



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

**TITLE V/STATE OPERATING PERMIT**

Issue Date: October 17, 2022

Effective Date: October 17, 2022

Expiration Date: October 16, 2027

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

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

**TITLE V Permit No: 46-00221-TVOP**

Federal Tax Id - Plant Code: 23-6005825-1

**Owner Information**

Name: UPPER MORELAND HATBORO JT SEW AUTH  
Mailing Address: 2875 TERWOOD RD  
WILLOW GROVE, PA 19090-1434

**Plant Information**

Plant: UPPER MORELAND HATBORO JT SEW AUTH/WILLOW GROVE  
Location: 46 Montgomery County 46009 Upper Moreland Township  
SIC Code: 4952 Trans. & Utilities - Sewerage Systems

**Responsible Official**

Name: ERIC LINDHULT  
Title: GENERAL MGR  
Phone: (215) 659 - 3975 Email: gm@umhjsa.org

**Permit Contact Person**

Name: ERIC LINDHULT  
Title: GENERAL MGR  
Phone: (215) 659 - 3975 Email: gm@umhjsa.org

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



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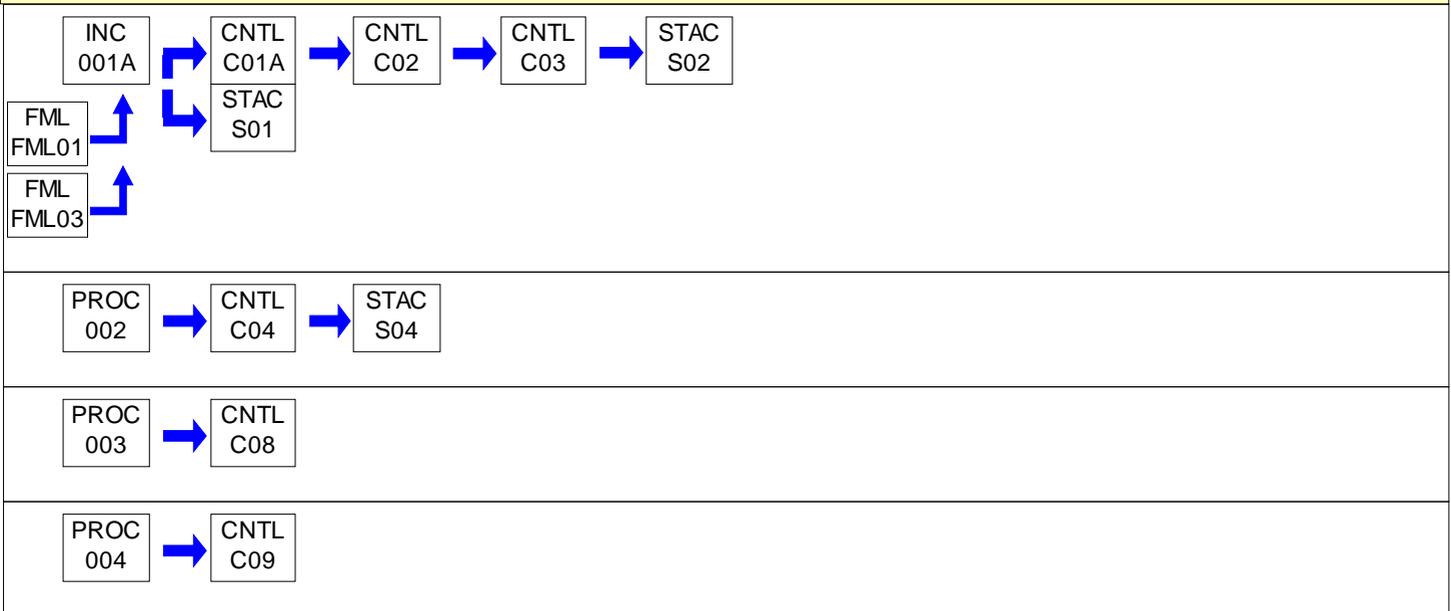
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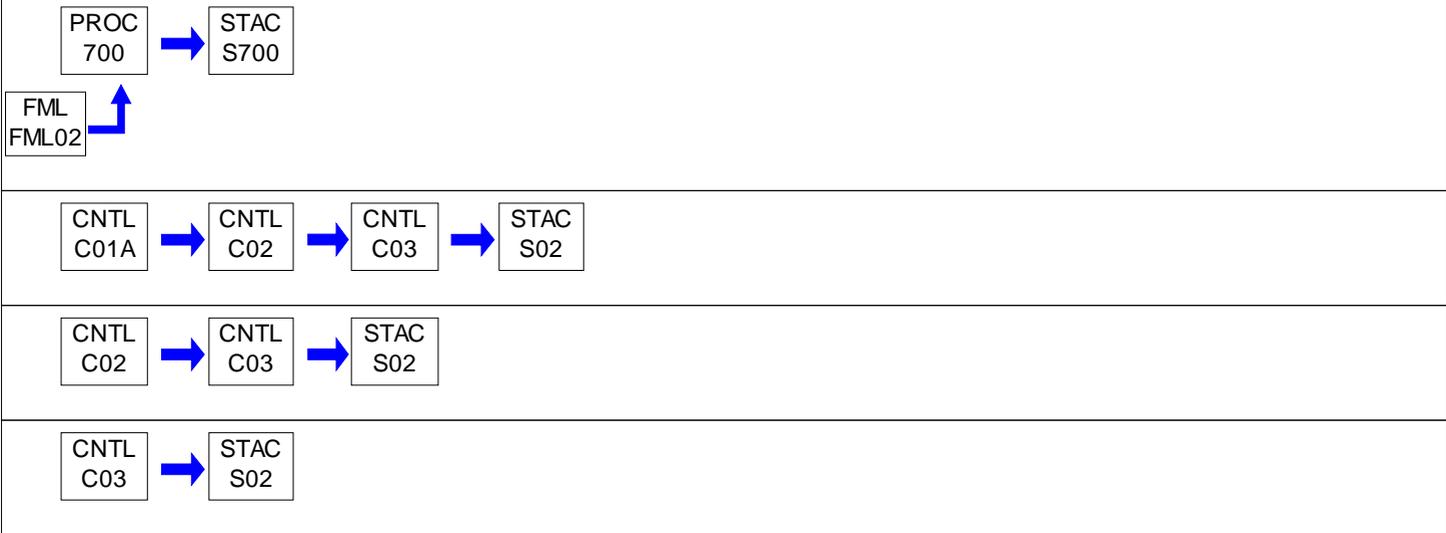
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
001A	NICHOLS SLUDGE INCINERATOR	10.500 MCF/HR	Natural Gas
		200.000 Gal/HR	Propane
		2.500 Tons/HR	SEWAGE SLUDGE
002	DEWATERING PRESS		
003	TWO SLUDGE HOLDING TANKS		
004	SLUDGE HOLDING PITS 1 & 3		
700	2000 KW GENERATOR	137.900 Gal/HR	Diesel Fuel
C01A	VENTURI SCRUBBER	N/A	INCINERATOR EMISSION
C02	IMPINGEMENT SCRUBBER	N/A	INCINERATOR EMISSION
C03	VON ROLL AFTERBURNER	N/A	INCINERATOR EMISSION
		N/A	Natural Gas
		N/A	Propane
C04	BELT FILTER PRESS SCRUBBER		
C08	SECOND STAGE AERATION BASINS		
C09	THIRD STAGE AERATION BASINS		
FML01	NATURAL GAS		
FML02	DIESEL FUEL		
FML03	PROPANE		
S01	BY-PASS STACK		
S02	AFTERBURNER STACK		
S04	BELT FILTER PRESS SCRUBBER STACK		
S700	2000 KW EMERGENCY GENERATOR STACK		

**PERMIT MAPS**



### PERMIT MAPS



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- (1) The Department determines that no other change in the permit is necessary;
- (2) A written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee; and,
- (3) A compliance review form has been submitted to the Department and the permit transfer has been approved by

**SECTION B. General Title V Requirements**

the Department.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

R3\_Air\_Apps\_and\_Notices@epa.gov

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

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

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

R3\_Air\_Apps\_and\_Notices@epa.gov

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

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

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

R3\_Air\_Apps\_and\_Notices@epa.gov

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

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

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

R3\_Air\_Apps\_and\_Notices@epa.gov

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

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

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

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

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

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

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

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

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

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

- (1) Eight thousand dollars (\$8,000) for calendar years 2021—2025.
- (2) Ten thousand dollars (\$10,000) for calendar years 2026—2030.
- (3) Twelve thousand five hundred dollars (\$12,500) for the calendar years beginning with 2031.

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

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

- (1) Identify and describe the pollutants that will be emitted as a result of the de minimis emissions increase.
- (2) Provide emission rates expressed in tons per year and in terms necessary to establish compliance consistent with any applicable requirement.

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

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

- (1) Four tons of carbon monoxide from a single source during the term of the permit and 20 tons of carbon monoxide at the facility during the term of the permit.
- (2) One ton of NO<sub>x</sub> from a single source during the term of the permit and 5 tons of NO<sub>x</sub> at the facility during the term of the permit.
- (3) One and six-tenths tons of the oxides of sulfur from a single source during the term of the permit and 8.0 tons of oxides of sulfur at the facility during the term of the permit.
- (4) Six-tenths of a ton of PM<sub>10</sub> from a single source during the term of the permit and 3.0 tons of PM<sub>10</sub> at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.
- (5) One ton of VOCs from a single source during the term of the permit and 5.0 tons of VOCs at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.

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

- (1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.
- (2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(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.

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

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in 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

**# 004 [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.

**# 005 [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.

**# 006 [25 Pa. Code §123.42]****Exceptions**

The limitations of Condition #005, of this Section, shall not apply to a visible emission in either of the following instances:

- (a). When the presence of uncombined water is the only reason for failure 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.

**SECTION C. Site Level Requirements**

(c). When the emission results from the sources specified in Condition #002, of this Section.

**# 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; or
- (g) a fire set solely for cooking food.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

- (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/Plan Approval, 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.

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

- (a) The permittee shall email all source test submissions (notifications, protocols, reports, supplemental information, etc.) to both the AQ Program Manager for the Southeast Regional Office and the PSIMS Administrator in Central Office (email addresses are provided below). Any questions or concerns about source testing submissions can be sent to RA-EPstacktesting@pa.gov and the PSIMS Administrator will address them.

Southeast Region  
RA-EPSEstacktesting@pa.gov

Central Office  
RA-EPstacktesting@pa.gov

- (b) The following pertinent information shall be listed on the title page.

1. Test Date(s)

- a. For protocols, provide the proposed date on which testing will commence or "TBD"

**SECTION C. Site Level Requirements**

- b. For reports, provide the first and last day of testing
2. Facility Identification Number (PF ID 798): For test programs that were conducted under a multi-site protocol, also include the PF ID under which the protocol was stored in PSIMS, as indicated in the protocol response letter.
3. Source ID(s) for the applicable source(s) and air pollution control device(s): The term Source ID is used in the permit but "Other Id" is used in DEP electronic systems. They are the same number and must also be listed for control equipment
4. Testing Requirements (all that apply):
- Plan approval number(s)
  - Operating permit number
  - Applicable federal subpart(s) (i.e. 40 CFR 60, Subpart JJJJ)
  - Special purpose(s) (Consent Order, RFD, RACT II, Tier II, etc.)
- (c) If confidential information must be submitted, submit both a public copy, which has been redacted, and a confidential copy. The cover page of each submittal should state whether it is a "Public Copy" or "Confidential Copy" and each page of the latter must be marked "CONFIDENTIAL".

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

Plan Approval No. 46-0221B requires a source test to confirm compliance with Source ID 002, Hydrogen Sulfide (H<sub>2</sub>S) EMISSION LIMIT of 0.13 ppmw. A source test was conducted on March 23, 2021 and the source test report was received by DEP on May 21, 2021. The permittee's test report received on May 21, 2021 indicates that the source test results demonstrate compliance with plan approval requirements; however, DEP Source Testing Program has not completed a formal review of the source test report to determine if the test results are acceptable to use for compliance purposes at this time. Plan Approval No. 46-0221B terms and conditions are incorporated into this permit based upon a preliminary review of the source test report. If DEP Source Testing Program determines that the source test is not acceptable to use for compliance purposes, the permittee will be required to retest in accordance with conditions specified in Plan Approval No. 46-0221B and other such conditions, within the capacity of the equipment, which may be requested by DEP.

**III. MONITORING REQUIREMENTS.****# 011 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

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

**# 012 [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:
  - (1) odors which may be objectionable (as per 25 Pa. Code §123.31);
  - (2) visible emissions (as per 25 Pa. Code §§123.41 and 123.42); and
  - (3) fugitive particulate matter (as per 25 Pa. Code §§ 123.1 and 123.2).
- (b) Objectionable odors, fugitive particulate emissions, and visible emissions that are caused or may be caused by operations at the site shall:
  - (1) be investigated;
  - (2) be reported to the facility management, or individual(s) designated by the permittee;

**SECTION C. Site Level Requirements**

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

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

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

**# 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.
- (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.**

(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;

**SECTION C. Site Level Requirements**

- (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:

- (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 the 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. 46-00221, UPPER MORELAND HATBORO JT SEW AUTH.
- (b) A semi-annual deviation report, due by October 1, of each year, for the period covering January 1 through June 30 of the same year. Note: The annual certification of compliance fulfills the 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 Condition #002, of this Section, 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, water or suitable chemicals, as approved by the Department, 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, oil, water, or other suitable chemicals, as approved by the Department, on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
- (c) Paving and maintenance of roadways.

**SECTION C. Site Level Requirements**

(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.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

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

**# 019 [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 Section A, of this permit, is causing the emission of air contaminants in excess of the limitations specified in, or established pursuant to, 25 Pa. Code Article III or any other applicable rule promulgated under the Clean Air Act.

**# 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 #017(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).

**IX. COMPLIANCE SCHEDULE.**

No compliance milestones exist.

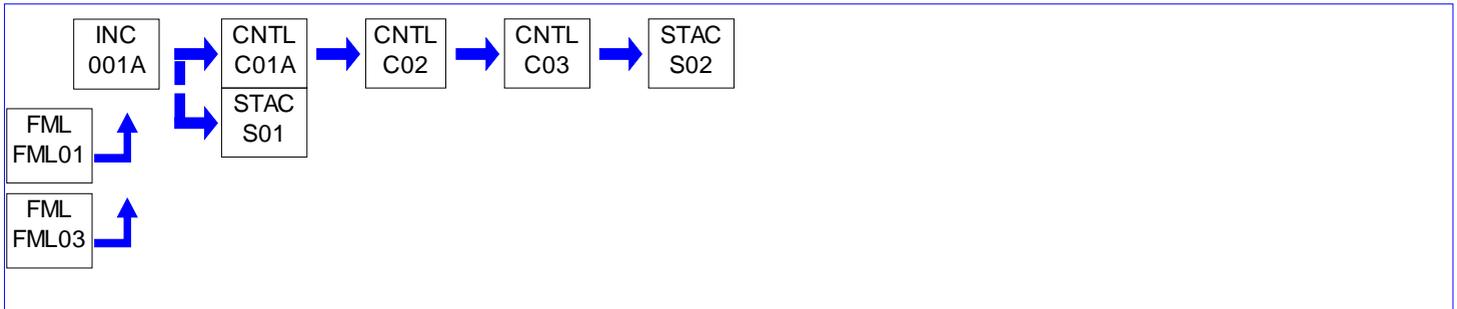
**\*\*\* Permit Shield In Effect \*\*\***

**SECTION D. Source Level Requirements**

Source ID: 001A

Source Name: NICHOLS SLUDGE INCINERATOR

Source Capacity/Throughput:	10.500 MCF/HR	Natural Gas
	200.000 Gal/HR	Propane
	2.500 Tons/HR	SEWAGE SLUDGE

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

No person may permit the emission into 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 grains per dry standard cubic foot, corrected to 12 percent carbon dioxide, pursuant to 25 Pa. Code § 123.12.

**# 002 [25 Pa. Code §123.21]****General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides from this source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas exceeds 500 ppmvd.

**# 003 [25 Pa. Code §124.3]****Adoption of standards**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 61.52.]

Emissions to the atmosphere from sludge incineration plants shall not exceed 3,200 grams of mercury per 24-hour period.

**# 004 [25 Pa. Code §124.3]****Adoption of standards**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 61.32.]

(a). Emissions to the atmosphere from stationary sources shall not exceed 10 grams of beryllium over a 24-hour period, except as provided in paragraph (b) below.

(b). Rather than meet the requirement of paragraph (a) above, an owner or operator may request approval from the Administrator to meet an ambient concentration limit on beryllium in the vicinity of the stationary source of 0.1 microgram per cubic meter, averaged over a 30-day period.

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

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 503.40(c) and 503.44.]

(a). The permittee shall limit the monthly average concentration of carbon monoxide from the exit gas from this source, corrected for zero percent moisture and to seven percent oxygen, to 100 parts per million (ppm) on a volumetric basis.

**SECTION D. Source Level Requirements**

(b). The carbon monoxide concentration in the exit gas from a sewage sludge incinerator shall be corrected to seven percent oxygen by multiplying the measured carbon monoxide concentration by the correction factor calculated using the following equation.

$$\text{Correction Factor (Oxygen)} = ((14)/(21 - Y))$$

where:

Y = Percent oxygen concentration in the sewage sludge incinerator stack exit gas (dry volume/dry volume).

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

([Additional authority for this permit condition is also derived from 40 C.F.R. § 503.43.]

The permittee shall determine the average allowable daily concentration of contaminants in the sewage sludge fed to this sewage sludge incinerator using the following calculations and procedures:

(a). The average daily concentration of lead in the sewage sludge fed to the sewage sludge incinerator shall not exceed the limit determined in the following equation:

$$CPb = [(0.1) * (NAAQS) * (86,400 \text{ s/day})] / [(DF) * (1 - CEPb) * (SF)]$$

where,

CPb = Average Daily Concentration of Lead in the sewage sludge (g Pb/metric ton sludge).

NAAQS = National Ambient Air Quality Standard for Lead (0.15 micrograms per cubic meter).

DF = Dispersion Factor ((micrograms per cubic meter) / (grams per second)).

CEPb = Control Efficiency for Lead emitted from the Incinerator and/or associated Air Control Devices.

SF = Sewage Sludge Feed Rate (metric tons per day).

(b). The average daily concentration of Arsenic, Cadmium, Chromium, and Nickel in the sewage sludge fed to the sewage sludge incinerator shall not exceed the limit determined in the following equation:

$$Ci = [(RSCi) * (86,400 \text{ s/day})] / [(DF) * (1 - CEi) * (SF)]$$

where,

Ci = Average Daily Concentration of contaminant in the sewage sludge (g contaminant/metric ton sludge).

RSCi = Risk Specific Concentration of contaminant (micrograms per cubic meter).

RSCAs = Risk Specific Concentration of Arsenic = 0.023 ug/m<sup>3</sup>

RSCCd = Risk Specific Concentration of Cadmium = 0.057 ug/m<sup>3</sup>

RSCCr = Risk Specific Concentration of Hexavalent Chromium = 0.064 ug/m<sup>3</sup>

RSCNi = Risk Specific Concentration of Nickel = 2.0 ug/m<sup>3</sup>

DF = Dispersion Factor ((micrograms per cubic meter) / (grams per second)).

CEi = Control Efficiency for each contaminant listed above emitted from the Incinerator and/or associated Air Control Devices.

SF = Sewage Sludge Feed Rate (metric tons per day).

(c). The permittee shall use air dispersion modeling to determine a daily dispersion factor (DF). This dispersion factor will be used in the calculation of allowable daily concentrations of arsenic, cadmium, chromium, lead, and nickel in the sewage sludge fed to the sewage sludge incinerator that meet the applicable limits for pollutant concentrations listed in this permit.

**(d). Air Dispersion Modeling**

(1). The air dispersion model used to determine the dispersion factors in paragraphs (a) and (b) above shall be appropriate for the geographical, physical, and population characteristics at the sewage sludge incinerator site.

(2). The results of the air dispersion modeling shall be submitted to the permitting authority 30 days after the completion of the modeling. In addition to the modeling results, the submission shall include a description of the air dispersion model

**SECTION D. Source Level Requirements**

and the values used for the model parameters.

(3). If the stack height of the sewage sludge incinerator is 65 meters or less, then the actual stack height of the sewage sludge incinerator shall be used in the air dispersion model to determine the dispersion factor (DF).

(4). If the stack height exceeds 65 meters, the creditable stack height shall be determined in accordance with 40 C.F.R. §51.100(ii), and the creditable stack height shall be used in the air dispersion model to determine the dispersion factor (DF).

(e). The control efficiencies for Lead, Arsenic, Cadmium, Chromium, and Nickel shall be determined by a performance testing using representative sewage sludge incinerator conditions at the highest expected sewage sludge feed rate within the design capacity of the sewage sludge incinerator.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.15955.]

(a) The permittee shall meet the following emission limits and standards, as specified in Table 3 of 40 CFR Part 62 Subpart LLL by March 21, 2016 and thereafter.

- (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)(i) Dioxins/Furans (total mass basis): 5.0 nanograms per dry standard cubic meter, OR
- (4)(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.

(c) 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).

**Throughput Restriction(s).****# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 CFR § 62.16015.]

1. The sewage sludge feed rate to the incinerator shall not exceed either:
  - a. The maximum permitted capacity of 1,150 pounds of sewage sludge per hour, or
  - b. The lowest sewage sludge feed rate (of three runs) divided by 0.85, demonstrated during the most recent compliant stack test.
2. If the new calculated sewage sludge feed rate during testing is greater than the value previously calculated in paragraph 1(b), the permittee may use the higher sewage sludge feed rate if the test indicates compliance for all pollutants and after the stack test report is approved by DEP. If the new calculated sewage sludge feed rate during testing is less than the value previously calculated in paragraph 1(b), the lower sewage sludge feed rate will be effective immediately after testing.

**SECTION D. Source Level Requirements**

3. The new sewage sludge feed rate shall be clearly documented with the effective date on all future test protocols and any recordkeeping for the sewage sludge feed rate.

Pursuant to 40 C.F.R. § 62.16045, sewage sludge feed rate is defined as the rate at which sewage sludge is fed into the incinerator unit.

**II. TESTING REQUIREMENTS.****# 009 [25 Pa. Code §124.3]****Adoption of standards**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 61.53.]

Unless a waiver of emission testing is obtained under 40 C.F.R. § 61.13, each owner or operator of a source subject to 40 C.F.R. § 61.52(b) shall test emissions from that source. Such tests shall be conducted in accordance with the following procedures or the procedures under 40 C.F.R. § 61.54 for determining mercury from sludge sampling.

(a). U.S.EPA Method 101A in 40 C.F.R. § 61 Appendix B shall be used to test emissions as follows:

(1). The test shall be performed by May 28, 2014.

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

(c). Samples shall be taken over such a period or periods as are necessary to determine accurately the maximum emissions which will occur in a 24-hour period. No changes shall be made in the operation which would potentially increase emissions above the most recent stack test, until the new emission level has been estimated by calculation and the results reported to the Administrator.

(d). All samples shall be analyzed and mercury emissions shall be determined within 30 days after the stack test. Each determination shall be reported to the Administrator by a registered letter dispatched within 15 calendar days following the date such determination is completed.

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

**# 010 [25 Pa. Code §124.3]****Adoption of standards**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 61.54.]

(a). As an alternative means for demonstrating compliance with 40 C.F.R. § 61.52(b), an owner or operator may use U.S. EPA Method 105 of 40 C.F.R. § 61 Appendix B and the procedures specified in this condition.

(1). 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; or

(2). A sludge test shall be conducted 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 a sludge sampling test, so that he may at his option observe the test.

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

**SECTION D. Source Level Requirements**

(1). The sludge shall be sampled according to U.S. 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 U.S. EPA Method 105 in 40 C.F.R. § 61 Appendix B.

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

$$EHg = (M*Q*Fsm(avg))/1000$$

Where,

- EHg = Mercury Emissions [=] g/day.
- M = Mercury Concentration of Sludge on a Dry Solids Basis [=] ug/g.
- Q = Sludge Charging Rate [=] kg/day.
- Fsm = 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 the 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 to the Administrator, for a minimum of 2 years.

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

[Additional authority for this permit condition is also derived from 40 C.F.R. § 503.46.]

The sewage sludge fed to this sewage sludge incinerator shall be tested for arsenic, beryllium, cadmium, chromium, lead, and nickel once every 60 days (for a total of six tests per year).

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

(a). The permittee shall perform a stack test using the Department-approved procedures, at least every five (5) years or once within the life of the permit. Such testing shall be conducted at least 12 months prior to the expiration of this permit.

(b). At least sixty (60) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.

(c). The stack test shall, at a minimum, test for the emissions of nitrogen oxides, sulfur oxides, particulate matter, and the

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contaminants arsenic, beryllium, cadmium, chromium, lead, mercury, and nickel. The concentrations of arsenic, beryllium, cadmium, chromium, lead, mercury, nickel in the sewage sludge treated by this sewage sludge incinerator during this stack test shall be determined. The stack testing and the samples of sewage sludge fed to this incinerator shall be used to determine the control efficiencies for each contaminant. Tests shall be conducted in accordance with the provisions of U.S. EPA Methods 1, 2, 3, 4, 5, 7, 23, 29, 101A, 104, 105, the procedures of 40 C.F.R. § 503.43(e)(3), and 25 Pa. Code Chapter 139.

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

(e). Within sixty (60) days after the source test(s), two copies of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.15980.]

The permittee shall demonstrate initial compliance with the emission limits and standards of 40 CFR Part 62 Subpart LLL by using the performance test required in 40 CFR § 60.8. The permittee shall demonstrate that the SSI unit meets the emission limits and standards specified in Table 3 to 40 CFR Part 62 Subpart LLL for particulate matter, hydrogen chloride, carbon monoxide, dioxins/furans (total mass basis or toxic equivalency basis), mercury, nitrogen oxides, sulfur dioxide, cadmium, lead and fugitive emissions from ash handling using the performance test. The initial performance test must 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).

(a) The permittee shall demonstrate that the SSI unit meets the emission limits and standards specified in Table 3 to 40 CFR Part 62 Subpart LLL by the final compliance date of March 21, 2016.

(b) The permittee shall use the results from a performance test conducted within the 2 previous years that was conducted under the same conditions and demonstrated compliance with the emission limits and standards in Table 3 to 40 CFR Part 62 Subpart LLL, provided no process changes have been made since the performance test was conducted. However, the permittee shall continue to meet the operating limits established during the most recent performance test that demonstrated compliance with the emission limits and standards in Table 3 to Subpart LLL. The performance test must have used the test methods specified in Table 3 to Subpart LLL.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.16015.]

The permittee shall conduct all performance tests in accordance with the following:

(a) 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.

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

(1) 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.

(2) 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.

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(c) All performance tests must 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.

(d) Method 1 at 40 CFR Part 60, Appendix A must be used to select the sampling location and number of traverse points.

(e) Method 3A or 3B at 40 CFR Part 60, Appendix A-2 must be used for gas composition analysis, including measurement of oxygen concentration. Method 3A or 3B at 40 CFR Part 60, Appendix A-2 must be used simultaneously with each method.

(f) All pollutant concentrations must 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.

(g) Performance tests must 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.

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

(2) Approves the use of an equivalent method.

(3) 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.

(4) 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.

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

(h) 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.

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

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

(i) 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.

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

(2) Safe sampling platform(s).

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

(4) Utilities for sampling and testing equipment.

(j) Unless otherwise specified in this subpart, each performance test must consist of three separate runs using the

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applicable test method. Each run must be conducted for the time and under the conditions specified in the applicable standard. Compliance with each emission limit must 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 must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the permittee's control, compliance may, upon the Administrator's approval, be determined using the arithmetic mean of the results of the two other runs.

(k) 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 the maximum permitted capacity.

Pursuant to 40 CFR § 62.16015(a)(11), the permittee shall stack test at either 85 % of their sewage sludge feed rate calculated in Condition #008, paragraph 1(b), but shall not exceed the maximum permitted capacity of 1,150 pounds of sewage sludge per hour.

Pursuant to 40 CFR § 62.16045, sewage sludge feed rate is defined as the rate at which sewage sludge is fed into the incinerator unit.

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

[Additional authority for this permit condition is also derived from the requirements of Table 3 of 40 CFR Part 62 Subpart LLL.]

The permittee shall use the averaging methods and minimum sampling volumes or durations as follows and determine compliance using the following methods:

(a) Particulate Matter: 3-run average (collect a minimum volume of 0.75 dry standard cubic meters per run); Performance test (Method 5 at 40 CFR Part 60, Appendix A-3; Method 26A or Method 29 at 40 CFR Part 60, Appendix A-8).

(b) Hydrogen Chloride: 3-run average (For Method 26, collect a minimum volume of 200 liters per run. For Method 26A, collect a minimum volume of 1 dry standard cubic meters per run); Performance test (Method 26 or 26A at 40 CFR Part 60, Appendix A-8).

(c) Carbon Monoxide: 3-run average (collect sample for a minimum duration of one hour per run); Performance test (Method 10, 10A, or 10B at 40 CFR Part 60, Appendix A-4).

(d)(1) Dioxins/furans (total mass basis): 3-run average (collect a minimum volume of 1 dry standard cubic meters per run); Performance test (Method 23 at 40 CFR Part 60, Appendix A-7); OR

(d)(2) Dioxins/furans (toxic equivalency basis): 3-run average (collect a minimum volume of 1 dry standard cubic meters per run); Performance test (Method 23 at 40 CFR Part 60, Appendix A-7).

(e) Mercury: 3-run average (For Method 29 and ASTM D6784-02, collect a minimum volume of 1 dry standard cubic meters per run. For Method 30B, collect a minimum sample as specified in Method 30B at 40 CFR Part 60, Appendix A-8); Performance test (Method 29 at 40 CFR Part 60, Appendix A-8; Method 30B at 40 CFR Part 60, Appendix A-8; or ASTM D6784-02).

(f) Oxides of Nitrogen: 3-run average (Collect sample for a minimum duration of one hour per run); Performance test (Method 7 or 7E at 40 CFR Part 60, Appendix A-4).

(g) Sulfur dioxide: 3-run average (For Method 6, collect a minimum volume of 200 liters per run. For Method 6C, collect sample for a minimum duration of one hour per run); Performance test (Method 6 or 6C at 40 CFR Part 40, Appendix A-4; or ANSI/ASME PTC 19.10-1981

(h) Cadmium: 3-run average (collect a minimum volume of 1 dry standard cubic meters per run); Performance test (Method 29 at 40 CFR Part 60, Appendix A-8).

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(i) Lead: 3-run average (collect a minimum volume of 1 dry standard cubic meters per run); Performance test (Method 29 at 40 CFR Part 60, Appendix A-8.

(j) Fugitive Emissions from Ash Handling: Three 1-hour observation periods; Visible emission test (Method 22 of Appendix A-7 of 40 CFR Part 62 Subpart LLL).

**III. MONITORING REQUIREMENTS.**

**# 016 [25 Pa. Code §124.3]**

**Adoption of standards**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 61.55.]

Wastewater treatment plant sludge incineration and drying plants. All the sources for which mercury emissions exceed 1,600 grams per 24-hour period, demonstrated either by stack sampling according to 40 C.F.R. § 61.53 or sludge sampling according to 40 C.F.R. § 61.54, shall monitor mercury emissions at intervals of at least once per year by use of U.S. EPA Method 105 of 40 C.F.R. § 61 Appendix B or the procedures specified in 40 C.F.R. § 61.53(d)(2) and (4). The results of monitoring shall be reported and retained according to 40 C.F.R. § 61.53(d)(5) and (6) or § 61.54(f) and (g).

**# 017 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 503.40(c)(1) and 503.46(b).]

The permittee shall monitor the following parameters on a continuous basis when the sewage sludge incinerator is in operation:

- (a). Carbon monoxide concentration of the exit gas from the sewage sludge incinerator.
- (b). Oxygen concentration of the exit gas from the sewage sludge incinerator.
- (c). Information used to measure moisture content in the exit gas from the sewage sludge incinerator.
- (d). The combustion temperatures for the sewage sludge incinerator.

**# 018 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall monitor the following for this sewage sludge incinerator on a daily basis with this source is in operation:

- (a). The amount of sludge processed by this sewage sludge incinerator.
- (b). The number of hours that this sewage sludge incinerator operated.

**IV. RECORDKEEPING REQUIREMENTS.**

**# 019 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 503.40(c)(3).]

The permittee shall keep records of the following information for a period of five (5) years:

- (a). The carbon monoxide concentration in the exit gas; and
- (b). A calibration and maintenance log for the instruments used to measure the carbon monoxide concentration in the exit gas, the oxygen concentration in the exit gas, the moisture content of the exit gas, and the combustion temperature(s).

**# 020 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 503.40(c)(1) and 503.47(b).]

**SECTION D. Source Level Requirements**

The permittee shall keep records of the following parameters on a continuous basis when the sewage sludge incinerator is in operation:

- (a). Carbon monoxide concentration of the exit gas from the sewage sludge incinerator.
- (b). Oxygen concentration of the exit gas from the sewage sludge incinerator.
- (c). Information used to measure moisture content in the exit gas from the sewage sludge incinerator.
- (d). The combustion temperatures for the sewage sludge incinerator.

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

[Additional authority for this permit condition is also derived from 40 C.F.R. § 503.47(b).]

The permittee shall keep records from each test result used for determining concentrations of arsenic, beryllium, cadmium, chromium, lead, and nickel in the sewage sludge fed to this sewage sludge incinerator.

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

- (a). The permittee shall keep records of the following for this sewage sludge incinerator on a daily basis with this source is in operation:
- (1). The amount of sludge processed by this sewage sludge incinerator.
  - (2). The number of hours that this sewage sludge incinerator operated.
- (b). The permittee shall calculate and record the total number of hours of operation for this source on a monthly and a 12-month rolling sum basis.
- (c). The permittee shall calculate and record the total emissions of nitrogen oxides, particulate matter, carbon monoxide, volatile organic compounds, and sulfur dioxide on a monthly and a 12-month rolling sum basis.
- (d). The permittee shall calculate and record the total amount of arsenic, beryllium, cadmium, chromium, lead, mercury, and nickel that was processed by this sewage sludge incinerator on a monthly and a 12-month rolling sum basis.

**# 023 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The control efficiencies for arsenic, beryllium, cadmium, chromium, lead, mercury, and nickel as determined through stack testing and calculations for allowable concentrations of these contaminants in the sewage sludge fed to this sewage sludge incinerator shall be kept on file and made available to the Department upon request.

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

The permittee shall keep records of all training that is provided to operating personnel for this sewage sludge incinerator, including, but not limited to, the number of training hours for each person operating this sewage sludge incinerator.

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

The permittee shall keep records of all inspections and/or maintenance that is performed on this sewage sludge incinerator.

**SECTION D. Source Level Requirements****# 026 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 CFR § 62.15900.]

The permittee shall maintain an onsite copy of the final control plan.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.15945.]

The permittee shall record the period when a qualified operator was not at the facility, cannot be at the facility within 1 hour, and was not accessible at any time.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.15950.]

The permittee shall maintain at the facility the documentation of the operator training procedures and make the documentation readily accessible to all SSI unit operators.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.15960(f) and § 62.16025(f)(3)(ii).]

(a) The permittee shall keep a record of the daily average feed rate to the sewage sludge incinerator.

(b) The permittee shall keep a record of the daily average moisture content of the sewage sludge fed to the sewage sludge incinerator.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.16025.]

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 must 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 this Subpart LLL.

(vi) Monitoring procedures for demonstrating compliance with the incinerator operating limits.

(vii) Reporting and recordkeeping procedures.

**SECTION D. Source Level Requirements**

(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 40 CFR § 62.15940. Records must 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.

(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 the 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 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 Subpart LLL for sulfur dioxide or hydrogen chloride.

**SECTION D. Source Level Requirements**

- (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).
- (iii) For other control devices for which the permittee must establish operating limits under 40 CFR § 62.15965, the permittee shall maintain data collected for all operating parameters used to determine compliance with the operating limits, at the frequencies specified in the monitoring plan.
- (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.
  - (3) If activated carbon injection is used to comply with the rule, the type of sorbent used and any changes in the type of sorbent used.
- (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 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 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.****# 031 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 CFR § 62.15885.]

The notification of achievement of compliance must include the following three items:

- (a) Notification that the final control plan has been submitted and final compliance has been achieved;
- (b) Any items required to be submitted with the final control plan and final compliance; and
- (c) Signature of the owner or operator of the SSI unit.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.15900.]

For the control plan, the permittee shall satisfy the following two requirements:

- (a) Submit the final control plan to the EPA regional office and permitting authority or delegated authority that includes the

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four items described in paragraphs (a)(1) through (4) of this condition:

- (1) A description of the devices for air pollution control and process changes that will be used to comply with the emission limits and standards and other requirements of 40 CFR Part 62 Subpart LLL;
- (2) The type(s) of waste to be burned, if waste other than sewage sludge is burned in the unit;
- (3) The maximum design sewage sludge burning capacity; and
- (4) If applicable, the petition for site-specific operating limits under 40 CFR § 62.15965.

(b) Maintain an onsite copy of the final control plan.

**# 033 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 CFR § 62.16030.]

The permittee shall submit the reports to the Administrator specified in paragraphs (a) through (i) of this condition.

(a) Final control plan and final compliance report. The permittee shall submit the following reports, as applicable:

- (1) A final control plan as specified in 40 CFR §§ 62.15875 and 62.15900.
- (2) The permittee shall submit the notification of achievement of submitting the final control plan and achieving final compliance no later than 10 business days after the compliance date as specified in 40 CFR §§ 62.15885 and 62.15890.
- (3) If the permittee fails to submit the final control plan and achieve final compliance, the permittee shall submit a notification to the Administrator postmarked within 10 business days after the compliance date of March 21, 2016.
- (4) If the permittee plans to close the SSI unit rather than comply with the federal plan, submit a closure notification as specified in 40 CFR § 62.15915.

(b) Initial compliance report. The permittee shall submit the following information no later than 60 days following the initial performance test.

- (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.
- (4) The complete test report for the initial performance test results obtained by using the test methods specified in Table 3 to 40 CFR Part 62 Subpart LLL.
- (5) If an initial performance evaluation of a continuous monitoring system was conducted, the results of that initial performance evaluation.
- (6) The values for the site-specific operating limits established pursuant to 40 CFR §§ 62.15960 and 62.15965 and the calculations and methods, as applicable, used to establish each operating limit.
- (7) The results of the initial air pollution control device inspection required in 40 CFR § 62.15990, including a description of repairs.
- (8) The site-specific monitoring plan required under 40 CFR § 62.15995, at least 60 days before the initial performance evaluation of the continuous monitoring system.
- (9) The site-specific monitoring plan for the ash handling system required under 40 CFR § 62.15995, at least 60 days before the initial performance test to demonstrate compliance with the fugitive ash emission limit.

(c) Annual compliance report. The permittee shall submit an annual compliance report that includes the items listed in paragraphs (c)(1) through (16) of this condition for the reporting period specified in paragraph (c)(3) of this section. The permittee shall submit the first annual compliance report no later than 12 months following the submission of the initial compliance report in paragraph (b) of this condition. The permittee shall submit subsequent annual compliance reports no more than 12 months following the previous annual compliance report.

- (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

**SECTION D. Source Level Requirements**

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.

(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 the 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 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 no revisions were made to the site-specific monitoring plan during the reporting period. If revisions were made 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 must 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 must 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.

(d) 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 Subpart LLL is above the maximum operating limit or below the minimum operating limit established under 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 Subpart LLL.

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

(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 must 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 collected during the second half of the calendar year (July 1 to December 31).

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- (3) For each deviation where a continuous monitoring system is used to comply with an associated emission limit or operating limit, report the items described in paragraphs (d)(3)(i) through (viii) of this section.
- (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 the corrective actions.
    - (B) Bypass events and the 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, the permittee shall 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 was not using a continuous monitoring system to comply with the associated emission limit or operating limit, report the following items:
- (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.
- (4) For each deviation where the permittee was not using a continuous monitoring system to comply with the associated emission limit or operating limit, report the following items:
- (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 the corrective actions.
    - (B) Bypass events and the corrective actions.

**SECTION D. Source Level Requirements**

(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 (d)(1)(vii) of this condition, including a description of actions taken during the malfunction to minimize emissions in accordance with 40 CFR § 60.11(d) and to correct the malfunction.

(e) 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 (e)(1)(i) and (ii) of this condition.

(i) Submit a notification of the deviation within 10 days that includes the three items in paragraphs (e)(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 the permittee anticipates 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 (e)(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 the permittee anticipates that a qualified operator will be accessible.

(C) Request for approval from the Administrator to continue operation of the SSI unit.

(2) If the SSI 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 resumes operation.

(f) 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.

(g) Other notifications and reports required. 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 this subpart, 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 (g)(2) of this condition.

(h) Report submission form.

(1) Submit initial, 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 (i) and (ii) below.

(i) Within 60 days after the date of completing each performance test 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 (A) or (B) of this condition.

**SECTION D. Source Level Requirements**

(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 must 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 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.

(B) For data collected using test methods that are not supported by the EPA's ERT as listed on the EPA's ERT website, the permittee shall 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 submit the results of the performance evaluation according to the method specified by either paragraph (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 website, 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.

(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 website, 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.

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

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). Training from the manufacturer of the incinerator, or
- (b). A minimum of 160 hours of training from a previously certified operator and a minimum of 6 months sewage sludge incinerator operation experience.

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

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 503.40(c)(2) and 503.45.]

**SECTION D. Source Level Requirements****Management Practices for the Sewage Sludge Incinerator**

- (a). An instrument that measures and records the carbon monoxide concentration in the sewage sludge incinerator stack exit gas continuously shall be installed, calibrated, and maintained for this sewage sludge incinerator.
- (b). An instrument that measures and records oxygen concentration in the sewage sludge incinerator stack exit gas continuously shall be installed, calibrated, operated, and maintained for this source, as specified by the permitting authority.
- (c). An instrument that measures and records information used to determine the moisture content in the sewage sludge incinerator stack exit gas continuously shall be installed, calibrated, operated, and maintained for this source, as specified by the permitting authority.
- (d). An instrument that measures and records combustion temperatures continuously shall be installed, calibrated, operated, and maintained for this source, as specified by the permitting authority.
- (e). Operation of the sewage sludge incinerator shall not cause the operating combustion temperature for the sewage sludge incinerator to exceed the performance test combustion temperature by more than 20 percent.
- (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.

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

The instruments used to measure carbon monoxide concentration, oxygen concentration, and moisture content of the exit gas from this sewage sludge incinerator and the combustion zone temperature of the sewage sludge incinerator shall be calibrated and maintained in accordance with the manufacturers' specifications.

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

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

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.16000.]

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 fugitive emissions from ash handling.

(a) Demonstrate continuous compliance using a performance test: Except as provided in paragraphs (a)(3) and (d) 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 must 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 may 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.

**SECTION D. Source Level Requirements**

(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 can conduct performance tests less often if the performance tests for the pollutant for at least 2 consecutive years show that emissions are at or below 75-percent of the emission limit specified in Table 3, 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 must 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.

(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.

**SECTION D. Source Level Requirements**

- (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 and Procedure 5 of Appendix F of Part 60.
- (4) Except as provided in paragraph (d) 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 must 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 section, 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 this Subpart.(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.
- (c) If the permittee demonstrates continuous compliance using a performance test, as specified in paragraph (a) of this condition, then the provisions of this paragraph (d) 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 the permittee in writing of approval or disapproval of the request for an extension as soon as practicable. Until an extension of the performance test deadline has been approved by the Administrator, the permittee remain strictly subject to the requirements of 40 CFR Part 62 Subpart LLL.
- (d) After any initial requests in 40 CFR § 62.15995 for alternative monitoring requirements for initial compliance, the permittee may subsequently petition the Administrator for alternative monitoring parameters as specified in 40 CFR §§ 60.13(i) and 62.15995(e).

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.16015(c).]

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

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

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.15905.]

For achieving final compliance with the requirements of 40 CFR Part 62 Subpart LLL, the permittee shall complete all

**SECTION D. Source Level Requirements**

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.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.15920.]

(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, the permittee shall 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:

- (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.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.15935.]

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
- (e) Discussion of operating problems encountered by attendees.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.15925.]

The operator training course must be completed by the later of the following dates:

**SECTION D. Source Level Requirements**

- (a) The final compliance date of March 21, 2016;
- (b) Six months after 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.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.15930.]

(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).

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.15940.]

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 this condition:

(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.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.15945.]

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 40 CFR § 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 the permittee is doing to ensure that a qualified operator is accessible, and when a qualified operator will be accessible is anticipated; and

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

(i) If the Administrator notifies the permittee that the 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

**SECTION D. Source Level Requirements**

permittee shall notify the Administrator within 5 days of having resumed operations and of having a qualified operator accessible.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.15950.]

The permittee shall establish a program for reviewing the information contained in the incinerator operator training course as 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 following schedule:

(a) The initial review of the information contained in the incinerator operator training course as listed in 40 CFR § 62.15920(c)(1) must be conducted within six (6) months after the effective date of 40 CFR Part 62 Subpart LLL or prior to an employee's assumption of responsibilities for operation of the SSI unit, whichever date is later.

(b) Subsequent annual reviews of the information contained in the incinerator operator training course as listed in 40 CFR § 62.15920(c)(1) must be conducted no later than 12 months following the previous review.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.15960(d).]

The permittee shall meet the operating requirements in the site-specific fugitive emission monitoring plan to ensure that the ash handling system will meet the emission standard for fugitive emissions from ash handling.

The permittee shall meet the operating limits and requirements specified in the site-specific fugitive emission monitoring plan by the final compliance date of March 21, 2016.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.15970.]

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

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.15990, § 62.16015(c), and § 62.16010.]

(a) By March 21, 2016, and annually thereafter, the permittee shall conduct an air pollution control device inspection that includes the following, at a minimum:

- (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.

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

(c) The annual inspection shall be no later than 12 months following the previous annual air pollution control device

**SECTION D. Source Level Requirements**

inspection.

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.15960.]

(a) The permittee shall meet, as applicable, the operating limits and requirements specified 40 CFR § 62.15960(a), (b) and (d) by March 21, 2016.

(b) 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).

(c) The permittee shall meet any new operating limits and requirements re-established as applicable, in accordance with 40 CFR § 62.16005(d)

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

[Additional authority for this permit condition is also derived from 40 CFR § 62.15985.]

(a) The permittee shall establish the site-specific operating limits specified as follows during the initial performance tests:

(1) 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.

(2) 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.

(3) 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.

(4) Minimum afterburner temperature equal to the lowest 4-hour average afterburner temperature measured during the most recent performance test demonstrating compliance with all applicable emission limits.

(b) The permittee shall confirm these operating limits or re-establish new operating limits using operating data recorded during any performance tests or performance evaluations as applicable.

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

(a) Exhaust gases from this source shall be controlled by all three control devices (venturi scrubber, impingement scrubber, and Von Roll Afterburner) at all times the source is in operation.

(b) If a malfunction of any of the equipment or control devices should occur, the permittee shall terminate sludge feed and shut down the incinerator.

**VII. ADDITIONAL REQUIREMENTS.****# 054 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 CFR § 62.15995(e).]

The permittee may submit an application to the Administrator for approval of alternate monitoring requirements to

**SECTION D. Source Level Requirements**

demonstrate compliance with the standards of 40 CFR Part 62 Subpart LLL, subject to the provisions of paragraphs (a) through (f) of this condition.

(a) The Administrator will not approve averaging periods other than those specified in this section, unless the permittee documents, using data or information, that the longer averaging period will ensure that emissions do not exceed levels achieved over the duration of three performance test runs.

(b) If the application to use an alternate monitoring requirement is approved, the permittee shall continue to use the original monitoring requirement until approval is received to use another monitoring requirement.

(c) The permittee shall submit the application for approval of alternate monitoring requirements no later than the notification of performance test. The application must contain the information specified in paragraphs (c)(1) through (3) of this condition:

(1) Data or information justifying the request, such as the technical or economic infeasibility, or the impracticality of using the required approach.

(2) A description of the proposed alternative monitoring requirement, including the operating parameter to be monitored, the monitoring approach and technique, the averaging period for the limit, and how the limit is to be calculated.

(3) Data or information documenting that the alternative monitoring requirement would provide equivalent or better assurance of compliance with the relevant emission standard.

(d) The Administrator will notify the permittee of the approval or denial of the application within 90 calendar days after receipt of the original request, or within 60 calendar days of the receipt of any supplementary information, whichever is later. The Administrator will not approve an alternate monitoring application unless it would provide equivalent or better assurance of compliance with the relevant emission standard. Before disapproving any alternate monitoring application, the Administrator will provide the following:

(1) Notice of the information and findings upon which the intended disapproval is based.

(2) Notice of opportunity for the permittee to present additional supporting information before final action is taken on the application. This notice will specify how much additional time is allowed for the permittee to provide additional supporting information.

(e) The permittee is responsible for submitting any supporting information in a timely manner to enable the Administrator to consider the application prior to the performance test. Neither submittal of an application, nor the Administrator's failure to approve or disapprove the application relieves the permittee of the responsibility to comply with any provision of Subpart LLL.

(f) The Administrator may decide at any time, on a case-by-case basis, that additional or alternative operating limits, or alternative approaches to establishing operating limits, are necessary to demonstrate compliance with the emission standards of Subpart LLL. Use of a 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 of 40 CFR Part 62 Subpart LLL. The use of a bypass stack during a performance test invalidates the performance test.

**# 055 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 CFR § 62.16020(d).]

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.

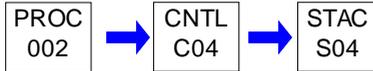
**\*\*\* Permit Shield in Effect. \*\*\***

**SECTION D. Source Level Requirements**

Source ID: 002

Source Name: DEWATERING PRESS

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The source and scrubber shall be operated and maintained in a manner that the emissions of Hydrogen Sulfide (H<sub>2</sub>S) from the stack of the scrubber shall not exceed 0.13 ppmv as demonstrated through the latest stack test performed on this odor scrubber (C04). Maintaining the operating parameters determined by the latest stack test and permitted for this source demonstrates compliance with this H<sub>2</sub>S limit in this operating permit.

**Throughput Restriction(s).**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall maintain the operating flow rate of scrubbing solution of greater than or equal to 300 gallons per minute (based upon the pump manufacture's specifications) to the scrubber associated with this source.

**Control Device Efficiency Restriction(s).**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

- The permittee shall maintain an operating pressure drop between 0.75 and 3.0 inches water gauge across the scrubber associated with this source.
- The permittee shall maintain the pH value greater than 8.4 for the neutralizing solution across the scrubber.
- The permittee shall maintain a minimum oxidation-reduction potential (ORP) of 650 mV for the scrubbing solution.

DEP reserves the right to modify these parameters based on stack test results.

**II. TESTING REQUIREMENTS.**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

- The permittee shall perform a stack test using the Department-approved procedures, at least every five (5) years since the last test. Such testing shall be conducted at least 12 months prior to the expiration of this permit. The stack test results shall be submitted for review no later than 6 months before the permit expiration.
- At least ninety (90) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.
- The stack test shall, at a minimum, test for hydrogen sulfide emissions. Tests shall be conducted in accordance with the provisions of U.S. EPA Methods 11 and 16 and 25 Pa. Code Chapter 139.
- At least thirty (30) days prior to the test, the Regional Air Quality Manager, shall be informed of the date and time of the test.
- Within sixty (60) days after the source test(s), two copies of the complete test report, including all operating conditions,

**SECTION D. Source Level Requirements**

shall be submitted to the Regional Air Quality Manager for approval.

f) In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in writing and include a justification for the extension. The Department may grant an extension for a reasonable cause.

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

The permittee shall monitor the following parameters for the source and the scrubber on a daily basis when this source is in operation:

- (a). Pressure drop across the scrubber
- (b). Hours of Operation
- (c). pH across the scrubber
- (d). Oxidation Reduction Potential (ORP)
- (e). Recirculation pump indicator on/off is determined by pump discharge pressure.

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

(a). The permittee shall maintain daily records of the following parameters for the source and the scrubber when this source is in operation:

- (1). Pressure drop across the scrubber
- (2). Odor Neutralizer (sodium hypochlorite) injection rate
- (3). Hours of Operation
- (4). pH across the scrubber
- (5) Oxidation Reduction Potential (ORP)

(b). The permittee shall maintain records of any inspections or maintenance performed on the scrubber; deficiencies and corrective actions shall be noted.

(c). The permittee shall maintain all records necessary to demonstrate compliance with the H<sub>2</sub>S emission limit.

**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.**

(a). The permittee shall maintain and operate this source in accordance with manufacturer's specifications and in accordance with good air pollution control practices.

(b). The emissions of Hydrogen Sulfide (H<sub>2</sub>S), from the source shall be controlled by the scrubber system at all times and shall not be bypassed.

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

**SECTION D. Source Level Requirements**

The permittee shall operate and maintain the following equipment for this source:

- (a). ORP meter to measure oxidation/reduction in scrubber sumps.
- (b). pH meter to measure the pH of the solution.

Source consists of one Screw press (Mfg. Schwing Bioset, model FSP-703) and one Belt Filter Press (backup to screwpress). Only one press operates at a time. Emissions from this source are controlled by a Monroe scrubber (C04), Model PT-13000.

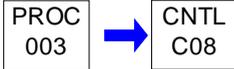
**\*\*\* Permit Shield in Effect. \*\*\***

**SECTION D. Source Level Requirements**

Source ID: 003

Source Name: TWO SLUDGE HOLDING TANKS

Source Capacity/Throughput:

**I. RESTRICTIONS.**

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

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor pressure to verify blower operation on a daily basis.

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

The permittee shall maintain daily records of the blower operation. The facility will record any times when one of the two retrofitted second-stage aeration basins is empty and document that the air is discharged to the non-empty basin during that time.

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

The permittee shall maintain and operate this source in accordance with manufacture's specifications and in accordance with good air control practice.

**VII. ADDITIONAL REQUIREMENTS.****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Control device (C08) consists of two (2) retrofitted second-stage aeration basins (e.g., #6 and #7).

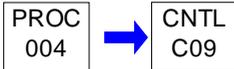
**\*\*\* Permit Shield in Effect. \*\*\***

**SECTION D. Source Level Requirements**

Source ID: 004

Source Name: SLUDGE HOLDING PITS 1 &amp; 3

Source Capacity/Throughput:

**I. RESTRICTIONS.**

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

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall confirm daily that the blower is operational.

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

The facility shall record any times when one of two retrofitted third-stage aeration basins (#8 or #10) is empty and document that the air is discharged to the non-empty basin during that time.

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

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

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

Control device (C09) consists of two (2) retrofitted third-stage aeration basins (e.g., #8 and #10).

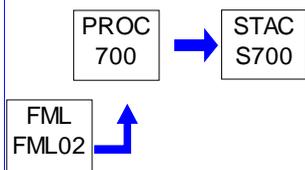
**\*\*\* Permit Shield in Effect. \*\*\***

**SECTION D. Source Level Requirements**

Source ID: 700

Source Name: 2000 KW GENERATOR

Source Capacity/Throughput: 137.900 Gal/HR Diesel Fuel

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §122.3]****Adoption of standards.**

[Additional authority for this condition is also derived from 40 C.F.R. §§ 60.4202(a)(2), 60.4205(b), and 89.112(d).]

The Family Emission Limits (FELs) for this manufacturer's certified Tier 2 stationary compression ignition internal combustion engine (CI ICE) shall be the following:

- (a). Nitrogen Oxides = 6.4 g/bhp-hr.
- (b). Carbon Monoxide = 3.5 g/kW-hr (2.61 g/bhp-hr).
- (c). Particulate Matter = 0.2 g/bhp-hr.

**# 002 [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).

**# 003 [25 Pa. Code §123.21]****General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides from this source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas exceeds 500 ppmvd.

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

The permittee shall:

- a. for emergency use, limit the emissions of nitrogen oxides from this source to less than 100 pounds per hour, 1,000 pounds per day and 6.6 tons per year on a 12-month rolling sum basis.
- b. for non emergency (demand) use, limit the emissions of nitrogen oxides from this source to less than 6.38 tons per year on a 12-month rolling sum basis.

**Fuel Restriction(s).****# 005 [25 Pa. Code §122.3]****Adoption of standards.**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 60.4207.]

Beginning October 1, 2010, owners and operators of stationary compression ignition internal combustion engines that use diesel fuel must use diesel fuel that meets the following per-gallon requirements of 40. C.F.R. § 80.510(b).

**SECTION D. Source Level Requirements**

- (1). Sulfur Content = 15 parts per million (ppm) maximum.
- (2). Cetane Index or aromatic content, as follows:
  - (i). A minimum cetane index of 40; or
  - (ii). A maximum aromatic content of 35 volume percent.

(c). Owners and operators of pre-2011 model year stationary compression ignition internal combustion engines may petition the Administrator for approval to use remaining non-compliant fuel that does not meet the fuel requirements in paragraphs (a) and (b) beyond the dates required for the purpose of using up existing fuel inventories. If approved, the petition will be valid for a period of up to six (6) months. If additional time is needed, the owner or operator is required to submit a new petition to the Administrator.

**Operation Hours Restriction(s).****# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall limit the hours during nonemergency (demand) use to 1220 hours per year on a 12-month rolling sum basis and not exceed 50% load.

**II. TESTING REQUIREMENTS.****# 007 [25 Pa. Code §122.3]****Adoption of standards.**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 60.4212.]

Owners and operators of stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests pursuant to 40 C.F.R. Part 60 Subpart IIII must do so according to the following:

Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 C.F.R. § 89.112 or 40 C.F.R. § 94.8, as applicable, must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 C.F.R. § 89.112 or 40 C.F.R. § 94.8, as applicable, determined from the following equation:

$$\text{NTE Requirement for Each Pollutant} = (1.25) * (\text{STD})$$

Where:

STD = The standard specified for that pollutant in 40 C.F.R. § 89.112 or 40 C.F.R. § 94.8, as applicable.

Alternatively, stationary CI ICE that are complying with the emission standards for new CI engines in 40 C.F.R. § 89.112 or 40 C.F.R. § 94.8 may follow the testing procedures specified in §60.4213 of 40 C.F.R. Part 60 Subpart IIII, as appropriate.

**# 008 [25 Pa. Code §122.3]****Adoption of standards.**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 60.4213.]

Alternative test methods and other procedures for stationary IC ICE with a displacement of less than 30 liters per cylinder that are complying with the emission standards for new CI engines in 40 C.F.R. 89.112 or 40 C.F.R. 94.8.

(a). Each performance test must be conducted according to the requirements in 40 C.F.R. § 60.8 and under the specific conditions that is specified in Table 7 of 40 C.F.R. Part 60 Subpart IIII. The test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load.

(b). The owner or operator may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in 40 C.F.R. § 60.8(c).

**SECTION D. Source Level Requirements**

(c). The owner or operator must conduct three separate test runs for each performance test required in this section, as specified in 40 C.F.R. § 60.8(f). Each test run must last at least 1 hour.

(d). To determine compliance with the percent reduction requirement, you must follow the requirements as specified in paragraphs (d)(1) through (3) of this section.

(1). You must use the following equation to determine compliance with the percent reduction requirement:

$$R = 100 \cdot (C_i - C_o) / C_i$$

Where:

$C_i$  = concentration of NO<sub>x</sub> or PM at the control device inlet,  
 $C_o$  = concentration of NO<sub>x</sub> or PM at the control device outlet, and  
 R = percent reduction of NO<sub>x</sub> or PM emissions.

(2). You must normalize the NO<sub>x</sub> or PM concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen (O<sub>2</sub>) using the following equation, or an equivalent percent carbon dioxide (CO<sub>2</sub>) using the procedures described in paragraph (d)(3) of this section.

$$C_{adj} = (5.9 \cdot C_d) / (20.9 - \%O_2)$$

Where:

$C_{adj}$  = Calculated NO<sub>x</sub> or PM concentration adjusted to 15 percent O<sub>2</sub>.  
 $C_d$  = Measured concentration of NO<sub>x</sub> or PM, uncorrected.  
 5.9 = 20.9 percent O<sub>2</sub>-15 percent O<sub>2</sub>, the defined O<sub>2</sub> correction value, percent.  
 $\%O_2$  = Measured O<sub>2</sub> concentration, dry basis, percent.

(3). If pollutant concentrations are to be corrected to 15 percent O<sub>2</sub> and CO<sub>2</sub> concentration is measured in lieu of O<sub>2</sub> concentration measurement, a CO<sub>2</sub> correction factor is needed. Calculate the CO<sub>2</sub> correction factor as described in paragraphs (d)(3)(i) through (iii) of this section.

(i). Calculate the fuel-specific  $F_o$  value for the fuel burned during the test using values obtained from Method 19, Section 5.2, and the following equation:

$$F_o = (0.209 \cdot F_d) / F_c$$

Where:

$F_o$  = Fuel factor based on the ratio of O<sub>2</sub> volume to the ultimate CO<sub>2</sub> volume produced by the fuel at zero percent excess air.  
 0.209 = Fraction of air that is O<sub>2</sub>, percent/100.  
 $F_d$  = Ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19, dscm / J (dscf/10e(6) Btu).  
 $F_c$  = Ratio of the volume of CO<sub>2</sub> produced to the gross calorific value of the fuel from Method 19, dscm / J (dscf/10e(6) Btu).

(ii). Calculate the CO<sub>2</sub> correction factor for correcting measurement data to 15 percent O<sub>2</sub>, as follows:

$$X_{CO_2} = 5.9 / (F_o)$$

Where:

$X_{CO_2}$  = CO<sub>2</sub> correction factor, percent.  
 5.9 = 20.9 percent O<sub>2</sub>-15 percent O<sub>2</sub>, the defined O<sub>2</sub> correction value, percent.

**SECTION D. Source Level Requirements**

(iii). Calculate the NO<sub>x</sub> and PM gas concentrations adjusted to 15 percent O<sub>2</sub> using CO<sub>2</sub> as follows:

$$C_{adj} = C_d * (X_{CO_2} / (\%CO_2))$$

Where:

C<sub>adj</sub>= Calculated NO<sub>x</sub> or PM concentration adjusted to 15 percent O<sub>2</sub>.

C<sub>d</sub>= Measured concentration of NO<sub>x</sub> or PM, uncorrected.

%CO<sub>2</sub>= Measured CO<sub>2</sub> concentration, dry basis, percent.

(e). To determine compliance with the NO<sub>x</sub> mass per unit output emission limitation, convert the concentration of NO<sub>x</sub> in the engine exhaust using the following equation:

$$ER = (C_d * (1.912e(-3)) * Q * T) / (KW-hr)$$

Where:

ER = Emission rate in grams per KW-hour.

C<sub>d</sub> = Measured NO<sub>x</sub> concentration in ppm.

1.912e(-3) = Conversion constant for ppm NO<sub>x</sub> to grams per standard cubic meter at 25 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meter per hour.

T = Time of test run, in hours.

KW-hour = Brake work of the engine, in KW-hour.

(f). To determine compliance with the PM mass per unit output emission limitation, convert the concentration of PM in the engine exhaust using the following equation:

$$ER = (C_{adj} * Q * T) / (KW-hr)$$

Where:

ER = Emission rate in grams per KW-hour.

C<sub>adj</sub> = Calculated PM concentration in grams per standard cubic meter.

Q = Stack gas volumetric flow rate, in standard cubic meter per hour.

T = Time of test run, in hours.

KW-hour = Energy output of the engine, in KW

**III. MONITORING REQUIREMENTS.**

**# 009 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall monitor the following for this source:

(a). The date and time of start-up.

(b). The date and time of shutdown.

(c). The brake horsepower output of this emergency generator.

(d). The hours for each type of use (emergency, testing/maintenance, load test or nonemergency)

(e). The percent load.

**IV. RECORDKEEPING REQUIREMENTS.**

**# 010 [25 Pa. Code §122.3]**

**Adoption of standards.**

[Additional authority for this permit condition is also derived from 40. C.F.R. § 60.4211.]

**SECTION D. Source Level Requirements**

The owner and operator of this source shall demonstrate compliance with the emission standards from 40 C.F.R. § 60.4204(a) (Condition #001 for this source) using one of the following methods.

- (a). Purchasing an engine certified according to 40 C.F.R. Part 89 or 40 C.F.R. Part 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.
- (b). Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in 40 C.F.R. Part 60 Subpart IIII and these methods must have been followed correctly.
- (c). Keeping records of engine manufacturer data indicating compliance with the emission standards.
- (d). Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in 40 C.F.R. § 60.4212, as applicable.

**# 011 [25 Pa. Code §122.3]****Adoption of standards.**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 60.4214(b).]

If the stationary CI ICE is an emergency stationary ICE, the owner or operator is not required to submit an initial notification. If the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner or operator must record the time of operation of the engine and the reason the engine was in operation during the time.

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

- (a). The permittee shall keep records of the following for this source:
  - (1). The date and time of start-up.
  - (2). The date and time of shutdown.
  - (3). The brake horsepower output from this source.
- (b). The permittee shall calculate and record the total hours by type of operation for this source on a monthly and a 12-month rolling sum basis.
- (c). The permittee shall calculate and record the total emissions of nitrogen oxides on a monthly and 12-month rolling sum basis.

**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.****# 013 [25 Pa. Code §122.3]****Adoption of standards.**

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 60.4206 and 60.4211.]

- (a). Owners and operators of stationary compression ignition internal combustion engines must operate and maintain stationary compression ignition internal combustion engines that achieve the emission standards as required in 40 C.F.R.

**SECTION D. Source Level Requirements**

§ 60.4205 according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine.

(b). Owners and operators may only change those settings that are permitted by the manufacturer.

(c). The owner and operator must meet the requirements of 40. C.F.R. Parts 89, 94, and/or 1068, as they apply to this source.

**# 014 [25 Pa. Code §122.3]****Adoption of standards.**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 60.4209.]

The owner and operator shall install and maintain a non-resettable hour meter on this stationary compression ignition internal combustion engine.

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

Source 700 is a Cummins Engine, Model QSK60-G6 NR2, 2919 BHP, installed in 2008.

**# 016 [25 Pa. Code §129.203]****Stationary internal combustion engines.**

(a). The owner or operator of a stationary internal combustion engine rated at greater than 1,000 horsepower and located in Bucks, Chester, Delaware, Montgomery or Philadelphia County shall comply with 25 Pa. Code §§ 129.203 and 129.204 (relating to emission accountability). This section does not apply to naval marine combustion units operated by the United States Navy for the purposes of testing and operational training or to stationary internal combustion engines regulated under 25 Pa. Code Chapter 145, Subchapter B (relating to emissions of NOx from stationary internal combustion engines).

(b). By October 31 of each year, the owner or operator of the stationary internal combustion engine shall calculate the difference between the actual emissions from the unit during the period from May 1 through September 30 and the allowable emissions for that period.

(c). The owner or operator shall calculate allowable emissions by multiplying the cumulative hours of operations for the unit for the period by the horsepower rating of the unit and by the applicable emission rate set forth as follows:

For a compression ignition stationary internal combustion engine firing diesel fuel or a combination of diesel fuel and natural gas, 2.3 grams of NOx per brake horsepower-hour.

(d) Emissions from a stationary internal combustion engine that has been or is replaced by an electric motor may be counted as allowable emissions for purposes of 25 Pa. Code §§ 129.203 and 129.204, as follows:

For a replaced compression ignition stationary internal combustion engine that fired diesel fuel or a combination of diesel fuel and natural gas, 2.3 grams of NOx per brake horsepower-hour, less 1.5 pounds of NOx per MWH of electricity consumed by the replacement motor.

**# 017 [25 Pa. Code §129.204]****Emission accountability.**

(a). The owner or operator shall determine actual emissions in accordance with one of the following:

(1). If the owner or operator of the unit is required to monitor NOx emissions with a CEMS operated and maintained in accordance with a permit or State or Federal regulation, the CEMS data reported to the Department to comply with the monitoring and reporting requirements of this article shall be used. Any data invalidated under 25 Pa. Code Chapter 139 (relating to sampling and testing) shall be substituted with data calculated using the potential emission rate for the unit or, if

**SECTION D. Source Level Requirements**

approved by the Department in writing, an alternative amount of emissions that is more representative of actual emissions that occurred during the period of invalid data.

(2). If the owner or operator of the unit is not required to monitor NO<sub>x</sub> emissions with a CEMS, one of the following shall be used to determine actual emissions of NO<sub>x</sub>:

(i). The 1-year average emission rate calculated from the most recent permit emission limit compliance demonstration test data for NO<sub>x</sub>.

(ii). The maximum hourly allowable NO<sub>x</sub> emission rate contained in the permit or the higher of the following:

(A). The highest rate determined by use of the emission factor for the unit class contained in the most up-to-date version of the EPA publication, "AP-42 Compilation of Air Pollution Emission Factors."

(B). The highest rate determined by use of the emission factor for the unit class contained in the most up-to-date version of EPA's "Factor Information Retrieval (FIRE)" data system.

(iii). CEMS data, if the owner or operator elects to monitor NO<sub>x</sub> emissions with a CEMS. The owner or operator shall monitor emissions and report the data from the CEMS in accordance with 25 Pa. Code Chapter 139 or 25 Pa. Code Chapter 145 (relating to interstate pollution transport reduction). Any data invalidated under 25 Pa. Code Chapter 139 shall be substituted with data calculated using the potential emission rate for the unit or, if approved by the Department in writing, an alternative amount of emissions that is more representative of actual emissions that occurred during the period of invalid data.

(iv). An alternate calculation and recordkeeping procedure based upon emissions testing and correlations with operating parameters. The operator of the unit shall demonstrate that the alternate procedure does not underestimate actual emissions throughout the allowable range of operating conditions. In regard to obtaining the Department's approval for an alternate calculation method and recordkeeping procedure for actual emissions, the owner or operator may request an adjustment to the allowable emissions calculations set forth in 25 Pa. Code § 129.203. An allowable emission adjustment may not overestimate a unit's allowable emissions and must be based upon the parameters and procedures proposed in the alternate calculation method for actual emissions. The alternate calculation and recordkeeping procedures must be approved by the Department, in writing, prior to implementation.

(c). The owner or operator of a unit subject to this section shall surrender to the Department one CAIR NO<sub>x</sub> allowance and one CAIR NO<sub>x</sub> Ozone Season allowance, as defined in 40 C.F.R. §§ 96.102 and 96.302 (relating to definitions), for each ton of NO<sub>x</sub> by which the combined actual emissions exceed the allowable emissions of the units subject to this section at a facility from May 1 through September 30. The surrendered allowances shall be of current year vintage. For the purpose of determining the amount of allowances to surrender, any remaining fraction of a ton equal to or greater than 0.50 ton is deemed to equal 1 ton and any fraction of a ton less than 0.50 ton is deemed to equal zero tons.

(d). If the combined allowable emissions from units subject to 25 Pa. Code § 129.204 at a facility from May 1 through September 30 exceed the combined actual emissions from units subject to this section at the facility during the same period, the owner or operator may deduct the difference or any portion of the difference from the amount of actual emissions from units subject to 25 Pa. Code § 129.204 at the owner or operator's other facilities.

(e). By November 1 of each year, an owner or operator of a unit subject to 25 Pa. Code § 129.204 shall surrender the required NO<sub>x</sub> allowances to the Department's designated NO<sub>x</sub> allowance tracking system account and provide to the Department, in writing, the following:

(1). The serial number of each NO<sub>x</sub> allowance surrendered.

(2). The calculations used to determine the quantity of NO<sub>x</sub> allowances required to be surrendered.

(f). If an owner or operator fails to comply with paragraph (e) above, the owner or operator shall by December 31 surrender three NO<sub>x</sub> allowances of the current or later year vintage for each NO<sub>x</sub> allowance that was required to be surrendered by November 1 of that year.

**SECTION D. Source Level Requirements**

(g). The surrender of NO<sub>x</sub> allowances under paragraph (f) above does not affect the liability of the owner or operator of the unit for any fine, penalty or assessment, or an obligation to comply with any other remedy for the same violation, under the CAA or the act.

(1). For purposes of determining the number of days of violation, if a facility has excess emissions for the period May 1 through September 30, each day in that period (153 days) constitutes a day in violation unless the owner or operator of the unit demonstrates that a lesser number of days should be considered.

(2). Each ton of excess emissions is a separate violation.

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

**SECTION D. Source Level Requirements**

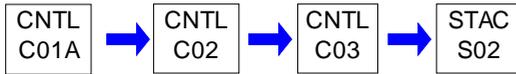
Source ID: C01A

Source Name: VENTURI SCRUBBER

Source Capacity/Throughput:

N/A

INCINERATOR EMISSIONS

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

The permittee shall maintain the following operating parameters for this venturi scrubber when this venturi scrubber is in operation:

- (a). The pressure drop across the throat of the venturi scrubber shall be at least 23 inches water gauge.
- (b). The total water flow rate into the venturi scrubber and impingement scrubber (Source ID Nos. C01A and C02) shall be at least 345 gallons per minute.
- (c). The DEP reserves the right to determine/establish and/or modify the pressure range and the pH range after reviewing the data collected during the compliance stack test.

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

The permittee shall monitor the following operating parameters for this wet scrubber on a daily basis when this source is in operation:

- (a). The pressure drop across this wet scrubber.
- (b). The flow rate of water into this wet scrubber.

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

The permittee shall keep records of all inspections and/or maintenance that is performed on this wet scrubber. The records shall include the date and time of the inspection and/or maintenance and a description of any action taken.

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

The permittee shall keep records of the following operating parameters for this wet scrubber on a daily basis when this source is in operation:

- (a). The pressure drop across this wet scrubber.
- (b). The flow rate of water into this wet scrubber.

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

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

**VI. WORK PRACTICE REQUIREMENTS.**

**# 005 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall perform inspections and/or maintenance on this wet scrubber on at least a monthly basis.

**# 006 [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.**

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

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

**SECTION D. Source Level Requirements**

Source ID: C02

Source Name: IMPINGEMENT SCRUBBER

Source Capacity/Throughput:

N/A

INCINERATOR EMISSIONS

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

(a). The permittee shall maintain the total water flow rate of at least 345 gallons per minute into the venturi scrubber and impingement scrubber (Source ID Nos. C01A and C02) when the scrubber system is in operation.

(b). The DEP reserves the right to determine/establish and/or modify the pressure range and the pH range after reviewing the data collected during the compliance stack test

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

The permittee shall monitor the following operating parameters for this wet scrubber on a daily basis when this source is in operation:

(a). The pressure drop across this wet scrubber.

(b). The flow rate of water into this wet scrubber.

(c). The DEP reserves the right to determine the pressure range and the pH range after reviewing the data collected during the compliance stack test.

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

The permittee shall keep records of the following operating parameters for this wet scrubber on a daily basis when this source is in operation:

(a). The pressure drop across this wet scrubber.

(b). The flow rate of water into this wet scrubber.

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

The permittee shall keep records of all inspections and/or maintenance that is performed on this wet scrubber. The records shall include the date and time of the inspection and/or maintenance and a description of any action taken.



**SECTION D. Source Level Requirements**

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

**# 005 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

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

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall perform inspections and/or maintenance on this wet scrubber on at least a monthly basis.

**VII. ADDITIONAL REQUIREMENTS.**

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

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

**SECTION D. Source Level Requirements**

Source ID: C03

Source Name: VON ROLL AFTERBURNER

Source Capacity/Throughput:

N/A

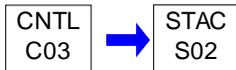
INCINERATOR EMISSIONS

N/A

Natural Gas

N/A

Propane

**I. RESTRICTIONS.****Control Device Efficiency Restriction(s).**

# 001 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall maintain a temperature of 1,500 degrees Fahrenheit or higher in this afterburner at all times during the operation of the sewage sludge incinerator.

[Compliance with this condition streamlines compliance with the requirements of 40 CFR Part 62 Section 15960(a).]

**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.**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall continuously monitor the temperature of this afterburner.

**IV. RECORDKEEPING REQUIREMENTS.**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall continuously record the temperature of this afterburner.

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall keep records of all inspections and/or maintenance that is performed on this afterburner. The records shall include the date and time of the inspection and/or maintenance and a description of any action taken.

**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.**

# 005 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall operate and maintain this afterburner in accordance with manufacturer's specifications.

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

The permittee shall operate Source ID No. 001A only when this afterburner is in operation.

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

The permittee shall perform inspections and/or maintenance on this afterburner on at least a monthly basis.

**VII. ADDITIONAL REQUIREMENTS.**

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

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



**SECTION E. Source Group Restrictions.**



**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Title V facility.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Descriptor		
001A	NICHOLS SLUDGE INCINERATOR		
Emission Limit		Pollutant	
0.023	ug/m3	Risk Specific Concentration	Arsenic Coumpounds
0.010	ug/m3	ambient concentration vicinity of source	Beryllium Compounds
10.000	GRAMS/Day	any consecutive 24-hour period	Beryllium Compounds
100.000	PPMV	zero moisture; 7 % oxygen	CO
0.057	ug/m3	Risk Specific Concentration	Cadmium Compounds
0.064	ug/m3	Risk Specific Concentration	Hexavalent Chromium
0.150	ug/m3	Risk Specific Concentration	Lead
3,200.000	GRAMS/Day	any consecutive 24-hour period	Mercury Compounds
2.000	ug/m3	Risk Specific Concentration	Nickel Compounds
500.000	PPMV	dry standard conditions	SOX
0.100	gr/CF	dry standard conditions	TSP
700	2000 KW GENERATOR		
Emission Limit		Pollutant	
8.500	GRAMS/HP-Hr		CO
2.750	Tons/OZNESEAS		NOX
6.600	Tons/Yr	on a 12-month rolling sum basis	NOX
6.900	GRAMS/HP-Hr		NOX
100.000	Lbs/Hr		NOX
1,000.000	Lbs/Day		NOX
500.000	PPMV	dry standard basis	SOX
0.040	gr/DRY FT3		TSP
0.400	GRAMS/HP-Hr		TSP
1.000	GRAMS/HP-Hr	Total Unburned Hydrocarbons	VOC

**Site Emission Restriction Summary**

Emission Limit	Pollutant
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**SECTION H. Miscellaneous.**

#001. The following sources have been determined by the Department to be insignificant sources of air emissions, and therefore do not require additional limitations, monitoring, or recordkeeping. They are still subject to any applicable Federal, State, and Local regulations that may apply, including the Site Level Requirements (Section C) of this permit and the emission inventory reporting requirements (25 Pa. Code Chapter 135).

(a). Wastewater Treatment Plant - includes, but is not limited to, the following: primary clarifiers, aeration basins, secondary clarifiers, chlorination tanks, etc. This source is subject to further water testing and emissions evaluation. The Department reserves the right to change the status of this source to a significant source depending on the results of water testing and emissions analysis.

(b) Six Portable Diesel Pumps:

1. Godwin 8" Pump, John Deere Model 4045DF150B
2. Godwin 8" Pump, John Deere Model 4045TF150A
3. Godwin 8" Pump, John Deere Model 4045TF285D
4. Sykes 8" Pump Lester/Fiat-Allis Iveco GP200, Model # 8045
5. Sykes 6" Pump, Lester/Fiat- Iveco Model # 478154 GP150M
6. Sykes 6" Pump , Lester/Petter Model 3700TR3A002

#002. Certain terms and conditions in this State Only Operating Permit were derived from operating permit numbers 46-301-261 and 46-301-261A.

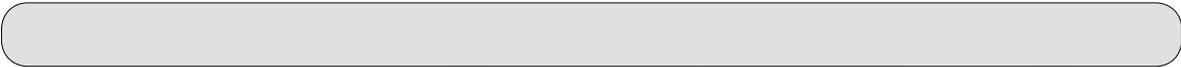
#003. Requests for changes in frequency of facility-wide monitoring for odors, visible emissions, and fugitive particulate matter will be accompanied by a written response from the Department of acceptance or denial of the requested change.

#004. APS No. 469076; Authorization No. 866400: The State Only Operating Permit was opened to amend the language of Source ID No. 001A Condition #006 and #008 to determine the "average concentration" of contaminants as per the conditions of 40 C.F.R. Part 503 Subpart E. The oxidation-reduction potential (ORP) range was changed from 650 mV to 850 mV to a minimum of 650 mV. The Family Emission Limits (FELs) applicable from 40 C.F.R. Section 89.112(d) were applied to the emergency generator instead of the standards from 40 C.F.R. Section 89.112(a).

#005. APS #839325, AUTH # 1020336. Initial TVOP per 40 C.F.R § 60.5240. Daily monitoring was changed to weekly monitoring per letter dated June 15 2011 for Section C, condition #010. Weekly monitoring was changed to monthly monitoring per letter dated January 24 , 2012 for Section C, condition #010. Permit reissued as a Title V Operating Permit in accordance with the requirements of 40 CFR Part 60 Subpart MMMM and 40 CFR Part 62 Subpart LLL. The Title V Operating Permit incorporates applicable requirements from the federal plan (40 CFR Part 62 Subpart LLL). This Title V Operating Permit supersedes the Natural Minor Operating Permit. Six (6) Portable Diesel Pumps were identified as insignificant sources - see #001 above.

Specifically, for each ozone season beginning after January 1, 2015, the Department intends to accept the surrender of annual and ozone season TR NOx allowances as a compliance alternative to the surrender of annual and ozone season CAIR NOx allowances if the TR allowances are surrendered for compliance purposes in a manner consistent with the surrender provisions for CAIR allowances set forth in the applicable sections specified in this notice. The Department consulted with staff in the United States Environmental Protection Agency (EPA) Region III Office in developing an alternative allowance surrender approach for compliance with the applicable SIP-approved requirements. To this end, the EPA has confirmed, in writing, that TR NOx allowances may be surrendered as set forth in the applicable regulations in 25 Pa. Code Chapters 129 and 145. A detailed notice was published in the PA bulletin on April 4, 2015 [45 Pa.B. 1687].

#006. APS #839325, AUTH # 1375282. Renewal of TVOP. Incorporated Plan Approvals 46-0221B and 46-0221C.



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

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