



**COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AIR QUALITY PROGRAM**

**TITLE V/STATE OPERATING PERMIT**

Issue Date:	June 27, 2024	Effective Date:	August 13, 2024
Revision Date:	August 13, 2024	Expiration Date:	June 26, 2029
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: PERRY ALBURG  
Title: PLANT MANAGER  
Phone: (215) 428 - 7917 Email: palburg@win-waste.com

**Permit Contact Person**

Name: BRIAN WINKLER  
Title: ENV COMPLIANCE MGR  
Phone: (215) 428 - 7918 Email: bwinkler@win-waste.com

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



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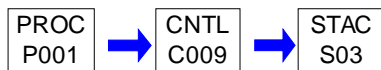
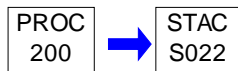
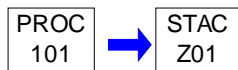
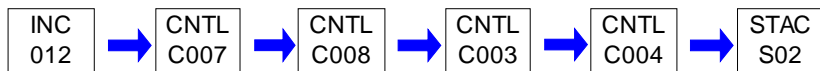
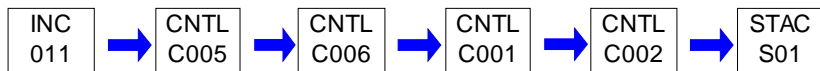
F-I: Restrictions  
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Source ID	Source Name	Capacity/Throughput	Fuel/Material
011	VON ROLL/B&W 1	33.330 Tons/HR	MUNICIPAL SOLID WASTE
		0.050 MCF/HR	Natural Gas
012	VON ROLL/B&W 2	33.330 Tons/HR	MUNICIPAL SOLID WASTE
		0.050 MCF/HR	NATURAL GAS
101	GAS FIRED HEATERS	6.200 MMBTU/HR	
		6.200 MCF/HR	Natural Gas
200	2022 JOHN DEERE EMERG FIRE PUMP		
P001	LIME SILO		
C001	SPRAY DRYER ABSORBER 1		
C002	FABRIC FILTER 1		
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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		
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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.



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(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<sub>x</sub> from a single source during the term of the permit and 5 tons of NO<sub>x</sub> 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 PM<sub>10</sub> from a single source during the term of the permit and 3.0 tons of PM<sub>10</sub> 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.

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(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

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

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

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

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

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

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

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

The Title V compliance certification shall be emailed to EPA at R3\_APD\_Permits@epa.gov.

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

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

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

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

**#024 [25 Pa. Code §§ 127.511 & 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.

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(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.

**#025 [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.

**#026 [25 Pa. Code § 127.513]****Compliance Certification**

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

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

(b) The compliance certification shall be postmarked or hand-delivered no later than thirty days after each anniversary of the date of issuance of this Title V Operating Permit, or on the submittal date specified elsewhere in the permit, to the Department in accordance with the submission requirements specified in Section B, Condition #022 of this permit. The Title V compliance certification shall be emailed to EPA at R3\_APD\_Permits@epa.gov.

**SECTION B. General Title V Requirements****#027 [25 Pa. Code § 127.3]****Operational Flexibility**

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

- (1) Section 127.14 (relating to exemptions)
- (2) Section 127.447 (relating to alternative operating scenarios)
- (3) Section 127.448 (relating to emissions trading at facilities with federally enforceable emissions caps)
- (4) Section 127.449 (relating to de minimis emission increases)
- (5) Section 127.450 (relating to administrative operating permit amendments)
- (6) Section 127.462 (relating to minor operating permit amendments)
- (7) Subchapter H (relating to general plan approvals and operating permits)

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

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

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

- (1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:
  - (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
  - (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

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

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

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

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

- (1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,
- (2) Certify that the Title V facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.

**SECTION B. General Title V Requirements**

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

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

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

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

**#029 [25 Pa. Code § 127.512(e)]****Approved Economic Incentives and Emission Trading Programs**

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

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

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

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

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

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

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

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

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

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

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

**#031 [25 Pa. Code §135.3]****Reporting**

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

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

**#032 [25 Pa. Code §135.4]****Report Format**

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

**SECTION C. Site Level Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

(a) No person may permit the emission into the outdoor atmosphere of fugitive air contaminant from a source other than the following:

- (1) Construction or demolition of buildings or structures.
- (2) Grading, paving and maintenance of roads and streets.
- (3) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.
- (4) Clearing of land.
- (5) Stockpiling of materials.
- (6) Open burning operations, as specified in 25 Pa. Code § 129.14.
- (7) N/A
- (8) N/A
- (9) Sources and classes of sources other than those identified in (1)-(8) of this condition, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
  - (i) The emissions are of minor significance with respect to causing air pollution; and
  - (ii) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

**# 002 [25 Pa. Code §123.2]****Fugitive particulate matter**

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

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

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

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

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

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

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

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

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

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

[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].

**SECTION C. Site Level Requirements**

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.]

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.**

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.

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

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

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

**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.



**SECTION C. Site Level Requirements**

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 may be in excess of the limitations specified in this Permit, or established pursuant to, any applicable rule or regulation contained in 25 Pa. Code Article III, the permittee shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s).

(b) Such testing shall be conducted in accordance with the provisions of 25 Pa. Code Chapter 139, the most current version of the DEP Source Testing Manual, and the EPA Clean Air Act National Stack Testing Guidance, when applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the permittee that testing is required.

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

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**

Visible emissions may be measured using either of the following:

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

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

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

(a) The permittee shall monitor the facility, once per operating day, for the following:

- (1) odors which may be objectionable (as per 25 Pa. Code §123.31);
- (2) visible emissions (as per 25 Pa. Code §§123.41 and 123.42); and
- (3) fugitive particulate matter (as per 25 Pa. Code §§ 123.1 and 123.2).

(b) Objectionable odors, fugitive particulate emissions, and visible emissions that are caused or may be caused by operations at the site shall:

- (1) be investigated;
- (2) be reported to the facility management, or individual(s) designated by the permittee;
- (3) have appropriate corrective action taken (for emissions that originate on-site); and
- (4) be recorded in a permanent written log.

(c) After six (6) months of daily monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the monitoring frequency to weekly.

**SECTION C. Site Level Requirements**

(d) After six (6) months of weekly monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the frequency of monitoring to monthly.

(e) The Department reserves the right to change the above monitoring requirements at any time, based on but not limited to: the review of the compliance certification (if applicable), complaints, monitoring results, and/or Department findings.

**IV. RECORDKEEPING REQUIREMENTS.****# 015 [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.

**# 016 [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.

**# 017 [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.

**# 018 [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.

**# 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.]

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

**SECTION C. Site Level Requirements****# 020 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

The permittee shall record greenhouse gas emissions (CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O), including any relevant emissions data, from all stationary fuel combustion sources at the facility as part of compliance with the GHG Mandatory Reporting Rule.

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

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

The permittee shall submit the following:

- (a) An annual certificate of compliance, due by April 1st of each year, for the period covering January 1 through December 31 of the previous year. This certificate of compliance shall document compliance with all permit terms and conditions set forth in this Title V permit as required under condition #26 of section B of this permit. The annual certificate of compliance shall be submitted to DEP electronically, and to EPA Region III in electronic form at the following email address: R3\_APD\_Permits@epa.gov. The subject line shall read: "TVOP No. 09-00013, Facility Name: Wheelabrator Falls."
- (b) A semi-annual deviation report to DEP, due by October 1 of each year, for the period covering January 1 through June 30 of the same year. Note: The annual certification of compliance fulfills the obligation for the second deviation reporting period (July 1 through December 31 of the previous year).

**# 022 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

- (a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to the Department at 484-250-5920. A malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. An emergency is any situation arising from sudden and reasonably unforeseeable events beyond the control of the owner or operator of a facility which requires immediate corrective action to restore normal operation and which causes the emission source to exceed emissions, due to unavoidable increases in emissions attributable to the situation. An emergency shall not include situations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
- (b) When the malfunction, emergency or incident of excess emissions poses an imminent danger to the public health, safety, welfare, or environment, it shall be reported to the Department and the County Emergency Management Agency by telephone within one (1) hour after the discovery of the malfunction, emergency or incident of excess emissions. The owner or operator shall submit a written or emailed report of instances of such malfunctions, emergencies or incidents of excess emissions to the Department within three (3) business days of the telephone report.
- (c) The report shall describe the following:
- (1) Name, permit or authorization number, and location of the facility;
  - (2) Nature and cause of the malfunction, emergency or incident;
  - (3) Date and time when the malfunction, emergency or incident was first observed;
  - (4) Expected duration of excess emissions;
  - (5) Estimated rate of emissions; and
  - (6) Corrective actions or preventative measures taken.
- (d) Any malfunction, emergency or incident of excess emissions that is not subject to the notice requirements of paragraph (b) of this condition shall be reported to the Department by telephone within 24 hours (or by 4:00 PM of the next business day, whichever is later) of discovery and in writing or by e-mail within five (5) business days of discovery. The report shall contain the same information required by paragraph (c), and any permit specific malfunction reporting requirements.

**SECTION C. Site Level Requirements**

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

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

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

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

**# 023 [25 Pa. Code §135.21]****Emission statements**

The permittee shall submit by March 1, of each year, an annual emission statement for NO<sub>x</sub> and VOC emissions for the preceding calendar year. Additionally, a description of the method used to calculate the emissions shall be included. The statement shall contain a certification by a company official or plant manager that the information contained in the statement is true and accurate.

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

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

(a) Use, where possible, of water or suitable chemicals, for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.

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

(c) Paving and maintenance of roadways.

(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.

**# 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.**

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.

**# 027 [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

**SECTION C. Site Level Requirements**

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.

**# 028 [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.

**# 029 [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.

**# 030 [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, tarped trucks, or enclosed trucks.

**# 031 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

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

**# 032 [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.

**# 033 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

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

**# 034 [25 Pa. Code §127.512]**

**Operating permit terms and conditions.**

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

**# 035 [25 Pa. Code §127.512]**

**Operating permit terms and conditions.**

The permittee shall immediately, upon discovery, implement measures which may include the application for the installation of an air cleaning device(s), if necessary, to reduce the air contaminant emissions to within applicable limitations, if at any time the operation of the source(s) identified in 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.**

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.

**# 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.**



## SECTION C. Site Level Requirements

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&amp;W 1

Source Capacity/Throughput:

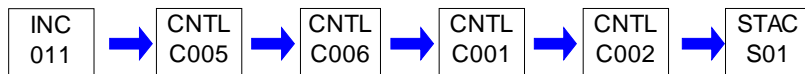
33.330 Tons/HR

MUNICIPAL SOLID WASTE

0.050 MMCF/HR

Natural Gas

Conditions for this source occur in the following groups: MWC

**I. RESTRICTIONS.**

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

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

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

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

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

**VII. ADDITIONAL REQUIREMENTS.****# 001 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

This source consists of a Von Roll walking grate and a Babcock & Wilcox mass burn waterwall boiler rated for 800 tons/day of municipal waste, installed 5/1994. The primary heat input rating is 325 MMBtu/hr and secondary is 50 MCF/hr natural gas. Exhaust flow is 125,800-149,900 scfm. Waste Btu/lb estimated at 4,500-5,500 Btu/lb.

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

**SECTION D. Source Level Requirements**

Source ID: 012

Source Name: VON ROLL/B&amp;W 2

Source Capacity/Throughput:

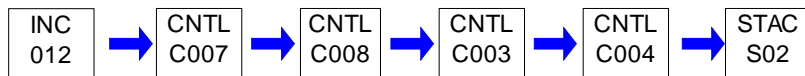
33.330 Tons/HR

MUNICIPAL SOLID WASTE

0.050 MMCF/HR

NATURAL GAS

Conditions for this source occur in the following groups: MWC

**I. RESTRICTIONS.**

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

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

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

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

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

**VII. ADDITIONAL REQUIREMENTS.****# 001 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

This source consists of a Von Roll walking grate and a Babcock & Wilcox mass burn waterwall boiler rated for 800 tons/day of municipal waste, installed 5/1994. The primary heat input rating is 325 MMBtu/hr and secondary is 50 MCF/hr natural gas. Exhaust flow is 125,800-149,900 scfm. Waste Btu/lb estimated at 4,500-5,500 Btu/lb.

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



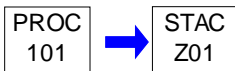
**SECTION D. Source Level Requirements**

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 SO<sub>2</sub>, 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<sub>x</sub> - 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<sub>x</sub> and VOC emission limits.

[Compliance with this condition and the PM and SO<sub>x</sub> 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.

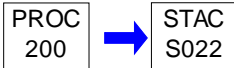
**\*\*\* Permit Shield in Effect. \*\*\***

**SECTION D. Source Level Requirements**

Source ID: 200

Source Name: 2022 JOHN DEERE EMERG FIRE PUMP

Source Capacity/Throughput:

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

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

[Certification to EPA Tier 3 emissions ensures compliance with this condition.]

**# 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 SO<sub>2</sub>, in the effluent gas exceeds 500 ppmvd.

[Use of 15 ppmvd sulfur diesel ensures compliance with this condition.]

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

[Additional authority for this permit condition is derived from 25 Pa Code § 129.111(c)]

Emissions from this fire pump shall not exceed the following on a 12-month rolling basis:

- (a) NO<sub>x</sub> - 0.60 tpy
- (b) VOC - 0.25 tpy

**Fuel Restriction(s).****# 004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4207]****Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject to**

The fire pump may only be fueled with diesel meeting the following:

- (a) Maximum sulfur content of 15 ppm
- (b) Minimum cetane index of 40 or maximum aromatic content of 35% by volume

[Use of diesel fuel meeting this standard ensures compliance with 25 Pa Code § 123.21]

**II. TESTING REQUIREMENTS.**

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

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

The facility shall monitor and record the hours and reason for operation on a daily basis, when fire pump is operated.

**SECTION D. Source Level Requirements**

**# 006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4209]  
Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines  
What are the monitoring requirements if I am an owner or operator of a stationary CI internal combustion engine?**

The fire pump engine must be equipped with a non-resettable hour meter.

**IV. RECORDKEEPING REQUIREMENTS.**

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

The facility shall calculate and record the NO<sub>x</sub> and VOC emissions on a monthly and 12-month rolling basis. Calculations shall be done using AP-42 emissions factors or the EPA certification testing emissions factors in Condition #011 for this source.

**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.**

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

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

**# 009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4205]  
Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines  
What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal combustion engine?**

The fire pump engine shall be certified to meet the following Tier 3 emissions limits per 40 CFR § 60.4205(c):

NMHC + NO<sub>x</sub> - 4.0 g/kW-hr (3.0 g/hp-hr)

CO - 3.5 g/kW-hr (2.6 g/hp-hr)

PM - 0.20 g/kW-hr (0.15 g/hp-hr)

[Note: Engine is certified to EPA Tier 3 requirements under Certificate # NJDXL13.5103-009]

**# 010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]  
Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines  
What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?**

(a) The permittee shall operate the emergency stationary R.I.C.E. according to the requirements in the most recent version of 40 C.F.R. Section 60.4211(f).

(b) If the permittee does not operate the engine according to the requirements of 40 C.F.R. Section 60.4211(f), the engine will not be considered an emergency engine under 40 C.F.R. Part 60 Subpart III and must meet all requirements for non-emergency engines.

**# 011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6590]  
Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines  
What parts of my plant does this subpart cover?**

The fire pump shall comply with the requirements of 40 CFR Part 63 Subpart ZZZZ by fulfilling the requirements applicable to the fire pump under 40 CFR Part 60 Subpart III.

**SECTION D. Source Level Requirements**

[Under 40 CFR § 63.6590(c)(6) an emergency engine fulfill the requirements of 40 CFR Part 63 Subpart ZZZZ by complying with 40 CFR Part 60 Subparts IIII (compression ignition) or JJJJ (spark ignition).]

**VII. ADDITIONAL REQUIREMENTS.**

**# 012 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The source consists of one (1) Clarke Fire Pump, Model JU6H-UFADN0 with John Deere engine Model 6068HFC48B engine family NJDXL13.5103 (Certificate NJDXL13.5103-009), rated at 236 kW (317 BHP) @ 2400 RPM, emergency use only, and certified to EPA Tier 3 emissions with the following emissions factors:

- (1) NO<sub>x</sub> - 3.31 g/kW-hr
- (2) CO - 0.60 g/kW-hr
- (3) NMHC (VOC) - 0.11 g/kW-hr
- (4) PM - 0.10 g/kW-hr
- (5) CO<sub>2</sub> - 731.4 g/kW-hr

[Note Clarke fire pump is rated to 238 BHP while the regulated John Deere engine rating is 317 BHP (236 kW) per certification.]

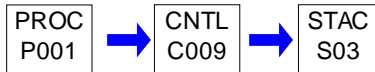
**\*\*\* Permit Shield in Effect. \*\*\***

**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:

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

**# 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 the pressure drop falls 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 E. Source Group Restrictions.**

Group Name: MWC

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 1-11-1996 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.

**# 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 1-11-1996 and revised 4-13-2000), Conditions 4.A.3 and 4.A.6.]

Carbon monoxide (CO) emissions, corrected to 7% oxygen on a dry basis, per combustor, as measured upstream or downstream of the control devices, shall not 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 .

The CO limit applies at all times when municipal wastes are combusted, except during periods of start-up and shutdown, provided 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).]

**# 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 1-11-96 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.



**SECTION E. Source Group Restrictions.**

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

PCDD & PCDF, expressed as 2,3,7,8 TCDD equivalents\* 0.30 x 10E-7  
 Arsenic and Compounds 0.23 x 10E-3  
 Beryllium and Compounds 0.42 x 10E-3  
 Cadmium and Compounds 0.56 x 10E-3  
 Nickel and Compounds 0.33 x 10E-2  
 Hexavalent Chromium and Compounds 0.83 x 10E-4  
 Lead and Compounds 0.09  
 Mercury and Compounds 0.024  
 Hydrogen Chloride 7.0  
 Benzo(a)pyrene 0.59 x 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.

**# 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 1-11-96 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  
 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

**# 005 [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 and 129.114 Original condition is from Operating Permit OP-09-0013 (Issued 1-11-1996 and revised 5-17-1996) Condition 4.A.4.]

(a) Prior to August 1, 2024 NOx emissions per combustor, expressed as NO2, shall not exceed 150 ppmvd, 24-hour daily average, corrected to 7% oxygen using selective noncatalytic reduction (SNCR). This limit applies at all time when waste is being combusted, except startup and shutdown which are limited to 3 hours per occurrence.

(b) On and after August 1, 2024, NOx emissions per combustor, expressed as NO2, shall not exceed 130 ppmvd, 24-hour daily average, measured as follows:

(1) during normal operation, values shall be corrected to 7% O2 and enhanced selective noncatalytic reduction (ESNCR) shall be used; and

**SECTION E. Source Group Restrictions.**

(2) during preheat, startup and shutdown, values shall be used at stack oxygen content.

(A) Normal operation is defined as the state for which the combustor was designed to operate, excluding preheat, startup and shutdown. Normal operation shall include any form of operation done for the purpose of performance testing, including operation at higher steam loads.

(B) The definition of preheat period for this condition means times when only the natural gas burners of the combustor are operated in order to bring the system up to temperature where the ESNCR can be operated.

(C) The definition of startup for this condition means to commence the introduction of municipal waste to an empty combustor and does not include any warmup 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.

(D) The definition of shutdown for this condition means the cessation of charging municipal waste for the express purpose of shutting down the combustor.

(E) The duration of the startup or shutdown shall not exceed three (3) hours per occurrence.

(3) An ESNCR optimization program will be designed for the Department to maximize the control of NO<sub>x</sub> concentrations and minimize associated problems such as ammonia slip and visible plume formation. The permittee shall provide the Department with a copy (paper or digital) of the optimization program within 180 days of 8/1/2024.

(c) On and after May 1, 2026, NO<sub>x</sub> emissions per combustor, expressed as NO<sub>2</sub>, shall not exceed 110 ppmvd, 24-hour daily average, measured as follows:

(1) during normal operation, values shall be corrected to 7% O<sub>2</sub> and advanced selective noncatalytic reduction (ASNCR) shall be used; and

(2) during preheat, startup and shutdown, values shall be used at stack oxygen content.

(A) The duration of the startup or shutdown shall not exceed three (3) hours per occurrence.

(3) NO<sub>x</sub> emissions per combustor, expressed as NO<sub>2</sub>, shall not exceed 105 ppmdv NO<sub>x</sub> corrected to 7% oxygen on a 30-day rolling average using ASNCR.

(4) An ASNCR optimization program will be designed for the Department to maximize the control of NO<sub>x</sub> concentrations and minimize associated problems such as ammonia slip and visible plume formation. The permittee shall provide the Department with a copy (paper or digital) of the optimization program within 180 days of 6/1/2026.

(d) On and after May 1, 2026, NO<sub>x</sub> emissions per combustor, expressed as NO<sub>2</sub>, shall not exceed 105 ppmvd, on a 30-day rolling averaging period. This limit shall apply at all times and be calculated from CEMS data measured as follows:

(1) during normal operation, values shall be corrected to 7% O<sub>2</sub> and enhanced selective noncatalytic reduction (ASNCR) shall be used; and

(2) during preheat, startup and shutdown, values shall be used at stack oxygen content.

(e) The permittee shall take all reasonable steps to prevent malfunctions. During a malfunction, the permittee shall take steps to reduce NO<sub>x</sub> emissions by ceasing the feed of waste to combustor and/or repairing the system.

(1) Malfunction, as defined under 40 CFR § 60.2, is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. A malfunction is the operation of the source that is not defined as preheat, startup, shutdown or normal operation. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.

(f) Compliance with the NO<sub>x</sub> emission limit shall be determined through the use of CEMs and calculating a 24-hour daily block arithmetic average and 30-day rolling arithmetic average emission concentration using EPA Reference Method 19, Section 12.4.1 as listed in 40 CFR § 60 Appendix A-7; the requirements under 25 Pa Code § 129.115(b)(3) and §139; and requirements under 40 CFR § 52.46(e)(2).

**SECTION E. Source Group Restrictions.**

[Compliance with the PPM limit, above, assures compliance with RACT II and III 25 Pa. Code §§ 129.97(f), 129.100(a)(3), and 129.114 and the federal Good Neighbor Plan requirements under 40 C.F.R. § 52.46.]

**# 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.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, dry basis. Compliance with the percent reduction and/or the less than 25 ppmvd and 14.6 lb/hr shall be determined using the CEMS measurement of HCl.

**# 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. 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.]

SO<sub>2</sub> emissions, per combustor, shall not exceed 29 ppmv, corrected to 7% oxygen on a dry basis, or shall be reduced by not less than 80% of the potential SO<sub>2</sub> 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 SO<sub>2</sub> emission limit (concentration or percent reduction) shall be determined by using the CEMS to measure SO<sub>2</sub> 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.

**# 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. 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.

**# 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. 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.

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(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.]

**# 010 [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.]

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

Total NOx emissions from both combustors shall not exceed 898.8 tons in any 12 consecutive month period.

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

Only natural gas shall be used as startup, shutdown, preheat and standby fuel.

**Throughput Restriction(s).****# 013 [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.

**# 014 [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.

**SECTION E. Source Group Restrictions.****# 015 [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.

**# 016 [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.

**Control Device Efficiency Restriction(s).****# 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, determined by previous testing, which corresponds to 1800°F in the combustion zone) 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.

**# 018 [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).]

**II. TESTING REQUIREMENTS.****# 019 [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, mercury, chromium, arsenic, nickel and beryllium;

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- (f) EPA reference method 26 or 26A, for HCl, for the RATA test on the HCl CEMS;
- (g) EPA reference method 19, for SO<sub>2</sub>;
- (h) EPA reference method 6, 6A, or 6C, for the RATA test on the SO<sub>2</sub> CEMS;
- (i) EPA reference method 19, for NO<sub>x</sub>;
- (j) EPA reference method 7, 7A, 7C, 7D, or 7E, for the RATA test on the NO<sub>x</sub> 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.

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

(a) 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 EPA Clean Air Act National Stack Testing Guidance, the most recent version of the Department's Source Testing Manual, the most recent version of the Department's Continuous Source Monitoring Manual, requirements of 25 Pa Code § 139, and/or source testing procedures approved by the Department.

(b) Per 25 Pa. Code 139.11(1), "[p]erformance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department [of Environmental Protection (DEP)]." Maximum routine operating conditions:

(1) represent the range of combined process and control measure conditions under which the facility expects to operate (regardless of the frequency of the conditions); and

(2) are likely to most challenge the emissions control measures of the facility with regard to meeting the applicable emission standards, but without creating an unsafe condition.

(c) Compliance testing shall not be stopped or postponed to avoid periods of routine operating conditions, such as the incineration of "wet waste", except during air emission testing for polychlorinated dibenzodioxins and furans (PCDDs/PCDFs), when future operations are (or would be) limited to the maximum steam flow (lbs/hour) during the testing.

**# 021 [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 procedure requirements submitted to the Department ninety (90) days prior to the test date shall also include, if necessary, procedures to assure compliance with the above temperature monitoring conditions.

**# 022 [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.]

(a) 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:

(1) 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;

(2) 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);

(3) for CO, SO<sub>2</sub>, NO<sub>x</sub>, and visible emissions and temperature - as required by the Department for the system

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performance audit of the continuous emission monitors or to show compliance with the emission limits; and

(4) 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.

(b) Source testing 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 EPA Clean Air Act National Stack Testing Guidance, most recent version of DEP Source Testing Manual, most recent version of DEP Continuous Source Monitoring Manual, 25 Pa Code § 139, and/or source testing procedures approved by the Department prior to testing.

**III. MONITORING REQUIREMENTS.****# 023 [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.

**# 024 [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), 25 Pa Code § 139, and the most recent version of the Department's Continuous Source Monitoring Manual.

**# 025 [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 current version of the Department's Continuous Source Monitoring Manual, 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 CEMs unit using Relative Accuracy Test Audit (RATA).

(2) SO<sub>2</sub> monitored upstream and downstream of the air pollution control equipment.

(3) NO<sub>x</sub> 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.

**# 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 1-11-1996 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 O<sub>2</sub> (or CO<sub>2</sub>) content of the flue gas at each location where CO, SO<sub>x</sub>, or NO<sub>x</sub> emissions are monitored and shall comply with the test procedures and methods specified below:

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- (a) the span value of the O<sub>2</sub> (or CO<sub>2</sub>) monitor shall be 25% O<sub>2</sub> (or CO<sub>2</sub>);
- (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 CO<sub>2</sub> is selected for dilution corrections, the relationship between O<sub>2</sub> and CO<sub>2</sub> levels shall have been established during the initial performance test, and may be re-established during performance compliance tests.

**# 027 [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.

**IV. RECORDKEEPING REQUIREMENTS.****# 028 [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 §§ 129.115, 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.]

(a) 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 current version of the Department's Continuous Source Monitoring Manual, and the recordkeeping requirements established in PADEP's State Plan.

(b) The permittee shall maintain records of data calculations sufficient to demonstrate compliance with NO<sub>x</sub> limits of this permit as required under 25 Pa Code § 129.115(f) and 40 CFR § 52.46, including, but not limited to:

- (1) All 1-hour average NO<sub>x</sub> emissions concentrations;
- (2) All 24- hour daily arithmetic averages;
- (3) All 30-day rolling averages;
- (4) The start and stop times for all preheat, startup and shutdown events;
- (5) The duration of startup and shutdown events;
- (6) Calendar dates and times for which valid hourly and 24-hr daily NO<sub>x</sub> emissions data is not available and reason for not obtaining data;
- (7) All calculations used for calculation of hourly, 24-hr daily and 30-day rolling average emissions; and
- (8) All CEMS calibration data and data from Relative Accuracy Test Audits performed.

(c) All records shall be retained for at least 5 years and shall be made available to the Department upon request.

(d) Records may be kept in paper, computer- readable or other format approved by DEP.

**# 029 [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.

**# 030 [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.



**SECTION E. Source Group Restrictions.****# 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. 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.

**# 032 [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.

**# 033 [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 SO<sub>2</sub>, NO<sub>x</sub> 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 SO<sub>2</sub>, NO<sub>x</sub>, 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: SO<sub>2</sub>, NO<sub>x</sub>, 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 SO<sub>2</sub>, NO<sub>x</sub> 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 SO<sub>2</sub>, NO<sub>x</sub>, 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;

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(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 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.

**# 034 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

The permittee shall record all CEMS emissions consistent with the applicable the latest edition of the Department's Continuous Source Monitoring Manual or State Plan for this facility, whichever is more stringent.

**V. REPORTING REQUIREMENTS.****# 035 [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 Air Enforcement and Compliance Assistance (3AP20)  
U.S. EPA, Region III  
Four Penn Center  
1600 John F. Kennedy Boulevard  
Philadelphia, PA 19103-2029, and

Regional Manager  
Air Quality  
Department of Environmental Protection  
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 ending each December and June, respectively, and shall include the following:

- (1) a list of PM, lead, cadmium, opacity, mercury, dioxin/furans, hydrogen chloride, and fugitive ash emission levels

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achieved during the most recent performance test;

(2) a list of the highest emission level recorded for SO<sub>2</sub>, NO<sub>x</sub>, 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 SO<sub>2</sub>, NO<sub>x</sub>, 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 SO<sub>2</sub>, NO<sub>x</sub>, 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) SO<sub>2</sub>, NO<sub>x</sub>, 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 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;

(e) the summary of data reported shall have all emissions and/or parameter level highlighted that did not achieve the emission or specified parameter limit; and

(f) documentation of periods when all certified chief facility operators and certified shift supervisors are off site for more than 12 hours.

**# 036 [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 current version of the Department's Continuous Source Monitoring Manual.

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.

**# 037 [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;

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- (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 an electronic copy 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.****# 038 [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.

**# 039 [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 preceeding 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.

**# 040 [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).]

**# 041 [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 CEMS results as specified in this permit section, and the dispersion modeling 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 CEMS.

**# 042 [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:

**SECTION E. Source Group Restrictions.**

- (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.

**# 043 [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.

**# 044 [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.]

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.

**# 045 [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).

**# 046 [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.

**# 047 [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.

**# 048 [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

**SECTION E. Source Group Restrictions.**

waste load to be processed by the facility.

**# 049 [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 in the combustion zone 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.

**# 050 [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.

**# 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 7.H.]

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

- (a) carbon monoxide (CO), oxygen (O<sub>2</sub>) 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 equal to 75% valid readings/hour (45 minutes); and
- (c) hydrochloric acid (HCl), sulfur dioxide (SO<sub>2</sub>), and nitrogen oxides (NO<sub>x</sub>): 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).

**# 052 [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.

**SECTION E. Source Group Restrictions.****# 053 [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 SO<sub>2</sub> are maintained at or below the concentrations for each combustor, or at those concentrations established to reflect the control percentages of HCl or SO<sub>2</sub>.

**# 054 [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<sub>x</sub> is maintained at or below the concentration described for each combustor.

**# 055 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall perform all necessary modifications to the SNCR system and combustors to accommodate the transitions from SNCR to ESNCR then to ASNCR. Modifications may include, but are not limited to the following:

- (1) Replacement of metering pumps and distribution panels;
- (2) Installation of new injectors and/or relocation of existing injectors;
- (3) Modification of boiler tubes and other components for new and relocated injector installation; and
- (4) Adjustment of the system controls to optimize ESNCR / ASNCR performance.

(b) The permittee shall inform DEP of the date on which each upgrade is completed.

(c) Within 90 days of completion of each upgrade, ESNCR and ASNCR, the permittee shall provide DEP a report listing items modified, installed or replaced as part of the upgrade. The report shall also contain operational data such as injector pressure range, flowrates, etc. at which the modified system is operated in order to comply with the NO<sub>x</sub> emissions limits.

(d) The permittee shall maintain all upgraded equipment according to manufacturer specifications and according to good air pollution control practices.

**VII. ADDITIONAL REQUIREMENTS.****# 056 [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. NO<sub>x</sub> emissions are controlled by combustion controls in conjunction with selective non-catalytic reduction system.

**# 057 [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	
105.000 PPMV	On and after 6/1/2026; 30-day rolling average, normal operation at 7% O2, other operating modes at stack O2	NOX	
110.000 PPMV/Hr	On and after 6/1/2026; 24-hr average, normal operation at 7% O2, other operating modes at stack O2	NOX	
130.000 PPMV	On and after 8/1/2024; 24-hr average, normal operation at 7% O2, other operating modes at stack O2	NOX	
150.000 PPMV	Before 8/1/2024; 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	
105.000 PPMV	On and after 6/1/2026; 30-day rolling average, normal operation at 7% O2, other operating modes at stack O2	NOX	

**SECTION G. Emission Restriction Summary.**

Source Id	Source Descriptor		
110.000	PPMV/Hr	On and after 6/1/2026; 24-hr average, normal operation at 7% O2, other operating modes at stack O2	NOX
130.000	PPMV	On and after 8/1/2024; 24-hr average, normal operation at 7% O2, other operating modes at stack O2	NOX
150.000	PPMV	Before 8/1/2024; 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
101	GAS FIRED HEATERS		
<b>Emission Limit</b>		<b>Pollutant</b>	
0.400	Tons/Yr		NOX
500.000	PPMV		SOX
0.040	gr/DRY FT3		TSP
0.140	Tons/Yr		VOC
200	2022 JOHN DEERE EMERG FIRE PUMP		
<b>Emission Limit</b>		<b>Pollutant</b>	
500.000	PPMV		SOX
0.040	gr/DRY FT3		TSP
P001	LIME SILO		
<b>Emission Limit</b>		<b>Pollutant</b>	
0.020	gr/DRY FT3	particulate matter	TSP

**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.

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 APS: 490737, AUTH ID: 511939. November, 2003. The Department amended the TVOP to address changes in the CEMs 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.
- CEMs 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).

June 2024. RACT III Significant modification under APS 490737 AUTH 1421286; Renewal under AUTH 1370210-

Changes include:

- new NOx emissions limits to meet alternative RACT III proposed limits and new limits under Good Neighbor Plan (GNP)
- modification from SNCR to ENSCR (130 ppm) then to ASNCR (110 ppm)
- including recordkeeping for demonstrating compliance with RACT III and GNP
- addition of new fire pump, removal of old fire pump

August 2024

AUTH 1494670, APS 490737: Administrative Amendment to change responsible official from David Jones to Perry Alburg.



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

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