



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

**TITLE V/STATE OPERATING PERMIT**

Issue Date: March 3, 2023

Effective Date: March 3, 2023

Expiration Date: March 2, 2028

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to operate the air emission source(s) more fully described in this permit. This Facility is subject to all terms and conditions specified in this permit. Nothing in this permit relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable applicable requirements unless otherwise designated as "State-Only" or "non-applicable" requirements.

**TITLE V Permit No: 46-00175**

Federal Tax Id - Plant Code: 23-1672408-1

**Owner Information**

Name: HATFIELD TWP MUNI AUTH MONTGOMERY CNTY

Mailing Address: 3200 ADVANCE LN  
COLMAR, PA 18915-9766

**Plant Information**

Plant: HATFIELD TWP MUNI AUTH/COLMAR

Location: 46 Montgomery County 46930 Hatfield Township

SIC Code: 4952 Trans. & Utilities - Sewerage Systems

**Responsible Official**

Name: PETER R DORNEY

Title: EXEC DIR

Phone: (215) 822 - 9300

Email: pdorneyhtma@verizon.net

**Permit Contact Person**

Name: PETER R DORNEY

Title: EXEC DIR

Phone: (215) 822 - 9300

Email: pdorneyhtma@verizon.net

[Signature] \_\_\_\_\_

JAMES D. REBARCHAK, SOUTHEAST REGION AIR PROGRAM MANAGER



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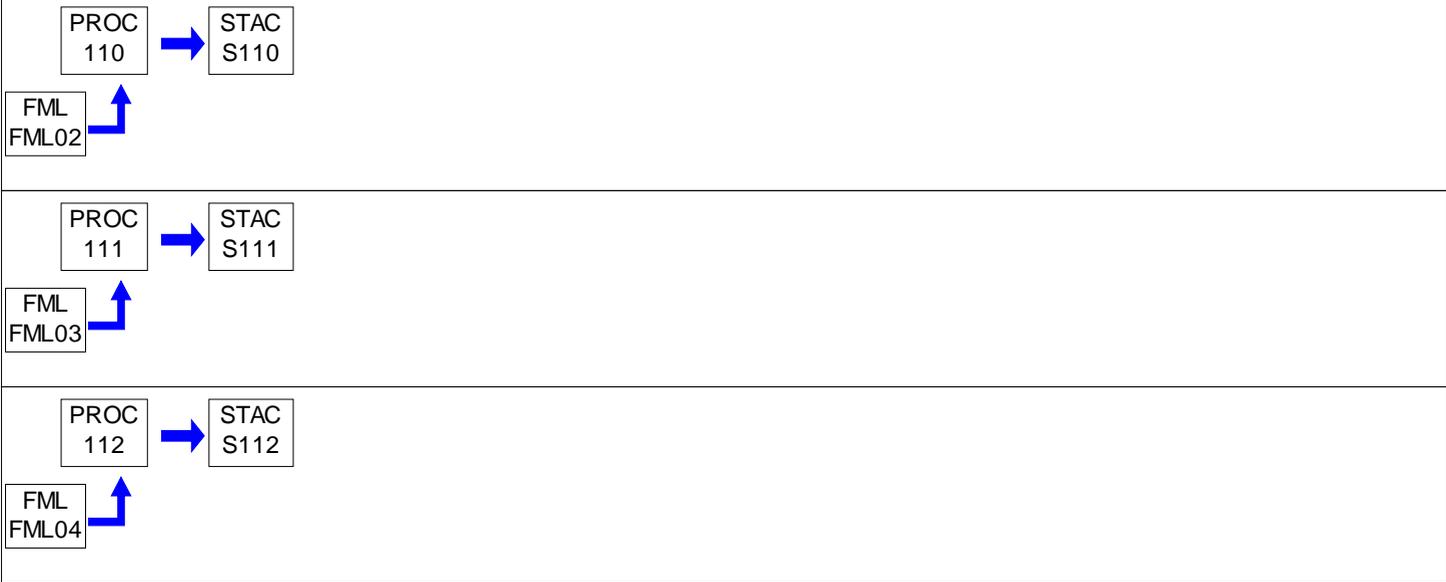
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**SECTION B. General Title V Requirements****#001 [25 Pa. Code § 121.1]****Definitions**

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 § 127.513]****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

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the date of issuance of this Title V Operating Permit, or on the submittal date specified elsewhere in the permit, to the Department in accordance with the submission requirements specified in Section B, Condition #022 of this permit. The Title V compliance certification shall be emailed to EPA at R3\_APD\_Permits@epa.gov.

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

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

- (1) The date, place (as defined in the permit) and time of sampling or measurements.
- (2) The dates the analyses were performed.
- (3) The company or entity that performed the analyses.
- (4) The analytical techniques or methods used.
- (5) The results of the analyses.
- (6) The operating conditions as existing at the time of sampling or measurement.

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

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

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

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

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

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

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

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

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

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

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

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

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

- (1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:
  - (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
  - (ii) The date on which a regulated substance is first present above a threshold quantity in a process.
- (2) The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.
- (3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(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).

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

The permittee shall limit the amount of nitrogen oxide emissions from this facility to less than 25.00 tons per 12-month rolling period.

If the permittee finds it necessary to relax this 25-ton rolling cap at some future date, the source obligation requirements of 25 Pa. Code § 127.203(e)(2) apply.

**# 007 [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.

**II. TESTING REQUIREMENTS.****# 008 [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 and the most current version of the DEP Source Testing Manual, 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.

**III. MONITORING REQUIREMENTS.****# 009 [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.

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

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

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

**SECTION C. Site Level Requirements**

(1) odors which may be objectionable and which causes annoyance or discomfort to the public (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 for the next six month period.

(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, complaints, monitoring results, and/or Department findings.

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

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

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.

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

The permittee shall provide to the Department upon request records of calculations or data used for determining emissions from each source located at this facility.

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

The permittee shall perform and maintain records of facility-wide NOx emission calculations on a monthly, and 12-month rolling basis.

**# 014 [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.

**SECTION C. Site Level Requirements**

(d) increases resulting from the issuance of a plan approval and subsequent operating permit.

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

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

(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.

(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.

**# 016 [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:

**SECTION C. Site Level Requirements**

(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. xxx, Facility Namexxx."

(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).

**VI. WORK PRACTICE REQUIREMENTS.****# 017 [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.

**# 018 [25 Pa. Code §127.441]****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.

**# 019 [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.

**# 020 [25 Pa. Code §127.441]****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.

**VII. ADDITIONAL REQUIREMENTS.**

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

**VIII. COMPLIANCE CERTIFICATION.**

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



## SECTION C. Site Level Requirements

### IX. COMPLIANCE SCHEDULE

No compliance milestones exist.

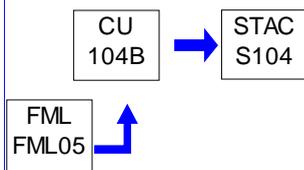
**\*\*\* Permit Shield In Effect \*\*\***

**SECTION D. Source Level Requirements**

Source ID: 104B

Source Name: REPLACEMENT WASTE OIL BURNER

Source Capacity/Throughput: 0.250 MMBTU/HR

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

# 001 [25 Pa. Code §123.22]

**Combustion units**

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO<sub>2</sub>, from any combustion unit, in the Southeast Air Basin, in excess of 1.2 pounds per million Btu of heat input, pursuant to 25 Pa. Code § 123.22(e)(3).

**Operation Hours Restriction(s).**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall limit the hours of operation for this source to 1,460 hours per 12-month rolling period.

**II. TESTING REQUIREMENTS.**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall test the waste oil used by this source for sulfur, ash, lead, and total halogens as chlorine content in the following manner:

- (a) The permittee shall test the waste oil used by this source on a quarterly basis.
- (b) After one year of testing the waste oil on a quarterly basis, the permittee may petition the Department to test the waste oil on a semi-annual basis.
- (c) After one year of testing the waste oil on a semi-annual basis, the permittee may petition the Department to test the waste oil on an annual basis.
- (d) The Department reserves the right to change the frequency of testing at any time, based on but not limited to review of record keeping, complaints, testing results, and/or Department findings.

**III. MONITORING REQUIREMENTS.**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Using a Department approved method, the permittee shall monitor the following information for this source when this source is in operation:

- (a) The amount of fuel consumed.
- (b) The monthly of hours of operation.
- (c) The 12-month rolling hours of operation

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) Using a Department approved method, the permittee shall keep records of the following information for this source when this source is in operation:

- (1) The amount of fuel consumed.
- (2) The monthly of hours of operation.
- (3) The 12-month rolling hours of operation.

(b) The permittee shall calculate and record the nitrogen oxide emissions and sulfur dioxide emissions from this source on a monthly and 12-month rolling basis.

(c) If the emissions of sulfur dioxide do not exceed 20% of the applicable limits listed in this permit, the permittee may keep records of calculations on file that demonstrate compliance with the sulfur dioxide emissions limitations as an alternative to calculating emissions for sulfur dioxide as directed in paragraph (b) above.

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

The permittee shall keep records of the sulfur content, ash content, lead content, and total halogens as chlorine content of the waste oil as determined through testing, delivery receipts, or other Department approved reference.

**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 permittee shall operate and maintain this source in accordance with manufacturer's specifications.

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

This source consists of a Clean Burn brand boiler, model CB-2501 rated for 0.25 MMBtu/hr.

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

**SECTION D. Source Level Requirements**

Source ID: 201

Source Name: SEWAGE SLUDGE INCINERATOR

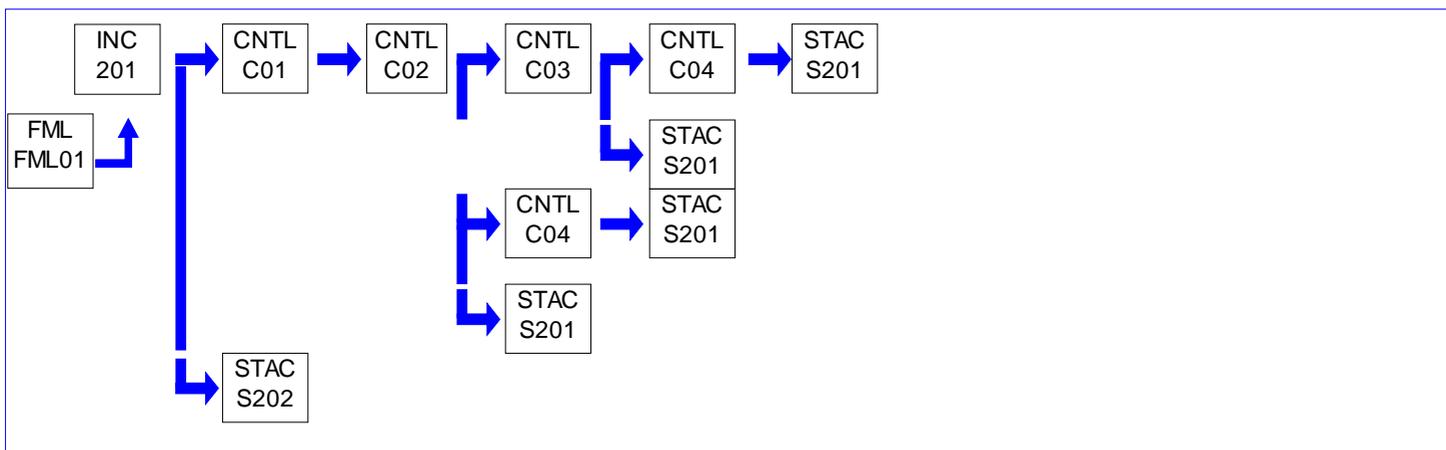
Source Capacity/Throughput:

3.600 MCF/HR

Natural Gas

1.000 Tons/HR

SEWAGE SLUDGE

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.12]****Incinerators**

No person may permit the emission to the outdoor atmosphere of particulate matter from any incinerator, at any time, in such a manner that the particulate matter concentration in the effluent gas exceeds 0.1 grain per dry standard cubic foot, corrected to 12% carbon dioxide.

[Compliance with Condition #007(1)(a) for this source ensures compliance with this limit.]

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

The permittee shall limit the emissions of nitrogen oxides into the atmosphere from this source to less than 22.7 tons per 12-month rolling period.

[To ensure compliance with this limit, the permittee shall restrict sludge throughput to 14,506,200 pounds, dry, per year (7,253.1 tons, dry, per year), based on a 12-month rolling period.]

**# 003 [40 CFR Part 503 Standards for the Use or Disposal of Sewage Sludge §40 CFR 503.40]****Subpart E - Incineration****Applicability.**

The monthly average concentration of carbon monoxide in the exit gas from a sewage sludge incinerator stack, corrected to zero percent moisture and seven percent oxygen, shall not exceed 100 parts per million on a volumetric basis.

**# 004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.152]****Subpart O - Standards of Performance for Sewage Treatment Plants****Standard for particulate matter.**

The permittee shall operate the incinerator in the following manner:

- The particulate matter emissions to the atmosphere shall not exceed 1.3 pounds per ton of dry sludge input.
- The opacity of the exhaust gases shall not exceed 20 percent at any time.

[Compliance with requirements above in this streamlined permit condition assures compliance with the provisions found in 25 Pa. Code § 123.12 and §123.41.]

**SECTION D. Source Level Requirements****# 005 [40 CFR Part 61 NESHAPs §40 CFR 61.32]****Subpart C--National Emission Standard for Beryllium Emission standard.**

The Beryllium (Be) emissions to the atmosphere from this incinerator shall not exceed 10 grams per 24-hour period.

**# 006 [40 CFR Part 61 NESHAPs §40 CFR 61.52]****Subpart E--National Emission Standard for Mercury Emission standard.**

The Mercury (Hg) emissions to the atmosphere from the incinerator shall not exceed 3,200 grams of mercury per 24-hour period.

**# 007 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.15955]****Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010****What emission limits and standards must I meet and by when?**

(a) The permittee shall meet the instantaneous emission limits and standards specified in Table 3 of 40 CFR Part 62, Subpart LLL. The emission limits and standards apply at all times the unit is operating and during periods of malfunction. The emission limits and standards apply to emissions from a bypass stack or vent while sewage sludge is in the combustion chamber (i.e., until the sewage sludge feed to the combustor has been cut off for a period of time not less than the sewage sludge incineration residence time).

- (1) Particulate Matter: 80 milligrams per dry standard cubic meter
- (2) Hydrogen Chloride: 1.2 parts per million by dry volume
- (3) Carbon Monoxide: 3,800 parts per million by dry volume
- (4) Dioxins/Furans:
  - (i) Dioxins/Furans (total mass basis): 5.0 nanograms per dry standard cubic meter, OR
  - (ii) Dioxins/Furans (toxic equivalency basis): 0.32 nanograms per dry standard cubic meter
- (5) Mercury: 0.28 milligrams per dry standard cubic meter
- (6) Oxides of Nitrogen: 220 parts per million by dry volume
- (7) Sulfur Dioxide: 26 parts per million by dry volume
- (8) Cadmium: 0.095 milligrams per dry standard cubic meter
- (9) Lead: 0.30 milligrams per dry standard cubic meter
- (10) Fugitive Emissions from Ash Handling: visible emissions of combustion ash from an ash conveying system (including conveyor transfer points) for no more than 5% of any compliance test hourly observation period.

(b) All emission limits are measured at 7-percent oxygen, dry basis at standard conditions.

[Compliance with particulate matter emissions limit in this condition ensures compliance with 25 Pa Code §123.12]

**# 008 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.15985]****Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010****How do I establish my operating limits?**

(a) The permittee shall establish site-specific operating limits specified in paragraphs (b) through (g) of this condition during the initial performance test required in 40 CFR § 62.15980. The permittee shall meet the requirements in 40 CFR § 62.16005(d) to confirm these operating limits or re-establish new operating limits using operating data recorded during any performance tests or performance evaluations required in 40 CFR § 62.16000. The permittee shall follow the data measurement and recording frequencies and data averaging times specified in Table 4 to 40 CFR Part 62, Subpart LLL, and the permittee shall follow the testing, monitoring and calibration requirements specified in 40 CFR §§ 62.16015 and 62.16020. The permittee is not required to establish operating limits for the operating parameters listed in Table 4 to 40 CFR Part 62, Subpart LLL for a control device if a continuous monitoring system is used to demonstrate compliance with the emission limits in Table 3 to 40 CFR Part 62, Subpart LLL for the applicable pollutants, as follows:

- (1) For a scrubber designed to control emissions of hydrogen chloride or sulfur dioxide, the permittee is not required to establish an operating limit and monitor scrubber liquid flow rate or scrubber liquid pH if the continuous monitoring system specified in 40 CFR §§ 60.4865(b) and 60.4885(b) is used to demonstrate compliance with the emission limit for hydrogen

**SECTION D. Source Level Requirements**

chloride or sulfur dioxide.

(2) For a scrubber designed to control emissions of particulate matter, cadmium and lead, the permittee is not required to establish an operating limit and monitor pressure drop across the scrubber or scrubber liquid flow rate if the continuous monitoring system specified in 40 CFR §§ 60.4865(b) and 60.4885(b) is used to demonstrate compliance with the emission limit for particulate matter, cadmium and lead.

(3) For an electrostatic precipitator designed to control emissions of particulate matter, cadmium and lead, the permittee is not required to establish an operating limit and monitor secondary voltage of the collection plates, secondary amperage of the collection plates or effluent water flow rate at the outlet of the electrostatic precipitator if the continuous monitoring system specified in 40 CFR §§ 60.4865(b) and 60.4885(b) is used to demonstrate compliance with the emission limit for particulate matter, lead and cadmium.

(b) Minimum pressure drop across each wet scrubber used to meet the particulate matter, lead and cadmium emission limits in Table 3 to 40 CFR Part 62, Subpart LLL, equal to the lowest 4-hour average pressure drop across each such wet scrubber measured during the most recent performance test demonstrating compliance with the particulate matter, lead and cadmium emission limits.

(c) Minimum scrubber liquid flow rate (measured at the inlet to each wet scrubber), equal to the lowest 4-hour average liquid flow rate measured during the most recent performance test demonstrating compliance with all applicable emission limits.

(d) Minimum scrubber liquid pH for each wet scrubber used to meet the sulfur dioxide or hydrogen chloride emission limits in Table 3 to 40 CFR Part 62, Subpart LLL, equal to the lowest 1-hour average scrubber liquid pH measured during the most recent performance test demonstrating compliance with the sulfur dioxide and hydrogen chloride emission limits.

(e) Minimum combustion chamber operating temperature (or minimum afterburner temperature), equal to the lowest 4-hour average combustion chamber operating temperature (or afterburner temperature) measured during the most recent performance test demonstrating compliance with all applicable emission limits.

(f) Minimum power input to the electrostatic precipitator collection plates, equal to the lowest 4-hour average secondary electric power measured during the most recent performance test demonstrating compliance with the particulate matter, lead and cadmium emission limits. Power input must be calculated as the product of the secondary voltage and secondary amperage to the electrostatic precipitator collection plates. Both the secondary voltage and secondary amperage must be recorded during the performance test.

(g) Minimum effluent water flow rate at the outlet of the electrostatic precipitator, equal to the lowest 4-hour average effluent water flow rate at the outlet of the electrostatic precipitator measured during the most recent performance test demonstrating compliance with the particulate matter, lead and cadmium emission limits.

**Throughput Restriction(s).**

**# 009 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The sludge charging rate to the incinerator shall not exceed 1750 pounds per hour, dry (87.5% design capacity) as a daily average feed rate calculated as described in Condition #020 for this source.

The total sludge throughput to the sewage sludge incinerator shall not exceed 14,506,200 dry pounds per year (7,253.1 dry tons per year), based on a 12-month rolling period.

[Compliance with either of these limits ensures compliance with the 22.7 ton per year NO<sub>x</sub> limit for this source.]

**SECTION D. Source Level Requirements****Control Device Efficiency Restriction(s).****# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain a minimum operating pressure drop of 25 inches water gauge across the throat of the venturi scrubber and shall maintain a water flow rate of at least 85 gallons per minute to the venturi scrubber.

**# 011 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.15960]****Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010****What operating limits and requirements must I meet and by when?**

The permittee shall comply with the following site specific operating limits:

(a) Afterburner Combustion Chamber Temperature - Minimum temperature of 1500°F, measured continuously, recorded every 15 minutes, and averaged over a 12-hour block period.

(b) Fugitive Emissions from Ash Handling - Less than 5%, on any compliance test hourly observation period.

(c) Pressure Drop Across the Combined Wet Scrubber system, which includes the Venturi and Impingement Plate - Minimum pressure drop of 30.7 in. WC, measured continuously, recorded every 15 minutes, and averaged over a 12-hour block period.

(d) Scrubber Liquid Flow Rate - Minimum flow rate of 457 GPM, measured continuously, recorded every 15 minutes, and averaged over a 12-hour block period.

(e) Scrubber Liquid pH - Minimum pH of 4.6 SU, measured continuously, recorded every 15 minutes, and averaged over a 3-hour block period.

(f) WESP Secondary Voltage - Minimum power input of 1837 Watts, measured continuously, recorded hourly, and averaged over a 12-hour block period.

(g) WESP Effluent Water Flow Rate - Minimum effluent flow rate of 0.95 GPM, measured continuously, recorded hourly, and averaged over a 12-hour block period.

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

(a). Sludge generated from outside sources shall be analyzed using U.S. EPA publication SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, for Copper, Selenium, Zinc Arsenic, Beryllium, Cadmium, Chromium, Nickel, Mercury, and Lead.

(b). Sludge generated from outside sources shall be analyzed by either the Authority or the sludge provider(s) according to the frequency specified below:

Amount of Sludge from Each Provider ----- Frequency  
(metric tons per year)

Below 290 -----	once/year
290 to 1,500 -----	once/quarter
1,500 to 15,000 -----	once/60 days

**# 013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.154]****Subpart O - Standards of Performance for Sewage Treatment Plants****Test methods and procedures.**

(a). In conducting the performance tests required in 40 CFR § 60.8, the owner or operator shall use as reference methods and procedures the test methods in 40 CFR § 60 Appendix A or other methods and procedures specified in this condition,

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except as provided for in 40 CFR § 60.8(b).

(b). The owner or operator shall determine compliance with the particulate matter emission standards in 40 CFR § 60.152 as follows:

(1). The emission rate (E) of particulate matter for each run shall be computed using the following equation:

$$E = cs * Qsd / K * S$$

where:

E = emission rate of particulate matter, g/kg (lb/ton) of dry sludge input.

cs = concentration of particulate matter, g/dscm (gr/dscf).

Qsd = volumetric flow rate of effluent gas, dscm/hr (dscf/hr).

S = charging rate of dry sludge during the run, kg/hr (ton/hr).

K = conversion factor, 1.0 g/g (7,000 gr/lb).

(2). Method 5 shall be used to determine the particulate matter concentration (cs) and the volumetric flow rate (Qsd) of the effluent gas. The sampling time and sample volume for each run shall be at least 60 minutes and 0.90 dscm (31.8 dscf).

(3). The dry sludge charging rate (S) for each run shall be computed using either of the following equations:

$$S = Sm * Rdm / \theta$$

$$S = Sv * Rdv / Kv * \theta$$

where:

S = charging rate of sludge, kg/hr (ton/hr).

Sm = total mass of sludge charged, kg (ton).

Rdm = average mass of dry sludge per unit mass of sludge charged, mg/mg (ton/ton).

theta = duration of run, hr.

Sv = total volume of sludge charged, m<sup>3</sup> (gal).

Rdv = average mass of dry sludge per unit volume of sludge charged, kg/m<sup>3</sup> (lb/gal).

Kv = conversion factor, 1.0 g/g (2,000 lb/ton).

(4). The flow measuring device of 40 CFR § 60.153(a)(1) shall be used to determine the total mass (Sm) or volume (Sv) of sludge charged to the incinerator during each run. If the flow measuring device is on a time rate basis, readings shall be taken and recorded at 5-minute intervals during the run and the total charge of sludge shall be computed using the following equations, as applicable:

$$Sm = [\text{Sum } (i = 1 \text{ to } n) (Qmi / \theta_{tai})]$$

$$Sv = [\text{Sum } (i = 1 \text{ to } n) (Qvi / \theta_{tai})]$$

where:

Sm = Total mass of sludge charged to the incinerator during the test run.

Sv = Total volume of sludge charged to the incinerator during the test run.

Qmi = average mass flow rate calculated by averaging the flow rates at the beginning and end of each interval "i", kg/hr (ton/hr).

Qvi = average volume flow rate calculated by averaging the flow rates at the beginning and end of each interval "i", m<sup>3</sup>/hr (gal/hr).

theta<sub>i</sub> = duration of interval "i", hr.

(5). Samples of the sludge charged to the incinerator shall be collected in nonporous jars at the beginning of each run and at approximately 1-hour intervals thereafter until the test ends, and "209F. Method for Solid and Semisolid Samples" (incorporated by reference - see 40 CFR § 60.17) shall be used to determine dry sludge content of each sample (total solids

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residue), except that :

- (i). Evaporating dishes shall be ignited to at least 103 deg C rather than the 550 deg C specified in step 3(a)(1).
  - (ii). Determination of volatile residue, step 3(b) may be deleted.
  - (iii). The quantity of dry sludge per unit sludge charged shall be determined in terms of kg/m<sup>3</sup> (lb/gal) or kg/kg (ton/ton).
  - (iv). The average dry sludge content shall be the arithmetic average of all the samples taken during the run.
- (6). Method 9 and the procedures in 40 CFR § 60.11 shall be used to determine opacity.
- (c). The owner or operator of any sludge incinerator subject to the provisions of 40 CFR 60 § Subpart O shall conduct a performance test during which the monitoring and recording devices required under 40 CFR § 60.153(a)(1), (b)(1), (b)(2), (b)(3) and (b)(4) are installed and operating and for which the sampling and analysis procedures required under 40 CFR § 60.153(b)(5) are performed. The owner or operator shall provide the Administrator at least 30 days prior notice of the performance test to afford the Administrator the opportunity to have an observer present.
- (1). For incinerators that commence construction or modification after April 18, 1986, the date of the performance test shall be determined by the requirements in 40 CFR § 60.8.

**# 014 [40 CFR Part 61 NESHAPs §40 CFR 61.33]**

**Subpart C--National Emission Standard for Beryllium**  
**Stack sampling.**

(a). Unless a waiver of emission testing is obtained under 40 CFR § 61.13, each owner or operator required to comply with 40 CFR § 61.32(a) shall test emissions from the source according to Method 104 of 40 CFR § 61 Appendix B. Method 103 of 40 CFR § 61 Appendix B is approved by the Administrator as an alternative method for sources subject to 40 CFR § 61.32(a). The emission test shall be performed -

(1). Within 90 days of the effective date in the case of an existing source or a new source which has an initial startup date preceding the effective date; or

(2). Within 90 days of startup in the case of a new source which did not have an initial startup date preceding the effective date.

(b). The Administrator shall be notified at least 30 days prior to an emission test so that he may at his option observe the test.

(c). Samples shall be taken over such a period or periods as are necessary to accurately determine the maximum emissions which will occur in any 24-hour period. Where emissions depend upon the relative frequency of operation of different types of processes, operating hours, operating capacities or other factors, the calculation of maximum 24-hour-period emissions will be based on that combination of factors which is likely to occur during the subject period and which result in the maximum emissions. No changes in the operation shall be made, which would potentially increase emissions above that determined by the most recent source test, until a new emission level has been estimated by calculation of the results reported to the Administrator.

(d). All samples shall be analyzed and beryllium emissions shall be determined within 30 days after the source test. All determinations shall be registered letter dispatched before the close of the next business day following such determination.

(e). Records of emission test results and other data needed to determine total emissions shall be retained at the source and made available, for inspection by the Administrator, for a minimum of 2 years.

**# 015 [40 CFR Part 61 NESHAPs §40 CFR 61.54]**

**Subpart E--National Emission Standard for Mercury**  
**Sludge sampling.**

(a). As a means for demonstrating compliance with 40 CFR § 61.52(b), the permittee may use Method 105 of 40 CFR § 61

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Appendix B. A sludge test shall be conducted within 90 days of the effective date of these regulations in the case of an existing source or a new source which has an initial startup date preceding the effective date.

(b). The Administrator shall be notified at least 30 days prior to a sludge sampling test, so that the Administrator may observe the test.

(c). Sludge shall be sampled according to (c)(1) below. Sludge charging rate for the plant shall be determined according to (c)(2) below, and the sludge analysis shall be performed according to (c)(3) below.

(1). The sludge shall be sampled according to Method 105 - Determination of Mercury in Wastewater Treatment Plant Sewage Sludges. A total of three composite samples shall be obtained within an operating period of 24 hours. When the 24-hour operating period is not continuous, the total sampling period shall not exceed 72 hours after the first grab sample is obtained. Samples shall not be exposed to any condition that may result in mercury contamination or loss.

(2). The maximum 24-hour period sludge incineration or drying rate shall be determined by use of a flow rate measurement device that can measure the mass rate of sludge charged to the incinerator or dryer with an accuracy of +/- 5 percent over its operating range. Other methods of measuring sludge mass charging rates may be used if they have received prior approval by the Administrator.

(3). The sampling, handling, preparation, and analysis of sludge samples shall be accomplished according to Method 105 in 40 CFR § 61 Appendix B.

(d). The mercury emissions shall be determined by use of the following equation.

$$E(\text{Hg}) = (M * Q * F_{sm}(\text{avg})) / 1000$$

where:

$E(\text{Hg})$  = Mercury emissions, g/day.

$M$  = Mercury concentration of sludge of a dry solids basis, ug/g.

$Q$  = Sludge charging rate, kg/day.

$F_{sm}(\text{avg})$  = Weight fraction of solids in the collected sludge after mixing.

1000 = Conversion factor, kg ug/g<sup>2</sup>.

(e). No changes in the operation of a plant shall be made after a sludge test has been conducted which would potentially increase emissions above the level determined by the most recent sludge test, until the new emission level has been estimated by calculation and the results reported to the Administrator.

(f). All sludge samples shall be analyzed for mercury content within 30 days after the sludge sample is collected. Each determination shall be reported to the Administrator by a registered letter dispatched within 15 calendar days following the date such determination is completed.

(g). Records of sludge sampling, charging rate determination and other data needed to determine mercury content of wastewater treatment plant sludges shall be retained at the source and made available, for inspection by the Administrator, for a minimum of 2 years.

**# 016 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.16000]**

**Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010**

**How and when do I demonstrate continuous compliance with the emission limits and standards?**

To demonstrate continuous compliance with the emission limits and standards specified in Table 3 to 40 CFR Part 62, Subpart LLL, the permittee shall use the procedures specified in paragraph (a) of this condition. In lieu of using the procedures specified in paragraph (a) of this condition, the permittee has the option to demonstrate initial compliance using the procedures specified in paragraph (b) of this condition for particulate matter, hydrogen chloride, carbon monoxide, dioxins/furans (total mass basis or toxic equivalency basis), mercury, nitrogen oxides, sulfur dioxide, cadmium, lead and

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fugitive emissions from ash handling. The permittee shall meet the requirements of paragraphs (a) and (b) of this condition, as applicable, and paragraphs (c) through (e) of this condition, according to the performance testing, monitoring, and calibration requirements in 40 CFR § 62.16015(a) and (b).

(a) Demonstrate continuous compliance using a performance test. Except as provided in paragraphs (a)(3) and (e) of this condition, following the date that the initial performance test for each pollutant in Table 3 to 40 CFR Part 62, Subpart LLL is completed, the permittee shall conduct a performance test for each such pollutant on an annual basis (between 11 and 13 calendar months following the previous performance test). The performance test shall be conducted using the test methods, averaging methods, and minimum sampling volumes or durations specified in Table 3 to 40 CFR Part 62, Subpart LLL and according to the testing, monitoring and calibration requirements specified in 40 CFR § 62.16015(a).

(1) The permittee shall conduct a repeat performance test at any time to establish new values for the operating limits to apply from that point forward. The Administrator may request a repeat performance test at any time.

(2) The permittee shall repeat the performance test within 60 days of a process change, as defined in 40 CFR § 62.16045.

(3) Except as specified in paragraphs (a)(1) and (2) of this condition, the permittee may conduct performance tests less often for a given pollutant, as specified in paragraphs (a)(3)(i) through (iii) of this condition.

(i) The permittee may conduct performance tests less often if the performance tests for the pollutant for at least 2 consecutive years show that the emissions are at or below 75-percent of the emission limit specified in Table 3 to 40 CFR Part 62, Subpart LLL, and there are no changes in the operation of the affected source or air pollution control equipment that could increase emissions. In this case, the permittee does not have to conduct a performance test for that pollutant for the next 2 years. The permittee shall conduct a performance test during the third year and no more than 37 months after the previous performance test.

(ii) If the SSI unit continues to meet the emission limit for the pollutant, the permittee may choose to conduct performance tests for the pollutant every third year if the emissions are at or below 75-percent of the emission limit, and if there are no changes in the operation of the affected source or air pollution control equipment that could increase emissions, but each such performance test must be conducted no more than 37 months after the previous performance test.

(iii) If a performance test shows emissions exceeded 75-percent of the emission limit for a pollutant, the permittee shall conduct annual performance tests for that pollutant until all performance tests over 2 consecutive years show compliance.

(b) Demonstrate continuous compliance using a continuous emissions monitoring system or continuous automated sampling system. The option to use a continuous emissions monitoring system for hydrogen chloride, dioxins/furans, cadmium or lead takes effect on the date a final performance specification applicable to hydrogen chloride, dioxins/furans, cadmium or lead is published in the Federal Register. The option to use a continuous automated sampling system for dioxins/furans takes effect on the date a final performance specification for such a continuous automated sampling system is published in the Federal Register. Collect data as specified in 40 CFR § 62.16015(b)(6) and use the following procedures:

(1) To demonstrate continuous compliance with the emission limits for particulate matter, hydrogen chloride, carbon monoxide, dioxins/furans (total mass basis or toxic equivalency basis), mercury, nitrogen oxides, sulfur dioxide, cadmium and lead, the permittee may substitute the use of a continuous monitoring system in lieu of conducting the annual performance test required in paragraph (a) of this condition, as follows:

(i) The permittee may substitute the use of a continuous emissions monitoring system for any pollutant specified in paragraph (b)(1) of this condition in lieu of conducting the annual performance test for that pollutant in paragraph (a) of this condition. For determining compliance with the carbon monoxide concentration limit using carbon monoxide CEMS, the correction to 7-percent oxygen does not apply during periods of startup or shutdown. Use the measured carbon monoxide concentration without correcting for oxygen concentration in averaging with other carbon monoxide concentrations (corrected to 7-percent oxygen) to determine the 24-hour average value.

(ii) The permittee may substitute the use of a continuous automated sampling system for mercury or dioxins/furans in lieu of conducting the annual mercury or dioxin/furan performance test in paragraph (a) of this condition.

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(2) If the permittee uses a continuous emissions monitoring system to demonstrate compliance with an applicable emission limit in paragraph (b)(1) of this condition, the permittee shall use the continuous emissions monitoring system and follow the requirements specified in 40 CFR § 62.16015(b). The permittee shall measure emissions according to 40 CFR § 60.13 to calculate 1-hour arithmetic averages, corrected to 7-percent oxygen (or carbon dioxide). The permittee shall demonstrate initial compliance using a 24-hour block average of these 1-hour arithmetic average emission concentrations, calculated using Equation 19-19 in section 12.4.1 of Method 19 of 40 CFR part 60, appendix A-7.

(3) If the permittee uses a continuous automated sampling system to demonstrate compliance with an applicable emission limit in paragraph (b)(1) of this condition, the permittee shall:

(i) Use the continuous automated sampling system specified in 40 CFR § 60.58b(p) and (q), and measure and calculate average emissions corrected to 7-percent oxygen (or carbon dioxide) according to 40 CFR § 60.58b(p) and the monitoring plan.

(A) Use the procedures specified in 40 CFR § 60.58b(p) to calculate 24-hour averages to determine compliance with the mercury emission limit in Table 3 to 40 CFR Part 62, Subpart LLL.

(B) Use the procedures specified in 40 CFR § 60.58b(p) to calculate 2-week averages to determine compliance with the dioxin/furan (total mass basis or toxic equivalency basis) emission limits in Table 3 to 40 CFR Part 62, Subpart LLL.

(ii) Update the monitoring plan as specified in 40 CFR § 60.4880(e). For mercury continuous automated sampling systems, the permittee shall use Performance Specification 12B of appendix B of part 75 of this chapter and Procedure 5 of appendix F of Part 60.

(4) Except as provided in paragraph (e) of this condition, the permittee shall complete the periodic performance evaluations required in the monitoring plan for any continuous emissions monitoring systems and continuous automated sampling systems, according to the schedule specified in the monitoring plan. If the permittee was previously determining compliance by conducting an annual performance test (or according to the less frequent testing for a pollutant as provided in paragraph (a)(3) of this condition), the permittee shall complete the initial performance evaluation required under the monitoring plan in 40 CFR § 62.15995 for the continuous monitoring system prior to using the continuous emissions monitoring system to demonstrate compliance or continuous automated sampling system. The performance evaluation shall be conducted using the procedures and acceptance criteria specified in 40 CFR § 62.15995(a)(3).

(c) To demonstrate compliance with the dioxins/furans toxic equivalency emission limit in paragraph (a) or (b) of this condition, the permittee shall determine dioxins/furans toxic equivalency as follows:

(1) Measure the concentration of each dioxin/furan tetra- through octachlorinated-isomer emitted using Method 23 at 40 CFR part 60, appendix A-7.

(2) For each dioxin/furan (tetra- through octachlorinated) isomer measured in accordance with paragraph (c)(1) of this condition, multiply the isomer concentration by its corresponding toxic equivalency factor specified in Table 5 to 40 CFR Part 62, Subpart LLL.

(3) Sum the products calculated in accordance with paragraph (c)(2) of this condition to obtain the total concentration of dioxins/furans emitted in terms of toxic equivalency.

(d) The permittee shall submit an annual compliance report as specified in 40 CFR § 62.16030(c). The permittee shall submit a deviation report as specified in 40 CFR § 62.16030(d) for each instance that you did not meet each emission limit in Tables 3 to 40 CFR Part 62, Subpart LLL.

(e) If the permittee demonstrates continuous compliance using a performance test, as specified in paragraph (a) of this condition, then the provisions of this paragraph (e) apply. If a force majeure is about to occur, occurs, or has occurred for which the permittee intends to assert a claim of force majeure, the permittee shall notify the Administrator in writing as specified in 40 CFR § 62.16030(f). The permittee shall conduct the performance test as soon as practicable after the force majeure occurs. The Administrator will determine whether or not to grant the extension to the performance test deadline, and will notify you in writing of approval or disapproval of the request for an extension as soon as practicable. Until an

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extension of the performance test deadline has been approved by the Administrator, the permittee remains strictly subject to the requirements of 40 CFR Part 62, Subpart LLL.

**# 017 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.16015]****Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010****What are the performance testing, monitoring, and calibration requirements for compliance with the emission limits and standards?**

The permittee shall meet the performance testing requirements specified in this condition.

Performance testing requirements.

(1) All performance tests shall consist of a minimum of three test runs conducted under conditions representative of normal operations, as specified in 40 CFR § 60.8(c). Emissions in excess of the emission limits or standards during periods of startup, shutdown, and malfunction are considered deviations from the applicable emission limits or standards.

(2) The permittee shall document that the dry sludge burned during the performance test is representative of the sludge burned under normal operating conditions by:

(i) Maintaining a log of the quantity of sewage sludge burned during the performance test by continuously monitoring and recording the average hourly rate that sewage sludge is fed to the incinerator.

(ii) Maintaining a log of the moisture content of the sewage sludge burned during the performance test by taking grab samples of the sewage sludge fed to the incinerator for each 8 hour period that testing is conducted.

(3) All performance tests shall be conducted using the test methods, minimum sampling volume, observation period, and averaging method specified in Table 3 to 40 CFR Part 62, Subpart LLL.

(4) Method 1 at 40 CFR part 60, appendix A, shall be used to select the sampling location and number of traverse points.

(5) Method 3A or 3B at 40 CFR part 60, appendix A-2, shall be used for gas composition analysis, including measurement of oxygen concentration. Method 3A or 3B at 40 CFR part 60, appendix A-2, shall be used simultaneously with each method.

(6) All pollutant concentrations shall be adjusted to 7-percent oxygen using Equation 1 of this condition:

$$C_{adj} = C_{meas} \frac{(20.9 - 7)}{(20.9 - \%O_2)} \quad (\text{Eq. 1})$$

Where:

$C_{adj}$  = Pollutant concentration adjusted to 7 percent oxygen.

$C_{meas}$  = Pollutant concentration measured on a dry basis.

$(20.9 - 7)$  = 20.9 percent oxygen - 7 percent oxygen (defined oxygen correction basis).

20.9 = Oxygen concentration in air, percent.

$\%O_2$  = Oxygen concentration measured on a dry basis, percent.

(7) Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in 40 CFR Part 62, Subpart LLL unless the Administrator does one of the following.

(i) Specifies or approves, in specific cases, the use of a method with minor changes in methodology.

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(ii) Approves the use of an equivalent method.

(iii) Approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance.

(iv) Waives the requirement for performance tests because the permittee has demonstrated by other means to the Administrator's satisfaction that the affected SSI unit is in compliance with the standard.

(v) Approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. Nothing in this paragraph (a)(7) is construed to abrogate the Administrator's authority to require testing under section 114 of the Clean Air Act.

(8) The permittee shall provide the Administrator at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Administrator the opportunity to have an observer present. If after 30 days' notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the permittee shall notify the Administrator as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Administrator by mutual agreement.

(9) The permittee shall provide, or cause to be provided, performance testing facilities as follows:

(i) Sampling ports adequate for the test methods applicable to the SSI unit, as follows:

(A) Constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures.

(B) Providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures.

(ii) Safe sampling platform(s).

(iii) Safe access to sampling platform(s).

(iv) Utilities for sampling and testing equipment.

(10) Unless otherwise specified in this subpart, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. Compliance with each emission limit shall be determined by calculating the arithmetic mean of the three runs. In the event that a sample is accidentally lost or conditions occur in which one of the three runs shall be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond your control, compliance may, upon the Administrator's approval, be determined using the arithmetic mean of the results of the two other runs.

(11) During each test run specified in paragraph (a)(1) of this condition, the permittee shall operate the sewage sludge incinerator at a minimum of 85-percent of your maximum permitted capacity.

**III. MONITORING REQUIREMENTS.**

**# 018 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall monitor the amount of fuel consumed by this source on a monthly and 12-month rolling basis.

**# 019 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall monitor and record the following for this source:

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a) Daily average sludge feed rate in lb/hr, dry. The feed rate shall be calculated by dividing the daily total of sludge incinerated, dry, by the hours of operation for the calendar day.

b) The sludge throughput on a monthly and 12-month rolling basis.

**# 020 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall monitor the amount of sewage sludge incinerated by this source that comes from outside suppliers on a daily basis.

**# 021 [40 CFR Part 503 Standards for the Use or Disposal of Sewage Sludge §40 CFR 503.40]**

**Subpart E - Incineration**

**Applicability.**

The permittee shall continuously monitor the exit gas from this source and associated air cleaning devices for carbon monoxide.

**# 022 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.153]**

**Subpart O - Standards of Performance for Sewage Treatment Plants**

**Monitoring of operations.**

(a). The owner or operator of any sludge incinerator subject to the provisions of 40 CFR § 60 Subpart O shall:

(1). Calibrate, maintain, and operate a flow measuring device which can be used to determine either the mass or volume of sludge charged to the incinerator. The flow measuring device shall be certified by the manufacturer to have an accuracy of +/- 5 percent as provided in paragraph (c) of this condition, the flow measuring device shall be operated continuously and data recorded during all periods of operations of the incinerator.

(2). Provide access to the sludge charged so that a well mixed representative grab sample of the sludge can be obtained.

(3). Calibrate, maintain, and operate a weighing device for determining the mass of any municipal solid waste charged to the incinerator when sewage sludge and municipal solid waste are incinerated together. The weighing device shall have an accuracy of +/- 5 percent over its operating range.

(b). The owner or operator of any multiple hearth sludge incinerator subject to 40 CFR § 60 Subpart O shall comply with the requirements of paragraph (a) of this condition and:

(1). For incinerators equipped with a wet scrubbing device, calibrate, maintain, and operate a monitoring device that continuously measures and records the pressure drop of the gas flow through the wet scrubbing device. Where a combination of wet scrubbers is used in series, the pressure drop of the gas flow through the combined system shall be continuously monitored. The device used to monitor scrubber pressure drop shall be certified by the manufacturer to be accurate within +/- 250 pascals (+/- 1 inch water gauge) and shall be calibrated on an annual basis in accordance with the manufacturer's instructions.

(2). Calibrate, maintain and operate a monitoring device that continuously measures and records the oxygen content of the incinerator exhaust gas. The oxygen monitor shall be located upstream of any rabble shaft cooling air inlet into the incinerator exhaust gas stream, fan, ambient air recirculation damper, or any other source of dilution air. The oxygen monitoring device shall be certified by the manufacturer to have a relative accuracy of +/- 5 percent over its operating range and shall be calibrated according to method(s) prescribed by the manufacturer at least once each 24-hour period.

(3). Calibrate, maintain, and operate temperature measuring devices at every hearth in multiple hearth furnaces. A minimum of one thermocouple shall be installed in each hearth in the cooling and drying zones, and a minimum of two thermocouples shall be installed in each hearth in the combustion zone. Each temperature measuring device shall be certified by the manufacturer to have an accuracy of +/- 5 percent over its operating range. Except as provided in paragraph (c) of this condition, the temperature monitoring devices shall be operated continuously and data recorded during all periods of operation of the incinerator.

(4). Calibrate, maintain, and operate a device for measuring the fuel flow to the incinerator. The flow measuring device

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shall be certified by the manufacturer to have an accuracy of +/- 5 percent over its operating range. Except as provided in paragraph (c) of this condition, the fuel flow measuring device shall be operated continuously and data recorded during all periods of operation of the incinerator.

(5). Except as provided in paragraph (c) of this condition, collect and analyze a grab sample of the sludge fed to the incinerator once per day. The dry sludge content and the volatile solids content sample shall be determined.

(c). The owner or operator of any multiple hearth sludge incinerator subject to 40 CFR § 60 Subpart O from which the particulate matter emission rate measured during the performance test required under 40 CFR § 60.154(d) is less than or equal to 0.38 g/kg dry sludge input (0.75 lb/ton) shall be required to comply with the requirements in paragraphs (a) and (b) above and shall retain the information in 40 CFR § 60.153(c) for this source during all periods of the performance test except that:

(1). Continuous operation of the monitoring devices and data recorders in paragraphs (a)(1), (b)(3) and (b)(4) above would not be required.

(2). Daily sampling and analysis of sludge feed in paragraph (b)(5) above shall not be required.

(3). Record keeping specified in 40 CFR 60.153(c)(3) for this source shall not be required.

**# 023 [40 CFR Part 61 NESHAPs §40 CFR 61.55]****Subpart E--National Emission Standard for Mercury  
Monitoring of emissions and operations.**

All sources for which mercury emissions exceed 1,600 g per 24-hour period, demonstrated by sludge sampling from 40 CFR § 61.54, shall monitor mercury emission at intervals of at least once per year by use of Method 105 of 40 CFR § 61 Appendix B, and reported and retained according to 40 CFR § 61.54(f) and (g).

**# 024 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.15995]****Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010****How do I develop a site-specific monitoring plan for my continuous monitoring, bag leak detection, and ash handling systems, and by what date must I conduct an initial performance evaluation?**

The permittee shall develop a site-specific monitoring plan for each continuous monitoring system required under 40 CFR Part 62, Subpart LLL. For each continuous monitoring system, your monitoring plan must address the elements and requirements specified in paragraphs (1) through (8) of this condition. The permittee shall operate and maintain the continuous monitoring system in continuous operation according to the site-specific monitoring plan.

(1) Installation of the continuous monitoring system sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device).

(2) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer and the data collection and reduction systems.

(3) Performance evaluation procedures and acceptance criteria (e.g., calibrations).

(i) For continuous emissions monitoring systems, your performance evaluation and acceptance criteria must include, but is not limited to, the following:

(A) The applicable requirements for continuous emissions monitoring systems specified in 40 CFR § 60.13.

(B) The applicable performance specifications (e.g., relative accuracy tests) in 40 CFR Part 60, Appendix B.

(C) The applicable procedures (e.g., quarterly accuracy determinations and daily calibration drift tests) in 40 CFR Part 60, Appendix F.

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(D) A discussion of how the occurrence and duration of out-of-control periods will affect the suitability of CEMS data, where out-of-control has the meaning given in paragraph (7)(i) of this condition.

(ii) For continuous parameter monitoring systems, your performance evaluation and acceptance criteria must include, but is not limited to, the following:

(A) If you have an operating limit that requires the use of a flow monitoring system, you must meet the requirements in paragraphs (3)(ii)(A)(1) through (4) of this condition.

(1) Install the flow sensor and other necessary equipment in a position that provides a representative flow.

(2) Use a flow sensor with a measurement sensitivity of no greater than 2-percent of the expected process flow rate.

(3) Minimize the effects of swirling flow or abnormal velocity distributions due to upstream and downstream disturbances.

(4) Conduct a flow monitoring system performance evaluation in accordance with your monitoring plan at the time of each performance test but no less frequently than annually.

(B) If you have an operating limit that requires the use of a pressure monitoring system, you must meet the requirements in paragraphs (3)(ii)(B)(1) through (6) of this condition.

(1) Install the pressure sensor(s) in a position that provides a representative measurement of the pressure (e.g., particulate matter scrubber pressure drop).

(2) Minimize or eliminate pulsating pressure, vibration, and internal and external corrosion.

(3) Use a pressure sensor with a minimum tolerance of 1.27 centimeters of water or a minimum tolerance of 1-percent of the pressure monitoring system operating range, whichever is less.

(4) Perform checks at least once each process operating day to ensure pressure measurements are not obstructed (e.g., check for pressure tap pluggage daily).

(5) Conduct a performance evaluation of the pressure monitoring system in accordance with your monitoring plan at the time of each performance test but no less frequently than annually.

(6) If at any time the measured pressure exceeds the manufacturer's specified maximum operating pressure range, conduct a performance evaluation of the pressure monitoring system in accordance with your monitoring plan and confirm that the pressure monitoring system continues to meet the performance requirements in your monitoring plan. Alternatively, install and verify the operation of a new pressure sensor.

(C) If you have an operating limit that requires a pH monitoring system, you must meet the requirements in paragraphs (3)(ii)(C)(1) through (4) of this condition.

(1) Install the pH sensor in a position that provides a representative measurement of scrubber effluent pH.

(2) Ensure the sample is properly mixed and representative of the fluid to be measured.

(3) Conduct a performance evaluation of the pH monitoring system in accordance with your monitoring plan at least once each process operating day.

(4) Conduct a performance evaluation (including a two-point calibration with one of the two buffer solutions having a pH within 1 of the operating limit pH level) of the pH monitoring system in accordance with your monitoring plan at the time of each performance test but no less frequently than quarterly.

(D) If you have an operating limit that requires the use of a temperature measurement device, you must meet the

**SECTION D. Source Level Requirements**

requirements in paragraphs (3)(ii)(D)(1) through (4) of this condition.

(1) Install the temperature sensor and other necessary equipment in a position that provides a representative temperature.

(2) Use a temperature sensor with a minimum tolerance of 2.8 degrees Celsius (5 degrees Fahrenheit), or 1.0-percent of the temperature value, whichever is larger, for a noncryogenic temperature range.

(3) Use a temperature sensor with a minimum tolerance of 2.8 degrees Celsius (5 degrees Fahrenheit), or 2.5-percent of the temperature value, whichever is larger, for a cryogenic temperature range.

(4) Conduct a temperature measurement device performance evaluation at the time of each performance test but no less frequently than annually.

(E) If you have an operating limit that requires a secondary electric power monitoring system for an electrostatic precipitator, you must meet the requirements in paragraphs (3)(ii)(E)(1) and (2) of this condition.

(1) Install sensors to measure (secondary) voltage and current to the electrostatic precipitator collection plates.

(2) Conduct a performance evaluation of the electric power monitoring system in accordance with your monitoring plan at the time of each performance test but no less frequently than annually.

(F) If you have an operating limit that requires the use of a monitoring system to measure sorbent injection rate (e.g., weigh belt, weigh hopper or hopper flow measurement device), you must meet the requirements in paragraphs (3)(ii)(F)(1) and (2) of this condition.

(1) Install the system in a position(s) that provides a representative measurement of the total sorbent injection rate.

(2) Conduct a performance evaluation of the sorbent injection rate monitoring system in accordance with your monitoring plan at the time of each performance test but no less frequently than annually.

(4) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR § 60.11(d).

(5) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR § 60.13.

(6) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR § 60.7(b), (c) introductory text, (c)(1), (c)(4), (d), (e), (f), and (g).

(7) Provisions for periods when the continuous monitoring system is out of control, as follows:

(i) A continuous monitoring system is out of control if the conditions of paragraph (7)(i)(A) or (B) of this condition are met.

(A) The zero (low-level), mid-level (if applicable), or high-level calibration drift exceeds two times the applicable calibration drift specification in the applicable performance specification or in the relevant standard.

(B) The continuous monitoring system fails a performance test audit (e.g., cylinder gas audit), relative accuracy audit, relative accuracy test audit or linearity test audit.

(ii) When the continuous monitoring system is out of control as specified in paragraph (7)(i) of this condition, you must take the necessary corrective action and must repeat all necessary tests that indicate that the system is out of control. You must take corrective action and conduct retesting until the performance requirements are below the applicable limits. The beginning of the out-of-control period is the hour you conduct a performance check (e.g., calibration drift) that indicates an exceedance of the performance requirements established under this part. The end of the out-of-control period is the hour following the completion of corrective action and successful demonstration that the system is within the allowable limits.

(8) Schedule for conducting initial and periodic performance evaluations of your continuous monitoring systems.

**SECTION D. Source Level Requirements****# 025 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.15995]****Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010****How do I develop a site-specific monitoring plan for my continuous monitoring, bag leak detection, and ash handling systems, and by what date must I conduct an initial performance evaluation?**

The permittee shall conduct an initial performance evaluation of each continuous monitoring system in accordance with the monitoring plan and to 40 CFR § 60.13(c).

**# 026 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.15995]****Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010****How do I develop a site-specific monitoring plan for my continuous monitoring, bag leak detection, and ash handling systems, and by what date must I conduct an initial performance evaluation?**

The permittee shall submit a monitoring plan specifying the ash handling system operating procedures that will be followed to ensure that the fugitive emissions limit specified in Table 3 to 40 CFR Part 62, Subpart LLL, are met.

**# 027 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.15995]****Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010****How do I develop a site-specific monitoring plan for my continuous monitoring, bag leak detection, and ash handling systems, and by what date must I conduct an initial performance evaluation?**

The permittee shall update and resubmit the monitoring plan if there are any changes or potential changes in the monitoring procedures or if there is a process change, as defined in 40 CFR § 62.16045.

**# 028 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.16005]****Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010****How do I demonstrate continuous compliance with my operating limits?**

The permittee shall continuously monitor the operating parameters specified in paragraph (a) of this condition and meet the requirements of paragraphs (b) and (c) of this condition, according to the monitoring and calibration requirements in 40 CFR § 62.16020. The permittee shall confirm and re-establish the operating limits as specified in paragraph (d) of this condition.

(a) The permittee shall continuously monitor the operating parameters specified in paragraph (a)(1) of this condition using the continuous monitoring equipment and according to the procedures specified in 40 CFR § 62.16020. To determine compliance, the permittee shall use the data averaging period specified in Table 4 to 40 CFR Part 62, Subpart LLL.

(1) The permittee shall demonstrate that the SSI unit meets the operating limits established according to 40 CFR § 62.15985 and paragraph (d) of this condition for each applicable operating parameter.

(b) Operation above the established maximum, below the established minimum, or outside the allowable range of the operating limits specified in paragraph (a) of this condition constitutes a deviation from the operating limits established under 40 CFR Part 62, Subpart LLL, except during performance tests conducted to determine compliance with the emission and operating limits or to establish new operating limits. The permittee shall submit the deviation report specified in 40 CFR § 62.16030(d) for each instance that did not meet one of the operating limits established under 40 CFR Part 62, Subpart LLL.

(c) The permittee shall submit the annual compliance report specified in 40 CFR § 62.16030(c) to demonstrate continuous compliance.

(d) The permittee shall confirm the operating limits according to paragraph (d)(1) of this condition or re-establish operating limits according to paragraph (d)(2) of this condition. The operating limits must be established so as to assure ongoing compliance with the emission limits. These requirements also apply to the operating requirements in the fugitive emissions monitoring plan specified in 40 CFR § 62.15960(d).

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(1) The operating limits shall be based on operating data recorded during any performance test required in 40 CFR § 62.16000(a) or any performance evaluation required in 40 CFR § 62.16000(b)(4).

(2) The permittee may conduct a repeat performance test at any time to establish new values for the operating limits to apply from that point forward.

[Note: Current operating limits established by performance testing are listed in Section D, Condition #011 for this source. As allowed under (d)(2) of this condition, these limits may be revised based on performance testing and incorporated into the permit at a later date.]

**# 029 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.16015]**

**Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010**

**What are the performance testing, monitoring, and calibration requirements for compliance with the emission limits and standards?**

The permittee shall meet the monitoring requirements specified in this condition.

Continuous monitor requirements. The permittee shall meet the following requirements, as applicable, when using a continuous monitoring system to demonstrate compliance with the emission limits in Table 3 to 40 CFR Part 62, Subpart LLL. The option to use a continuous emissions monitoring system for hydrogen chloride, dioxins/furans, cadmium, or lead takes effect on the date a final performance specification applicable to hydrogen chloride, dioxins/furans, cadmium or lead is published in the Federal Register. If the permittee elects to use a continuous emissions monitoring system instead of conducting annual performance testing, the permittee shall meet the requirements of paragraphs (1) through (6) of this condition. If the permittee elects to use a continuous automated sampling system instead of conducting annual performance testing, the permittee shall meet the requirements of paragraph (7) of this condition. The option to use a continuous automated sampling system for dioxins/furans takes effect on the date a final performance specification for such a continuous automated sampling system is published in the Federal Register.

(1) The permittee shall notify the Administrator 1 month before starting use of the continuous emissions monitoring system.

(2) The permittee shall notify the Administrator 1 month before stopping use of the continuous emissions monitoring system, in which case the permittee shall also conduct a performance test prior to ceasing operation of the system.

(3) The permittee shall install, operate, calibrate, and maintain an instrument for continuously measuring and recording the emissions to the atmosphere in accordance with the following:

(i) 40 CFR § 60.13 of subpart A of part 60 of this chapter.

(ii) The following performance specifications of appendix B of 40 CFR Part 60, as applicable:

(A) For particulate matter, Performance Specification 11 of appendix B of 40 CFR Part 60.

(B) For hydrogen chloride, Performance Specification 15 of appendix B of 40 CFR Part 60.

(C) For carbon monoxide, Performance Specification 4B of appendix B of 40 CFR Part 60 with spans appropriate to the applicable emission limit.

(D) [Reserved]

(E) For mercury, Performance Specification 12A of appendix B of 40 CFR Part 60.

(F) For nitrogen oxides, Performance Specification 2 of appendix B of 40 CFR Part 60.

(G) For sulfur dioxide, Performance Specification 2 of appendix B of 40 CFR Part 60.

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(iii) For continuous emissions monitoring systems, the quality assurance procedures (e.g., quarterly accuracy determinations and daily calibration drift tests) of appendix F of 40 CFR Part 60 specified in paragraphs (3)(iii)(A) through (G) of this condition. For each pollutant, the span value of the continuous emissions monitoring system is two times the applicable emission limit, expressed as a concentration.

(A) For particulate matter, Procedure 2 in appendix F of 40 CFR Part 60.

(B) For hydrogen chloride, Procedure 1 in appendix F of 40 CFR Part 60 except that the Relative Accuracy Test Audit requirements of Procedure 1 shall be replaced with the validation requirements and criteria of sections 11.1.1 and 12.0 of Performance Specification 15 of appendix B of 40 CFR Part 60.

(C) For carbon monoxide, Procedure 1 in appendix F of 40 CFR Part 60.

(D) [Reserved]

(E) For mercury, Procedures 5 in appendix F of 40 CFR Part 60.

(F) For nitrogen oxides, Procedure 1 in appendix F of 40 CFR Part 60.

(G) For sulfur dioxide, Procedure 1 in appendix F of 40 CFR Part 60.

(iv) If the monitoring system has a malfunction or out-of-control period, the permittee shall complete repairs and resume operation of the monitoring system as expeditiously as possible.

(4) During each relative accuracy test run of the continuous emissions monitoring system using the performance specifications in paragraph (3)(ii) of this condition, emission data for each regulated pollutant and oxygen (or carbon dioxide as established in paragraph (5) of this condition) must be collected concurrently (or within a 30- to 60-minute period) by both the continuous emissions monitoring systems and the test methods specified in paragraph (4)(i) through (viii) of this condition. Relative accuracy testing must be at representative operating conditions while the SSI unit is charging sewage sludge.

(i) For particulate matter, Method 5 at 40 CFR part 60, appendix A-3, or Method 26A or 29 at 40 CFR Part 60, appendix A-8, shall be used.

(ii) For hydrogen chloride, Method 26 or 26A at 40 CFR part 60, appendix A-8, shall be used, as specified in Table 3 to 40 CFR Part 62, Subpart LLL.

(iii) For carbon monoxide, Method 10, 10A, or 10B at 40 CFR Part 60, appendix A-4, shall be used.

(iv) For dioxins/furans, Method 23 at 40 CFR Part 60, appendix A-7, shall be used.

(v) For mercury, cadmium and lead, Method 29 at 40 CFR Part 60, appendix A-8, shall be used. Alternatively for mercury, either Method 30B at 40 CFR Part 60, appendix A-8, or ASTM D6784-02 (Reapproved 2008) (see 40 CFR § 62.16015(e).

(vi) For nitrogen oxides, Method 7 or 7E at 40 CFR Part 60, appendix A-4, shall be used.

(vii) For sulfur dioxide, Method 6 or 6C at 40 CFR Part 60, appendix A-4, or as an alternative ANSI/ASME PTC 19.10-1981, Flue and Exhaust Gas Analyses [Part 10, Instruments and Apparatus] shall be used (see 40 CFR § 62.16015(e). For sources that have actual inlet emissions less than 100 parts per million dry volume, the relative accuracy criterion for the inlet of the sulfur dioxide continuous emissions monitoring system should be no greater than 20-percent of the mean value of the 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 method and the continuous emissions monitoring system, whichever is greater.

(viii) For oxygen (or carbon dioxide as established in paragraph (5) of this condition), Method 3A or 3B at 40 CFR Part 60, appendix A-2, or as an alternative ANSI/ASME PTC 19.10-1981, Flue and Exhaust Gas Analyses [Part 10, Instruments and Apparatus], as applicable, shall be used (see 40 CFR § 62.16015(e)).

**SECTION D. Source Level Requirements**

(5) The permittee may request that compliance with the emission limits be determined using carbon dioxide measurements corrected to an equivalent of 7-percent oxygen. If carbon dioxide is selected for use in diluent corrections, the relationship between oxygen and carbon dioxide levels shall be established during the initial performance test according to the procedures and methods specified in paragraphs (5)(i) through (iv) of this condition. This relationship may be re-established during subsequent performance tests.

(i) The fuel factor equation in Method 3B at 40 CFR Part 60, appendix A-2, shall be used to determine the relationship between oxygen and carbon dioxide at a sampling location. Method 3A or 3B at 50 CFR Part 60, appendix A-2, or as an alternative ANSI/ASME PTC 19.10-1981, Flue and Exhaust Gas Analyses [Part 10, Instruments and Apparatus], as applicable, shall be used to determine the oxygen concentration at the same location as the carbon dioxide monitor (see 40 CFR § 62.16015(e)).

(ii) Samples must be taken for at least 30 minutes in each hour.

(iii) Each sample must represent a 1-hour average.

(iv) A minimum of three runs must be performed.

(6) The permittee shall operate the continuous monitoring system and collect data with the continuous monitoring system as follows:

(i) The permittee shall collect data using the continuous monitoring system at all times the affected SSI unit is operating and at the intervals specified in paragraph (6)(ii) of this condition, except for periods of monitoring system malfunctions that occur during periods specified in 40 CFR § 62.15995(a)(7)(i), repairs associated with monitoring system malfunctions, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks and required zero and span adjustments). Any such periods that you do not collect data using the continuous monitoring system constitute a deviation from the monitoring requirements and must be reported in a deviation report.

(ii) The permittee shall collect continuous emissions monitoring system data in accordance with 40 CFR § 60.13(e)(2).

(iii) Any data collected during monitoring system malfunctions, repairs associated with monitoring system malfunctions, or required monitoring system quality assurance or control activities shall not be included in calculations used to report emissions or operating levels. Any such periods shall be reported in a deviation report.

(iv) Any data collected during periods when the monitoring system is out of control as specified in 40 CFR § 60.5200(a)(7)(i), repairs associated with periods when the monitoring system is out of control, or required monitoring system quality assurance or control activities conducted during out-of-control periods shall not be included in calculations used to report emissions or operating levels. Any such periods that do not coincide with a monitoring system malfunction as defined in 40 CFR § 62.16045, constitute a deviation from the monitoring requirements and shall be reported in a deviation report.

(v) The permittee shall use all the data collected during all periods except those periods specified in paragraphs (6)(iii) and (iv) of this condition in assessing the operation of the control device and associated control system.

(7) If the permittee elects to use a continuous automated sampling system instead of conducting annual performance testing, the permittee shall:

(i) Install, calibrate, maintain and operate a continuous automated sampling system according to the site-specific monitoring plan developed in 40 CFR § 60.58b(p)(1) through (6), (9), (10), and (q).

(ii) Collect data according to 40 CFR § 60.58b(p)(5) and paragraph (6) of this condition.

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 030 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall record the moisture content of any grab samples taken for compliance with 40 CFR § 62.15960(f). The daily moisture content shall be the average of all grab samples taken in a 24-hour calendar day.

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

The permittee shall maintain records of the amount of fuel consumed by this source on a monthly and 12-month rolling basis.

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

The permittee shall maintain records of the sludge throughput for this source on a monthly, and 12-month rolling basis.

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

For each control device associated with this source, the permittee shall keep records of all inspections and maintenance performed on each control device, any deficiencies, and any corrective action taken.

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

The permittee shall keep the results of each performance test on the sewage sludge incinerator on file, and the results of the performance test shall be made available to the Department upon request.

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

(a). The permittee shall record the amount of sewage sludge incinerated by this source that comes from outside suppliers on a daily basis.

(b). The permittee shall keep records of the analysis of metal content of sewage sludge for Copper, Selenium, Zinc, Arsenic, Beryllium, Cadmium, Chromium, Nickel, Mercury, and Lead for sewage sludge generated outside the Authority, through either tests performed by the Authority or by tests performed by outside suppliers of sewage sludge.

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

The permittee shall calculate and record the emissions of pollutants from this source that are limited by the conditions of this permit on a monthly and 12-month rolling basis.

**# 037 [40 CFR Part 503 Standards for the Use or Disposal of Sewage Sludge §40 CFR 503.40]****Subpart E - Incineration****Applicability.**

The permittee who fires sewage sludge in a sewage sludge incinerator retains the following information for five years:

(a). The carbon monoxide concentration in the exit gas.

(b). A calibration and maintenance log for the instrument used to measure the carbon monoxide concentration.

**# 038 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.153]****Subpart O - Standards of Performance for Sewage Treatment Plants****Monitoring of operations.**

The owner or operator of any multiple hearth sludge incinerator subject to 40 CFR § 60 Subpart O shall retain the following information and make it available for inspection by the Administrator and the Department for a minimum of two (2) years:

(a). For incinerators equipped with a wet scrubbing device, a record of the measured pressure drop of the gas flow through the wet scrubbing device or system of wet scrubbing devices.

(b). A record of the measured oxygen content of the incinerator exhaust gas.

**SECTION D. Source Level Requirements**

(c). A record of the rate of sludge charged to the incinerator, the measured temperatures of the incinerator, the measured fuel flow to the incinerator, and the total solids content and volatile solids content of the sludge charged to the incinerator.

**# 039 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.16025]****Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010****What records must I keep?**

The permittee shall maintain the items (as applicable) specified in paragraphs (a) through (n) of this condition for a period of at least 5 years. All records shall be available on site in either paper copy or computer-readable format that can be printed upon request, unless an alternative format is approved by the Administrator.

(a) Date. Calendar date of each record.

(b) Final control plan and final compliance. Copies of the final control plan and any additional notifications, reported under 40 CFR § 62.16030.

(c) Operator training. Documentation of the operator training procedures and records specified in paragraphs (c)(1) through (4) of this condition. The permittee shall make available and readily accessible at the facility at all times for all SSI unit operators the documentation specified in paragraph (c)(1) of this condition.

(1) Documentation of the following operator training procedures and information:

- (i) Summary of the applicable standards under 40 CFR Part 62, Subpart LLL.
- (ii) Procedures for receiving, handling and feeding sewage sludge.
- (iii) Incinerator startup, shutdown, and malfunction preventative and corrective procedures.
- (iv) Procedures for maintaining proper combustion air supply levels.
- (v) Procedures for operating the incinerator and associated air pollution control systems within the standards established under 40 CFR Part 62, Subpart LLL.
- (vi) Monitoring procedures for demonstrating compliance with the incinerator operating limits.
- (vii) Reporting and recordkeeping procedures.
- (viii) Procedures for handling ash.
- (ix) A list of the materials burned during the performance test, if in addition to sewage sludge.
- (x) For each qualified operator and other plant personnel who may operate the unit according to the provisions of 40 CFR § 62.15945(a), the phone and/or pager number at which they can be reached during operating hours.

(2) Records showing the names of SSI unit operators and other plant personnel who may operate the unit according to the provisions of 40 CFR § 62.15945(a), as follows:

- (i) Records showing the names of SSI unit operators and other plant personnel who have completed review of the information in paragraph (c)(1) of this condition as required by 40 CFR § 62.15950(b), including the date of the initial review and all subsequent annual reviews.
- (ii) Records showing the names of the SSI unit operators who have completed the operator training requirements under 40 CFR § 62.15920, met the criteria for qualification under 40 CFR § 62.15930, and maintained or renewed their qualification under 40 CFR § 62.15935 or § 62.15940. Records shall include documentation of training, including the dates of their initial qualification and all subsequent renewals of such qualifications.

(3) Records showing the periods when no qualified operators were accessible for more than 8 hours, but less than 2 weeks, as required in 40 CFR § 62.15945(a).

(4) Records showing the periods when no qualified operators were accessible for 2 weeks or more along with copies of reports submitted as required in 40 CFR § 62.15945(b).

(d) Air pollution control device inspections. Records of the results of initial and annual air pollution control device inspections conducted as specified in 40 CFR §§62.15990 and 62.16015(c), including any required maintenance and any repairs not completed within 10 days of an inspection or the timeframe established by the Administrator.

**SECTION D. Source Level Requirements****(e) Performance test reports.**

(1) The results of the initial, annual and any subsequent performance tests conducted to determine compliance with the emission limits and standards and/or to establish operating limits, as applicable.

(2) Retain a copy of the complete performance test report, including calculations.

(3) Keep a record of the hourly dry sludge feed rate measured during performance test runs as specified in 40 CFR §62.16015(a)(2)(i).

(4) Keep any necessary records to demonstrate that the performance test was conducted under conditions representative of normal operations, including a record of the moisture content measured as required in 40 CFR § 62.16015(a)(2)(ii) for each grab sample taken of the sewage sludge burned during the performance test.

**(f) Continuous monitoring data. Records of the following data, as applicable:**

(1) For continuous emissions monitoring systems, all 1-hour average concentrations of particulate matter, hydrogen chloride, carbon monoxide, dioxins/furans total mass basis, mercury, nitrogen oxides, sulfur dioxide, cadmium and lead emissions.

(2) For continuous automated sampling systems, all average concentrations measured for mercury and dioxins/furans total mass basis at the frequencies specified in your monitoring plan.

(3) For continuous parameter monitoring systems:

(i) All 1-hour average values recorded for the following operating parameters, as applicable:

(A) Combustion chamber operating temperature (or afterburner temperature).

(B) If a wet scrubber is used to comply with the rule, pressure drop across each wet scrubber system and liquid flow rate to each wet scrubber used to comply with the emission limit in Table 3 to 40 CFR Part 62, Subpart LLL for particulate matter, cadmium or lead and scrubber liquid flow rate and scrubber liquid pH for each wet scrubber used to comply with an emission limit in Table 3 to 40 CFR Part 62, Subpart LLL for sulfur dioxide or hydrogen chloride.

(C) If an electrostatic precipitator is used to comply with the rule, secondary voltage of the electrostatic precipitator collection plates and secondary amperage of the electrostatic precipitator collection plates and effluent water flow rate at the outlet of the wet electrostatic precipitator.

(ii) All daily average values recorded for the feed rate and moisture content of the sewage sludge fed to the sewage sludge incinerator, monitored and calculated as specified in 40 CFR § 62.15960(f).

**(g) Other records for continuous monitoring systems. The permittee shall keep the following records, as applicable:**

(1) Keep records of any notifications to the Administrator in 40 CFR § 60.4915(h)(1) of starting or stopping use of a continuous monitoring system for determining compliance with any emissions limit.

(2) Keep records of any requests under 40 CFR § 62.16015(b)(5) that compliance with the emission limits be determined using carbon dioxide measurements corrected to an equivalent of 7-percent oxygen.

**(h) Deviation reports. Records of any deviation reports submitted under 40 CFR § 62.16030(e) and (f).**

(i) Equipment specifications and operation and maintenance requirements. Equipment specifications and related operation and maintenance requirements received from vendors for the incinerator, emission controls and monitoring equipment.

(j) Inspections, calibrations and validation checks of monitoring devices. Records of inspections, calibration and validation

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checks of any monitoring devices as required under 40 CFR §§ 62.16015 and 62.16020.

(k) Monitoring plan and performance evaluations for continuous monitoring systems. Records of the monitoring plans required under 40 CFR § 62.15995, and records of performance evaluations required under 40 CFR § 62.16000(b)(5).

(l) Less frequent testing. If, consistent with 40 CFR § 62.16000(a)(3), the permittee elects to conduct performance tests less frequently than annually, the permittee shall keep annual records that document that the emissions in the two previous consecutive years were at or below 75-percent of the applicable emission limit in Table 3 to 40 CFR Part 62, Subpart LLL, and document that there were no changes in source operations or air pollution control equipment that would cause emissions of the relevant pollutant to increase within the past 2 years.

(m) Use of bypass stack. Records indicating use of the bypass stack, including dates, times and durations as required under 40 CFR § 62.16020(d).

(n) If a malfunction occurs, the permittee shall keep a record of the information submitted in the annual report in 40 CFR § 62.16030(c)(16).

**V. REPORTING REQUIREMENTS.**

**# 040 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 CFR § 62.16030 - What reports must I submit? See Table 6 of 40 CFR Part 62 Subpart LLL for summary of required reports]

Annual reports.

The permittee shall submit an annual compliance report that includes the items listed in paragraphs (1) through (15) of this condition for the reporting period specified in paragraph (3) of this condition. The permittee shall submit annual compliance reports no more than 12 months following the previous annual compliance report. (The permittee may be required to submit similar or additional compliance information more frequently by the title V operating permit required in §62.16035.)

(1) Company name, physical address and mailing address.

(2) Statement by a responsible official, with that official's name, title and signature, certifying the accuracy of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) If a performance test was conducted during the reporting period, the results of that performance test.

(i) If operating limits were established during the performance test, include the value for each operating limit and, as applicable, the method used to establish each operating limit, including calculations.

(5) For each pollutant and operating parameter recorded using a continuous monitoring system, the highest average value and lowest average value recorded during the reporting period, as follows:

(i) For continuous emission monitoring systems and continuous automated sampling systems, report the highest and lowest 24-hour average emission value.

(ii) For continuous parameter monitoring systems, report the following values:

(a) For all operating parameters except scrubber liquid pH, the highest and lowest 12-hour average values.

(b) For scrubber liquid pH, the highest and lowest 3-hour average values.

(6) If there are no deviations during the reporting period from any emission limit, emission standard or operating limit that applies to the permittee, a statement that there were no deviations from the emission limits, emission standard or operating limits.

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- (7) If a performance evaluation of a continuous monitoring system was conducted, the results of that performance evaluation. If new operating limits were established during the performance evaluation, include your calculations for establishing those operating limits.
- (8) If the permittee elects to conduct performance tests less frequently as allowed in 40 CFR § 62.16000(a)(3) and did not conduct a performance test during the reporting period, the permittee shall include the dates of the last two performance tests, a comparison of the emission level you achieved in the last two performance tests to the 75-percent emission limit threshold specified in 40 CFR § 62.16000(a)(3), and a statement as to whether there have been any process changes and whether the process change resulted in an increase in emissions.
- (9) Documentation of periods when all qualified sewage sludge incineration unit operators were unavailable for more than 8 hours, but less than 2 weeks.
- (10) Results of annual air pollution control device inspections recorded under 40 CFR § 62.16025(d) for the reporting period, including a description of repairs.
- (11) If there were no periods during the reporting period when the continuous monitoring systems had a malfunction, a statement that there were no periods during which the continuous monitoring systems had a malfunction.
- (12) If there were no periods during the reporting period when a continuous monitoring system was out of control, a statement that there were no periods during which the continuous monitoring systems were out of control.
- (13) If there were no operator training deviations, a statement that there were no such deviations during the reporting period.
- (14) If the permittee did not make revisions to the site-specific monitoring plan during the reporting period, a statement that the permittee did not make any revisions to the site-specific monitoring plan during the reporting period. If the permittee made revisions to the site-specific monitoring plan during the reporting period, a copy of the revised plan.
- (15) If the permittee had a malfunction during the reporting period, the compliance report shall include the number, duration, and a brief description for each type of malfunction that occurred during the reporting period and that caused or may have caused any applicable emission limitation to be exceeded. The report shall also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with 40 CFR § 60.11(d), including actions taken to correct a malfunction.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.16030 - What reports must I submit? See Table 6 of 40 CFR Part 62 Subpart LLL for summary of required reports]

## Deviation reports

(1) The permittee shall submit a deviation report if:

(i) Any recorded operating parameter level, based on the averaging time specified in Table 4 to 40 CFR Part 62, Subpart LLL, is above the maximum operating limit or below the minimum operating limit established under 40 CFR Part 62, Subpart LLL.

(ii) Any recorded 24-hour block average emissions level is above the emission limit, if a continuous monitoring system is used to comply with an emission limit.

(iii) There are visible emissions of combustion ash from an ash conveying system for more than 5-percent of any compliance test hourly observation period.

(iv) A performance test was conducted that deviated from any emission limit in Table 3 to 40 CFR Part 62, Subpart LLL.

(v) A continuous monitoring system was out of control.

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- (vi) The permittee had a malfunction (e.g., continuous monitoring system malfunction) that caused or may have caused any applicable emission limit to be exceeded.
- (2) The deviation report shall be submitted by August 1 of that year for data collected during the first half of the calendar year (January 1 to June 30), and by February 1 of the following year for data you collected during the second half of the calendar year (July 1 to December 31).
- (3) For each deviation where the permittee is using a continuous monitoring system to comply with an associated emission limit or operating limit, report the items described in paragraphs (3)(i) through (viii) of this condition.
- (i) Company name, physical address and mailing address.
  - (ii) Statement by a responsible official, with that official's name, title and signature, certifying the accuracy of the content of the report.
  - (iii) The calendar dates and times the unit deviated from the emission limits, emission standards or operating limits requirements.
  - (iv) The averaged and recorded data for those dates.
  - (v) Duration and cause of each deviation from the following:
    - (a) Emission limits, emission standards, operating limits and your corrective actions.
    - (b) Bypass events and your corrective actions.
  - (vi) Dates, times and causes for monitor downtime incidents.
  - (vii) A copy of the operating parameter monitoring data during each deviation and any test report that documents the emission levels.
  - (viii) If there were periods during which the continuous monitoring system malfunctioned or was out of control, you must include the following information for each deviation from an emission limit or operating limit:
    - (a) The date and time that each malfunction started and stopped.
    - (b) The date, time and duration that each continuous monitoring system was inoperative, except for zero (low-level) and high-level checks.
    - (c) The date, time and duration that each continuous monitoring system was out of control, including start and end dates and hours and descriptions of corrective actions taken.
    - (d) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction, during a period when the system was out of control or during another period.
    - (e) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.
    - (f) A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes and other unknown causes.
    - (g) A summary of the total duration of continuous monitoring system downtime during the reporting period, and the total duration of continuous monitoring system downtime as a percent of the total operating time of the SSI unit at which the continuous monitoring system downtime occurred during that reporting period.
    - (h) An identification of each parameter and pollutant that was monitored at the SSI unit.
    - (i) A brief description of the SSI unit.
    - (j) A brief description of the continuous monitoring system.
    - (k) The date of the latest continuous monitoring system certification or audit.
    - (l) A description of any changes in continuous monitoring system, processes, or controls since the last reporting period.
- (4) For each deviation where the permittee is not using a continuous monitoring system to comply with the associated emission limit or operating limit, report the following items:

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- (i) Company name, physical address and mailing address.
- (ii) Statement by a responsible official, with that official's name, title and signature, certifying the accuracy of the content of the report.
- (iii) The total operating time of each affected source during the reporting period.
- (iv) The calendar dates and times the unit deviated from the emission limits, emission standards or operating limits requirements.
- (v) The averaged and recorded data for those dates.
- (vi) Duration and cause of each deviation from the following:
  - (a) Emission limits, emission standards, operating limits and your corrective actions.
  - (b) Bypass events and your corrective actions.
- (vii) A copy of any performance test report that showed a deviation from the emission limits or standards.
- (viii) A brief description of any malfunction reported in paragraph (1)(vi) of this condition, including a description of actions taken during the malfunction to minimize emissions in accordance with §60.11(d) of this chapter and to correct the malfunction.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.16030 - What reports must I submit? See Table 6 of 40 CFR Part 62 Subpart LLL for summary of required reports]

Qualified operator deviation.

(1) If all qualified operators are not accessible for 2 weeks or more, the permittee shall take the two actions in paragraphs (1)(i) and (ii) of this condition.

(i) Submit a notification of the deviation within 10 days that includes the three items in paragraphs (1)(i)(a) through (c) of this condition.

- (a) A statement of what caused the deviation.
- (b) A description of actions taken to ensure that a qualified operator is accessible.
- (c) The date when you anticipate that a qualified operator will be available.

(ii) Submit a status report to the Administrator every 4 weeks that includes the three items in paragraphs (1)(ii)(a) through (c) of this condition.

- (a) A description of actions taken to ensure that a qualified operator is accessible.
- (b) The date when you anticipate that a qualified operator will be accessible.
- (c) Request for approval from the Administrator to continue operation of the SSI unit.

(2) If the unit was shut down by the Administrator, under the provisions of 40 CFR § 62.15945(b)(2)(i), due to a failure to provide an accessible qualified operator, the permittee shall notify the Administrator within five days of meeting 40 CFR § 62.15945(b)(2)(ii) that the permittee is resuming operation.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.16030 - What reports must I submit? See Table 6 of 40 CFR Part 62 Subpart LLL for summary of required reports]

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## Notification of a force majeure

If a force majeure is about to occur, occurs, or has occurred for which the permittee intends to assert a claim of force majeure:

(1) The permittee shall notify the Administrator, in writing as soon as practicable following the date the permittee first knew, or through due diligence, should have known that the event may cause or caused a delay in conducting a performance test beyond the regulatory deadline, but the notification must occur before the performance test deadline unless the initial force majeure or a subsequent force majeure event delays the notice, and in such cases, the notification must occur as soon as practicable.

(2) The permittee shall provide to the Administrator a written description of the force majeure event and a rationale for attributing the delay in conducting the performance test beyond the regulatory deadline to the force majeure; describe the measures taken or to be taken to minimize the delay; and identify a date by which the permittee proposes to conduct the performance test.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.16030 - What reports must I submit? See Table 6 of 40 CFR Part 62 Subpart LLL for summary of required reports]

## Other notifications and required reports

The permittee shall submit other notifications as provided by 40 CFR § 60.7 and as follows:

(1) The permittee shall notify the Administrator 1 month before starting or stopping use of a continuous monitoring system for determining compliance with any emission limit.

(2) The permittee shall notify the Administrator at least 30 days prior to any performance test conducted to comply with the provisions of 40 CFR Part 62, Subpart LLL, to afford the Administrator the opportunity to have an observer present.

(3) As specified in 40 CFR § 62.16015(a)(8), the permittee shall notify the Administrator at least 7 days prior to the date of a rescheduled performance test for which notification was previously made in paragraph (2) of this condition.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.16030 - What reports must I submit? See Table 6 of 40 CFR Part 62 Subpart LLL for summary of required reports]

## Report submission form.

(1) Submit annual and deviation reports electronically or in paper format, postmarked on or before the submittal due dates.

(2) Submit performance tests and evaluations according to paragraphs (2)(i) and (ii) of this condition.

(i) Within 60 days after the date of completing each performance test (see 40 CFR § 60.8) required by 40 CFR Part 62, Subpart LLL, the permittee shall submit the results of the performance test according to the method specified by either paragraph (2)(i)(a) or (b) of this condition.

(a) For data collected using test methods supported by the EPA's Electronic Reporting Tool (ERT) as listed on the EPA's ERT Web site (<http://www.epa.gov/ttn/chief/ert/index.html>), at the time of the test, the permittee shall submit the results of the performance test to the Compliance and Emissions Data Reporting Interface (CEDRI). (CEDRI can be accessed through the EPA's Central Data Exchange (CDX) (<https://cdx.epa.gov/>.) Performance test data shall be submitted in a file format generated through the use of the EPA's ERT or an alternate electronic file format consistent with the extensible markup language (XML) schema listed on the EPA's ERT Web site. If the permittee claims that some of the performance test information being transmitted is confidential business information (CBI), the permittee shall submit a

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complete file generated through the use of the EPA's ERT or an alternate electronic file consistent with the XML schema listed on the EPA's ERT Web site, including information claimed to be CBI, on a compact disk, flash drive, or other commonly used electronic storage media to the EPA. The electronic media must be clearly marked as CBI and mailed to U.S. EPA/OAQPS/CORE CBI Office, Attention: Group Leader, Measurement Policy Group, MD C404-02, 4930 Old Page Rd., Durham, NC 27703. The same ERT file with the CBI omitted must be submitted to the EPA via CDX as described earlier in this paragraph (2)(i)(a).

(b) For data collected using test methods that are not supported by the EPA's ERT as listed on the EPA's ERT Web site, you must submit the results of the performance test to the Administrator at the appropriate address listed in 40 CFR § 60.4.

(ii) Within 60 days after the date of completing each CEMS performance evaluation (as defined in 40 CFR § 63.2), the permittee shall submit the results of the performance evaluation according to the method specified by either paragraph (2)(ii)(a) or (b) of this condition.

(a) For performance evaluations of continuous monitoring systems measuring relative accuracy test audit (RATA) pollutants that are supported by the EPA's ERT as listed on the EPA's ERT Web site, the permittee shall submit the results of the performance evaluation via the CEDRI. (CEDRI can be accessed through the EPA's CDX.) Performance evaluation data must be submitted in a file format generated through the use of the EPA's ERT or an alternate file format consistent with the XML schema listed on the EPA's ERT Web site. If the permittee claims that some of the performance evaluation information being transmitted is CBI, the permittee shall submit a complete file generated through the use of the EPA's ERT or an alternate electronic file consistent with the XML schema listed on the EPA's ERT Web site, including information claimed to be CBI, on a compact disk, flash drive, or other commonly used electronic storage media to the EPA. The electronic storage media must be clearly marked as CBI and mailed to U.S. EPA/OAQPS/CORE CBI Office, Attention: Group Leader, Measurement Policy Group, MD C404-02, 4930 Old Page Rd., Durham, NC 27703. The same ERT or alternate file with the CBI omitted must be submitted to the EPA via CDX as described earlier in this paragraph (2)(ii)(a).

(b) For any performance evaluations of continuous monitoring systems measuring RATA pollutants that are not supported by the EPA's ERT as listed on the EPA's ERT Web site, the permittee shall submit the results of the performance evaluation to the Administrator at the appropriate address listed in 40 CFR § 60.4.

(3) Changing report dates. If the Administrator agrees, the permittee may change the semiannual or annual reporting dates.

**# 046 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.155]**

**Subpart O - Standards of Performance for Sewage Treatment Plants Reporting.**

(a). The owner or operator of any multiple hearth sludge incinerator subject to 40 CFR § 60 Subpart O shall submit to the Administrator and the Department by April 10th and September 10th of each calendar year a report in writing which contains the following:

(1). A record of average scrubber pressure drop measurements for each period of 15 minutes duration of more during which the pressure drop of the scrubber was less than, by a percentage specified in (a)(1)(i) and (a)(1)(ii) below, the average scrubber pressure drop measured during the last performance test. The percent reduction in scrubber pressure drop for which a report is required shall be determined as follows:

(i). For incinerators that achieved an average particulate matter emission rate of 0.38 kg/Mg (0.75 lb/ton) dry sludge input or less during the most recent performance test, a scrubber pressure drop reduction of more than 30 percent for the average scrubber pressure drop recorded during the most recent performance test shall be reported.

(ii). For incinerators that achieved an average particulate matter emission rate of greater than 0.38 kg/Mg (0.75 lb/ton) dry sludge input during the most recent performance test, a percent reduction in pressure drop greater than that calculated according to the following equation shall be reported:

$$P = -111 * E + 72.15$$

where,

P = Percent reduction in pressure drop, and  
E = Average particulate matter emissions (kg/Mg).

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(2). A record of average oxygen content in the incinerator exhaust gas for each period of 1-hour duration or more that the oxygen content of the incinerator exhaust gas exceeds the average oxygen content measured during the most recent performance test by more than 3 percent.

(b). The owner or operator of any multiple hearth sludge incinerator from which the average particulate matter emission rate measured during the performance test required under 40 CFR § 60.154(d) exceeds 0.38 g/kg of dry sludge input (0.75 lb/ton of dry sludge input) shall include in the report for each calendar day that a decrease in scrubber pressure drop or increase in oxygen content in the exhaust gas is reported a record of the following:

- (1). Scrubber pressure drop averaged over each 1-hour incinerator operating period.
- (2). Oxygen content in the incinerator exhaust averaged over each 1-hour incinerator operating period.
- (3). Temperatures of every hearth in multiple hearth incinerators averaged over each 1-hour incinerator operating period.
- (4). Rate of sludge charged to the incinerator averaged over each 1-hour incinerator operating period.
- (5). Incinerator fuel use averaged over each 8-hour incinerator operating period.

**VI. WORK PRACTICE REQUIREMENTS.****# 047 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep on hand those critical spare parts for the incinerator system in order to be able to immediately replace any part of the incinerator system which has deteriorated from the routine operation of this system, or the incinerator shall not be operated until such time as a replacement part is installed, or as otherwise approved by the Department.

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

Equipment shall be operated so that at the request of the Department the following can be measured:

- (a). Pressure drop across the throat of the venturi scrubber, utilizing a differential manometer or equivalent.
- (b). Water flow rate to the venturi scrubber, utilizing a rotameter or equivalent.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.15920 - What are the operator training and qualification requirements?]

The permittee shall not operate the incinerator unless a fully trained and qualified sewage sludge incineration operator is on duty and at the facility. The trained and qualified operator may operate the incinerator directly or be the direct supervisor of one or more individuals that charge waste, remove ash, etc. A fully trained and qualified sewage sludge incinerator operator shall have received a minimum of 160 hours of training from the manufacturer of the incinerator or from a previously certified operator and shall have a minimum of one year sewage sludge incinerator operation experience.

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

- (a) Exhaust gases from this source shall be controlled by all four control devices (venturi scrubber, impingement scrubber, wet electrostatic precipitator, and thermal oxidizer) at all times the source is in operation.
- (b) If a malfunction of any of the control devices or its related components should occur causing any one of the control devices to become inoperable, the permittee shall terminate sludge feed.

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

For each control device associated with this source, the permittee shall inspect and/or maintain each control device on at

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least a monthly basis.

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

The permittee shall operate and maintain the incinerator and the air cleaning devices in accordance with manufacturers' specifications.

**# 053 [25 Pa. Code §139.101]****General requirements.**

This section applies to monitoring systems as defined in the manual referenced in 25 Pa. Code § 139.102(3) ("Continuous Source Operating Manual," Commonwealth of Pennsylvania, Department of Environmental Resources, Bureau of Air Quality Control, P.O. Box 8468, Harrisburg, Pennsylvania 17105-8468), installations required or approved under 25 Pa. Code Chapters 122, 124, 127 and 129 or in an order issued under section 4 of the act (35 P. S. § 4004).

(a). The submittal procedures specified in the publication entitled "Continuous Source Monitoring Manual," available from the Department shall be utilized to obtain Department approval. This publication includes:

- (1). Installation requirements.
- (2). Performance specifications.
- (3). Test procedures.
- (4). Reporting requirements.
- (5). Quality assurance requirements.
- (6). Administrative procedures for obtaining Department approval.

(b). The monitoring system installation, certification and operation shall be conducted under the direct supervision of persons qualified by training and experience.

(c). The monitoring systems may be designed to monitor source emissions or stack emissions if the representativeness of emissions can be verified. The method of conversion of monitoring results to source or stack emissions shall be approved by the Department.

(d). The location of monitoring devices shall be approved by the Department prior to installation. The selection of the monitoring location shall utilize applicable criteria in the manual referenced in 25 Pa. Code § 139.102(3). The Department has the authority to determine which of the criteria are applicable. The representativeness of the measurements at the chosen monitoring location shall be verified.

(e). The owner of a monitored source shall maintain records containing monitoring information and report data to the Department as specified in the manual referenced in 25 Pa. Code § 139.102(3). The records shall be maintained for 5 years and be available for inspection by Department personnel.

(f). The owner of a monitored source shall provide permanent sampling facilities as specified in 25 Pa. Code § 139.1 (relating to sampling facilities) to permit verification testing by the Department. For extractive monitors, calibration gas inlets shall be available as near as possible to the monitor probe inlet to permit the Department to verify calibration of the monitoring system. Facilities shall be approved by the Department prior to construction.

(g). Verification testing for monitoring systems shall be in accordance with Subchapter B (relating to monitoring duties of certain sources), and of the manual referenced in 25 Pa. Code § 139.102(3).

(h). A quality assurance program shall be established and maintained by the owner of the monitored source. This

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program shall be in accordance with the criteria in the sources listed in 25 Pa. Code § 139.102.

(i). The Department's approval will be based on the criteria specified in the manual referenced in 25 Pa. Code § 139.102(3). Failure to utilize the specified procedures or to conduct the quality assurance program could result in denying or rescinding the Department's approval.

(j). The owner of a monitored source shall notify the Department when the monitoring system is inoperative for more than 1 hour during an air pollution episode as specified in 25 Pa. Code Chapter 137 (relating to air pollution episodes). The notice shall be given within 2 hours of the discovery of the malfunction.

(k). Manual sampling conducted under Subchapter B may be required if the Department determines that the monitoring system data is not accurate or that the owner of the monitored source does not conduct the quality assurance program specified in the manual referenced in 25 Pa. Code § 139.102(3).

(l). Required monitoring shall meet at least one of the following minimum data availability requirements unless other data availability requirements are stipulated elsewhere in this title, in a plan approval or permit condition under Chapter 127 (relating to construction, modification, reactivation and operation of sources), or in an order issued under section 4 of the act. For purposes of calculating data availability, "process down" time, as specified in the manual referenced in 25 Pa. Code § 139.102(3), shall be considered valid time.

(1). In each calendar month, at least 90% of the time periods for which an emission standard or an operational parameter applies shall be valid as set forth in the quality assurance section of the manual referenced in 25 Pa. Code § 139.102(3).

(2). In each calendar quarter, at least 95% of the hours shall be valid as set forth in the quality assurance section of the manual referenced in 25 Pa. Code § 139.102(3).

(m). The monitor results shall be expressed in terms of the applicable standard or criteria required. The method used to convert monitor data shall be approved by the Department.

(n). Monitoring systems shall comply with the applicable performance specifications section of the manual referenced in 25 Pa. Code § 139.102(3). The Department has the authority to determine which of the performance specifications are applicable.

(o). Verification of calibration standards shall be conducted in accordance with the applicable sampling methods in the Department's "Source Testing Manual" or as otherwise approved by the Department. The "Source Testing Manual" may be obtained from the Department.

(p). The requirements of this section apply to monitoring to demonstrate compliance with emissions standards and process operational parameter criteria.

**# 054 [40 CFR Part 503 Standards for the Use or Disposal of Sewage Sludge §40 CFR 503.43]**

**Subpart E - Incineration**

**Pollutant limits.**

(a). Sludge generated by the Authority can be combusted in this incinerator. The concentration of contaminants in the sewage sludge, as generated by the Authority, are limited by the equations from 40 CFR § 503.43 that follow:

(1). The daily concentration of lead in sewage sludge fed to a sewage sludge incinerator shall not exceed the concentration calculated using the following equation:

$$c(\text{Pb}) = (0.1 * \text{NAAQS}(\text{Pb}) * 86,400) / (\text{DF} * (1 - \text{CE}) * \text{SF})$$

where:

$c(\text{Pb})$  = Daily concentration of lead in sewage sludge in milligrams per kilogram of total solids (dry weight basis).

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NAAQS(Pb) = National Ambient Air Quality Standard for lead in micrograms per cubic meter.

DF = Dispersion factor in micrograms per cubic meter pergram per second.

CE = Sewage sludge incinerator control efficiency for lead in hundredths (CE is determined through performance tests on the incinerator).

SF = Sewage sludge feed rate in metric tons per day (dry weight basis).

(2). The daily concentration for arsenic, cadmium, chromium, and nickel in sewage sludge fed to a sewage sludge incinerator shall not exceed the concentration calculated for each contaminant using the following equation:

$$c(i) = (RSC(i)*86,400)/(DF*(1-CE(i))*SF)$$

where:

c(i) = Daily concentration of arsenic, cadmium, chromium, or nickel in sewage sludge in milligrams per kilogram of total solids (dry weight basis).

RSC(i) = Risk specific concentration in micrograms per cubic meter for arsenic, cadmium, chromium, or nickel.

DF = Dispersion factor in micrograms per cubic meter pergram per second.

CE(i) = Sewage sludge incinerator control efficiency for arsenic, cadmium, chromium, or nickel in hundredths (CE(i) is determined through performance tests on the incinerator).

SF = Sewage sludge feed rate in metric tons per day (dry weight basis).

(3). The risk specific concentrations for arsenic, cadmium, chromium and nickel are listed as follows:

$$RSC(As) = 0.023 \text{ ug/m}^3$$

$$RSC(Cd) = 0.057 \text{ ug/m}^3$$

$$RSC(Ni) = 2.0 \text{ ug/m}^3$$

$$RSC(Cr) = 0.071 \text{ ug/m}^3$$

(4). When the sewage sludge stack height is 65 meters or less, the actual sewage sludge incinerator stack height shall be used in an air dispersion model specified by the permitting authority to determine the dispersion factor (DF) for the equations above.

(b). The sludge generated by outside sources can be combusted in this incinerator, but such sludge from outside sources shall not be charged into the incinerator in excess of 11 metric tons per day.

(c). Sludge generated from outside sources shall not be charged into this incinerator if the following metal concentrations are exceeded (compliance with the limits below also demonstrates compliance with 40 CFR § 503.43):

Metals	Metal Concentration	Metal Concentration
	mg/kg dry sludge	lb/consecutive 12-month period
Arsenic (As)	32.0	141
Beryllium (Be)	33.3	294
Cadmium (Cd)	69.6	307
Chromium (Cr)	362.8	1602
Nickel (Ni)	4566.7	40046
Mercury (Hg)	24.9	219
Lead (Pb)	1336.0	11801

(d). Sewage sludge from outside sources with contaminants exceeding the limits listed in paragraph (c) above will require

**SECTION D. Source Level Requirements**

an amended plan approval.

**# 055 [40 CFR Part 503 Standards for the Use or Disposal of Sewage Sludge §40 CFR 503.45]**

**Subpart E - Incineration**

**Management practices.**

- (a). An instrument that measures and records the oxygen concentration in the sewage sludge incinerator stack exit gas continuously shall be calibrated, operated, and maintained for this source, as specified by the permitting authority.
- (b). An instrument that measures and records information used to determine the moisture content in the sewage sludge incinerator stack exit gas continuously shall be calibrated, operated, and maintained for this source, as specified by the permitting authority.
- (c). An instrument that measures and records combustion temperatures continuously shall be calibrated, operated, and maintained for this source, as specified by the permitting authority.
- (d). The maximum combustion temperature for this sewage sludge incinerator is 1750 degrees F, or a maximum of 20% above the most recent performance test combustion temperature, whichever is greater.
- (e). The values for the operating parameters for the sewage sludge incinerator air pollution control device shall be specified by the permitting authority and shall be based on information obtained during the performance test of the sewage sludge incinerator to determine pollutant control efficiencies.
- (f). Sewage sludge shall not be fired in a sewage sludge incinerator if it is likely to adversely affect a threatened or endangered species listed under section 4 of the Endangered Species Act or its designated critical habitat.

[Incinerator operating combustion temperature is defined as the arithmetic mean of the temperature reading in the hottest zone of the furnace recorded in a day (24 hours) when the temperature is averaged and recorded at least hourly during the hours the incinerator operates in a day.]

**# 056 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.15905]**

**Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010**

**How do I achieve final compliance?**

For achieving final compliance with the requirements of 40 CFR Part 62 Subpart LLL, the permittee shall complete all process changes and retrofit construction of control devices, as specified in the final control plan, so that, if the affected SSI unit is brought online, all necessary process changes and air pollution control devices would operate as designed.

**# 057 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.15920]**

**Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010**

**What are the operator training and qualification requirements?**

- (a) An SSI unit cannot be operated unless a fully trained and qualified SSI unit operator is accessible, either at the facility or can be at the facility within 1 hour. The trained and qualified SSI unit operator may operate the SSI unit directly or be the direct supervisor of one or more other plant personnel who operate the unit. If all qualified SSI unit operators are temporarily not accessible, you must follow the procedures in 40 CFR § 62.15945.
- (b) Operator training and qualification must be obtained through a state-approved program or by completing the requirements included in paragraph (c) of this condition.
- (c) Training must be obtained by completing an incinerator operator training course that includes, at a minimum, the three elements described in paragraphs (c)(1) through (3) of this condition:

- (1) Training on the 10 subjects listed in paragraphs (c)(1)(i) through (x) of this condition:

**SECTION D. Source Level Requirements**

- (i) Environmental concerns, including types of emissions;
- (ii) Basic combustion principles, including products of combustion;
- (iii) Operation of the specific type of incinerator to be used by the operator, including proper startup, sewage sludge feeding and shutdown procedures;
- (iv) Combustion controls and monitoring;
- (v) Operation of air pollution control equipment and factors affecting performance (if applicable);
- (vi) Inspection and maintenance of the incinerator and air pollution control devices;
- (vii) Actions to prevent malfunctions or to prevent conditions that may lead to malfunctions;
- (viii) Bottom and fly ash characteristics and handling procedures;
- (ix) Applicable federal, state and local regulations, including Occupational Safety and Health Administration workplace standards; and
- (x) Pollution prevention.

(2) An examination designed and administered by the state-approved program or instructor administering the subjects in paragraph (c)(1) of this condition.

(3) Written material covering the training course topics that may serve as reference material following completion of the course.

**# 058 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.15925]**

**Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010**

**When must the operator training course be completed?**

The operator training course shall be completed by the later of the three dates specified in paragraphs (a) through (c) of this condition:

- (a) The final compliance date of March 21, 2016;
- (b) Six months after your SSI unit startup; and
- (c) Six months after an employee assumes responsibility for operating the SSI unit or assumes responsibility for supervising the operation of the SSI unit.

**# 059 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.15930]**

**Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010**

**How do I obtain my operator qualification?**

- (a) The permittee shall obtain operator qualification by completing a training course that satisfies the criteria under 40 CFR § 62.15920(b).
- (b) Qualification is valid from the date on which the training course is completed and the operator successfully passes the examination required under 40 CFR § 62.15920(c)(2).

**# 060 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.15935]**

**Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010**

**How do I maintain my operator qualification?**

To maintain qualification, The permittee shall complete an annual review or refresher course covering, at a minimum, the five topics described in paragraphs (a) through (e) of this condition:

- (a) Update of regulations;
- (b) Incinerator operation, including startup and shutdown procedures, sewage sludge feeding and ash handling;
- (c) Inspection and maintenance;
- (d) Prevention of malfunctions or conditions that may lead to malfunction; and

**SECTION D. Source Level Requirements**

(e) Discussion of operating problems encountered by attendees.

**# 061 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.15940]**

**Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010**

**How do I renew my lapsed operator qualification?**

The permittee shall renew a lapsed operator qualification before beginning operation of an SSI unit by one of the two methods specified in paragraphs (a) and (b) of below:

(a) For a lapse of less than 3 years, the permittee shall complete a standard annual refresher course described in 40 CFR § 62.15935; and

(b) For a lapse of 3 years or more, the permittee shall repeat the initial qualification requirements in 40 CFR § 62.15920.

**# 062 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.15945]**

**Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010**

**What if all the qualified operators are temporarily not accessible?**

If a qualified operator is not at the facility and cannot be at the facility within 1 hour, the permittee shall meet the criteria specified in either paragraph (a) or (b) of this condition, depending on the length of time that a qualified operator is not accessible:

(a) When a qualified operator is not accessible for more than 8 hours, the SSI unit may be operated for less than 2 weeks by other plant personnel who are familiar with the operation of the SSI unit and who have completed a review of the information specified in §62.15950 within the past 12 months. However, the permittee shall record the period when a qualified operator was not accessible and include this deviation in the annual report as specified under 40 CFR § 62.16030(c).

(b) When a qualified operator is not accessible for 2 weeks or more, the permittee shall take the two actions that are described in paragraphs (b)(1) and (2) of this condition:

(1) Notify the Administrator of this deviation in writing within 10 days. In the notice, state what caused this deviation, what you are doing to ensure that a qualified operator is accessible, and when you anticipate that a qualified operator will be accessible; and

(2) Submit a status report to the Administrator every 4 weeks outlining what you are doing to ensure that a qualified operator is accessible, stating when you anticipate that a qualified operator will be accessible and requesting approval from the Administrator to continue operation of the SSI unit. You must submit the first status report 4 weeks after you notify the Administrator of the deviation under paragraph (b)(1) of this condition:

(i) If the Administrator notifies you that your request to continue operation of the SSI unit is disapproved, the SSI unit may continue operation for 30 days and then must cease operation; and

(ii) Operation of the unit may resume if a qualified operator is accessible as required under 40 CFR § 62.15920(a). The permittee shall notify the Administrator within 5 days of having resumed operations and of having a qualified operator accessible.

**# 063 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.15950]**

**Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010**

**What site-specific documentation is required and how often must it be reviewed by qualified operators and plant personnel?**

(a) The permittee shall maintain at the facility the documentation of the operator training procedures specified under 40 CFR § 62.15920(c)(1) and make the documentation readily accessible to all SSI unit operators.

**SECTION D. Source Level Requirements**

(b) The permittee shall establish a program for reviewing the information listed in 40 CFR § 62.15920(c)(1) with each qualified incinerator operator and other plant personnel who may operate the unit according to the provisions of 40 CFR § 62.15945(a), according to the following schedule:

(1) The initial review of the information listed in 40 CFR § 62.15920(c)(1) must be conducted by November 30, 2016, or prior to an employee's assumption of responsibilities for operation of the SSI unit, whichever date is later; and

(2) Subsequent annual reviews of the information listed in 40 CFR § 62.15920(c)(1) must be conducted no later than 12 months following the previous review.

**# 064 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.15960]**

**Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010**

**What operating limits and requirements must I meet and by when?**

The permittee shall meet, as applicable, the operating limits and requirements specified in 40 CFR § 62.15960(a), (b), and (d). The operating parameters for establishing operating limits for a wet scrubber and electrostatic precipitator are listed in Table 4 of 40 CFR Part 62, Subpart LLL. The permittee shall comply with the operating requirements in 40 CFR § 62.15960(f) and the requirements in 40 CFR § 62.15960(g) for meeting any new operating limits, re-established in 40 CFR § 62.16005. The operating limits apply at all times that sewage sludge is in the combustion chamber (i.e., until the sewage sludge feed to the combustor has been cut off for a period of time not less than the sewage sludge incineration residence time):

(a) The permittee shall meet a site-specific operating limit for minimum operating temperature of the combustion chamber (or afterburner combustion chamber) that you establish in 40 CFR § 62.15985;

(b) If a wet scrubber, electrostatic precipitator, or afterburner is used to comply with an emission limit, the permittee shall meet the site-specific operating limits that are establish in 40 CFR § 62.15985 for each operating parameter associated with each air pollution control device;

(c) The permittee shall meet the operating requirements in their site-specific fugitive emission monitoring plan as specified in 40 CFR § 62.15995(d) to ensure that the ash handling system will meet the emission standard for fugitive emissions from ash handling;

(d) The permittee shall monitor the feed rate and moisture content of the sewage sludge fed to the sewage sludge incinerator, as specified in paragraphs (1) and (2) of this condition:

(1) Continuously monitor the sewage sludge feed rate and calculate a daily average for all hours of operation during each 24-hour period. Keep a record of the daily average feed rate, as specified in 40 CFR § 62.16025(f)(3)(ii); and

(2) Take at least one grab sample per day of the sewage sludge fed to the sewage sludge incinerator. If you take more than one grab sample in a day, calculate the daily average for the grab samples. Keep a record of the daily average moisture content, as specified in 40 CFR § 62.16025(f)(3)(ii).

(e) For the operating limits and requirements specified in paragraphs (a) through (c) of this condition, the permittee shall meet any new operating limits and requirements, re-established according to 40 CFR § 62.16005(d).

**# 065 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.15970]**

**Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010**

**Do the emission limits, emission standards, and operating limits apply during periods of startup, shutdown, and malfunction?**

The emission limits and standards of 40 CFR Part 62, Subpart LLL apply at all times and during periods of malfunction. The operating limits apply at all times that sewage sludge is in the combustion chamber (i.e., until the sewage sludge feed to the combustor has been cut off for a period of time not less than the sewage sludge incineration residence time). For determining compliance with the CO concentration limit using CO CEMS, the correction to 7-percent oxygen does not apply during periods of startup or shutdown. Use the measured CO concentration without correcting for oxygen concentration in

**SECTION D. Source Level Requirements**

averaging with other CO concentrations (corrected to 7-percent O<sub>2</sub>) to determine the 24-hour average value.

**# 066 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.16010]**

**Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010**

**By what date must I conduct annual air pollution control device inspections and make any necessary repairs?**

(a) The permittee shall conduct an annual inspection of each air pollution control device used to comply with the emission limits, according to 40 CFR § 62.16015(c), no later than 12 months following the previous annual air pollution control device inspection.

(b) Within 10 operating days following an air pollution control device inspection, all necessary repairs shall be completed unless a written approval is obtained from the Administrator establishing a date whereby all necessary repairs of the affected SSI unit must be completed.

**# 067 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.16015]**

**Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010**

**What are the performance testing, monitoring, and calibration requirements for compliance with the emission limits and standards?**

The permittee shall meet the air pollution control device inspections requirements specified in this condition.

Air pollution control device inspections. The permittee shall conduct air pollution control device inspections that include, at a minimum, the following:

- (1) Inspect air pollution control device(s) for proper operation.
- (2) Generally observe that the equipment is maintained in good operating condition.
- (3) Develop a site-specific monitoring plan according to the requirements in 40 CFR § 62.15995.

**# 068 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.16015]**

**Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010**

**What are the performance testing, monitoring, and calibration requirements for compliance with the emission limits and standards?**

The permittee shall meet the bypass stack provisions specified in this condition.

Bypass stack. Use of the bypass stack at any time that sewage sludge is being charged to the SSI unit is an emissions standards deviation for all pollutants listed in Table 3 to 40 CFR Part 62, Subpart LLL. The use of the bypass stack during a performance test invalidates the performance test.

**# 069 [40 CFR Part 62 Approval and Promulgation of State Plans §40 CFR § 62.16020]**

**Subpart LLL—Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010**

**What are the monitoring and calibration requirements for compliance with my operating limits?**

(a) The permittee shall install, operate, calibrate and maintain the continuous parameter monitoring systems according to the requirements in paragraphs (a)(1) and (2) of this condition.

- (1) Meet the following general requirements for flow, pressure, pH and operating temperature measurement devices:

(i) The permittee shall collect data using the continuous monitoring system at all times the affected SSI unit is operating and at the intervals specified in paragraph (a)(1)(ii) of this condition, except for periods of monitoring system malfunctions that occur during periods specified defined in 40 CFR § 62.15995(a)(7)(i), repairs associated with monitoring system malfunctions, and required monitoring system quality assurance or quality control activities (including, as applicable,

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calibration checks and required zero and span adjustments). Any such periods that the permittee does not collect data using the continuous monitoring system constitute a deviation from the monitoring requirements and shall be reported in a deviation report.

(ii) The permittee shall collect continuous parameter monitoring system data in accordance with 40 CFR § 60.13(e)(2).

(iii) Any data collected during monitoring system malfunctions, repairs associated with monitoring system malfunctions, or required monitoring system quality assurance or control activities shall not be included in calculations used to report emissions or operating levels. Any such periods shall be reported in your annual deviation report.

(iv) Any data collected during periods when the monitoring system is out of control as specified in 40 CFR § 62.15995(a)(7)(i) must not be included in calculations used to report emissions or operating levels. Any such periods that do not coincide with a monitoring system malfunction, as defined in 40 CFR § 62.16045, constitute a deviation from the monitoring requirements and shall be reported in a deviation report.

(v) The permittee shall use all the data collected during all periods except those periods specified in paragraphs (a)(1)(iii) and (iv) of this condition in assessing the operation of the control device and associated control system.

(vi) Record the results of each inspection, calibration and validation check.

(2) Operate and maintain your continuous monitoring system according to your monitoring plan required under 40 CFR § 60.4880. Additionally:

(i) For carrier gas flow rate monitors (for activated carbon injection), during the performance test conducted pursuant to 40 CFR § 60.4885, the permittee shall demonstrate that the system is maintained within  $\pm 5$ -percent accuracy, according to the procedures in appendix A to 40 CFR Part 75.

(ii) For carrier gas pressure drop monitors (for activated carbon injection), during the performance test conducted pursuant to 40 CFR § 60.4885, the permittee shall demonstrate that the system is maintained within  $\pm 5$ -percent accuracy.

(b) The permittee shall operate and maintain the continuous parameter monitoring systems specified in paragraph (a) of this condition in continuous operation according to the monitoring plan required under 40 CFR § 60.4880.

(c) If the SSI unit has a bypass stack, the permittee shall install, calibrate (to manufacturers' specifications), maintain and operate a device or method for measuring the use of the bypass stack including date, time and duration.

**VII. ADDITIONAL REQUIREMENTS.**

**# 070 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The Quality Control for Acceptance of Sludge for Incineration Plan, as approved by the Department, shall be complied with at all times. Amendments to the approved plan may be submitted by the owner for consideration by the Department to modify or revise the approved plan.

**# 071 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

Facilities subject to 40 CFR Part 60 Subpart O, 40 CFR Part 61 Subparts C and E, 40 CFR Part 503 Subpart E, and 40 CFR Part 62 Subpart LLL, shall submit required copies of all requests, reports, applications, submittals, and other communications to both the U.S. EPA and the Department.

(a). Copies to the U.S. EPA go to the following address:

United States Environmental Protection Agency  
Region III, Enforcement & Compliance Assurance Division  
Air, RCRA and Toxics Branch (3ED21)  
Four Penn Center

**SECTION D. Source Level Requirements**

1600 John F. Kennedy Boulevard  
Philadelphia, Pennsylvania 19103-2852

Note: The above mailing address for EPA applies if reporting cannot be accomplished through CEDRI or other electronic reporting interface.

(b). Copies to the Department can be submitted to:

Department of Environmental Protection  
Southeast Regional Office  
Regional Manager, Air Quality  
2 East Main Street  
Norristown, PA 19401

Note: The above mailing address for the Department applies if reporting cannot be submitted electronically.

**# 072 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The following regulations and codes requiring compliance by March 21, 2016 have been met by the facility for the items list. Compliance confirmed by the submission of the final control plan and initial compliance report on April 27, 2016. All other parts of the regulation/code must be met by the facility as required under regulation/code.

- (1) 40 CFR § 62.15955 - compliance date
- (2) 40 CFR § 62.15980 - initial compliance performance testing on 3/2/2016 and 3/3/2016, with report submitted with final compliance plan
- (3) 40 CFR §§ 62.15875, 62.15885, and 62.15890 – for submission of final control plan and initial compliance report by due date, including post mark
- (4) 40 CFR §§ 62.16030(a) and 62.16030(b) – final control plan and initial compliance report; reporting of closure before due date; contents of final control plan and initial compliance report.
- (5) 40 CFR § 62.15900 – control plan details
- (6) 40 CFR § 62.15960 – compliance date for limits

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

**SECTION D. Source Level Requirements**

Source ID: 110

Source Name: EMERGENCY GENERATOR 701

Source Capacity/Throughput:

13.700 Gal/HR

Diesel Fuel

Conditions for this source occur in the following groups: GENERATORS

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

This source consists of a 500 kW Katolight diesel generator set, Model No. D500FRV4, rated at 1.876 MMBtu/hr and installed in 2001.

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

**SECTION D. Source Level Requirements**

Source ID: 111

Source Name: EMERGENCY GENERATOR 702

Source Capacity/Throughput:

13.700 Gal/HR

Diesel Fuel

Conditions for this source occur in the following groups: GENERATORS

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

This source consists of a 500 kW Katolight diesel generator set, Model No. D500FRV4, rated at 1.876 MMBtu/hr and installed in 2001.

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

**SECTION D. Source Level Requirements**

Source ID: 112

Source Name: EMERGENCY GENERATOR 703

Source Capacity/Throughput:

13.700 Gal/HR

Diesel Fuel

Conditions for this source occur in the following groups: GENERATORS

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

This source consists of a 500 kW Katolight diesel generator set, Model No. D500FRV4, rated at 1.876 MMBtu/hr and installed in 2001.

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

**SECTION E. Source Group Restrictions.**

Group Name: GENERATORS

Group Description: Emergency Generators 110, 111 &amp; 112

Sources included in this group

ID	Name
110	EMERGENCY GENERATOR 701
111	EMERGENCY GENERATOR 702
112	EMERGENCY GENERATOR 703

**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, pursuant to 25 Pa. Code § 123.13 (c)(1)(i).

**# 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 parts per million, by volume, dry basis.

[Compliance with diesel fuel requirements under 40 CFR § 63.6604 ensures compliance with this condition]

**Fuel Restriction(s).****# 003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6604]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What fuel requirements must I meet if I own or operate an existing stationary CI RICE?**

The permittee may only use diesel fuel in these engines that meets the following standards:

(1) A maximum sulfur content of 15 ppm.

(2) A minimum cetane index of 40 or maximum aromatic content of 35% by volume.

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

The permittee shall limit the combined operation of the emergency generators listed under Source ID Nos. 110, 111, and 112 to 750 hours per 12-month rolling period.

**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 permittee shall monitor for the following for these sources:

(1). The date and time that each emergency generator is started and shut down.

(2). The duration and reason for operation.

(3). The amount of fuel that is consumed each time the generator(s) are operated.

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

[Additionally authority for this permit conditions is derived from 40 CFR § 63.6655 - What records must I keep?]

1. For all engines, the permittee shall maintain records of:

- (a) The occurrence and duration of each malfunction of operation and the corrective actions taken during periods of malfunction to minimize emissions.
- (b) Any performance tests and performance evaluations.
- (c) All maintenance that is performed, including oil changes, filter changes, hose and belt replacements. Maintenance records shall include the engine hour meter reading at the time the maintenance is conducted.
- (d) The following operation data :
  - (1) Emergency operation:
    - (i) Date and time of start up and shut down;
    - (ii) Reason for emergency operation;
    - (iii) Hours operated for emergency; and
    - (iv) Amount of fuel used during the emergency operation.
  - (2) Non-emergency operation:
    - (i) Date and time of start up and shut down;
    - (ii) Reason for non-emergency operation;
    - (iii) Hours operated for non-emergency; and
    - (iv) Amount of fuel used during the non-emergency operation

2. The total hours of operation for all generators, combined, shall be recorded on a 12-month rolling basis to show compliance with Section E, Condition #004.

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

- (a) The permittee shall keep receipts from all diesel fuel deliveries with a fuel sulfur content stated on the receipt from the supplier.
- (b) If a receipt for a diesel delivery is not available, the permittee shall have the diesel delivered tested according to 25 PA Code § 139.16 to determine sulfur content.

**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 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6603]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What emission limitations, operating limitations, and other requirements must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?**

As specified in Table 2d of the RICE MACT Subpart ZZZZ, for each existing stationary CI RICE located at an area source of HAP emissions, the permittee shall:

- (a) Change oil and filter every 500 hours of operation or annually, whichever comes first;
- (b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and

**SECTION E. Source Group Restrictions.**

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

**# 009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

[Authority for this permit condition is derived from 40 C.F.R. § 63.6625(e)]

The permittee shall operate and maintain the stationary RICE according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

**# 010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

[Authority for this permit condition is derived from 40 CFR § 63.6625(f).]

All engines shall be installed with a non-resettable hour meter.

**# 011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

[Authority for this permit condition is derived from 40 CFR § 63.6625(i).]

The permittee has the option of using an oil analysis program, in order to extend the oil change requirement in Section E, Group Generators, Condition #008(a) by following the steps below:

(a) The oil analysis must be performed at the same frequency specified in 40 C.F.R. Part 63 Subpart ZZZZ Table 2d Item 4. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis.

(b) If the engine is not in operation when the results of the analysis in paragraph (a) are received, the engine owner or operator must change the oil within 2 business days of receiving the results or before commencing operation, whichever is later, pursuant to 40 CFR Section 63.6625(i).

(c) If the permittee uses an oil analysis program, as indicated in paragraph (a), the oil analysis program shall be part of the maintenance plan for the facility, as required by 40 CFR Section 63.6625(i).

**# 012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?**

(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 63.6640(f)

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

**SECTION E. Source Group Restrictions.****VII. ADDITIONAL REQUIREMENTS.****# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

This group source consists of three (3) 500 kW (768 HP) Katolight diesel generator set, Model No. D500FRV4, rated at 1.876 MMBtu/hr each.

**\*\*\* 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 Description			
201	SEWAGE SLUDGE INCINERATOR			
<b>Emission Limit</b>				<b>Pollutant</b>
10.000	GRAMS/Day	24-hour period		Beryllium
100.000	PPMV	0%moisture; 7% oxygen		CO
3,200.000	GRAMS/Day	24-hour period		Mercury
22.700	Tons/Yr	12-month rolling period		NOX
0.100	gr/CF	dry; corrected to 12% CO2		PM10
1.300	Lbs/Tons	dry sludge input		PM10
110	EMERGENCY GENERATOR 701			
<b>Emission Limit</b>				<b>Pollutant</b>
500.000	PPMV			SOX
111	EMERGENCY GENERATOR 702			
<b>Emission Limit</b>				<b>Pollutant</b>
500.000	PPMV			SOX
112	EMERGENCY GENERATOR 703			
<b>Emission Limit</b>				<b>Pollutant</b>
500.000	PPMV			SOX

**Site Emission Restriction Summary**

Emission Limit		Pollutant
25.000 Tons/Yr	Less than this emission rate on a 12-month rolling period	NOX

**SECTION H. Miscellaneous.**

#001. 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:

(a). The Waste Water Treatment Plant has an annual average processing capacity of 6.98 million gallons per day (mgd) and includes the following units:

- (1). An Influent Structure
- (2). Two Primary Clarifiers
- (3). Two Aeration Basins
- (4). Two Secondary Clarifiers
- (5). A UV Disinfection Unit
- (6). A Primary Thickener
- (7). A Secondary Sludge Silo
- (8). A Sewage Sludge Centrifuge.
- (9). Truck Waste Receiving Area.

(b). One (1) Ferric Chloride Storage Tanks (8,000 gallons). This tank does not have bin vent filters.

#002. The facility shall calculate and record actual VOC/HAP emissions from the sources listed in #001 and include these emissions in the annual AIMS emission inventory report.

#003. The operating permit 46-301-260 provided the basis for certain terms and conditions for this State Only Operating Permit.

#004. APS No. 346935; Authorization No. 625353: This State Only Operating Permit was revised to address issues concerning an appeal. The language for the monitoring of odors at the facility in Section C, Condition #011 was changed to clarify which odors would require action by the facility and would have to be reported to the Department. Some roof mounted heaters were omitted from the initial permit, and they have been added to the revised permit under the source name Administration Building NG Sources. The monitoring and recordkeeping for fuel and hours of operation for Source ID Nos. 102, 103, and 104 have the phrase "using a Department approved method" added to the conditions. The hours of operation limits for Source ID Nos. 102, 103, and 104 were reviewed and considered an elective restriction instead of a regulatory requirement. The natural gas hot water heater was replaced with an electric powered hot water heater, and the natural gas hot water heater was removed from the permit.

#005. This permit is being renewed under APS No. 346935 and AUTH No. 810775.

#006. An initial Title V Operating Permit is being issued under APS No. 839059 and AUTH No. 1019922, in accordance with 40 C.F.R. Part 60, Subpart M: Emission Guidelines for Existing Sewage Sludge Incinerators (SSI).

This Title V Operating Permit incorporates the applicable requirements of 40 CFR Part 62, Subpart LLL - Federal Plan Requirements for Sewage Sludge Incineration Units Constructed on or Before October 14, 2010.

This Title V Operating Permit will incorporate the conditions of a Request for Determination (RFD No. 3495), which reduced the Sewage Sludge Incinerator (Source 201) NOx emission limit from 23.4 tons per year to 22.7 tons per year, and increased the operating hour restriction for the emergency generator engines (Sources 110, 111, and 112) from 200 combined hours to 750 combined hours.

#007. An Administrative Amendment is being processed to revise certain conditions in the TVOP as a settlement to the appeal filed on August 4, 2017. APS No. 839059; AUTH No. 1238282.

#008. A Minor Modification to change the secondary power and effluent rate of the WESP. Additionally Source 102 - Old Incinerator Building Boiler and Source 104 - Waste Oil Burner are being replaced with like unit that have lower Btu input.. Auth. # 1346578; APS # 839059

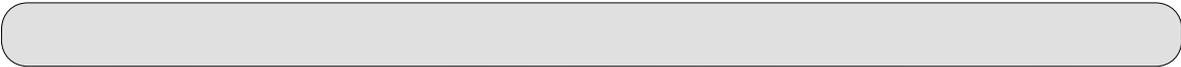
#009 AUTH 1375283; APS 839059 for renewal of Title V permit. Changes to permit include:

1. Changing maximum sludge throughput from 1800 lb/hr to 1750 lb/hr for source 201.
2. Combine some conditions for incinerator with dates that have past and noting that compliance with the conditions was achieved on 4/27/2016.

**SECTION H. Miscellaneous.**

3. The sources listed below have been moved to Section H as insignificant sources. The removal from Section D of these sources does not exclude their emissions from the site wide totals or relieve them from the requirements of any applicable state or federal regulations.

- a. Source ID 102B: Velocity Boiler Works Aruba 5, model number AWR280B rated for 0.28 MMBtu/hr
- b. Source ID 103B: ADMIN BLDG NG SOURCES consisting of:
  - (1). Administration Building Boiler Heater (0.1 MMBtu/hr)
  - (2). Two (2), 0.072 MMBtu/hr heating units for the laboratory rooms.
  - (3). One (1), 0.05 MMBtu/hr heating units for the laboratory rooms.
  - (4). One (1), 0.20 MMBtu/hr heating unit for the laboratory rooms.



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

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