in §60.53b(a) shall be determined using a 24-hour daily arithmetic average.

40cfr60.58b(i)(3)
The owner or operator of an affected facility shall install, calibrate, maintain, and operate a continuous emission monitoring system for measuring carbon monoxide at the combustor outlet and record the output of the system and shall follow the procedures and methods specified in paragraphs (i)(3)(i) through (i)(3)(iii) of this section.

40cfr60.58b(i)(3)(i)
The continuous emission monitoring system shall be operated according to Performance Specification 4A in appendix B of this part.

40cfr60.58b(i)(3)(ii)
During each relative accuracy test run of the continuous emission monitoring system required by Performance Specification 4A in appendix B of this part, carbon monoxide and oxygen (or carbon dioxide) data shall be collected concurrently (or within a 30- to 60-minute period) by both the continuous emission monitors and the test methods specified in paragraphs (i)(3)(ii)(A) and (i)(3)(ii)(B) of this section. For affected facilities subject to the 100 parts per million dry volume carbon monoxide standard, the relative accuracy criterion of 5 parts per million dry volume is calculated as the absolute value of the mean difference between the reference method and continuous emission monitoring systems.

40cfr60.58b(i)(3)(ii)(A)
For carbon monoxide, EPA Reference Method 10, 10A, or 10B shall be used.

40cfr60.58b(i)(3)(ii)(B)
For oxygen (or carbon dioxide), EPA Reference Method 3, 3A, or 3B, or ASME PTC-19-10-1981-part10 (incorporated by reference, see §60.17 of subpart A of this part), as applicable, shall be used.

40cfr60.58b(i)(3)(iii)
The span value of the continuous emission monitoring system shall be 125 percent of the maximum estimated hourly potential carbon monoxide emissions of the municipal waste combustor unit.

40cfr60.58b(i)(4)
The 4-hour block and 24-hour daily arithmetic averages specified in paragraphs (i)(1) and (i)(2) of this section shall be calculated from 1-hour arithmetic averages expressed in parts per million by volume corrected to 7 percent oxygen (dry basis). The 1-hour arithmetic averages shall be calculated using the data points generated by the continuous emission monitoring system. At least two data points shall be used to calculate each 1-hour arithmetic average.

40cfr60.58b(i)(5) [NA - CO2 CORRECTION NOT USED]

40cfr60.58b(i)(6)
The procedures specified in paragraphs (i)(6)(i) through (i)(6)(v) of this section shall be used to determine compliance with load level requirements under §60.53b(b).

40cfr60.58b(i)(6)(i)
The owner or operator of an affected facility with steam generation capability shall install, calibrate, maintain, and operate a steam flow meter or a feedwater flow meter; measure steam (or feedwater) flow in kilograms per hour (or pounds per hour) on a continuous basis; and record the output of the monitor. Steam (or feedwater) flow shall be calculated in 4-hour block arithmetic averages.

40cfr60.58b(i)(6)(ii)
The method included in the American Society of Mechanical Engineers Power Test Codes: Test Code for Steam Generating Units, Power Test Code 4.1-1964 (R1991)- section 4 (incorporated by reference, see §60.17 of subpart A of this part) shall be used for calculating the steam (or feedwater) flow required under paragraph (i)(6)(i) of this section. The recommendations in - American Society of Mechanical Engineers Interim Supplement 19.5 on Instruments and Apparatus: Application, partII of Fluid Meters, 6th edition (1971), - chapter 4 (incorporated by reference-see §60.17 of subpart A of this part) shall be followed for design, construction, installation, calibration, and use of nozzles and orifices except as specified

SECTION E. Source Group Restrictions.

in (i)(6)(iii) of this section.

40cfr60.58b(i)(6)(iii)
Measurement devices such as flow nozzles and orifices are not required to be recalibrated after they are installed.

40cfr60.58b(i)(6)(iv)
All signal conversion elements associated with steam (or feedwater flow) measurements must be calibrated according to the manufacturer's instructions before each dioxin/furan performance test, and at least once per year.

40cfr60.58b(i)(7)
To determine compliance with the maximum particulate matter control device temperature requirements under §60.53b(c), the owner or operator of an affected facility shall install, calibrate, maintain, and operate a device for measuring on a continuous basis the temperature of the flue gas stream at the inlet to each particulate matter control device utilized by the affected facility. Temperature shall be calculated in 4-hour block arithmetic averages.

40cfr60.58b(i)(8)
The maximum demonstrated municipal waste combustor unit load shall be determined during the initial performance test for dioxins/furans and each subsequent performance test during which compliance with the dioxin/furan emission limit specified in §60.52b(c) is achieved. The maximum demonstrated municipal waste combustor unit load shall be the highest 4-hour arithmetic average load achieved during four consecutive hours during the most recent test during which compliance with the dioxin/furan emission limit was achieved. If a subsequent dioxin/furan performance test is being performed on only one affected facility at the MWC plant, as provided in paragraph (g)(5)(iii) of this section, the owner or operator may elect to apply the same maximum municipal waste combustor unit load from the tested facility for all the similarly designed and operated affected facilities at the MWC plant.

40cfr60.58b(i)(9)
For each particulate matter control device employed at the affected facility, the maximum demonstrated particulate matter control device temperature shall be determined during the initial performance test for dioxins/furans and each subsequent performance test during which compliance with the dioxin/furan emission limit specified in §60.52b(c) is achieved. The maximum demonstrated particulate matter control device temperature shall be the highest 4-hour arithmetic average temperature achieved at the particulate matter control device inlet during four consecutive hours during the most recent test during which compliance with the dioxin/furan limit was achieved. If a subsequent dioxin/furan performance test is being performed on only one affected facility at the MWC plant, as provided in paragraph (g)(5)(iii) of this section, the owner or operator may elect to apply the same maximum particulate matter control device temperature from the tested facility for all the similarly designed and operated affected facilities at the MWC plant.

40cfr60.58b(i)(10)
At a minimum, valid continuous emission monitoring system hourly averages shall be obtained as specified in paragraphs (i)(10)(i) and (i)(10)(ii) of this section for at least 90 percent of the operating hours per calendar quarter and 95 percent of the operating hours per calendar year that the affected facility is combusting municipal solid waste.

40cfr60.58b(i)(10)(i)
At least two data points per hour shall be used to calculate each 1-hour arithmetic average.

40cfr60.58b(i)(10)(ii)
At a minimum, each carbon monoxide 1-hour arithmetic average shall be corrected to 7 percent oxygen on an hourly basis using the 1-hour arithmetic average of the oxygen (or carbon dioxide) continuous emission monitoring system data.

40cfr60.58b(i)(11)
All valid continuous emission monitoring system data must be used in calculating the parameters specified under paragraph (i) of this section even if the minimum data requirements of paragraph (i)(10) of this section are not met. When carbon monoxide continuous emission data are not obtained because of continuous emission monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments, emissions data shall be obtained using other monitoring systems as approved by EPA or EPA Reference Method 10 to provide, as necessary, the minimum valid emission data.

40cfr60.58b(i)(12)

SECTION E. Source Group Restrictions.

Quarterly accuracy determinations and daily calibration drift tests for the carbon monoxide continuous emission monitoring system shall be performed in accordance with procedure 1 in appendix F of this part.

CALCULATIONS FOR UNIT CAPACITY

40cfr60.58b(j)
The procedures specified in paragraphs (j)(1) and (j)(2) of this section shall be used for calculating municipal waste combustor unit capacity as defined under §60.51b.

40cfr60.58b(j)(1)
For municipal waste combustor units capable of combusting municipal solid waste continuously for a 24-hour period, municipal waste combustor unit capacity shall be calculated based on 24 hours of operation at the maximum charging rate. The maximum charging rate shall be determined as specified in paragraphs (j)(1)(i) and (j)(1)(ii) of this section as applicable.

40cfr60.58b(j)(1)(i)
For combustors that are designed based on heat capacity, the maximum charging rate shall be calculated based on the maximum design heat input capacity of the unit and a heating value of 12,800 kilojoules per kilogram for combustors firing refuse-derived fuel and a heating value of 10,500 kilojoules per kilogram for combustors firing municipal solid waste that is not refuse-derived fuel.

40cfr60.58b(j)(1)(ii)
For combustors that are not designed based on heat capacity, the maximum charging rate shall be the maximum design charging rate.

40cfr60.58b(j)(2) [NA - NOT A BATCH UNIT]

FUGITIVE ASH MONITORING

40cfr60.58b(k)
The procedures specified in paragraphs (k)(1) through (k)(4) of this section shall be used for determining compliance with the fugitive ash emission limit under §60.55b.

40cfr60.58b(k)(1)
The EPA Reference Method 22 shall be used for determining compliance with the fugitive ash emission limit under §60.55b. The minimum observation time shall be a series of three 1-hour observations. The observation period shall include times when the facility is transferring ash from the municipal waste combustor unit to the area where ash is stored or loaded into containers or trucks.

40cfr60.58b(k)(2)
The average duration of visible emissions per hour shall be calculated from the three 1-hour observations. The average shall be used to determine compliance with §60.55b.

40cfr60.58b(k)(3) [NA - REQUIREMENT PREVIOUSLY FULFILLED]

40cfr60.58b(k)(4)
Following the date that the initial performance test for fugitive ash emissions is completed or is required to be completed under §60.8 of subpart A of this part for an affected facility, the owner or operator shall conduct a performance test for fugitive ash emissions on an annual basis (no more than 12 calendar months following the previous performance test).

40cfr60.58b(l) [NA - NO AIR CURTAIN DESTRUCTOR]

CARBON INJECTION MONITORING

40cfr60.58b(m)
The owner or operator of an affected facility where activated carbon injection is used to comply with the mercury emission limit under §60.52b(a)(5), and/or the dioxin/furan emission limits under §60.52(b)(c), or the dioxin/furan emission level

SECTION E. Source Group Restrictions.

specified in paragraph (g)(5)(iii) of this section shall follow the procedures specified in paragraphs (m)(1) through (m)(4) of this section.

40cfr60.58b(m)(1)
During the performance tests for dioxins/furans and mercury, as applicable, the owner or operator shall estimate an average carbon mass feed rate based on carbon injection system operating parameters such as the screw feeder speed, hopper volume, hopper refill frequency, or other parameters appropriate to the feed system being employed, as specified in paragraphs (m)(1)(i) and (m)(1)(ii) of this section.

40cfr60.58b(m)(1)(i)
An average carbon mass feed rate in kilograms per hour or pounds per hour shall be estimated during the initial performance test for mercury emissions and each subsequent performance test for mercury emissions.

40cfr60.58b(m)(1)(ii)
An average carbon mass feed rate in kilograms per hour or pounds per hour shall be estimated during the initial performance test for dioxin/furan emissions and each subsequent performance test for dioxin/furan emissions. If a subsequent dioxin/furan performance test is being performed on only one affected facility at the MWC plant, as provided in paragraph (g)(5)(iii) of this section, the owner or operator may elect to apply the same estimated average carbon mass feed rate from the tested facility for all the similarly designed and operated affected facilities at the MWC plant.

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[40cfr60.58b CONTINUED]

40cfr60.58b(m)(2)
During operation of the affected facility, the carbon injection system operating parameter(s) that are the primary indicator(s) of the carbon mass feed rate (e.g., screw feeder setting) shall be averaged over a block 8-hour period, and the 8-hour block average must equal or exceed the level(s) documented during the performance tests specified under paragraphs (m)(1)(i) and (m)(1)(ii) of this section, except as specified in paragraphs (m)(2)(i) and (m)(2)(ii) of this section.

40cfr60.58b(m)(2)(i)
During the annual dioxin/furan or mercury performance test and the 2 weeks preceding the annual dioxin/furan or mercury performance test, no limit is applicable for average mass carbon feed rate if the provisions of paragraph (m)(2)(ii) of this section are met.

40cfr60.58b(m)(2)(ii)
The limit for average mass carbon feed rate may be waived in accordance with permission granted by the Administrator for the purpose of evaluating system performance, testing new technology or control technologies, diagnostic testing, or related activities for the purpose of improving facility performance or advancing the state-of-the-art for controlling facility emissions.

40cfr60.58b(m)(3)
The owner or operator of an affected facility shall estimate the total carbon usage of the plant (kilograms or pounds) for each calendar quarter by two independent methods, according to the procedures in paragraphs (m)(3)(i) and (m)(3)(ii) of this section.

40cfr60.58b(m)(3)(i)
The weight of carbon delivered to the plant.

40cfr60.58b(m)(3)(ii)
Estimate the average carbon mass feed rate in kilograms per hour or pounds per hour for each hour of operation for each affected facility based on the parameters specified under paragraph (m)(1) of this section, and sum the results for all affected facilities at the plant for the total number of hours of operation during the calendar quarter.

40cfr60.58b(m)(4)
Pneumatic injection pressure or other carbon injection system operational indicator shall be used to provide additional verification of proper carbon injection system operation. The operational indicator shall provide an instantaneous visual

SECTION E. Source Group Restrictions.

and/or audible alarm to alert the operator of a potential interruption in the carbon feed that would not normally be indicated by direct monitoring of carbon mass feed rate (e.g., continuous weight loss feeder) or monitoring of the carbon system operating parameter(s) that are the indicator(s) of carbon mass feed rate (e.g., screw feeder speed). The carbon injection system operational indicator used to provide additional verification of carbon injection system operation, including basis for selecting the indicator and operator response to the indicator alarm, shall be included in section (e)(6) of the site-specific operating manual required under §60.54b(e) of this subpart.

ADDITIONAL HCL MONITORING PROVISIONS

40cfr60.58b(n) [NA - STACK TESTING USED IN LIEU OF CEMS]

40cfr60.58b(o) [NA - STACK TESTING USED IN LIEU OF CEMS]

40cfr60.58b(p) [NA - NO CONTINUOUS AUTOMATED SAMPLING SYSTEM]

40cfr60.58b(q) [NA - NO CONTINUOUS AUTOMATED SAMPLING SYSTEM]

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.

 # 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Reporting and recordkeeping requirements

40cfr60.59b(a) [NA - REQUIREMENT PREVIOUSLY FULFILLED]

40cfr60.59b(b) [NA - REQUIREMENT PREVIOUSLY FULFILLED]

40cfr60.59b(c) [NA - NO AIR CURTAIN DESTRUCTOR]

40cfr60.59b(d)
The owner or operator of an affected facility subject to the standards under §§60.52b, 60.53b, 60.54b, 60.55b, and 60.57b shall maintain records of the information specified in paragraphs (d)(1) through (d)(15) of this section, as applicable, for each affected facility for a period of at least 5 years.

40cfr60.59b(d)(1)
The calendar date of each record.

40cfr60.59b(d)(2)
The emission concentrations and parameters measured using continuous monitoring systems as specified under paragraphs (d)(2)(i) and (d)(2)(ii) of this section.

40cfr60.59b(d)(2)(i)
The measurements specified in paragraphs (d)(2)(i)(A) through (d)(2)(i)(F) of this section shall be recorded and be available for submittal to the Administrator or review on site by an EPA or State inspector.

40cfr60.59b(d)(2)(i)(A)
All 6-minute average opacity levels as specified under §60.58b(c).

40cfr60.59b(d)(2)(i)(B)
All 1-hour average sulfur dioxide emission concentrations as specified under §60.58b(e).

40cfr60.59b(d)(2)(i)(C)

SECTION E. Source Group Restrictions.

All 1-hour average nitrogen oxides emission concentrations as specified under §60.58b(h).

40cfr60.59b(d)(2)(i)(D)
All 1-hour average carbon monoxide emission concentrations, municipal waste combustor unit load measurements, and particulate matter control device inlet temperatures as specified under §60.58b(i).

40cfr60.59b(d)(2)(i)(E) [NA - HCL CEMS NOT USED FOR FEDERAL PURPOSES]

40cfr60.59b(d)(2)(ii)
The average concentrations and percent reductions, as applicable, specified in paragraphs (d)(2)(ii)(A) through (d)(2)(ii)(F) of this section shall be computed and recorded, and shall be available for submittal to the Administrator or review on-site by an EPA or State inspector.

40cfr60.59b(d)(2)(ii)(A)
All 24-hour daily geometric average sulfur dioxide emission concentrations and all 24-hour daily geometric average percent reductions in sulfur dioxide emissions as specified under §60.58b(e).

40cfr60.59b(d)(2)(ii)(B)
All 24-hour daily arithmetic average nitrogen oxides emission concentrations as specified under §60.58b(h).

40cfr60.59b(d)(2)(ii)(C)
All 4-hour block or 24-hour daily arithmetic average carbon monoxide emission concentrations, as applicable, as specified under §60.58b(i).

40cfr60.59b(d)(2)(ii)(D)
All 4-hour block arithmetic average municipal waste combustor unit load levels and particulate matter control device inlet temperatures as specified under §60.58b(i).

40cfr60.59b(d)(2)(ii)(E) [NA - HCL CEMS NOT USED FOR FEDERAL PURPOSES]

40cfr60.59b(d)(2)(ii)(F) [NA - NO CONTINUOUS AUTOMATED SAMPLING SYSTEM]

40cfr60.59b(d)(3)
Identification of the calendar dates when any of the average emission concentrations, percent reductions, or operating parameters recorded under paragraphs (d)(2)(ii)(A) through (d)(2)(ii)(F) of this section, or the opacity levels recorded under paragraph (d)(2)(i)(A) of this section are above the applicable limits, with reasons for such exceedances and a description of corrective actions taken.

40cfr60.59b(d)(4)
For affected facilities that apply activated carbon for mercury or dioxin/furan control, the records specified in paragraphs (d)(4)(i) through (d)(4)(v) of this section.

40cfr60.59b(d)(4)(i)
The average carbon mass feed rate (in kilograms per hour or pounds per hour) estimated as required under §60.58b(m)(1)(i) of this section during the initial mercury performance test and all subsequent annual performance tests, with supporting calculations.

40cfr60.59b(d)(4)(ii)
The average carbon mass feed rate (in kilograms per hour or pounds per hour) estimated as required under §60.58b(m)(1)(ii) of this section during the initial dioxin/furan performance test and all subsequent annual performance tests, with supporting calculations.

40cfr60.59b(d)(4)(iii)
The average carbon mass feed rate (in kilograms per hour or pounds per hour) estimated for each hour of operation as required under §60.58b(m)(3)(ii) of this section, with supporting calculations.

40cfr60.59b(d)(4)(iv)

SECTION E. Source Group Restrictions.

The total carbon usage for each calendar quarter estimated as specified by paragraph 60.58b(m)(3) of this section, with supporting calculations.

40cfr60.59b(d)(4)(v)
Carbon injection system operating parameter data for the parameter(s) that are the primary indicator(s) of carbon feed rate (e.g., screw feeder speed).

40cfr60.59b(d)(5)
[Reserved]

40cfr60.59b(d)(6)
Identification of the calendar dates and times (hours) for which valid hourly data specified in paragraphs (d)(6)(i) through (d)(6)(vi) of this section have not been obtained, or continuous automated sampling systems were not operated as specified in paragraph (d)(6)(vii) of this section, including reasons for not obtaining the data and a description of corrective actions taken.

40cfr60.59b(d)(6)(i)
Sulfur dioxide emissions data;

40cfr60.59b(d)(6)(ii)
Nitrogen oxides emissions data;

40cfr60.59b(d)(6)(iii)
Carbon monoxide emissions data;

40cfr60.59b(d)(6)(iv)
Municipal waste combustor unit load data;

40cfr60.59b(d)(6)(v)
Particulate matter control device temperature data; and

40cfr60.59b(d)(6)(vi) [NA - HCL CEMS NOT USED FOR FEDERAL PURPOSES]

40cfr60.59b(d)(6)(vii) [NA - NO CONTINUOUS AUTOMATED SAMPLING SYSTEM]

40cfr60.59b(d)(7)
Identification of each occurrence that sulfur dioxide emissions data, nitrogen oxides emissions data, particulate matter emissions data, cadmium emissions data, lead emissions data, mercury emissions data, hydrogen chloride emissions data, or dioxin/furan emissions data (for owners and operators who elect to continuously monitor particulate matter, cadmium, lead, mercury, or hydrogen chloride, or who elect to use continuous automated sampling systems for dioxin/furan or mercury emissions, instead of conducting performance testing using EPA manual test methods) or operational data (i.e., carbon monoxide emissions, unit load, and particulate matter control device temperature) have been excluded from the calculation of average emission concentrations or parameters, and the reasons for excluding the data.

40cfr60.59b(d)(8)
The results of daily drift tests and quarterly accuracy determinations for sulfur dioxide, nitrogen oxides, and carbon monoxide continuous emission monitoring systems, as required under appendix F of this part, procedure 1.

40cfr60.59b(d)(9)
The test reports documenting the results of the initial performance test and all annual performance tests listed in paragraphs (d)(9)(i) and (d)(9)(ii) of this section shall be recorded along with supporting calculations.

40cfr60.59b(d)(9)(i)
The results of the initial performance test and all annual performance tests conducted to determine compliance with the particulate matter, opacity, cadmium, lead, mercury, dioxins/furans, hydrogen chloride, and fugitive ash emission limits.

40cfr60.59b(d)(9)(ii)

SECTION E. Source Group Restrictions.

For the initial dioxin/furan performance test and all subsequent dioxin/furan performance tests recorded under paragraph (d)(9)(i) of this section, the maximum demonstrated municipal waste combustor unit load and maximum demonstrated particulate matter control device temperature (for each particulate matter control device).

40cfr60.59b(d)(10)
An owner or operator who elects to continuously monitor emissions instead of performance testing by EPA manual methods must maintain records specified in paragraphs (10)(i) through (iii) of this section.

40cfr60.59b(d)(10)(i) [NA - NO CONTINUOUS PM MONITORING]

40cfr60.59b(d)(10)(ii) [NA - HCL CEMS NOT USED FOR FEDERAL PURPOSES]

40cfr60.59b(d)(10)(iii) [NA - NO CONTINUOUS AUTOMATED SAMPLING SYSTEMS]

40cfr60.59b(d)(11)
For each affected facility subject to the siting provisions under §60.57b, the siting analysis, the final materials separation plan, a record of the location and date of the public meetings, and the documentation of the responses to public comments received at the public meetings.

40cfr60.59b(d)(12)
The records specified in paragraphs (d)(12)(i) through (d)(12)(iv) of this section.

40cfr60.59b(d)(12)(i)
Records showing the names of the municipal waste combustor chief facility operator, shift supervisors, and control room operators who have been provisionally certified by the American Society of Mechanical Engineers or an equivalent State-approved certification program as required by §60.54b(a) including the dates of initial and renewal certifications and documentation of current certification.

40cfr60.59b(d)(12)(ii)
Records showing the names of the municipal waste combustor chief facility operator, shift supervisors, and control room operators who have been fully certified by the American Society of Mechanical Engineers or an equivalent State-approved certification program as required by §60.54b(b) including the dates of initial and renewal certifications and documentation of current certification.

40cfr60.59b(d)(12)(iii)
Records showing the names of the municipal waste combustor chief facility operator, shift supervisors, and control room operators who have completed the EPA municipal waste combustor operator training course or a State-approved equivalent course as required by §60.54b(d) including documentation of training completion.

40cfr60.59b(d)(12)(iv)
Records of when a certified operator is temporarily off site. Include two main items:

40cfr60.59b(d)(12)(iv)(A)
If the certified chief facility operator and certified shift supervisor are off site for more than 12 hours, but for 2 weeks or less, and no other certified operator is on site, record the dates that the certified chief facility operator and certified shift supervisor were off site.

40cfr60.59b(d)(12)(iv)(B)
When all certified chief facility operators and certified shift supervisors are off site for more than 2 weeks and no other certified operator is on site, keep records of four items:

40cfr60.59b(d)(12)(iv)(B)(1)
Time of day that all certified persons are off site.

40cfr60.59b(d)(12)(iv)(B)(2)
The conditions that cause those people to be off site.

SECTION E. Source Group Restrictions.

40cfr60.59b(d)(12)(iv)(B)(3)
The corrective actions taken by the owner or operator of the affected facility to ensure a certified chief facility operator or certified shift supervisor is on site as soon as practicable.

40cfr60.59b(d)(12)(iv)(B)(4)
Copies of the written reports submitted every 4 weeks that summarize the actions taken by the owner or operator of the affected facility to ensure that a certified chief facility operator or certified shift supervisor will be on site as soon as practicable.

40cfr60.59b(d)(13)
Records showing the names of persons who have completed a review of the operating manual as required by §60.54b(f) including the date of the initial review and subsequent annual reviews.

40cfr60.59b(d)(14)
For affected facilities that apply activated carbon, identification of the calendar dates when the average carbon mass feed rates recorded under paragraph (d)(4)(iii) of this section were less than either of the hourly carbon feed rates estimated during performance tests for mercury emissions and recorded under paragraphs (d)(4)(i) and (d)(4)(ii) of this section, respectively, with reasons for such feed rates and a description of corrective actions taken. For affected facilities that apply activated carbon, identification of the calendar dates when the average carbon mass feed rates recorded under paragraph (d)(4)(iii) of this section were less than either of the hourly carbon feed rates estimated during performance tests for dioxin/furan emissions and recorded under paragraphs (d)(4)(i) and (d)(4)(ii) of this section, respectively, with reasons for such feed rates and a description of corrective actions taken.

40cfr60.59b(d)(15)
For affected facilities that apply activated carbon for mercury or dioxin/furan control, identification of the calendar dates when the carbon injection system operating parameter(s) that are the primary indicator(s) of carbon mass feed rate (e.g., screw feeder speed) recorded under paragraph (d)(4)(v) of this section are below the level(s) estimated during the performance tests as specified in §60.58b(m)(1)(i) and §60.58b(m)(1)(ii) of this section, with reasons for such occurrences and a description of corrective actions taken.

40cfr60.59b(e) [NA - NO AIR CURTAIN DESTRUCTOR]

40cfr60.59b(f) [NA - REQUIREMENT PREVIOUSLY FULFILLED]

40cfr60.59b(f)(1) [NA - PREVIOUSLY COMPLETED]

40cfr60.59b(f)(2) [NA - PREVIOUSLY COMPLETED]

40cfr60.59b(f)(3)
The performance evaluation of the continuous emission monitoring system using the applicable performance specifications in appendix B of this part.

40cfr60.59b(f)(4) [NA - PREVIOUSLY COMPLETED]

40cfr60.59b(f)(5)
For affected facilities that apply activated carbon injection for mercury control, the owner or operator shall submit the average carbon mass feed rate recorded under paragraph (d)(4)(i) of this section.

40cfr60.59b(f)(6)
For those affected facilities that apply activated carbon injection for dioxin/furan control, the owner or operator shall submit the average carbon mass feed rate recorded under paragraph (d)(4)(ii) of this section.

ANNUAL REPORTS

40cfr60.59b(g)
Following the first year of municipal waste combustor operation, the owner or operator of an affected facility shall submit an annual report that includes the information specified in paragraphs (g)(1) through (g)(5) of this section, as applicable, no

SECTION E. Source Group Restrictions.

later than February 1 of each year following the calendar year in which the data were collected (once the unit is subject to permitting requirements under title V of the Act, the owner or operator of an affected facility must submit these reports semiannually).

40cfr60.59b(g)(1)
A summary of data collected for all pollutants and parameters regulated under this subpart, which includes the information specified in paragraphs (g)(1)(i) through (g)(1)(v) of this section.

40cfr60.59b(g)(1)(i)
A list of the particulate matter, opacity, cadmium, lead, mercury, dioxins/furans, hydrogen chloride, and fugitive ash emission levels achieved during the performance tests recorded under paragraph (d)(9) of this section.

40cfr60.59b(g)(1)(ii)
A list of the highest emission level recorded for sulfur dioxide, nitrogen oxides, carbon monoxide, particulate matter, cadmium, lead, mercury, hydrogen chloride, and dioxin/furan (for owners and operators who elect to continuously monitor particulate matter, cadmium, lead, mercury, hydrogen chloride, and dioxin/furan emissions instead of conducting performance testing using EPA manual test methods), municipal waste combustor unit load level, and particulate matter control device inlet temperature based on the data recorded under paragraphs (d)(2)(ii)(A) through (d)(2)(ii)(E) of this section.

40cfr60.59b(g)(1)(iii)
List the highest opacity level measured, based on the data recorded under paragraph (d)(2)(i)(A) of this section.

40cfr60.59b(g)(1)(iv)
Periods when valid data were not obtained as described in paragraphs (g)(1)(iv)(A) through (g)(1)(iv)(C) of this section.

40cfr60.59b(g)(1)(iv)(A)
The total number of hours per calendar quarter and hours per calendar year that valid data for sulfur dioxide, nitrogen oxides, carbon monoxide, municipal waste combustor unit load, or particulate matter control device temperature data were not obtained based on the data recorded under paragraph (d)(6) of this section.

40cfr60.59b(g)(1)(iv)(B) [NA - HCL CEMS NOT USED FOR FEDERAL PURPOSES]

40cfr60.59b(g)(1)(iv)(C) [NA - NO CONTINUOUS AUTOMATED SAMPLING SYSTEMS]

40cfr60.59b(g)(1)(v)
Periods when valid data were excluded from the calculation of average emission concentrations or parameters as described in paragraphs (g)(1)(v)(A) through (g)(1)(v)(C) of this section.

40cfr60.59b(g)(1)(v)(A)
The total number of hours that data for sulfur dioxide, nitrogen oxides, carbon monoxide, municipal waste combustor unit load, and particulate matter control device temperature were excluded from the calculation of average emission concentrations or parameters based on the data recorded under paragraph (d)(7) of this section.

40cfr60.59b(g)(1)(v)(B) [NA - HCL CEMS NOT USED FOR FEDERAL PURPOSES]

40cfr60.59b(g)(1)(v)(C) [NA - NO CONTINUOUS AUTOMATED SAMPLING SYSTEMS]

40cfr60.59b(g)(2)
The summary of data reported under paragraph (g)(1) of this section shall also provide the types of data specified in paragraphs (g)(1)(i) through (g)(1)(vi) of this section for the calendar year preceding the year being reported, in order to provide the Administrator with a summary of the performance of the affected facility over a 2-year period.

40cfr60.59b(g)(3)
The summary of data including the information specified in paragraphs (g)(1) and (g)(2) of this section shall highlight any emission or parameter levels that did not achieve the emission or parameter limits specified under this subpart.

SECTION E. Source Group Restrictions.

40cfr60.59b(g)(4)
A notification of intent to begin the reduced dioxin/furan performance testing schedule specified in §60.58b(g)(5)(iii) of this section during the following calendar year and notification of intent to apply the average carbon mass feed rate and associated carbon injection system operating parameter levels as established in §60.58b(m) to similarly designed and equipped units on site.

40cfr60.59b(g)(5)
Documentation of periods when all certified chief facility operators and certified shift supervisors are off site for more than 12 hours.

SEMI-ANNUAL REPORTS

40cfr60.59b(h)
The owner or operator of an affected facility shall submit a semiannual report that includes the information specified in paragraphs (h)(1) through (h)(5) of this section for any recorded pollutant or parameter that does not comply with the pollutant or parameter limit specified under this subpart, according to the schedule specified under paragraph (h)(6) of this section.

40cfr60.59b(h)(1)
The semiannual report shall include information recorded under paragraph (d)(3) of this section for sulfur dioxide, nitrogen oxides, carbon monoxide, particulate matter, cadmium, lead, mercury, hydrogen chloride, dioxin/furan (for owners and operators who elect to continuously monitor particulate matter, cadmium, lead, mercury, or hydrogen chloride, or who elect to use continuous automated sampling systems for dioxin/furan or mercury emissions, instead of conducting performance testing using EPA manual test methods) municipal waste combustor unit load level, particulate matter control device inlet temperature, and opacity.

40cfr60.59b(h)(2)
For each date recorded as required by paragraph (d)(3) of this section and reported as required by paragraph (h)(1) of this section, the semiannual report shall include the sulfur dioxide, nitrogen oxides, carbon monoxide, municipal waste combustor unit load level, particulate matter control device inlet temperature, or opacity data, as applicable, recorded under paragraphs (d)(2)(ii)(A) through (d)(2)(ii)(D) and (d)(2)(i)(A) of this section, as applicable.

40cfr60.59b(h)(3)
If the test reports recorded under paragraph (d)(9) of this section document any particulate matter, opacity, cadmium, lead, mercury, dioxins/furans, hydrogen chloride, and fugitive ash emission levels that were above the applicable pollutant limits, the semiannual report shall include a copy of the test report documenting the emission levels and the corrective actions taken.

40cfr60.59b(h)(4)
The semiannual report shall include the information recorded under paragraph (d)(15) of this section for the carbon injection system operating parameter(s) that are the primary indicator(s) of carbon mass feed rate.

40cfr60.59b(h)(5)
For each operating date reported as required by paragraph (h)(4) of this section, the semiannual report shall include the carbon feed rate data recorded under paragraph (d)(4)(iii) of this section.

40cfr60.59b(h)(6)
Semiannual reports required by paragraph (h) of this section shall be submitted according to the schedule specified in paragraphs (h)(6)(i) and (h)(6)(ii) of this section.

40cfr60.59b(h)(6)(i)
If the data reported in accordance with paragraphs (h)(1) through (h)(5) of this section were collected during the first calendar half, then the report shall be submitted by August 1 following the first calendar half.

40cfr60.59b(h)(6)(ii)
If the data reported in accordance with paragraphs (h)(1) through (h)(5) of this section were collected during the second calendar half, then the report shall be submitted by February 1 following the second calendar half.

SECTION E. Source Group Restrictions.

40cfr60.59b(i) [NA - NO AIR CURTAIN INCINERATOR]

MISCELLANEOUS RECORDKEEPING AND REPORTING REQUIREMENTS

40cfr60.59b(j)
All reports specified under paragraphs (a), (b), (c), (f), (g), (h), and (i) of this section shall be submitted as a paper copy, postmarked on or before the submittal dates specified under these paragraphs, and maintained onsite as a paper copy for a period of 5 years.

40cfr60.59b(k)
All records specified under paragraphs (d) and (e) of this section shall be maintained onsite in either paper copy or computer-readable format, unless an alternative format is approved by the Administrator.

40cfr60.59b(l)
If the owner or operator of an affected facility would prefer a different annual or semiannual date for submitting the periodic reports required by paragraphs (g), (h) and (i) of this section, then the dates may be changed by mutual agreement between the owner or operator and the Administrator according to the procedures specified in §60.19(c) of subpart A of this part.

ADDITIONAL HCL MONITORING, RECORDKEEPING AND REPORTING

40cfr60.59b(m) [NA - HCL CEMS NOT USED FOR FEDERAL PURPOSES]

40cfr60.59b(n) [NA - HCL CEMS NOT USED FOR FEDERAL PURPOSES]

40cfr60.59b(o) [NA - NO CONTINUOUS AUTOMATED SAMPLING SYSTEMS FOR D/F]

VI. WORK PRACTICE REQUIREMENTS.

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

Standards for municipal waste combustor operating practices

40cfr60.53b(a)
On and after the date on which the initial performance test is completed or is required to be completed under §60.8 of subpart A of this part, no owner or operator of an affected facility shall cause to be discharged into the atmosphere from that affected facility any gases that contain carbon monoxide in excess of the emission limits specified in table 1 of this subpart.

Table No. 1 - Municipal Waste Combustor Operating Standards.
Carbon monoxide emission limit (parts per million by volume) a Averaging times (hours) b for the following Combustor technology:

Mass burn waterwall 100 ppm 4 hr. avg.
Mass burn refractory 100 ppm 4 hr. avg. [NA]
Mass burn rotary waterwall 100 ppm 24 hr. avg. [NA]
Modular starved air 50 ppm 4 hr. avg. [NA]
Modular excess air 50 ppm 4 hr. avg. [NA]
Refuse-derived fuel stoker 150 ppm 24 hr. avg. [NA]
Bubbling fluidized bed combustor 100 ppm 4 hr.avg. [NA]
Circulating fluidized bed combustor 100 ppm 4 hr. avg. [NA]
Pulverized coal/refuse-derived fuel mixed fuel-fired combustor 150 ppm 4 hr. avg. [NA]
Spreader stoker coal/refuse-derived fuel mixed fuel-fired combustor 150 ppm 24 hr. avg. [NA]

a Measured at the combustor outlet in conjunction with a measurement of oxygen concentration, corrected to 7 percent oxygen (dry basis). The averaging times are specified in greater detail in §60.58b(i).
b Averaging times are 4-hour or 24-hour block averages.

40cfr60.53b(b)
No owner or operator of an affected facility shall cause such facility to operate at a load level greater than 110 percent of the

SECTION E. Source Group Restrictions.

maximum demonstrated municipal waste combustor unit load as defined in §60.51b, except as specified in paragraphs (b)(1) and (b)(2) of this section. The averaging time is specified under §60.58b(i).

40cfr60.53b(b)(1)
During the annual dioxin/furan or mercury performance test and the 2 weeks preceding the annual dioxin/furan or mercury performance test, no municipal waste combustor unit load limit is applicable if the provisions of paragraph (b)(2) of this section are met.

40cfr60.53b(b)(2)
The municipal waste combustor unit load limit may be waived in writing by the Administrator for the purpose of evaluating system performance, testing new technology or control technologies, diagnostic testing, or related activities for the purpose of improving facility performance or advancing the state-of-the-art for controlling facility emissions. The municipal waste combustor unit load limit continues to apply, and remains enforceable, until and unless the Administrator grants the waiver.

40cfr60.53b(c)
No owner or operator of an affected facility shall cause such facility to operate at a temperature, measured at the particulate matter control device inlet, exceeding 17 °C above the maximum demonstrated particulate matter control device temperature as defined in §60.51b, except as specified in paragraphs (c)(1) and (c)(2) of this section. The averaging time is specified under §60.58b(i). The requirements specified in this paragraph apply to each particulate matter control device utilized at the affected facility.

40cfr60.53b(c)(1)
During the annual dioxin/furan or mercury performance test and the 2 weeks preceding the annual dioxin/furan or mercury performance test, no particulate matter control device temperature limitations are applicable if the provisions of paragraph (b)(2) of this section are met.

40cfr60.53b(c)(2)
The particulate matter control device temperature limits may be waived in writing by the Administrator for the purpose of evaluating system performance, testing new technology or control technologies, diagnostic testing, or related activities for the purpose of improving facility performance or advancing the state-of-the-art for controlling facility emissions. The temperature limits continue to apply, and remain enforceable, until and unless the Administrator grants the waiver.

40cfr60.53b(d)
Paragraph (m)(2) of §60.58b addresses treatment of activated carbon injection rate during dioxin/furan or mercury testing.

 # 007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Standards for municipal waste combustor operator training and certification

40cfr60.54b(a)
No later than the date 6 months after the date of startup of an affected facility or on December 19, 1996, whichever is later, each chief facility operator and shift supervisor shall obtain and maintain a current provisional operator certification from either the American Society of Mechanical Engineers [QRO-1- 1994 (incorporated by reference-see §60.17 of subpart A of this part)] or a State certification program.

40cfr60.54b(b)
Not later than the date 6 months after the date of startup of an affected facility or on December 19, 1996, whichever is later, each chief facility operator and shift supervisor shall have completed full certification or shall have scheduled a full certification exam with either the American Society of Mechanical Engineers [QRO-1-1994 (incorporated by reference-see §60.17 of subpart A of this part)] or a State certification program.

40cfr60.54b(c)
No owner or operator of an affected facility shall allow the facility to be operated at any time unless one of the following persons is on duty and at the affected facility: A fully certified chief facility operator, a provisionally certified chief facility operator who is scheduled to take the full certification exam according to the schedule specified in paragraph (b) of this section, a fully certified shift supervisor, or a provisionally certified shift supervisor who is scheduled to take the full certification exam according to the schedule specified in paragraph (b) of this section.

SECTION E. Source Group Restrictions.

40cfr60.54b(c)(1)
The requirement specified in paragraph (c) of this section shall take effect 6 months after the date of startup of the affected facility or on December 19, 1996, whichever is later.

40cfr60.54b(c)(2)
If both the certified chief facility operator and certified shift supervisor are unavailable, a provisionally certified control room operator on site at the municipal waste combustion unit may fulfill the certified operator requirement. Depending on the length of time that a certified chief facility operator and certified shift supervisor are away, the owner or operator of the affected facility must meet one of three criteria:

40cfr60.54b(c)(2)(i)
When the certified chief facility operator and certified shift supervisor are both off site for 12 hours or less, and no other certified operator is on site, the provisionally certified control room operator may perform the duties of the certified chief facility operator or certified shift supervisor.

40cfr60.54b(c)(2)(ii)
When the certified chief facility operator and certified shift supervisor are off site for more than 12 hours, but for two weeks or less, and no other certified operator is on site, the provisionally certified control room operator may perform the duties of the certified chief facility operator or certified shift supervisor without notice to, or approval by, the Administrator. However, the owner or operator of the affected facility must record the period when the certified chief facility operator and certified shift supervisor are off site and include that information in the annual report as specified under §60.59b(g)(5).

40cfr60.54b(c)(2)(iii)
When the certified chief facility operator and certified shift supervisor are off site for more than two weeks, and no other certified operator is on site, the provisionally certified control room operator may perform the duties of the certified chief facility operator or certified shift supervisor without approval by the Administrator. However, the owner or operator of the affected facility must take two actions:

40cfr60.54b(c)(2)(iii)(A)
Notify the Administrator in writing. In the notice, state what caused the absence and what actions are being taken by the owner or operator of the facility to ensure that a certified chief facility operator or certified shift supervisor is on site as expeditiously as practicable.

40cfr60.54b(c)(2)(iii)(B)
Submit a status report and corrective action summary to the Administrator every four weeks following the initial notification. If the Administrator provides notice that the status report or corrective action summary is disapproved, the municipal waste combustion unit may continue operation for 90 days, but then must cease operation. If corrective actions are taken in the 90-day period such that the Administrator withdraws the disapproval, municipal waste combustion unit operation may continue.

40cfr60.54b(c)(3)
A provisionally certified operator who is newly promoted or recently transferred to a shift supervisor position or a chief facility operator position at the municipal waste combustion unit may perform the duties of the certified chief facility operator or certified shift supervisor without notice to, or approval by, the Administrator for up to six months before taking the ASME QRO certification exam.

40cfr60.54b(d)
All chief facility operators, shift supervisors, and control room operators at affected facilities must complete the EPA or State municipal waste combustor operator training course no later than the date 6 months after the date of startup of the affected facility or by December 19, 1996, whichever is later.

40cfr60.54b(e)
The owner or operator of an affected facility shall develop and update on a yearly basis a site-specific operating manual that shall, at a minimum, address the elements of municipal waste combustor unit operation specified in paragraphs (e)(1) through (e)(11) of this section.

40cfr60.54b(e)(1)
A summary of the applicable standards under this subpart;

SECTION E. Source Group Restrictions.

40cfr60.54b(e)(2)
A description of basic combustion theory applicable to a municipal waste combustor unit;

40cfr60.54b(e)(3)
Procedures for receiving, handling, and feeding municipal solid waste;

40cfr60.54b(e)(4)
Municipal waste combustor unit startup, shutdown, and malfunction procedures;

40cfr60.54b(e)(5)
Procedures for maintaining proper combustion air supply levels;

40cfr60.54b(e)(6)
Procedures for operating the municipal waste combustor unit within the standards established under this subpart;

40cfr60.54b(e)(7)
Procedures for responding to periodic upset or off-specification conditions;

40cfr60.54b(e)(8)
Procedures for minimizing particulate matter carryover;

40cfr60.54b(e)(9)
Procedures for handling ash;

40cfr60.54b(e)(10)
Procedures for monitoring municipal waste combustor unit emissions; and

40cfr60.54b(e)(11)
Reporting and recordkeeping procedures.

40cfr60.54b(f)
The owner or operator of an affected facility shall establish a training program to review the operating manual according to the schedule specified in paragraphs (f)(1) and (f)(2) of this section with each person who has responsibilities affecting the operation of an affected facility including, but not limited to, chief facility operators, shift supervisors, control room operators, ash handlers, maintenance personnel, and crane/load handlers.

40cfr60.54b(f)(1)
Each person specified in paragraph (f) of this section shall undergo initial training no later than the date specified in paragraph (f)(1)(i), (f)(1)(ii), or (f)(1)(iii) of this section whichever is later.

40cfr60.54b(f)(1)(i)
The date 6 months after the date of startup of the affected facility;

40cfr60.54b(f)(1)(ii)
The date prior to the day the person assumes responsibilities affecting municipal waste combustor unit operation; or

40cfr60.54b(f)(1)(iii)
December 19, 1996.

40cfr60.54b(f)(2)
Annually, following the initial review required by paragraph (f)(1) of this section.

40cfr60.54b(g)
The operating manual required by paragraph (e) of this section shall be kept in a readily accessible location for all persons required to undergo training under paragraph (f) of this section. The operating manual and records of training shall be available for inspection by the EPA or its delegated enforcement agency upon request.

SECTION E. Source Group Restrictions.

VII. ADDITIONAL REQUIREMENTS.

 # 008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

REGULATORY CHANGES

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.

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

SECTION E. Source Group Restrictions.

Group Name: GROUP 004

Group Description: 40 CFR Part 60, Subpart IIII

Sources included in this group

ID	Name
105	EMERGENCY GENERATOR
106	FIRE PUMP DIESEL ENGINE

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

 # 001 [40 CFR Part 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 Am I subject to this subpart?

(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.

(1) [NA - FACILITY IS NOT A MANUFACTURER OF IC ENGINES].

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

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

(ii) Manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006.

(3) [NA - ENGINES ARE NOT MODIFIED OR RECONSTRUCTED].

SECTION E. Source Group Restrictions.

(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.

(b) [NA - NOT AN ENGINE BEING TESTED AT A TEST CELL/STAND].

(c) [NA - FACILITY IS CURRENTLY A MAJOR SOURCE OPERATING UNDER A TITLE V PERMIT].

(d) [NA - ENGINES ARE NOT EXEMPTABLE].

(e) [NA - ENGINES ARE NOT A TEMPORARY UNITS]

(f) [NA - ENGINES ARE NOT USED IN ALASKA OR OFFSHORE INSTALLATIONS]

(g) [NA - FACILITY IS NOT A MANUFACTURER OF IC ENGINES]

(h) [NA - ENGINES ARE NOT EQUIPPED WITH AUXILIARY EMISSION CONTROL DEVICES]

[71 FR 39172, July 11, 2006, as amended at 76 FR 37967, June 28, 2011; 81 FR 44219, July 7, 2016; 86 FR 34357, June 29, 2021]

Emission Standards for Manufacturers

§ 60.4201 What emission standards must I meet for non-emergency engines if I am a stationary CI internal combustion engine manufacturer?

[NA - FACILITY IS NOT AN IC ENGINE MANUFACTURER].

[71 FR 39172, July 11, 2006, as amended at 76 FR 37967, June 28, 2011; 81 FR 44219, July 7, 2016; 86 FR 34357, June 29, 2021]

§ 60.4202 What emission standards must I meet for emergency engines if I am a stationary CI internal combustion engine manufacturer?

[NA - FACILITY IS NOT AN IC ENGINE MANUFACTURER].

[71 FR 39172, July 11, 2006, as amended at 76 FR 37967, June 28, 2011; 81 FR 44219, July 7, 2016; 86 FR 34357, June 29, 2021]

§ 60.4203 How long must my engines meet the emission standards if I am a manufacturer of stationary CI internal combustion engines?

[NA - FACILITY IS NOT AN IC ENGINE MANUFACTURER].

[76 FR 37968preview citation details, June 28, 2011]

§ 60.4204 What emission standards must I meet for non-emergency engines if I am an owner or operator of a stationary CI internal combustion engine?

[NA - ENGINES ARE EMERGENCY STANDBY UNITS].

[71 FR 39172, July 11, 2006, as amended at 76 FR 37967, June 28, 2011; 81 FR 44219, July 7, 2016; 86 FR 34357, June 29, 2021]

§ 60.4205 What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal combustion engine?

(a) [NA - ENGINES ARE NOT PRE-2007 MODEL YEARS].

SECTION E. Source Group Restrictions.

(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.

(c) Owners and operators of fire pump engines with a displacement of less than 30 liters per cylinder must comply with the emission standards in Table 4 to this subpart, for all pollutants.

Table No. 4 - emission standards for (Source ID #106) 197 HP fire pump diesel engine 2019 model year:

NMHC + NOx: 3.0 g/hp-hr
CO: 2.6 g/hp-hr
PM: 0.15 g/hp-hr

(d) [NA - ENGINE DISPLACEMENT LESS THAN OR EQUAL TO 30 LITERS PER CYLINDER].

(e) Owners and operators of emergency stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests in-use must meet the NTE standards as indicated in § 60.4212.

(f) [NA - ENGINES ARE NOT MODIFIED OR RECONSTRUCTED UNITS].

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

§ 60.4206 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]

Fuel Requirements for Owners and Operators

§ 60.4207 What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject to this subpart?

(a) [Reserved]

(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 1090.305 for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted.

(c) [Reserved]

(d) [NA - ENGINE DISPLACEMENT LESS THAN OR EQUAL TO 30 LITERS PER CYLINDER]

(e) [NA - ENGINES DO NOT QUALIFY FOR A 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]

Other Requirements for Owners and Operators

§ 60.4208 What is the deadline for importing or installing stationary CI ICE produced in previous model years?

(a) [NA - ENGINES MEET OR EXCEED MODEL YEAR 2007 STANDARDS]

SECTION E. Source Group Restrictions.

(b) [NA - ENGINES > 25 HP]

(c) [NA - ENGINES ARE EMEGENCY UNITS]

(d) [NA - ENGINES ARE EMEGENCY UNITS]

(e) [NA - ENGINES ARE EMEGENCY UNITS]

(f) [NA - ENGINES ARE EMEGENCY UNITS]

(g) [NA - ENGINES ARE EMEGENCY UNITS]

(h) In addition to the requirements specified in § § 60.4201, 60.4202, 60.4204, and 60.4205, it is prohibited to import stationary CI ICE with a displacement of less than 30 liters per cylinder that do not meet the applicable requirements specified in paragraphs (a) through (g) of this section after the dates specified in paragraphs (a) through (g) of this section.

(i) [NA - ENGINES ARE NOT MODIFIED, RECONSTRUCTED, OR RELOCATED].

[71 FR 39172, July 11, 2006, as amended at 76 FR 37969preview citation details, June 28, 2011]

§ 60.4209 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.

(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.

(b) [NA - ENGINES DO NOT MAKE USE OF A DIESEL PARTICULATE FILTER]

[71 FR 39172, July 11, 2006, as amended at 76 FR 37969, June 28, 2011]

Compliance Requirements

§ 60.4210 What are my compliance requirements if I am a stationary CI internal combustion engine manufacturer?

[NA - FACILITY IS NOT AN ENGINE MANUFACTURER].

[71 FR 39172, July 11, 2006, as amended at 76 FR 37969, June 28, 2011; 81 FR 44219, July 7, 2016; 86 FR 34358, June 29, 2021]

§ 60.4211 What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?

(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:

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

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

(3) Meet the requirements of 40 CFR part 1068, as they apply to you.

(b) [NA - ENGINES ARE NOT PRE-2007 MODEL YEAR].

SECTION E. Source Group Restrictions.

(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.

(d) [NA - ENGINE DISPLACEMENT PER CYLINDER IS LESS THAN 30 LITERS].

(e) [NA - ENGINES ARE NOT MODIFIED OR RECONSTRUCTED].

(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, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (3), is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (3), the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

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

(2) You may operate your emergency stationary ICE for the purpose specified in paragraph (f)(2)(i) 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).

(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.

(ii) - (iii) [Reserved]

(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 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.

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

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

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

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

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

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

SECTION E. Source Group Restrictions.

owner or operator.

(ii) [Reserved]

(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:

(1) If you are an owner or operator of a stationary CI internal combustion engine with maximum engine power less than 100 HP, you must keep a maintenance plan and records of conducted maintenance to demonstrate compliance 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, if you do not install and configure the engine and control device according to the manufacturer's emission-related written instructions, or you change the emission-related settings in a way that is not permitted by the manufacturer, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of such action. (Source ID #105)

(2) If you are an owner or operator of a stationary CI internal combustion engine greater than or equal to 100 HP and less than or equal to 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. (Source ID #106).

(3) [NA - ENGINES ARE LESS THAN 500HP].

(h) The requirements for operators and prohibited acts specified in 40 CFR 1039.665 apply to owners or operators of stationary CI ICE equipped with AECDs for qualified emergency situations as allowed by 40 CFR 1039.665.

[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 34359, June 29, 2021; 87 FR 48605, Aug. 10, 2022]

Testing Requirements for Owners and Operators

§ 60.4212 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 - PERFORMANCE TESTING NOT REQUIRED FOR CERTIFIED EMERGENCY IC ENGINES].

[71 FR 39172preview citation details, July 11, 2006, as amended at 76 FR 37971, June 28, 2011; 86 FR 34359, June 29, 2021]

§ 60.4213 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 - PERFORMANCE TESTING NOT REQUIRED FOR CERTIFIED EMERGENCY FIREPUMP ENGINES].

[71 FR 39172preview citation details, July 11, 2006, as amended at 78 FR 6696, Jan. 30, 2013; 81 FR 44219, July 7, 2016; 87 FR 48606, Aug. 10, 2022]

§ 60.4214 What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?

(a) [NA - ENGINE ARE EMERGENCY UNITS].

(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

SECTION E. Source Group Restrictions.

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.

(c) [NA - ENGINES DO NOT MAKE USE OF A DIESEL PARTICULATE FILTER].

(d) [NA - THE FIREPUMP ENGINE IS NOT CAPABLE OF GENERATING POWER FOR EMERGENCY DEMAND RESPONSE OR FOR SUPPLYING POWER TO THE ELECTRIC POWER GRID].

(e) [NA - ENGINES DO NOT MAKE USE OF AECD's]

[71 FR 39172preview citation details, July 11, 2006, as amended at 78 FR 6696, Jan. 30, 2013; 81 FR 44219, July 7, 2016; 87 FR 48606, Aug. 10, 2022]

Special Requirements

§ 60.4215 What requirements must I meet for engines used in Guam, American Samoa, or the Commonwealth of the Northern Mariana Islands?

[NA - ENGINES USED WITHIN CONTINENTAL U.S.]

[71 FR 39172, July 11, 2006, as amended at 76 FR 37971, June 28, 2011]

§ 60.4216 What requirements must I meet for engines used in Alaska?

[NA - ENGINES USED WITHIN CONTINENTAL U.S.]

[76 FR 37971, June 28, 2011, as amended at 81 FR 44219, July 7, 2016; 86 FR 34359, June 29, 2021]

§ 60.4217 What emission standards must I meet if I am an owner or operator of a stationary internal combustion engine using special fuels?

[NA - ENGINES DO NOT USE SPECIAL FUELS]

[76 FR 37972preview citation details, June 28, 2011]

§ 60.4218 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.

REPORTING REQUIREMENTS & REGULATORY CHANGES

Individual sources within this source group that are subject to 40 CFR Part 60 Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines 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 DEP and the EPA. The EPA copies shall be forwarded to:

United States Environmental Protection Agency
Region III, Air and Radiation Division
Permits Branch (3AD10)
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, Pennsylvania 19103-2852

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

SECTION E. Source Group Restrictions.

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

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

SECTION E. Source Group Restrictions.

Group Name: GROUP 005

Group Description: Presumptive RACT 3 Requirements

Sources included in this group

ID	Name
0001	UNIT #1
0002	UNIT #2
0003	UNIT #3

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.

§ 129.111. Applicability.

(a) Except as specified in subsection (c), the NOx requirements of this section and §§ 129.112—129.115 apply Statewide to the owner and operator of a major NOx emitting facility that commenced operation on or before August 3, 2018. [FACILITY IS MAJOR FOR NOX, BUT NOT FOR VOC].

(b) [NA – FACILITY NOT CHANGED AFTER 8/3/18 AFFECTING RACT APPLICABILITY.]

(c) Sections 129.112—129.114 do not apply to the owner and operator of a NOx air contamination source that has the potential to emit less than 1 TPY of NOx located at a major NOx emitting facility subject to subsection (a) or (b) or a VOC air contamination source that has the potential to emit less than 1 TPY of VOC located at a major VOC emitting facility subject to subsection (a) or (b). The owner or operator shall identify and list these sources in the written notification required under § 129.115(a).

(d) [FACILITY IS MAJOR FOR NOX, BUT NOT FOR VOC].

(e) [NA – FACILITY NOT CHANGED AFTER 8/3/18 AFFECTING RACT APPLICABILITY.]

SECTION E. Source Group Restrictions.

§ 129.112. Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.

(a) The owner and operator of a source listed in one or more of subsections (b)—(k) located at a major NOx emitting facility or major VOC emitting facility subject to § 129.111 (relating to applicability) shall comply with the applicable presumptive RACT requirement or RACT emission limitation, or both, beginning with the specified compliance date as follows, unless an alternative compliance schedule is submitted and approved under subsections (n)—(p) or § 129.114 (relating to alternative RACT proposal and petition for alternative compliance schedule):

(1) January 1, 2023, for a source subject to § 129.111(a).

(2) [NA – NOT SUBJECT TO § 129.111(b)]

(b) [NA – NO APPLICABLE COMBUSTION UNITS]

(c) – (e) [NA – NO APPLICABLE SOURCES UNDER THESE SECTIONS]

(f) The owner and operator of a municipal waste combustor subject to § 129.111 shall comply with the presumptive RACT emission limitation of 110 ppmvd NOx @ 7% oxygen.

(g) - (k) [NA – NO APPLICABLE SOURCES UNDER THESE SECTIONS]

(l) The requirements and emission limitations of this section supersede the requirements and emission limitations of a RACT permit issued to the owner or operator of an air contamination source subject to one or more of subsections (b)—(k) prior to November 12, 2022, under §§ 129.91—129.95 (relating to stationary sources of NOx and VOCs) or under §§ 129.96—129.100 (relating to additional RACT requirements for major sources of NOx and VOCs) to control, reduce or minimize NOx emissions or VOC emissions, or both, from the air contamination source unless the permit contains more stringent requirements or emission limitations, or both.

(m) The requirements and emission limitations of this section supersede the requirements and emission limitations of §§ 129.201—129.205, 129.301—129.310, 145.111—145.113 and 145.141—145.146 unless the requirements or emission limitations of §§ 129.201—129.205, §§ 129.301—129.310, §§ 145.111—145.113 or §§ 145.141—145.146 are more stringent.

(n) – (q) [NA – SOURCES CAN COMPLY WITH PRESUMPTIVE LIMITS WITHOUT MODIFICATION]

§ 129.113. Facility-wide or system-wide NOx emissions averaging plan general requirements. [NA – AVERAGING NOT APPLICABLE]

§ 129.114. Alternative RACT proposal and petition for alternative compliance schedule. [NA – ALTERNATIVE RACT PROPOSAL NOT APPLICABLE]

§ 129.115. Written notification, compliance demonstration and recordkeeping and reporting requirements.

(a) [NOTIFICATION SUBMITTED 12/16/22]

(b) Except as specified in subsection (d), the owner and operator of an air contamination source subject to a NOx RACT requirement or RACT emission limitation or VOC RACT requirement or RACT emission limitation, or both, listed in § 129.112 (relating to presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule) shall demonstrate compliance with the applicable RACT requirement or RACT emission limitation by performing the following monitoring or testing procedures:

(1) [NA – SUBJECT TO (3)]

(2) [NA – NOT CEMENT KILN SOURCE]

(3) For a municipal waste combustor with a CEMS, monitoring and testing in accordance with the requirements in Chapter 139, Subchapter C, using a daily average. The daily average will be considered valid if it contains at least 18 valid hourly

SECTION E. Source Group Restrictions.

averages reported at any time during the calendar day as required in the quality assurance section of the continuous source monitoring manual.

(4) – (6) [NA – SUBJECT TO (3)]

(c) [NA – NOT TURBINE SOURCE]

(d) Except as specified in § 129.112(n) and § 129.114(l) (relating to alternative RACT proposal and petition for alternative compliance schedule), the owner and operator of an air contamination source subject to subsection (b) shall demonstrate compliance with the applicable RACT requirement or RACT emission limitation in accordance with the procedures in subsection (a) not later than:

(1) January 1, 2023, for a source subject to § 129.111(a) (relating to applicability).

(2) [NA – NOT SUBJECT TO § 129.111(b)]

(e) [NA – CEMS ARE USED]

(f) The owner and operator of an air contamination source subject to this section and §§ 129.111—129.114 shall keep records to demonstrate compliance with §§ 129.111—129.114 and submit reports to the Department or appropriate approved local air pollution control agency in accordance with the applicable regulations in 25 Pa.¿Code, Part I, Subpart C, Article III (relating to air resources) and as specified in the operating permit or plan approval for the air contamination source as follows:

(1) The records shall include sufficient data and calculations to demonstrate that the requirements of §§ 129.111—129.114 are met.

(2) Data or information required to determine compliance shall be recorded and maintained in a time frame consistent with the averaging period of the requirement.

(3) The records necessary to determine compliance shall be reported to the Department or appropriate approved local air pollution control agency on a schedule specified in the applicable regulation or as otherwise specified in the operating permit or plan approval for the air contamination source.

(g) Beginning with the compliance date specified in § 129.112(a), the owner or operator of an air contamination source claiming that the air contamination source is exempt from the applicable NOx emission rate threshold specified in § 129.114(b) and the requirements of § 129.112 based on the air contamination source's potential to emit shall maintain records that demonstrate to the Department or appropriate approved local air pollution control agency that the air contamination source is not subject to the specified emission rate threshold.

(h) [NA – FACILITY IS NOT MAJOR FOR VOC]

(i)) [NA – NO APPLICABLE COMBUSTION UNITS]

(j) [NA – NOT CEMENT KILN SOURCE]

(k) The records shall be retained by the owner or operator for 5 years and made available to the Department or appropriate approved local air pollution control agency upon receipt of a written request from the Department or appropriate approved local air pollution control agency.

***** 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.

This Title V operating permit includes those requirements from operating permit number 22-05007, issued on December 8, 2017, and supercedes those requirements.

The following sources and activities are not subject to any specific emission limitations, restrictions, work practice standards, testing, monitoring, recordkeeping or reporting requirements:

1. Air conditioning and ventilation systems
2. Office equipment (copiers, printers, FAX, etc.)
3. Janitorial activities
4. Plant maintenance (painting, welding, paving, VOC cold cleaning, etc.)
5. Mobile sources (trucks, forklifts, snowblowers, etc.)
6. Boiler water treatment
7. Fuel oil, gasoline, kerosene and diethylene glycol storage tanks
8. Laboratory/analytical activities
9. Urea tank
10. Hydrated lime silo
11. Carbon silo

Miscellaneous Notations:

1. The definition of "Shutdown" shall be interpreted as the point at which the chute to the loading hopper of the combustion train is closed, and a period of 30-minutes has passed to allow waste to be emptied from the throat of the feed chute. The permittee will not be required to adhere to the CO and NOx emissions standards during shutdown, as long as the duration of the shutdown does not exceed (3) hours per occurrence, before proceeding to either "process down" or to "normal operations".

2. The selected parameters that define normal operations for CEM reporting purposes are when the dry inlet O2 is less than or equal to 16.5% and the steam flow is greater than or equal to 30,000 lbs/hr. If any of these conditions are not met, the CEM reports the combustor as "process down" for that minute.

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