



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: March 30, 2017 Effective Date: August 4, 2021
Revision Date: August 4, 2021 Expiration Date: September 29, 2022
Revision Type: Amendment

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: 09-00013

Federal Tax Id - Plant Code: 04-3024782-1

Owner Information

Name: WHEELABRATOR FALLS INC
Mailing Address: 1201 NEW FORD MILL RD
MORRISVILLE, PA 19067-3707

Plant Information

Plant: WHEELABRATOR FALLS INC/FALLS TWP
Location: 09 Bucks County 09002 Falls Township
SIC Code: 4953 Trans. & Utilities - Refuse Systems

Responsible Official

Name: CLIFFORD CHEW
Title: PLANT MANAGER
Phone: (215) 428 - 7912 Email: cchew@wtienergy.com

Permit Contact Person

Name: CLIFFORD CHEW
Title: PLANT MANAGER
Phone: (215) 428 - 7912 Email: cchew@wtienergy.com

[Signature] _____
JAMES D. REBARCHAK, SOUTHEAST REGION AIR PROGRAM MANAGER



SECTION A. Table of Contents

Section A. Facility/Source Identification

Table of Contents
Site Inventory List

Section B. General Title V Requirements

- #001 Definitions
- #002 Prohibition of Air Pollution
- #003 Property Rights
- #004 Permit Expiration
- #005 Permit Renewal
- #006 Transfer of Ownership or Operational Control
- #007 Inspection and Entry
- #008 Compliance Requirements
- #009 Need to Halt or Reduce Activity Not a Defense
- #010 Duty to Provide Information
- #011 Reopening and Revising the Title V Permit for Cause
- #012 Reopening a Title V Permit for Cause by EPA
- #013 Operating Permit Application Review by the EPA
- #014 Significant Operating Permit Modifications
- #015 Minor Operating Permit Modifications
- #016 Administrative Operating Permit Amendments
- #017 Severability Clause
- #018 Fee Payment
- #019 Authorization for De Minimis Emission Increases
- #020 Reactivation of Sources
- #021 Circumvention
- #022 Submissions
- #023 Sampling, Testing and Monitoring Procedures
- #024 Compliance Certification
- #025 Recordkeeping Requirements
- #026 Reporting Requirements
- #027 Operational Flexibility
- #028 Risk Management
- #029 Approved Economic Incentives and Emission Trading Programs
- #030 Permit Shield
- #031 Reporting
- #032 Report Format

Section C. Site Level Title V Requirements

- C-I: Restrictions
- C-II: Testing Requirements
- C-III: Monitoring Requirements
- C-IV: Recordkeeping Requirements
- C-V: Reporting Requirements
- C-VI: Work Practice Standards
- C-VII: Additional Requirements
- C-VIII: Compliance Certification
- C-IX: Compliance Schedule

Section D. Source Level Title V Requirements

- D-I: Restrictions
- D-II: Testing Requirements
- D-III: Monitoring Requirements
- D-IV: Recordkeeping Requirements
- D-V: Reporting Requirements



SECTION A. Table of Contents

D-VI: Work Practice Standards
D-VII: Additional Requirements

Note: These same sub-sections are repeated for each source!

Section E. Source Group Restrictions

E-I: Restrictions
E-II: Testing Requirements
E-III: Monitoring Requirements
E-IV: Recordkeeping Requirements
E-V: Reporting Requirements
E-VI: Work Practice Standards
E-VII: Additional Requirements

Section F. Alternative Operating Scenario(s)

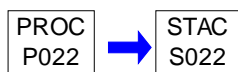
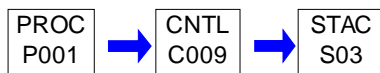
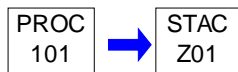
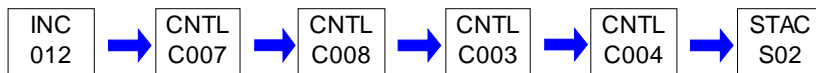
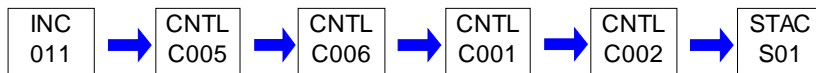
F-I: Restrictions
F-II: Testing Requirements
F-III: Monitoring Requirements
F-IV: Recordkeeping Requirements
F-V: Reporting Requirements
F-VI: Work Practice Standards
F-VII: Additional Requirements

Section G. Emission Restriction Summary

Section H. Miscellaneous

**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
011	VON ROLL/B&W 1	33.330 Tons/HR	MUNICIPAL SOLID WASTE
		0.050 MCF/HR	Natural Gas
012	VON ROLL/B&W 2	33.330 Tons/HR	MUNICIPAL SOLID WASTE
		0.050 MCF/HR	NATURAL GAS
101	GAS FIRED HEATERS	6.200 MMBTU/HR	
		6.200 MCF/HR	Natural Gas
P001	LIME SILO		
P022	FIRE PROTECTION PUMP DIESEL ENGINE	3.340 Gal/HR	DIESEL FUEL
C001	SPRAY DRYER ABSORBER 1		
C002	FABRIC FILTER 1		
C003	SPRAY DRYER ABSORBER 2		
C004	FABRIC FILTER 2		
C005	SELECTIVE NON-CATALYTIC REDUCTION 1		
C006	CARBON INJECTION 1		
C007	SELECTIVE NON-CATALYTIC REDUCTION 2		
C008	CARBON INJECTION 2		
C009	FABRIC FILTER 3		
S01	COMBUSTOR 1 STACK		
S02	COMBUSTOR 2 STACK		
S022	FIRE PUMP STACK		
S03	LIME SILO STACK		
Z01	SPACE HEATER EMISSIONS		

PERMIT MAPS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

the Department.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

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

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

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

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

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

SECTION B. General Title V Requirements

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

SECTION B. General Title V Requirements

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

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

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

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

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

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

Enforcement & Compliance Assurance Division
Air, RCRA and Toxics Branch
Air Section
1650 Arch Street, 3ED21
Philadelphia, PA 19103

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 §121.7]****Prohibition of air pollution.**

No person may permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. Section 4003).

002 [25 Pa. Code §123.1]**Prohibition of certain fugitive emissions**

Except as otherwise provided in this permit, the permittee shall not permit the emission into the outdoor atmosphere of a 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 controls, meet the following requirements:
 - (1) The emissions are of minor significance with respect to causing air pollution; and
 - (2) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

003 [25 Pa. Code §123.2]**Fugitive particulate matter**

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in condition #002(a)-(f), above, if such emissions are visible at the point the emissions pass outside the person's property.

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

The visible emission limitations for the facility, including those for the combustors, shall not apply in either of the following instances:

- (a) When the presence of uncombined water is the only reason for failure of the emission to meet the limitations.
- (b) When the emission results from sources specified in Condition #002, of Section C, of this permit.

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

There shall be no odors emitted from this resource recovery facility that are detectable outside the property line.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91. Original condition is from Operating Permit OP-09-0013 (issued 1-11-96 and revised 5-17-1996), Condition 5].

The aggregate VOC emissions from the facility, including: the two (2) combustors, 18 gas-fired heaters, and one diesel-driven fire pump shall not exceed 24.46 tons in any 12 consecutive month period.

Should the VOC emissions from the facility exceed 25.0 tons in any 12 consecutive month period, the permittee shall be required to comply with 25 Pa. Code § 123.203 and obtain VOC emission offsets.

Compliance with this permit condition assures compliance with 25 Pa. Code § 129.96(d).

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.9640. Original condition is derived from Operating Permit OP-09-0013 (issued 1-11-96 and revised 5-17-1996), Condition 4.A.4.b.]

**SECTION C. Site Level Requirements**

The total NOx emissions from the facility shall not exceed 899.7 tons in any 12 consecutive month period.

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

[Additional authority for this permit condition is also derived from 25 Pa.Code § 129.91.]

The permittee shall not permit the emission of visible emissions of fugitive combustion ash from the ash conveying system in excess of 5% of the observation period (9 minutes per 3-hour period), as determined by EPA Reference Method 22, except as described below:

- (a) the emission limit does not cover visible emissions discharged inside buildings or enclosures; and
- (b) the emission limit does not apply during the maintenance and repair of ash handling systems.

[Compliance with this streamlined permit condition assures compliance with 25 Pa. Code § 123.41.]

009 [25 Pa. Code §129.14]**Open burning operations**

The permittee may not permit the open burning of material in the Southeast Air Basin, except when the open burning results from:

- (a) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.
- (b) Any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
- (c) A fire set solely for cooking food.
- (d) A fire set solely for recreational or ceremonial purposes.
- (e) A fire set for the prevention and control of disease or pests, when approved by the Department.

Fuel Restriction(s).**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee is permitted to burn municipal waste as defined in 25 Pa. Code Section 287.1, of the Bureau of Waste Management Regulations, and the Department's Best Available Technology (BAT) criteria for Municipal Waste Incinerator (MWI), residual waste, disinfected infectious waste, and municipal-like residual waste as listed in the current Solid Waste permit.

Unacceptable waste is that which is stated in the Plan Approval Application No. 09-340-003, Solid Waste Application No. 400633 including but not limited to chemotherapy, pathological, infectious, medical waste (as defined in 40 CFR § 60.51a), radioactive contaminated or hazardous wastes, sewage sludge and friable asbestos materials. Deliveries of primarily leaf waste (as defined in 53 P.S. § 4000.1501), grass clippings or drywall shall be treated as unacceptable waste. These materials shall not be accepted by the permittee for incineration and any unacceptable waste found in the tipping area shall be removed and disposed of properly.

Large non-combustible bulky materials, including visible automotive batteries, shall be removed from the refuse pit for appropriate disposal.

Combustible bulky material shall be crushed or shredded, prior to combustion or removed from the refuse pit.

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

- (a) If at any time the Department has cause to believe that air contaminant emissions from any source(s) listed in Section A, of this Permit, may be in excess of the limitations specified in this Permit, or established pursuant to, any applicable rule or regulation contained in 25 Pa. Code Article III, the permittee shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s).

**SECTION C. Site Level Requirements**

(b) Such testing shall be conducted in accordance with the provisions of 25 Pa. Code Chapter 139, when applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the permittee that testing is required.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The permittee shall use EPA reference method 22, to determine compliance with the fugitive emission limits, for this facility.

III. MONITORING REQUIREMENTS.**# 013 [25 Pa. Code §123.43]****Measuring techniques**

Except as provided in Site Condition #004, of this permit, visible emissions may be measured using either of the following:

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

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

- (a) The permittee shall monitor once per operating day, the plant property, while the plant is in operation, for the presence of malodors, fugitive particulate emissions and visible emissions.
- (b) All detected emissions, and/or malodors shall be:
 - (1) investigated; and
 - (2) reported to the shift supervisor, or designated person.
- (c) Emissions that originate on-site shall have appropriate corrective action taken.

IV. RECORDKEEPING REQUIREMENTS.**# 015 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain a file containing all records and other data that are required to be collected pursuant to the various provisions of this operating permit. This file shall include, but not be limited to: all air pollution control system performance evaluation and records of calibration checks, adjustments and maintenance performed on all equipment which is subject to this operating permit.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91. Original condition is derived from Operating Permit OP-09-0013 (issued 1-11-96 and revised 5-17-1996), Condition 4.A.5.]

The permittee shall perform sufficient calculations to demonstrate compliance with the VOC emission limit.

EPA Method 25A, or an approved equivalent method, shall be used to determine the VOC emissions from the combustors, while fuel usage records shall be used to calculate the VOC emissions from the heaters and fire pump.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

On a monthly basis, the permittee shall aggregate the NOx and VOC emissions from the sources listed below, and total the last 12 month emissions for demonstration of compliance with the site NOx and VOC emission limits:

- (a) each combustor;
- (b) fire pump; and

**SECTION C. Site Level Requirements**

(c) eighteen (18) gas-fired heaters.

018 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

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

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

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

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

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

V. REPORTING REQUIREMENTS.**# 020 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall submit the following reports:

- (a) an annual certificate of compliance, due by April 1st of each year, for the period covering January 1 through December 31 of the previous year. This certificate of compliance shall document compliance with all permit terms and conditions set forth in this Title V permit as required under condition #24 of section B of this permit. The annual certificate of compliance shall be submitted to the Department in paper form, and EPA Region III in electronic form at the following email address:
R3_APD_Permits@epa.gov
- (b) a semiannual deviation report, due by October 1, of each year, for the period covering January 1 through June 30 of the same year. Note: The annual certification of compliance fulfills the second deviation reporting period (July 1 through December 31).

Note. This condition supersedes the reporting dates found in Section B, Condition 24.

021 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

- (a) The permittee shall, within two (2) hours, of becoming knowledgeable, of any occurrence, notify the Department, at (484) 250-5920, of any malfunction of the source(s) or associated air pollution control devices listed in Section A, of this permit, or any forced shutdown of either combustor(s) because of noncompliance with the conditions of this operating permit, which results in, or is reasonably expected to result in, the emission of air contaminants in excess of the limitations specified in this permit, or regulation contained in 25 Pa. Code Article III.
- (b) The permittee shall immediately upon becoming knowledgeable, of any occurrence, notify the Department at (484) 250-5920 of any malfunction(s) which occur at this Title V facility, and pose(s) an imminent danger to public health, safety, welfare and the environment, and would violate permit conditions if the source were to continue to operate after the malfunction.
- (c) A written report shall be submitted to the Department within two (2) working days following the notification of the incident, and shall describe, at a minimum, the following:
 - (1) The malfunction(s).
 - (2) The emission(s).
 - (3) The duration.
 - (4) Any corrective action taken.

SECTION C. Site Level Requirements

[Compliance with this streamlined permit condition assures compliance with operating permit OP-09-0013 (revised 4-13-00) condition 14.]

022 [25 Pa. Code §135.21]**Emission statements**

The permittee shall submit by March 1, of each year, an annual emission statement for the preceding calendar year.

023 [25 Pa. Code §135.3]**Reporting**

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

The permittee, who has been previously advised by the Department to submit a source report, shall submit by March 1, of each year, a source report for the preceding calendar year. The report shall include information from all previously reported sources, new sources which were first operated during the preceding calendar year, and sources modified during the same period which were not previously reported, including those sources listed in the Miscellaneous Section of this permit.

The permittee may request an extension of time from the Department for the filing of a source report, and the Department may grant the extension for reasonable cause.

VI. WORK PRACTICE REQUIREMENTS.**# 024 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

The permittee shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

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

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

The dimensions of the length, width, and height of the building housing the combustor(s) and the height of the stack, as reported in the Plan Approval application, is hereby incorporated and represents compliance with the requirements of Good Engineering Practices ("G.E.P.") and is consistent with the Department's Regulations, 25 Pa. Code Chapter 141 and in accordance with 40 CFR § 51.1.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.97(c).]

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

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

All residual wastes accepted at this facility shall meet the acceptance plan as approved by the Department's Bureau of Land Recycling and Waste Management.

**SECTION C. Site Level Requirements****# 028 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Open storage of solid waste outside of a building is prohibited.

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

All waste or process materials shall be transported in or out of this facility in closed containers or tarped or enclosed trucks.

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

The tipping area air shall be used as primary combustion air for each of the two combustors.

031 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The tipping area shall be operated at a negative pressure, whenever the combustor(s) is in operation. If no combustors are in operation, the tipping area doors shall be closed.

032 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The amount of solid waste material stored in the refuse pit shall be less than the amount of solid waste material which can be reasonably incinerated within 150 hours of its delivery. If there is reason to believe that the combustor(s) are not capable of incinerating the solid waste material specified in the time frame above, the Department shall be notified in accordance with the malfunction reporting provisions of this section, of this permit. No additional waste material shall be accepted and all the solid waste material shall be removed, if needed, to prevent the escape of odor beyond the property line. No air shall be exhausted to the outdoor atmosphere from this building during such an occurrence without being treated in the combustor(s) unless otherwise authorized by the Department.

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

The design, construction, and operation of the combustors as stated in the Plan Approval Application(s) and subsequent revisions, in accordance with the Department's BAT Criteria Document and its subsequent amendments issued up to the date of issuance of this operating permit and the conditions of this operating permit, shall be adhered to. Department approval must be obtained prior to modification of any of the above.

034 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

(a) The permittee may not modify any source identified in Section A, of this permit, prior to obtaining Department approval, except those modifications authorized by Condition #017(g), of Section B, of this permit.

(b) If an unauthorized modification of any source(s) occurs at this facility, then this permit, as it pertains to the modified source(s), may be suspended and the source(s) shall not be operated until the modification is authorized by the Department.

035 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

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

VII. ADDITIONAL REQUIREMENTS.**# 036 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The definitions, as they pertain to large municipal waste combustors, that are not addressed in Condition #001, of Section B, of this permit, have their meaning set forth in 40 CFR 60, Subpart Cb.

**SECTION C. Site Level Requirements****# 037 [25 Pa. Code §127.503]****Application information.**

Any source capacity, throughput, or parameter listed in this permit, which is not expressly part of an enforceable permit limitation, is not a permit limitation and is only provided for informational or descriptive purposes.

VIII. COMPLIANCE CERTIFICATION.

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

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

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

SECTION D. Source Level Requirements

Source ID: 011

Source Name: VON ROLL/B&W 1

Source Capacity/Throughput:

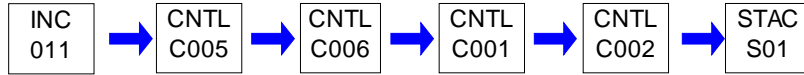
33.330 Tons/HR

MUNICIPAL SOLID WASTE

0.050 MMCF/HR

Natural Gas

Conditions for this source occur in the following groups: 1

**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: 012

Source Name: VON ROLL/B&W 2

Source Capacity/Throughput:

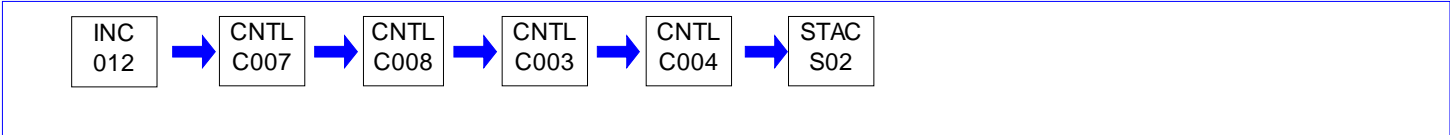
33.330 Tons/HR

MUNICIPAL SOLID WASTE

0.050 MMCF/HR

NATURAL GAS

Conditions for this source occur in the following groups: 1



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. *****

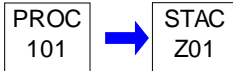
SECTION D. Source Level Requirements

Source ID: 101

Source Name: GAS FIRED HEATERS

Source Capacity/Throughput: 6.200 MMBTU/HR

6.200 MCF/HR Natural Gas

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

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from this process in excess of 0.04 gr/dscf.

002 [25 Pa. Code §123.21]

General

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

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

Aggregate emissions from these natural gas fired heaters shall not exceed the following in any 12 consecutive month period:

- (a) NO_x - 0.4 tons.
- (b) VOC - 0.14 tons.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The amount of natural gas consumed or hours of operation by these heaters shall be monitored on a monthly basis, using a Department approved method.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the monitored amount of fuel usage or hours of operation and perform monthly calculations, using AP-42 emission factors, to demonstrate compliance with the NO_x and VOC emission limits.

[Compliance with this condition and the PM and SO_x emissions for this source has been demonstrated through the calculations of potential emissions.]

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.**

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

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.

006 [25 Pa. Code §127.411]

Content of applications.

This source consists of eighteen (18) individual natural gas-fired space heaters having a heat input of between 0.4 and 2.9 MMBtu/hr, for a total of 6.2 MMBtu/hr.

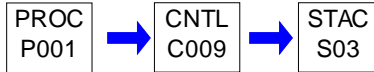
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P001

Source Name: LIME SILO

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.41]****Limitations**

A person may not permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

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

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

[Original condition is from Operating Permit OP-09-0013 (Issued 1-11-1996 and revised 5-17-1996) condition 4.E.]

Particulate matter emissions from the exhausts associated with the lime silo(s) shall not exceed 0.02 gr/dscf. Compliance with this limit shall be operation of the silo consistent with good engineering practices and within the manufacturer design criteria and the visible emission limits of Condition #001, for this source.

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

[Original condition is derived from Operating Permit OP-09-0013 (Issued 1-11-1996 and revised 5-17-1996) condition 8.G.]

Source testing of the lime silo fabric collectors shall be conducted upon the Department's request.

III. MONITORING REQUIREMENTS.**# 004 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

The permittee shall visually check the stack exhaust on a daily basis, while filling, for the presence of visible emissions. On days when no filling activity occurs, no monitoring activity shall be required.

Detected emissions shall be:

- (a) investigated;
- (b) reported to the shift supervisor, or designated person; and
- (c) recorded in a permanently written log.

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

Observations of stack exhaust and any corrective actions taken shall be recorded for each monitoring activity.

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

Once a day when silo is being filled, the permittee shall visually check the silo baghouse exhaust for the presence of visible emissions and record the pressure drop.

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.**

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

VI. WORK PRACTICE REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The following apply to the lime silo during filling operations:

- (a) during filling operations the pressure drop across the baghouse shall be between 0.5" and 6";
- (b) once each filling cycle, the baghouse pressure drop shall be monitored and recorded;
- (c) if pressure drop fall outside the indicated range, corrective action shall be taken to restore pressure drop to within the range; and
- (d) corrective action shall be recorded and records maintained on site.

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**

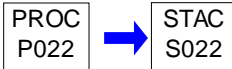
Source ID: P022

Source Name: FIRE PROTECTION PUMP DIESEL ENGINE

Source Capacity/Throughput:

3.340 Gal/HR

DIESEL FUEL

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

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from this process in excess of 0.04 gr/dscf

002 [25 Pa. Code §123.21]

General

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

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

Emissions from this diesel driven fire pump shall not exceed either of the following in any 12 consecutive month period:

- (a) NO_x - 0.5 tons.
- (b) VOC - 0.84 tons.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the fuel usage or hours of operation (using a non-resettable hour meter), on a daily basis, when operated.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the fuel usage or hours of operation for this fire pump and perform monthly, and 12 consecutive month, calculations using AP-42 or WEBFIRE emission factors to demonstrate compliance with the NO_x and VOC emission limits.

[Compliance with this condition and the PM and SO_x emissions for this source has been demonstrated through the calculations of potential emissions.]

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Fuel oil delivery receipts indicating the maximum sulfur content shall be retained for a minimum of five (5) years.

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.**

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

VI. WORK PRACTICE REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.97(c)(5).]

This source shall be operated and maintained according to manufacturer's specifications and good air pollution control practices.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6602]

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

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

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

(a) Except during periods of startup, the permittee must meet the following requirements:

- (1) change oil and filter every 500 hours of operation or annually, whichever comes first*;
- (2) inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and
- (3) inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

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

* The permittee has the option of utilizing an oil analysis program as outlined in Table 2c of 40 CFR 63, Subpart ZZZZ and in 40 CFR § 63.6625(i).

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]

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

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

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

(a) The permittee shall operate the emergency stationary RICE according to the requirements in the most recent version of 40 CFR § 63.6640(f).

(b) If the permittee does not operate the engine according to the requirements of 40 CFR § 63.6640(f), the engine will not be considered an emergency engine under 40 CFR Part 63, Subpart ZZZZ and must meet all requirements for nonemergency engines.

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: 1

Group Description: MUNICIPAL WASTE INCINERATORS

Sources included in this group

ID	Name
011	VON ROLL/B&W 1
012	VON ROLL/B&W 2

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.9640. Original condition is from Operating Permit OP-09-0013 (issued 1-11-96 and revised 4-13-2000), condition 4.D.3.]

(a) Visible air contaminants from each combustor shall not be emitted in such a manner that the opacity of the emissions is equal to or greater than 10% for a period or periods aggregating more than three (3) minutes in any one (1) hour; or equal to or greater than an opacity of 30% at any time.

(b) The emission limit for opacity exhibited by the gases discharged to the atmosphere from a designated facility located within this large municipal waste combustor plant is 10 percent (6-minute block average).

The permittee shall comply (a) or (b), above, whichever is more stringent.

[Compliance with this permit condition assures compliance with 25 Pa. Code § 123.41.]

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.9640. Original condition is from Operating Permit OP-09-0013 (issued 1-11-96 and revised 4-13-2000), condition 4.A.1.]

Particulate matter emissions from each combustor, measured as PM-10, shall not exceed 0.010 gr/dscf (22.9 mg/dscm), corrected to 7% oxygen, and 6.7 lbs/hour, whichever is more stringent.

Total suspended particulate matter from each combustor shall not exceed 0.010 gr/dscf (22.9mg/dscm), corrected to 7% oxygen, and 8.0 lbs/hour, whichever is more stringent.

Compliance with the above two (2) emission limits shall be based on the average of a minimum of three consecutive test runs, where all valid test data will be used, using EPA Method 5.

[Compliance with this streamlined permit condition assures compliance with 25 Pa. Code § 123.12.]

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.9640. Original condition is from Operating Permit OP-09-0013 (Issued 1-11-1996 and revised 4-13-2000), Condition 4.B.5.]

Total dioxin/furan emissions for each combustor shall not exceed 30 nanograms per dry standard cubic meter, corrected to 7% oxygen.

Compliance with this limitation shall be based on the average of a minimum of three consecutive test runs, where all valid test data will be used.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.9640. Original condition is from Operating Permit OP-09-0013 (Issued 1-11-1996 and revised 4-13-2000), Conditions 4.A.3 and 4.A.6.]

Carbon monoxide (CO) emissions per combustor, as measured upstream or downstream of the control devices, shall not

**SECTION E. Source Group Restrictions.**

exceed any of the following: 85 ppmvd, calculated as a 4-hour block arithmetic average, 85 ppmvd as an 8-hour running average with a new average calculated each clock hour, 200 ppmvd as an hourly average and 69.3 lbs/hour per combustor, all corrected to 7% oxygen on a dry basis.

The CO limit applies at all times when municipal wastes are combusted, except during periods of start-up, and shutdown. Provided, however, that the duration of the start-up or shut-down shall not exceed three (3) hours per occurrence.

Start-up commences with the introduction of municipal waste to an empty combustor and does not include any warm-up period when the combustor is combusting only a fossil fuel, or any other auxiliary fuel, approved by the Department, and no municipal waste is being combusted. Shut-down period commences with cessation of charging municipal waste, for the express purpose of shutting down the combustor.

Compliance with the CO emission limit shall be determined using a four (4) hour block arithmetic average. The four (4) hour block arithmetic average shall be calculated from one (1) hour arithmetic averages expressed in ppmv, corrected to 7% oxygen (dry basis).

[Compliance with this streamlined permit condition assures compliance with 25 Pa. Code § 127.12(a)(5).]

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.9640. Original condition is from Operating Permit OP-09-0013 (issued 1-11-96 and revised 4-13-2000), Condition 4.B.2.]

Compliance with the maximum annual ambient concentrations listed below shall be demonstrated using the data from each stack test from each combustor and the dispersion modeling techniques used in the plan approval application as approved by the Department. Ambient air quality analysis shall be redone if there is a modification in emission limits or for any parameter that exceeds the applicable stack test limitation during any stack test series. The Department may require the permittee to resume full modeling if the Department determines that a decrease in either volumetric flow rate and/or stack temperature has a significant adverse impact on the ambient concentration. A certification shall be supplied to the Department stating compliance with maximum allowable annual ambient concentrations with every stack test report.

The following emission levels are all expressed in micro-grams/cubic meter:

PCDD & PCDF, expressed as 2,3,7,8 TCDD equivalents* $0.30 \times 10E-7$

Arsenic and Compounds $0.23 \times 10E-3$

Beryllium and Compounds $0.42 \times 10E-3$

Cadmium and Compounds $0.56 \times 10E-3$

Nickel and Compounds $0.33 \times 10E-2$

Hexavalent Chromium and Compounds $0.83 \times 10E-4$

Lead and Compounds 0.09

Mercury and Compounds 0.024

Hydrogen Chloride 7.0

Benzo(a)pyrene $0.59 \times 10E-3$

* Polychlorinated dibenzo-p-dioxins ("PCDD") and polychlorinated dibenzofurans ("PCDF") expressed as 2, 3, 7, 8 tetrachlorinated dibenzo-p-dioxins ("TCDD") equivalents using toxicity equivalents factors ("TEFS") as described in the Department's BAT and calculated according to PADEP approved method.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.9640. Original condition is from Operating Permit OP-09-0013 (issued 1-11-96 and revised 4-13-2000), Condition 4.B.3.]

The maximum allowable toxic metal emission rates per combustor shall not exceed any of the following:

(a) emission concentration, measured in ug/dscm, and 7% oxygen:

Arsenic and Compounds 7.2

**SECTION E. Source Group Restrictions.**

Beryllium and Compounds 0.2
 Cadmium and Compounds 15.8
 Nickel and Compounds 25.0
 Hexavalent Chromium and Compounds 2.3
 Lead and Compounds 166.0
 Mercury and Compounds 28, or 85% reduction, by weight, corrected to 7% oxygen, whichever is less stringent.

(b) Emission rate, measured in lbs/hr at 120,000 dscfm, and 7% oxygen:

Arsenic and Compounds 0.00324
 Beryllium and Compounds 0.0000899
 Cadmium and Compounds 0.00710
 Nickel and Compounds 0.0112
 Hexavalent Chromium and Compounds 0.00103
 Lead and Compounds 0.0746
 Mercury and Compounds 0.0512

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91. Original condition is from Operating Permit OP-09-0013 (Issued 1-11-1996 and revised 5-17-1996) Condition 4.A.4.]

NOx emissions per combustor, expressed as NO₂, shall not exceed 102.6 lbs/hr, and 150 ppm ppmvd, 24-hour daily average, corrected to 7% oxygen using selective noncatalytic reduction (SNCR). Total NOx emissions from both combustors shall not exceed 898.8 tons in any 12 consecutive month period.

A SNCR optimization program will be designed for the Department to maximize the control of NOx concentrations and minimize associated problems such as ammonia slip and visible plume formation.

The NOx limit applies at all times when municipal wastes are combusted, except during periods of start-up, and shutdown. Provided, however, that the duration of the start-up or shut-down shall not exceed three (3) hours per occurrence.

Start-up commences with the introduction of municipal waste to an empty combustor and does not include any warm up period with the combustor is combusting only a fossil fuel or any other auxiliary fuel, approved by the Department, and no municipal waste is being combusted. Shutdown commences with the cessation of charging municipal waste for the express purpose of shutting down the combustor.

Compliance with the NOx emission limit shall be determined through the use of CEMs, and calculating a 24-hour daily arithmetic average emission concentration using EPA Reference Method 19, Section 4.1.

[Compliance with the PPM limit, above, assures compliance with 25 Pa. Code §§ 129.97(f) and 129.100(a)(3).]

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR § 62.9640. Original condition is from Operating Permit OP-09-0013 (issued 1-11-96 and revised 4-13-2000) Condition 4.B.1.]

Hydrochloric acid (HCl) emissions per combustor shall be reduced by no less than 95% (by weight) on a twenty-four (24) hour daily arithmetic average. This requirement shall be waived if the exhaust concentrations are less than 25 ppmvd and 14.6 lbs/hr, on a 24-hour daily arithmetic average corrected to 7% oxygen.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR § 62.9640. Compliance with the ppm limit below assures compliance with Operating Permit OP-09-0013 (issued 1-11-96 and revised 4-13-2000), Conditions 4.A.2. and 4.A.6.]

SO₂ emissions, per combustor, shall not exceed 29 ppmv, corrected to 7% oxygen on a dry basis, or shall be reduced by

SECTION E. Source Group Restrictions.

not less than 80% of the potential SO₂ emission concentration (by weight or volume), whichever is less stringent. Compliance with this emission limit is based on a 24-hour geometric mean.

Compliance with the SO₂ emission limit (concentration or percent reduction) shall be determined by using the CEM system to measure SO₂ and calculating a 24-hour geometric average emission concentration or a 24-hour daily geometric average percent reduction using EPA Reference Method 19, sections 4.3 and 5.4, as applicable.

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.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91. Original condition is from Operating Permit OP-09-0013 (Issued 1-11-1996 and revised 5-17-1996), condition 4.A.5.]

VOC emissions, per combustor, expressed as total hydrocarbon, shall not exceed 2.68 lbs/hr and 11.74 tons in any 12 consecutive month period.

Compliance with the VOC emission limit shall be demonstrated through the performance of a stack test every twelve (12) months and recordkeeping of hours of operation and amount of waste charged.

The VOC limits, above, are a result of controlled combustion, which has been determined as being Reasonably Available Control Technology (RACT) for the emissions of VOCs.

Fuel Restriction(s).**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Only natural gas shall be used as start-up, shut-down, and standby fuel.

Throughput Restriction(s).**# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91. Original condition is from Operating Permit OP-09-0013 (Issued 1-11-1996 and revised 5-17-1996), Condition 5.S.]

Each combustor shall not be operated at a steam load greater than 110% of the maximum demonstrated combustor unit load, except during the annual dioxin/furan or mercury performance test and the two (2) weeks preceding this test, when no municipal waste combustor load limit is applicable.

The municipal waste combustor unit load limit above 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.

Steam load shall be calculated in lbs/hr on a 4-hour block arithmetic average.

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

The amount of municipal-like residual wastes charged into each combustor shall not exceed ten (10) percent, by weight, of the total wastes this combustor can process, which equals a combined total of 4,867 tons in any month.

SECTION E. Source Group Restrictions.**# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The amount of residual wastes charged into this combustor shall not exceed ten (10) percent, by weight, of the total wastes each combustor can process, which equals a combined total of 4,867 tons in any month.

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

The amount of disinfected infectious waste (infectious waste disinfected in accordance with 25 Pa. Code, Chapter 283.402) charged into each combustor shall not exceed ten (10) percent, by weight, of the total wastes this combustor can process, which equals a combined total of 4,867 tons in any month. The disinfected infectious waste does not include chemotherapeutic waste.

Control Device Efficiency Restriction(s).**# 016 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 CFR § 62.9640.]

The maximum particulate matter control device inlet temperature shall not exceed more than 17°C (30°F) above the average temperature demonstrated during the most recent dioxin/furan test, except during the annual dioxin/furan or mercury performance test and the two (2) weeks preceding the annual dioxin/furan or mercury performance test, when no particulate matter control device temperature limitations are applicable.

The above limit may be waived for the purpose of evaluating system performance, testing, or related activities for the purpose of improving facility performance or advancing the state-of-the-art for controlling facility emissions.

The temperature at the inlet to the particulate matter control device shall be continuously recorded and calculated in 4-hour block arithmetic averages.

[Compliance with this streamlined permit condition assures compliance with 25 Pa. Code § 127.12(a)(5).]

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91. Original condition is from Operating Permit OP-09-0013 (Issued 1-11-1996 and revised 5-17-1996), Condition 5.A.]

Each combustor shall maintain the combustion gases at a temperature greater than 1800°F, for at least one (1) second under all waste firing conditions. To verify compliance, a temperature sensor shall be located downstream of the superheater exit of each boiler. The temperature at this location shall be maintained at greater than 850°F, (a Department approved reference temperature which corresponds to 1800°F) for at least one second. The combustor(s) auxiliary burners shall be automatically controlled to maintain the combustion gases at the aforementioned condition whenever refuse is being combusted.

If this reference temperature relationship changes in the future, the Department may adjust the above approved reference temperature if the owner petitions the Department and submits Department approved documentation indicating an appropriate adjustment to reflect the changed temperature relationship.

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

If required, tests shall be conducted to demonstrate that the temperatures monitored by the sensor located at the exit of the superheater corresponds to combustion gas temperatures of 1800°F and 1600°F, respectively for combustion gas retention times in each instance of one (1) second. Temperature monitor verification tests shall be performed at the request of the Department if the location of the temperature sensor at the exit of the superheater is changed.

The test procedures requirements submitted to the Department ninety (90) days prior to the test date shall also include, if

**SECTION E. Source Group Restrictions.**

necessary, procedures to assure compliance with the above temperature monitoring conditions.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91. Original condition is from Operating Permit OP-09-0013 (Issued 1-11-1996 and revised 5-17-1996), Condition 8.]

The permittee may be required to conduct source tests at any time, or frequency, as may be prescribed by the Department. At a minimum, these source tests shall be conducted:

- (a) annually for particulate matter, PM-10, arsenic, cadmium, hexavalent chromium, nickel, lead, beryllium, mercury, and visible emissions. Testing shall be conducted semiannually, if emissions of any of the above on any unit equals or exceeds 80% of the permitted standards. Testing can revert back to an annual basis should all tested PM, PM10, and toxic metals remain less than 80% of the permitted standards for a consecutive of 24-month period and the permittee notifies the Department in advance;
- (b) every twelve (12) months for HCl, VOC, and PCDD/PCDF (expressed as total tetra to octa; and 2, 3, 7, 8 TCDD equivalents calculated according to the Department approved method) and Poly Aromatic Hydrocarbons (PAH);
- (c) for CO, SO₂, NO_x, and visible emissions and temperature - as required by the Department for the system performance audit of the continuous emission monitors or to show compliance with the emission limits; and
- (d) PM emission source test results shall be based on EPA Method 5 and are to be calculated in accordance with method(s) approved by the Department.

Source tests results are to be calculated in accordance with method(s) approved by the Department. All other tests are to be conducted in accordance with the Department's source testing procedures, described in the latest Source Testing Manual or source testing procedures approved by the Department prior to testing.

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

The following procedures and test methods shall be used to determine compliance with the emission limits, for each combustor:

- (a) EPA reference method 1, for the sampling sites and traverse points;
- (b) EPA reference method 3, for the gas analysis;
- (c) EPA reference method 5, for particulate matter;
- (d) EPA reference method 9, for opacity;
- (e) EPA reference method 29, for cadmium, lead and mercury;
- (f) EPA reference method 26 or 26A, for HCl, for the RATA test on the HCl CEMS;
- (g) EPA reference method 19, for SO₂;
- (h) EPA reference method 6, 6A, or 6C, for the RATA test on the SO₂ CEMS;
- (i) EPA reference method 19, for NO_x;
- (j) EPA reference method 7, 7A, 7C, 7D, or 7E, for the RATA test on the NO_x CEMS;
- (k) EPA reference method 10, 10A, or 10B, for CO, for the RATA test on the CO CEMS;
- (l) EPA reference method 23, for Dioxin/furans; and
- (m) EPA reference method 25A for VOC.

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

All procedures and test methods used to demonstrate compliance with the emission limits, and/or emission reductions for each combustor shall be conducted in accordance with the Department's Source Testing Manual or source testing procedures approved by the Department.

III. MONITORING REQUIREMENTS.**# 022 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the amounts of municipal-like residual waste, residual waste, and disinfected infectious waste (infectious waste disinfected in accordance with 25 Pa. Code § 283.402) for each combustor on an on-going basis.

**SECTION E. Source Group Restrictions.****# 023 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The operational parameters to be monitored on the gaseous and particulate matter control devices shall be consistent with the specified plans submitted pursuant to the requirements of Plan Approval 09-340-003, the BAT, the Department's Compliance Assurance Policy (CAP), and the Department's Continuous Source Monitoring Manual, Revision No. 8, 274-0300-001.

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

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

(a) Department approved Continuous Emission Monitors (CEMs) shall be operated and maintained in accordance with 25 Pa. Code Chapter 139, the Department's Continuous Source Monitoring Manual, Revision No. 8, 274-0300-001, for the following:

- (1) CO monitored upstream of the air pollution control equipment, or CO monitored downstream of the air pollution control equipment, when upstream CO monitor is temporarily offline for calibration, maintenance, or repair. Prior to certification of a downstream CO monitor, the permittee shall demonstrate that the unit produces equivalent measurements of CO concentration (corrected to 7% oxygen) as the upstream CEM unit using Relative Accuracy Testing.
- (2) SO₂ monitored upstream and downstream of the air pollution control equipment.
- (3) NO_x monitored downstream of the air pollution control equipment.
- (4) HCL monitored upstream and downstream of the air pollution control equipment, or HCl monitored downstream of the air pollution control equipment only if the HCl emission concentration and weight rate limits are used to demonstrate compliance with Condition #007 of this section.
- (5) Opacity of the exhaust gases.

(b) Continuous monitoring shall be conducted at the locations approved by the Department for the following:

- (1) Oxygen monitored upstream (wet or dry) and downstream (wet or dry) of the air pollution control equipment.
- (2) Temperature monitored at the exit of the superheater of the boiler.
- (3) Steam load.
- (4) Baghouse inlet temperature.

(c) Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.9640. Original condition is from operating permit OP-09-0013 (Issued 1-11-1996 and revised 4-13-2000), Condition 18.]

The permittee shall operate, calibrate, and maintain a continuous emission monitoring system and record the output of the system for measuring the O₂ (or CO₂) content of the flue gas at each location where CO, SO_x, or NO_x emissions are monitored and shall comply with the test procedures and methods specified below:

- (a) the span value of the O₂ (or CO₂) monitor shall be 25% O₂ (or CO₂);
- (b) the monitor shall conform to performance specification 3 in appendix B of 40 CFR, Subpart 60, except for section 2.3, (relative accuracy requirement);
- (c) the quality assurance procedures of appendix F of 40 CFR, Subpart 60, except for 5.1.1 (relative accuracy test audit) shall apply to the monitor; and
- (d) if CO₂ is selected for dilution corrections, the relationship between O₂ and CO₂ levels shall have been established during the initial performance test, and may be re-established during performance compliance tests.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.9640. Original condition is from Operating Permit OP-09-0013 (issued 1-11-96 and revised 4-13-2000), Condition 7.C.4.]

The carbon feed rate, measured in percent of feeder output or mass feed rate in lbs/hr, shall be monitored and maintained.

**SECTION E. Source Group Restrictions.****IV. RECORDKEEPING REQUIREMENTS.****# 027 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall record the amounts of municipal-like residual waste, residual waste, and disinfected infectious waste (infectious waste disinfected in accordance with 25 Pa. Code § 283.402) and perform monthly calculations to demonstrate compliance with the applicable throughput limits for each combustor.

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

The permittee shall keep daily, monthly, and yearly records of quantities of all solid waste combusted at this facility in a format approved by the Department.

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

The permittee shall, at a minimum, keep hourly records of the rate of activated carbon injected to each combustor's flue gases for each mercury emission control system. The Department reserves the right to waive the above recording requirement. The determination shall be based on the permittee's proposal for an alternative procedure.

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

The permittee shall maintain on-site the following records for a minimum of five (5) years, in either paper copy, or computer-readable format, unless an alternative format is approved by the Department:

- (a) the calendar date of each record;
- (b) all emission averages from the continuous monitoring systems, which include: all 1-hour average SO₂, NO_x and CO emission concentrations, combustor unit load measurements, PM control device inlet temperatures and opacity.
- (c) all block geometric or arithmetic average concentrations, and percent reductions, as applicable for SO₂, NO_x, CO, and PM control device inlet temperatures;
- (d) identification of the calendar dates when any of the average emissions, percent reductions, or operating parameters recorded for: SO₂, NO_x, CO, combustor unit load levels, particulate matter inlet control device temperature, or opacity, are above the applicable limits, with reasons for such exceedances and a description of the corrective action taken;
- (e) the average carbon mass feed rate in lbs/hr and supporting calculations during all performance tests for mercury and dioxin/furans;
- (f) the average carbon mass feed rate in lbs/hr and supporting calculations estimated for each hour of operation;
- (g) the total carbon usage, and supporting calculations, for each calendar quarter by both methods listed below:
 - (1) the weight of carbon delivered to the facility; and
 - (2) estimate the average mass carbon feed rate per hour for each hour of operation for each combustor based on the primary indicator parameters and sum the results for both combustors for the total hours of operation during the calendar quarter.
- (h) the operating parameter data for the carbon injection system that are the primary indicators of carbon feed rate;
- (i) identification of the calendar dates when the minimum hours of any of the data for SO₂, NO_x and CO emissions data, unit load, and/or PM control device temperature were not met;
- (j) identification of each occurrence that (i), above, have been excluded from the calculations, the reason for the exclusion, and the corrective action taken;
- (k) the results of the daily drift tests and quarterly accuracy determinations for the SO₂, NO_x, and CO CEMs.
- (l) results of all performance tests, including supporting calculations, along with maximum demonstrated unit load, and maximum PM control device inlet temperature;
- (m) the names of the combustor chief facility operator, shift supervisors, and control room operators who have been fully certified, or provisionally certified, by the ASME or an equivalent State-approved certification, including the dates of initial and renewal certifications and documentation of current certification;
- (n) identification of the dates when the average carbon mass feed rates were less than the hourly carbon feed rates estimated during the performance tests for mercury or dioxin/furan emissions, with reasons for such feed rates and a description of the corrective action taken;
- (o) identification of the calendar dates when the carbon injection system operating parameter(s) that are the primary indicator(s) of carbon mass feed rate were below the levels estimated during the performance tests, with reasons for such occurrences and a description of the corrective action taken;
- (p) 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 the site-specific operating manual;

(q) the dates when the certified chief facility operator and the certified shift supervisor were off site more than twelve (12) hours but less than two (2) weeks; and

(r) the following four items when all of the certified chief facility operators and shift supervisors are off site for more than two (2) weeks and no certified operator is on site:

- (1) time and day that all certified persons are off site;
- (2) the conditions that caused those people to be off site;
- (3) corrective actions taken by the permittee to ensure that a certified operator is on site as soon as practicable; and
- (4) copies of the written report shall be submitted every four (4) weeks.

031 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 CFR § 62.9640, 25 Pa. Code §§ 139.101(5), 139.103, and 139.111. Original condition is from operating permit OP-09-0013 (issued on Issued 1-11-1996 and revised 4-13-2000), Conditions 15 and 18.]

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), (and) the "Record Keeping and Reporting" requirements in the Department's Continuous Source Monitoring Manual, Revision No. 8, 274-0300-001, and the recordkeeping requirements established in PADEP's State Plan.

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

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

032 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 CFR § 62.9640. Original condition is from Operating Permit OP-09-0013 (issued 1-11-96 and revised 4-13-2000), Condition 7.C.4.]

The carbon feed rate, in percent of feeder output or mass feed rate in lbs/hr, shall be recorded.

033 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

The permittee shall record all CEM emissions consistent with the applicable Department's CEM manual or State Plan for this facility, whichever is more stringent.

V. REPORTING REQUIREMENTS.**# 034 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 CFR § 62.9640. Original condition is from operating permit OP-09-0013 (revised 4-13-2000), Condition 18.]

The following information shall be submitted to:

Associate Director, Office of Enforcement and Compliance Assistance
 US EPA, Region III 3AP20
 1650 Arch Street
 Philadelphia, PA 19103, and

Regional Manager
 Air Quality
 Department of Environmental Protection

**SECTION E. Source Group Restrictions.**

2 East Main Street
Norristown, PA 19401

- (a) a semi-annual report, shall be submitted by February 1 and August 1 of each year. These reports shall cover the preceding six month period, and shall include the following:
- (1) a list of PM, lead, cadmium, opacity, mercury, dioxin/furans, hydrogen chloride, and fugitive ash emission levels achieved during the most recent performance test;
 - (2) a list of the highest emission level recorded for SO₂, NO_x, CO, combustor load limit, and PM control device inlet temperature during the reporting period;
 - (3) the highest opacity level measured during the reporting period;
 - (4) the total number of days that the minimum number of hours of data for SO₂, NO_x, CO, combustor load limit, and PM control device inlet temperature were not obtained by the facility's CEMS; and
 - (5) the total number of hours that CEMS data for SO₂, NO_x, CO, combustor load, and PM control device inlet temperature were excluded from the calculation of average emission concentrations of parameters.
- (b) the above reports shall also include information from the preceding calendar year for the year being reported, in order to provide the Administrator with a summary of the performance of this facility over a 2-year period;
- (c) a semi-annual report shall highlight any recorded pollutant or parameter that exceeds the applicable limit during the reporting period for the following:
- (1) SO₂, NO_x, CO, combustor load level, PM control device inlet temperature, and opacity;
 - (2) during performance testing: PM, opacity, mercury, cadmium, lead, dioxin/furans, HCl, and fugitive ash. A copy of the test report documenting the emission levels and the corrective action taken, shall accompany the report; and
 - (3) the carbon injection system operating parameter(s) that are indicative of the carbon mass feed rate.
- (d) all semi-annual reports, shall be submitted no later than February 1, and August 1. These reports shall cover the preceding six month period ending each December and June, respectively;
- (e) all reports shall be submitted as a paper copy, postmarked on or before the submittal dates specified, and maintained onsite as a paper copy for a minimum of five (5) years; and
- (f) the summary of data reported shall have all emissions and/or parameter level highlighted that did not achieve the emission or specified parameter limit.
- (g) documentation of periods when all certified chief facility operators and certified shift supervisors are off site for more than 12 hours.

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

[Additional authority for this permit condition is derived from 25 Pa. Code §§ 139.101(5), 139.103, and 139.111.]

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), the "Record Keeping and Reporting" requirements as established in the Department's Continuous Source Monitoring Manual, Revision No. 8, 274-0300-001.

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

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.

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

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.

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

**SECTION E. Source Group Restrictions.****# 036 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

All test procedures shall be submitted to the Regional Air Quality Manager on or before ninety (90) days prior to any test, but no later than the time frame as established in the Department's Compliance Assurance Policy on Municipal Waste Incinerators and latest amendments.

(a) The testing procedures submitted to the Department for approval shall include, at a minimum, the following:

- (1) material to be incinerated;
- (2) amount of waste;
- (3) classification of waste;
- (4) Btu content of waste; and
- (5) composition of waste.

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

(c) The permittee shall submit to the Regional Air Quality Manager two (2) copies of the completed test report, including all operating conditions, for all of the pollutant specific tests listed in this operating permit, on or before sixty (60) days after the completion of the test(s) and analyses, but no later than the time frame as established in the Department's Compliance Assurance Policy for Municipal Waste Incinerators and latest amendments.

VI. WORK PRACTICE REQUIREMENTS.**# 037 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The amount of municipal-like residual waste incinerated during a stack test shall insure adequate representation of the waste load to be processed by the facility.

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

Each combustor shall be equipped with an automatic alarm and interlock system to stop the solid waste material charging rams if any of the following conditions occur:

- (a) the flue gas temperature measured downstream of the superheater exit of the boiler drops below 750°F, (a Department approved reference temperature which corresponds to 1600°F for one second), for a 15-minute period.
- (b) the carbon monoxide emissions exceed 600 ppmv corrected to 7% oxygen on a dry basis for a 15-minute period. This requirement shall be waived during start-up and shutdown periods.
- (c) the flue gas oxygen (as measured at the oxygen monitor upstream or downstream of the control device) level drops below 3% (wet basis or equivalent dry) for a 15-minute period.
- (d) the opacity of the exhaust gases is equal to or greater than 10% for a period of 15 minutes.
- (e) the fabric filter inlet temperature exceeds 500°F for a 15-minute period.
- (f) either the forced draft or induced draft fan fails.

039 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

For the purposes of compliance with this operating permit, the oxygen (dry) content, as monitored upstream or downstream of the air pollution control equipment, unless otherwise specified by the Department, shall be used wherever the oxygen content is required to be adjusted to 7% oxygen.

The continuous monitors shall be operated in such a manner as to determine compliance with the applicable limits for each combustor.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91. Original condition is from Operating Permit OP-09-0013 (Issued 1-11-1996 and revised 5-17-1996), Condition 7.H.]

The CEM system shall be operated and maintained to achieve the following PADEP data availability standards:

- (a) carbon monoxide (CO), oxygen (O₂) and temperature: 100% valid hours/day, where a valid hour is defined as greater than or equal to 90% valid readings/hour (54 minutes);
- (b) steam load and opacity: Greater than or equal to 95% valid hours/day, where a valid hour is defined as greater than or

**SECTION E. Source Group Restrictions.**

equal to 75% valid readings/hour (45 minutes); and
 (c) hydrochloric acid (HCl), sulfur dioxide (SO₂), and nitrogen oxides (NO_x): Greater than or equal to 90% valid hours/month, where a valid hour is defined as greater than or equal to 75% valid readings/hour (45 minutes).

041 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91. Original condition is from Operating Permit OP-09-0013 (Issued 1-11-1996 and revised 5-17-1996), Condition 5.S.]

The permittee shall operate a steam flow meter on each combustor to measure steam flow in pounds per hour on a continuous basis and record the output of the monitor. Steam flow shall be calculated in 4-hour block arithmetic averages.

042 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91. Original condition is from Operating Permit OP-09-0013 (Issued 1-11-1996 and revised 5-17-1996), Condition 10.]

The startup period commences with the introduction of municipal waste to the empty combustor and does not include any warm-up period when the combustor(s) is combusting natural gas, and no municipal solid waste is being combusted.

The shutdown period commences with the cessation of charging municipal waste, for the express purpose of shutting down the combustor.

[Compliance with this permit condition assures compliance with 25 Pa. Code § 127.12(a)(5).]

043 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

A provisionally certified operator who is newly promoted or recently transferred to a shift supervisor position or a chief facility operator position at this facility 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 (6) months before taking the AMSE QRO certification exam.

044 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

During operation, the carbon injection system operating parameter(s) that are the primary indicators of the carbon mass feed rate shall be averaged over a block 8-hour period and the 8-hour clock average must equal or exceed the level(s) documented during the most recent performance test for dioxins/furans and mercury, except during the dioxin/furan or mercury performance test and the two (2) weeks preceding the dioxin/furan or mercury performance test, no limit for the carbon mass feed rate is applicable if the limit for the carbon mass feed rate has been waived in accordance with permission granted by the Administrator for the purpose of evaluations 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 emissions.

045 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 CFR § 62.9640. Original condition is from operating permit OP-09-0013 (Issued 1-11-1996 and revised 4-13-2000), Condition 18.D.]

Each facility operator and shift supervisor shall obtain and maintain a current provisional operator certification from either the ASME or a state certification program, and each shall have completed full certification or shall have scheduled a full certification exam with either the ASME or a State Certification program.

[Compliance with this streamlined permit condition assures compliance with 25 Pa. Code § 127.12(a)(5).]

046 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The Department reserves the right to:

(a) establish and impose more stringent limits than those stated in this Section, per combustor, based on the test results from each stack test performed and the CEM results as specified in this permit section, and the dispersion modeling

**SECTION E. Source Group Restrictions.**

techniques as approved by the Department.

(b) require the permittee to install, operate, and maintain an uninterruptible power supply, which has been approved by the Department, on the continuous monitoring system at the facility. This decision shall be made based on the frequency of power outages, loss of data and the effect on the CEM system.

047 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The lime slurry feed system and/or the lime injection system shall be automatically modulated by interfacing with the CEMs, such that the flue gas concentrations of HCl and SO₂ are maintained at or below the concentrations for each combustor, or at those concentrations established to reflect the control percentages of HCl or SO₂.

048 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The urea feed system and/or urea injection system shall be automatically modulated by interfacing with the CEMs, such that the flue gas concentration of NO_x is maintained at or below the concentration described for each combustor.

049 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 CFR § 62.9640. Original condition is from Operating Permit OP-09-0013 (Issued 1-11-1996 and revised 4-13-2000), condition 18 and 25 Pa Code § 127.12(a)(5).

(a) Except as provided in subsection (b), below, either combustor shall not be operated at any time unless at least one of the following people is on duty at the source:

- (1) a fully certified chief facility operator,
- (2) a provisionally certified chief facility operator who is scheduled to take the full certification exam,
- (3) a fully certified shift supervisor, or
- (4) a provisionally certified shift supervisor who is scheduled to take the full certification exam.

(b) Stand-In Provisions

- (1) if one of the persons listed in subsection (a), above, must leave the facility during their operating shift, a provisionally certified control room operator who is on-site, may stand in.
- (2) a provisionally certified control room operator may stand in when the chief facility operator or shift supervisor is off-site for more than twelve (12) hours (a normal work shift), but less than two (2) weeks for normal off-site activities including: attending meetings, conferences, training, work travel, temporary reassignment, personal vacation, sick leave, family leave or similar activities. The permittee shall notify the Department, in writing, (by facsimile 484-250-5921), within 24 hours, that the stand-in period will exceed twelve (12) hours (a normal work shift) and the permittee shall record the period when the certified chief facility operator or the certified shift supervisor are off site and include that information in the annual report.

(c) In the event that the medical conditions, temporary reassignment, job transfer, resignation, dismissal or other circumstances beyond the permittee's control results in or is expected to result in the absence of the chief facility operator or shift supervisor for a period exceeding two (2) weeks, the permittee shall notify the Department in writing and identify what conditions resulted in such absence and what corrective actions have been taken to correct such absence. The Department may exercise enforcement discretion, and the permittee shall submit a written status summary every four (4) weeks. At the Department's request, the permittee shall prepare written status summary reports demonstrating that a good faith effort has been made and continues to be made to correct the conditions resulting in the absence of the chief facility operator or shift supervisor.

050 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

All signal conversion elements associated with steam measurements must be calibrated according to the manufacturer's instructions before each dioxin/furan compliance and performance test, and at least once per year.

Measurements devices such as flow nozzles and orifices are not required to be recalibrated after they are installed.

051 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91. Original condition is from Operating Permit OP-09-0013 (Issued 1-11-1996 and revised 5-17-1996), Condition 5.B.]

**SECTION E. Source Group Restrictions.**

The oxygen level as measured upstream or downstream of the air pollution control equipment shall be maintained at or above 3% (wet basis, 15-minute average) or equivalent, as approved by the Department.

052 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

No solid waste shall be charged into the combustor(s) until equilibrium has been attained in the furnace zones and the temperature at the exit of the superheater. All control equipment shall be operational and functioning properly prior to the introduction of solid waste into the combustor(s).

053 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Each combustor shall be equipped with test ports so that periodic measurement of the 1800°F/one (1) second residence time requirement can be conducted.

054 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

During the process of all shutdowns of the combustor(s), auxiliary burners shall be used to ensure that the temperature of the combustion gases does not drop below 1600°F (temperature to be determined in accordance with the testing procedures of this section (after the exit of the superheater)) while any waste material is still being incinerated. All control equipment shall be operational and functioning properly until all of the solid waste is incinerated.

VII. ADDITIONAL REQUIREMENTS.**# 055 [25 Pa. Code §127.503]****Application information.**

Air emissions from each combustor are controlled by a individual acid gas dry scrubbers, activated carbon injection and fabric filters. NOx emissions are controlled by combustion controls in conjunction with selective non-catalytic reduction system.

056 [25 Pa. Code §127.503]**Application information.**

Maximum heat input to each combustor is limited to 325 MMBtu/hr and 800 tons of waste/day.

The capacity of each of the natural gas auxiliary burners per combustor is 50 MCF/hr, nominal.

The capacity/throughput listed for each of the combustors in Sections A & D of this permit are design capacities and are not intended to be limitations of any kind.

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



SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this Title V facility.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Descriptor		
011	VON ROLL/B&W 1		
Emission Limit		Pollutant	
7.200 ug/DSCM	Arsenic	Arsenic Coumpounds	
0.200 ug/DSCM	Beryllium	Beryllium Compounds	
69.300 Lbs/Hr		CO	
85.000 PPMV	4-hr arith. avg.	CO	
200.000 PPMV	hourly average	CO	
15.800 ug/DSCM	Cadmium	Cadmium Compounds	
2.300 ug/DSCM	Hex. Chromium	Chromium Compounds	
30.000 NG/M3	Dioxin/Furan (total)	Furan	
14.600 Lbs/Hr	HCl, 24 hr avg.	Hydrochloric Acid	
25.000 PPMV	HCl, or 95% reduction	Hydrochloric Acid	
166.000 ug/DSCM	Lead	Lead Compounds	
28.000 ug/m^3	Hg, or 85% reduc.	Mercury Compounds	
102.600 Lbs/Hr		NOX	
150.000 PPMV	24-hr average	NOX	
898.800 Tons/Yr	both combustors	NOX	
25.000 ug/DSCM	Nickel	Nickel Compounds	
29.000 PPMV	or 75% reduction	SO2	
0.010 gr/DRY FT3	Particulate matter	TSP	
2.680 Lbs/Hr		VOC	
11.740 Tons/Yr		VOC	
012	VON ROLL/B&W 2		
Emission Limit		Pollutant	
7.200 ug/DSCM	Arsenic	Arsenic Coumpounds	
0.200 ug/DSCM	Beryllium	Beryllium Compounds	
69.300 Lbs/Hr		CO	
85.000 PPMV	4-hr arith. avg.	CO	
200.000 PPMV	hourly average	CO	
15.800 ug/DSCM	Cadmium	Cadmium Compounds	
2.300 ug/DSCM	Hex. Chromium	Chromium Compounds	
30.000 NG/M3	Dioxin/Furan (total)	Furan	
14.600 Lbs/Hr	HCl, 24 hr avg.	Hydrochloric Acid	
25.000 PPMV	HCl, or 95% reduction	Hydrochloric Acid	
166.000 ug/DSCM	Lead	Lead Compounds	
28.000 ug/m^3	Hg, or 85% reduc.	Mercury Compounds	
102.600 Lbs/Hr		NOX	
150.000 PPMV	24-hr average	NOX	
898.800 Tons/Yr	both combustors	NOX	
25.000 ug/DSCM	Nickel	Nickel Compounds	
29.000 PPMV	or 75% reduction	SO2	
0.010 gr/DRY FT3	Particulate matter	TSP	
2.680 Lbs/Hr		VOC	
11.740 Tons/Yr		VOC	

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
101	GAS FIRED HEATERS		
Emission Limit			Pollutant
0.400	Tons/Yr		NOX
500.000	PPMV		SOX
0.040	gr/DRY FT3		TSP
0.140	Tons/Yr		VOC
P001	LIME SILO		
Emission Limit			Pollutant
0.020	gr/DRY FT3	particulate matter	TSP
P022	FIRE PROTECTION PUMP DIESEL ENGINE		
Emission Limit			Pollutant
0.500	Tons/Yr		NOX
500.000	PPMV		SOX
0.040	gr/DRY FT3		TSP
0.840	Tons/Yr		VOC

Site Emission Restriction Summary

Emission Limit	Pollutant
899.700 Tons/Yr	NOX
24.460 Tons/Yr	VOC

**SECTION H. Miscellaneous.**

The Department has determined that the emissions from the following activities, excluding those indicated as site level requirements, in Section C, of this permit, do not require additional limitations, monitoring, or recordkeeping:

- Slakers.
- Lab Hoods.
- Two (2) Ion dispersion tanks.
- Fire pump diesel fuel tank.
- Deaerator storage tank.
- Two (2) Economizer chemical feed tanks.
- Cooling tower.
- Deaerator chemical feed tank.
- plant roads.
- Carbon injection building.
- Ash conditioning room.
- 1,000 gallon off-road diesel fuel storage tank.

This permit has been amended from the permit dated 3-16-2001. The following items have been changed to incorporate changes from the Plan Approval, PA-09-0013. APS: 490737, AUTH Id: 511939

(1) Site Condition #037 has been added.

(2) Site Condition #030 has been modified to allow a longer holding time in the refuse pit.

(3) Group conditions #013, 014, and 015 have been added, and associated Monitoring and Recordkeeping conditions have been added.

 APS: 490737, AUTH ID: 511939. November, 2003. The Department amended the TVOP to address changes in the CEM monitoring requirements, as well as to finalize an appeal of the TVOP. Conditions changed include: Section E, Conditions 3, 40, 50, 51, and 52 (for the CEMS), and Section E, Conditions 1, 10, 46, and 52 (for the appeal).

October, 2006. APS: 490737, Auth: 611741. The Department renewed the TVOP. The Department has removed the ash conditioning room and the carbon injection building, as well as their respective control devices, from permitted sources since they no longer exhaust to the outdoor atmosphere. The facility is not subject to CAM due to it meeting the exemption definition found in 40 CFR § 64.2(b)(i) - the facility complies with the federal regulations of 40 CFR 60, Subparts Ea, Eb, and Cb, all of which were proposed after November 15, 1990.

March, 2007. APS: 490737, AUTH: 658815. The Department amended this Title V permit to address and finalize an appeal by the applicant.

March, 2009. APS: 490737, AUTH: 782422. The Department amended this permit to address a discrepancy between the applicable state BAT policy and the federal regulation for dioxin/furan testing.

February 2012. APS: 490737, AUTH: 879082. Permit renewal. No new sources.

- It is noted here that the basis for the aggregate NOx emission limit for the two combustors was developed as part of the plan approval in addressing PSD. This same limit was used to suffice for NOx RACT.
- 12-month stack test averaging for the metals emissions rates and concentrations has been removed and replaced with language similar to the other facilities.
- CEM conditions changed to address newer revisions and Central Office approved verbiage.
- Temporary sources added to include mobile generators, air compressors, light plants, pumps, etc, ... as necessary during regularly scheduled outages in the support of on-site maintenance activities.
- Permit conditions listing the federal subparts Cb and Eb have been changed to 25 Pa. Code § 127.441 as the state plan for Large MWC was approved and the underlying authority is the current 111(d)/129 state plan.
- In May, 2006, the EPA amended its regulations affecting this facility (40 CFR 60, Subpart Eb). These changes have been incorporated into the Title V permit, but are considered to be state-only enforceable and are noted as such.
- The fire pump, Source P022 is now subject to the future applicable (May 13, 2013) NESHAP regulation found in 40 CFR 63, Subpart ZZZZ. This has been incorporated into this renewal permit.

September 2012. APS: 490737, Auth: 934170. Amendment to the permit to incorporate agreed upon annual stack testing

**SECTION H. Miscellaneous.**

frequency for metals and other items as noted in Group Condition #019(a).

October 2015. APS: 490737, Auth: 1093955. Amendment to match the inlet baghouse temperature requirements in accordance with the Department's State Plan for Large MWCs.

February 2017. APS: 490737, Auth: 1134864. Permit renewal.

The following RFDs were submitted and approved by the Department and did not require a plan approval:

- 2462 (October 2011);
- 4191 (January 2014); and
- 5142 (October 2015).

There are new applicable regulations that are called RACT II. The presumptive RACT regulations found in 25 Pa. Code §§ 129.97(c)(5) and (f) have been incorporated into the renewal permit.

No sources added or removed from the facility since the previous renewal.

November 2017. APS: 490737, Auth Id: 1193403. Permit amendment to incorporate a pressure drop range for the Lime Silo (P001).

Auth ID # 1363243; APS ID # 479819 August 2021 Administrative amendment to change the Responsible Official and Permit Contact to Mr. Clifford Chew.



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

