



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

TITLE V/STATE OPERATING PERMIT

Issue Date:	April 17, 2019	Effective Date:	October 21, 2020
Revision Date:	October 21, 2020	Expiration Date:	April 16, 2024
Revision Type:	Amendment		

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

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

TITLE V Permit No: 46-00300

Federal Tax Id - Plant Code: 23-1099050-5

Owner Information

Name: GLAXOSMITHKLINE LLC
Mailing Address: 893 SCHUYLKILL RIVER RD
WEST CONSHOHOCKEN, PA 19428

Plant Information

Plant: GLAXOSMITHKLINE/UPPER MERION BIOPHARM
Location: 46 Montgomery County 46955 Upper Merion Township
SIC Code: 2834 Manufacturing - Pharmaceutical Preparations

Responsible Official

Name: RACHEL HADDOACK
Title: SITE DIRECTOR
Phone: (610) 270 - 6172

Permit Contact Person

Name: JULIA PERRY
Title: EHS ADVISOR
Phone: (215) 518 - 8487

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



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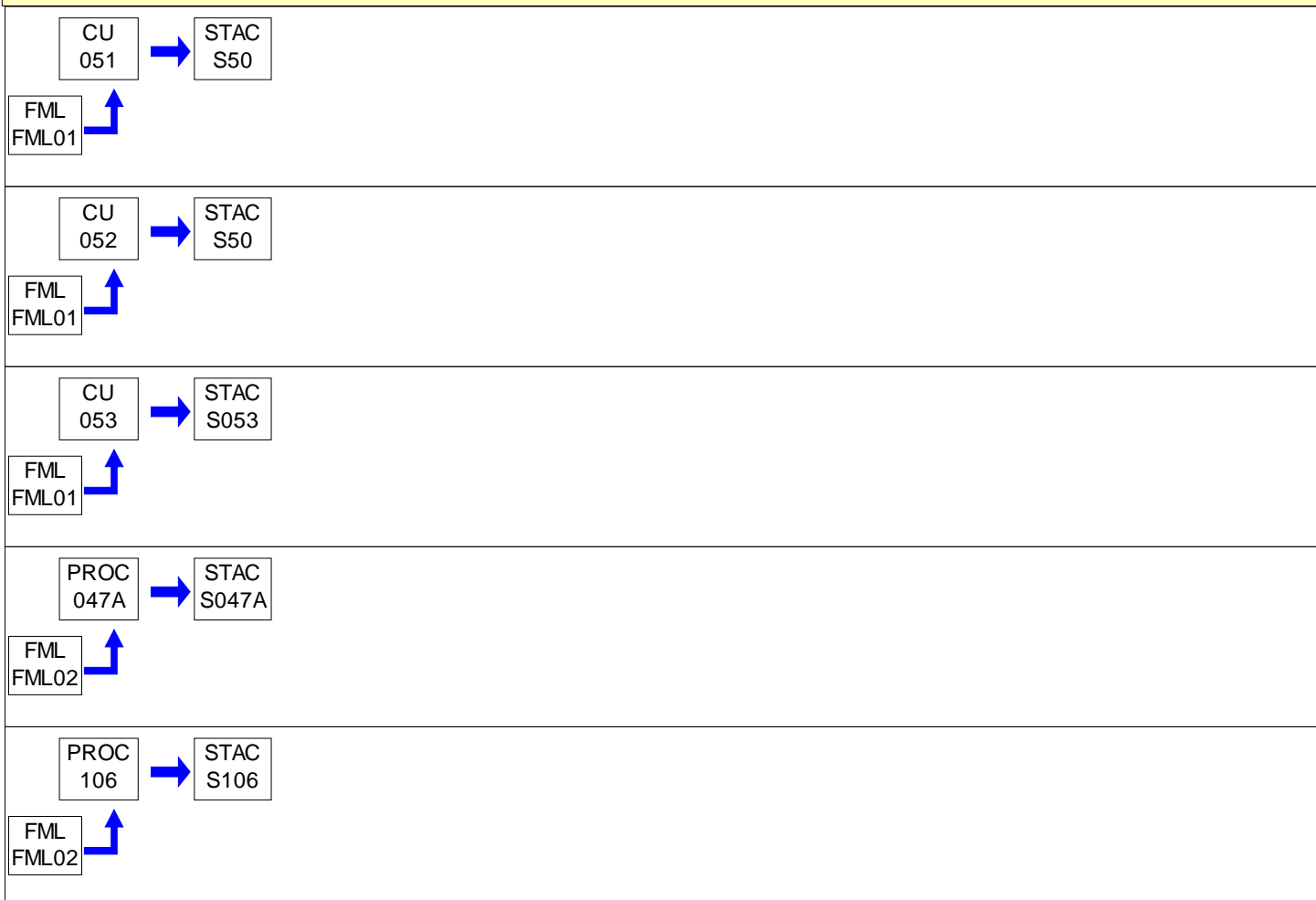
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Source ID	Source Name	Capacity/Throughput	Fuel/Material
051	CLEAVER BROOKS 44 (BLDG 40)	32.700 MMBTU/HR	
		33.500 MCF/HR	Natural Gas
052	CLEAVER BROOKS 45 (BLDG 40)	32.700 MMBTU/HR	
		33.500 MCF/HR	Natural Gas
053	CLEAVER BROOKS 800 (BLDG 40)	32.700 MMBTU/HR	
		32.700 MCF/HR	Natural Gas
047A	EGEN 1 (047I)	51.000 Gal/HR	Diesel Fuel
106	BLDG 40 EGEN 2	53.500 Gal/HR	Diesel Fuel
107	PHARMACEUTICAL MANUFACTURING BLDG 40	N/A	
FML01	NATURAL GAS		
FML02	DIESEL FUEL		
S047A	EGEN 1 (047I STACK)		
S053	CLEAVER BROOK 800 (BLDG 40) STACK		
S106	STACK BLDG 40 EGEN 2		
S107	PHARMACEUTICAL MANUFACTURING STACK		
S50	BUILDING 40 STACK		

PERMIT MAPS



PERMIT MAPS

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

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

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

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

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

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

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

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

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

(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 the Department.

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(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.

#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

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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].

#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

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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).

(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.

(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).

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(e) The permittee shall pay an annual operating permit administration fee according to the fee schedule established in 25 Pa. Code § 127.704(c) if the facility, identified in Subparagraph (iv) of the definition of the term "Title V facility" in 25 Pa. Code § 121.1, is subject to Title V after the EPA Administrator completes a rulemaking requiring regulation of those sources under Title V of the Clean Air Act.

(f) This permit condition does not apply to a Title V facility which qualifies for exemption from emission fees under 35 P.S. § 4006.3(f).

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(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.

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(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 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,

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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:

Office of Air Enforcement and Compliance Assistance (3AP20)
United States Environmental Protection Agency
Region 3
1650 Arch Street
Philadelphia, PA 19103-2029

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

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

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

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

#024 [25 Pa. Code §§ 127.511 & Chapter 135]**Recordkeeping Requirements**

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

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

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

#025 [25 Pa. Code §§ 127.411(d), 127.442, 127.463(e) & 127.511(c)]**Reporting Requirements**

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

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

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

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

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

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

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

(b) The compliance certification shall be postmarked or hand-delivered no later than thirty days after each anniversary of the date of issuance of this Title V Operating Permit, or on the submittal date specified elsewhere in the permit, to the Department and EPA in accordance with the submission requirements specified in condition #022 of this section.

#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)

**SECTION B. General Title V Requirements**

- (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.

(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.

**SECTION B. General Title V Requirements**

(2) The permittee fails to submit a compliance schedule or include a statement in the compliance certification required under Condition #26 of Section B of this Title V 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 shall 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 shall 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.

(7) Blasting in open pit mines. Emissions from drilling are not considered as emissions from blasting.

(8) Coke oven batteries, provided the fugitive air contaminants emitted from any coke oven battery comply with the standards for visible fugitive emissions in §§ 123.44 and 129.15 (relating to limitations of visible fugitive air contaminants from operation of any coke oven battery; and coke pushing operations).

(9) Sources and classes of sources other than those identified in paragraphs (1)-(8), for which the operator 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 shall not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in 25 Pa. Code § 123.1(a)(1-9) 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 shall 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 shall 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.

**SECTION C. Site Level Requirements****# 006 [25 Pa. Code §123.42]****Exceptions**

The limitations of 25 Pa. Code § 123.41, 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; or
- (b) when the emission results from the sources specified in 25 Pa. Code § 123.1(a)(1-9).

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

The permittee shall limit the total facility wide HAP emissions to less than the following, calculated on a 12-month rolling sum:

- (a) less than 10 tons per year for any single HAP and
- (b) less than 25 tons per year for any combination of HAP's.

008 [25 Pa. Code §129.14]**Open burning operations**

No person shall 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.**# 009 [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(s) listed in Section A, of this Permit, may be in excess of the limitations specified in this Permit, or established pursuant to, any applicable rule or regulation contained in 25 Pa. Code Article III, the permittee shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s).
- (b) Such testing shall be conducted in accordance with the provisions of 25 Pa. Code Chapter 139, when applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the permittee that testing is required.

**SECTION C. Site Level Requirements****III. MONITORING REQUIREMENTS.****# 010 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions shall be measured using either of the following:

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

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

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

- (a) The permittee shall monitor the facility, once per operating day, for the following:
 - (1) odors which may be objectionable (as per 25 Pa. Code §123.31);
 - (2) visible emissions (as per 25 Pa. Code §§123.41 and 123.42); and
 - (3) fugitive particulate matter (as per 25 Pa. Code §§ 123.1 and 123.2).
- (b) Objectionable odors, fugitive particulate emissions, and visible emissions that are caused or may be caused by operations at the site shall:
 - (1) be investigated;
 - (2) be reported to the facility management, or individual(s) designated by the permittee;
 - (3) have appropriate corrective action taken (for emissions that originate on-site); and
 - (4) be recorded in a permanent written log.
- (c) After six (6) months of daily monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the monitoring frequency to weekly.
- (d) After six (6) months of weekly monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the frequency of monitoring to monthly.
- (e) The Department reserves the right to change the above monitoring requirements at any time, based on but not limited to: the review of the compliance certification (if applicable), complaints, monitoring results, and/or Department findings.

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

The permittee shall monitor and calculate the total facility wide HAP emissions monthly and on a 12-month rolling sum.

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

- (a) The permittee shall monitor and record the monthly fuel usage for all Boilers and Emergency Generator Engines monthly, and on a 12-month rolling sum.
- (b) The permittee shall monitor and record the facility wide NOx emissions monthly and on a 12-month rolling sum.

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

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

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

- (a) date, time, and location of the incident(s);
- (b) the cause of the event; and

**SECTION C. Site Level Requirements**

(c) the corrective action taken, if necessary, to abate the situation and prevent future occurrences.

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

The permittee shall keep 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.

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

- (a) The permittee shall keep records of the total facility wide HAP emissions monthly and on a 12-month rolling sum.
- (b) The permittee shall keep records of the total facility wide NOx emissions monthly and on a 12-month rolling sum.

V. REPORTING REQUIREMENTS.**# 017 [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, within two (2) hours of discovery of any occurrence, notify the Department, at (484) 250-5920, of any malfunction of the source(s) or associated air pollution control devices listed in Section A, of this permit, which results in, or may possibly result in, the emission of air contaminants in excess of the limitations specified in this permit, or of a regulation contained in 25 Pa. Code Article III.
- (b) Malfunction(s) which occur at this facility, and pose(s) an imminent danger to public health, safety, welfare and the environment, and would violate permit conditions if the source were to continue to operate after the malfunction, shall immediately be reported to the Department by telephone at the above number.
- (c) A written report shall be submitted to the Department within two (2) working days following the notification of the incident, and shall describe the following:
 - (1) The malfunction(s).
 - (2) The emission(s).
 - (3) The duration.
 - (4) Any corrective action taken.

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

Additional authority for this permit condition is also derived from 25 Pa. Code § 127.511(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 #24 of section B of this permit. . The annual certificate of compliance shall be submitted to the Department in paper form, and EPA Region III in electronic form at the following email address:

**SECTION C. Site Level Requirements**

R3_APD_Permits@epa.gov

(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).

019 [25 Pa. Code §135.21]**Emission statements**

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

020 [25 Pa. Code §135.3]**Reporting**

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

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

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

VI. WORK PRACTICE REQUIREMENTS.**# 021 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

A person responsible for any source specified 25 Pa. Code § 123.1 shall take all reasonable actions to prevent particulate matter from becoming airborne.

These actions shall include, but not be limited to, the following

- (a) use, where possible, of water or suitable chemicals, for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land;
- (b) application of asphalt, water, or other suitable chemicals, on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts;
- (c) paving and maintenance of roadways; and
- (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.

022 [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.

023 [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 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.

**SECTION C. Site Level Requirements****# 024 [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.

025 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6]**Subpart A--General Provisions****Compliance with standards and maintenance requirements.**

Operation and maintenance requirements.

(a) At all times, including periods of startup, shutdown, and malfunction, owners or operators shall operate and maintain any affected source, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by all relevant standards.

(b) Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the startup, shutdown, and malfunction plan required.

(c) Operation and maintenance requirements established pursuant to Section 112 of the Clean Air Act are enforceable independent of emissions limitations or other requirements in relevant standards.

VII. ADDITIONAL REQUIREMENTS.**# 026 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The NOx and VOC emissions from Upper Merion – East and Upper Merion – BioPharm will only be aggregated for purposes of New Source Review (NSR) and Prevention of Significant Deterioration (PSD) applicability.

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: 051

Source Name: CLEAVER BROOKS 44 (BLDG 40)

Source Capacity/Throughput: 32.700 MMBTU/HR

33.500 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 129.93
BOILER 51, 52

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

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

Source ID 051 (Boiler #44) is comprised of a Cleaver Brook Boiler, Model No. CBI 200-800-150, Serial No. OLO94617 with a rated heat capacity of 32.7 MMBTU/HR installed June 1, 1996.

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

**SECTION D. Source Level Requirements**

Source ID: 052

Source Name: CLEAVER BROOKS 45 (BLDG 40)

Source Capacity/Throughput: 32.700 MMBTU/HR

33.500 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 129.93
BOILER 51, 52

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

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

Source ID 052 (Boiler #45) is comprised of a Cleaver Brook Boiler, Model No. CBI 200-800-150, Serial No. OLO94616 with a rated heat capacity of 32.7 MMBTU/HR installed June 1, 1996.

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

**SECTION D. Source Level Requirements**

(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.

(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.

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

(a) The permittee shall submit one paper copy plus one electronic copy of 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 (mail and 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.

(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"
- b. For reports, provide the first and last day of testing

2. Facility Identification Number (Facility - ID): 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)

- a. Plan approval number(s)
- b. Operating permit number
- c. Applicable federal subpart(s) (i.e. 40 CFR 60, Subpart JJJJ)
- d. Special purpose(s) (Consent Order, RFD, RACT II, Tier II, etc.)

(c) Mail all paper submissions to both the PSIMS Administrator and the Air Quality Program Manager for the Southeast Regional Office. Mailing addresses are provided below.

Central Office
Pennsylvania Department of Environmental Protection
Attn: PSIMS Administrator
P.O. Box 8468
Harrisburg, PA 17105-8468

Southeast Region
Pennsylvania Department of Environmental Protection
Attn: Air Quality Program Manager
2 East Main Street
Norristown, PA 19401

(d) Eliminate shading, color ink for data emphasis, small font size, and color saturation as the scanning to create an electronic file is done in black and white. Shading and color emphasis do not scan well and make the electronic copies difficult to read.

(e) Email all electronic submissions to both the PSIMS Administrator in Central Office and the Air Quality Program Manager

**SECTION D. Source Level Requirements**

for the Southeast Regional Office. Email addresses are provided below.

Central Office
RA-EPstacktesting@pa.gov

Southeast Region
RA-EPSEstacktesting@pa.gov

(f) The Department limits emails to 15 MB and PSIMS has a file size limitation of 100 MB for electronic files. Submit just one electronic file (convert any Microsoft Word or Excel files to an Adobe PDF format and combine them with the report or protocol), unless the submission contains CONFIDENTIAL information.

(g) 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".

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

VII. ADDITIONAL REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source consists of a Cleaver Brooks Boiler, Model No. CBLE-200-800-150, Serial # T1063-1 with a rated capacity of 32.7 MMBTU/HR equipped with a Low NOx burner and Flue Gas Recirculation (FGR). Installed in 2009.

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

**SECTION D. Source Level Requirements**

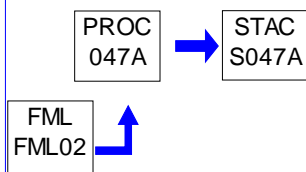
Source ID: 047A

Source Name: EGEN 1 (047I)

Source Capacity/Throughput:

51.000 Gal/HR

Diesel Fuel

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

The permittee shall ensure that emissions into the outdoor atmosphere of particulate matter from a process occurs in such a manner that the concentration of particulate matter in the effluent gas does not exceed 0.04 gr/dscf, according to 25 Pa. Code Section 123.13(c)(1)(i).

002 [25 Pa. Code §123.21]**General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Pursuant to 25 Pa.Code § 123.22, the sulfur content of diesel used in the inner zone of the Southeast region should not exceed 0.05%, this assures compliance with 25 Pa.Code § 123.21.

003 [25 Pa. Code §129.203]**Stationary internal combustion engines.**

(a) For generators with a horsepower rating greater than 1000 hp, the permittee 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.

(b) The permittee 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 in paragraph (1) or (2).

(1) For a spark-ignited engine, 3.0 grams of NO_x per brake horsepower-hour.

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

(c) 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 this section and § 129.204, as follows:

(1) For a replaced spark-ignited engine, 3.0 grams of NO_x per brake horsepower-hour of the replacement motor, less 1.5 pounds of NO_x per MWH of electricity consumed by the replacement motor.

(2) 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 NO_x per brake horsepower-hour, less 1.5 pounds of NO_x per MWH of electricity consumed by the replacement motor.

**SECTION D. Source Level Requirements****Fuel Restriction(s).****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall only use Non-road diesel fuel to fire this generator.

Operation Hours Restriction(s).**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91-129.95.]

The permittee shall not operate this emergency generator more than 200 hours in any twelve (12) consecutive month period.

II. TESTING REQUIREMENTS.**# 006 [25 Pa. Code §139.16]****Sulfur in fuel oil.**

(a) The following are applicable to the analysis of commercial fuel oil:

(1) The fuel oil sample for chemical analysis shall be collected in a manner that provides a representative sample. Upon the request of a Department official, the person responsible for the operation of the source shall collect the sample employing the procedures and equipment specified in 25 Pa. Code § 139.4(10) (relating to references).

(2) Test methods and procedures for the determination of sulfur shall be those specified in 25 Pa. Code § 139.4(12)--(15).

(b) The requirements in subpart (a), above, shall be waived in the event that a delivery receipt from the supplier, showing the maximum percent sulfur in the fuel, is obtained each time a fuel oil delivery is made.

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

The permittee shall monitor the amount of fuel consumed and the hours of operation for this Source ID monthly and on a 12-month rolling sum.

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

The permittee shall calculate and monitor the actual and allowable NOx emissions during the period from May 1st through September 30th each year pursuant to 25 Pa. Code § 129.203.

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

The permittee shall keep records of the amount of fuel consumed and the hours of operation for this Source ID monthly and on a 12-month rolling sum.

[Compliance with keeping the hours of operation demonstrates compliance with 40 C.F.R. §63.6655(f)(2)]

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

The permittee shall record the actual and allowable NOx emissions during the period from May 1st through September 30th each year.

**SECTION D. Source Level Requirements****# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep records of when the following operational maintenance services were performed on each generator associated with this source, to include the date and hour reading on the hour meter of the generator:

- a. Change the oil filter every 500 hours of operation or annually, whichever comes first;
- b. Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first; and
- c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as needed.

[Compliance with this condition assures compliance with 40 C.F.R. § 63.6655]

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

The permittee shall perform the following operational maintenance services on this source:

- a. Change the oil filter every 500 hours of operation or annually, whichever comes first;
- b. Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first; and
- c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as needed.

[Compliance with this condition assures compliance with 40 C.F.R. 63 § 63.6603(a)]

013 [25 Pa. Code §129.204]**Emission accountability.**

(a) The permittee shall determine actual emissions in accordance with one of the following:

(1) If the owner or operator of the unit is required to monitor NO_x 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 Chapter 139 (relating to sampling and testing) 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.

(2) If the owner or operator of the unit is not required to monitor NO_x emissions with a CEMS, one of the following shall be used to determine actual emissions of NO_x:

(i) The 1-year average emission rate calculated from the most recent permit emission limit compliance demonstration test data for NO_x.

(ii) The maximum hourly allowable NO_x 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.

**SECTION D. Source Level Requirements**

(iii) CEMS data, if the owner or operator elects to monitor NO_x emissions with a CEMS. The owner or operator shall monitor emissions and report the data from the CEMS in accordance with Chapter 139 or Chapter 145 (relating to interstate pollution transport reduction). Any data invalidated under 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. The alternate calculation and recordkeeping procedures must be approved by the Department, in writing, prior to implementation.

(b) The owner or operator of a unit subject to this section shall surrender to the Department one NO_x allowance, as defined in § 145.2 (relating to definitions), for each ton of NO_x 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 NO_x 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.

(c) If the combined allowable emissions from units subject to this section 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 this section at the owner or operator's other facilities.

(d) By November 1, 2005, and by November 1 of each year thereafter, an owner or operator of a unit subject to this section shall surrender the required NO_x allowances to the Department's designated NO_x allowance tracking system account and provide to the Department, in writing, the following:

- (1) The serial number of each NO_x allowance surrendered.
- (2) The calculations used to determine the quantity of NO_x allowances required to be surrendered.

(e) If an owner or operator fails to comply with subsection (e), the owner or operator shall by December 31 surrender three NO_x allowances of the current or later year vintage for each NO_x allowance that was required to be surrendered by November 1 of that year.

(f) The surrender of NO_x allowances under subsection (f) 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.

VII. ADDITIONAL REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This Source ID consist of the following generator:

Generator Model SR-4B, Serial No. 6EJ00662

Caterpillar Engine, Model No. 3412, Serial No. 2WJ00571, 750 kW Diesel fired EGEN installed in 1996.

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

**SECTION D. Source Level Requirements**

Source ID: 106

Source Name: BLDG 40 EGEN 2

Source Capacity/Throughput:

53.500 Gal/HR

Diesel Fuel

Conditions for this source occur in the following groups: 40 CFR 60

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

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

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

[Compliance with this condition assures compliance with 40 C.F.R. Part 89 § 89.113(a)]

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

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

[Compliance with this condition assures compliance with 40 C.F.R. 80 § 80.510(b)]

Pursuant to 25 Pa.Code § 123.22, the sulfur content of diesel used in the inner zone of the Southeast region should not exceed 0.05%, this assures compliance with 25 Pa.Code § 123.21.

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

No person shall permit the emission into the outdoor atmosphere of particulate matter from this source in excess of 0.02 gr/dscf, pursuant to 25 Pa. Code § 127.12(a)(5).

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

The permittee shall limit the emissions from this generator to less than the following:

NO_x: 13.65 lb/hr; and 1.71 tpy calculated on a 12-month rolling sum.

CO: 0.62 lb/hr; and 0.08 tpy calculated on a 12-month rolling sum.

VOC: 0.08 lb/hr; and 0.01 tpy calculated on a 12-month rolling sum.

PM₁₀: 0.06 lb/hr; and 0.01 tpy calculated on a 12-month rolling sum.

SO₂: 0.38 lb/hr; and 0.05 tpy calculated on a 12-month rolling sum.

**SECTION D. Source Level Requirements****# 005 [25 Pa. Code §129.203]****Stationary internal combustion engines.**

The permittee shall calculate the difference between the actual NO_x emissions from the unit during the period from May 1 through September 30 and the allowable emissions for that period.

The permittee shall calculate the allowable NO_x 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 in (1) or (2) below.

(1) For a spark-ignited engine, 3.0 grams of NO_x per brake horsepower-hour.

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

Fuel Restriction(s).**# 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. Part 80 § 80.510(a)]

(a). The permittee shall use only non-road diesel fuel for this source. The non-road diesel fuel shall comply with the following per-gallon standards:

(1). Cetane index or aromatic content, as follows:

- (i). A minimum cetane index of 40; or
- (ii). A maximum aromatic content of 35 volume percent.

(2). Sulfur Content: 15 ppm maximum.

Operation Hours Restriction(s).**# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The non-emergency generator, EGEN 2, may be used during electrical power failures, electric system/grid emergencies, peak shaving, load shedding, and demand response programs, or to perform preventive maintenance and periodic readiness testing.

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

The following condition applies to start ups and monthly testing of the engine for maintenance purposes:

(a). The permittee shall limit the frequency of testing for maintenance purposes of the engine to 45 minutes per month during the ozone season. The tests shall be conducted between 5pm and 11pm during the ozone season. The testing shall not be performed on those days when the Air Quality Index is forecasted to reach or exceed 100.

[The ozone season is defined as the period of time from May 1st through September 30th of each year.]

Throughput Restriction(s).**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall limit the total fuel usage of this generator to less than 13,375 gallons per year calculated on a 12-month rolling sum.

**SECTION D. Source Level Requirements****II. TESTING REQUIREMENTS.****# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The following are applicable to the analysis of commercial fuel oil:

(1) the fuel oil sample for chemical analysis shall be collected in a manner that provides a representative sample. Upon the request of a Department official, the person responsible for the operation of the source shall collect the sample employing the procedures and equipment specified in 25 Pa. Code § 139.4(10) (relating to references);

(2) test methods and procedures for the determination of sulfur shall be those specified in 25 Pa. Code § 139.4(12)--(15); and

(b) The requirements in subpart (a), above, shall be waived in the event that a delivery receipt from the supplier, showing the maximum percent sulfur in the fuel, is obtained each time a fuel oil delivery is made.

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

The permittee shall monitor the annual operating hours for readiness testing and maintenance monthly and on a 12-month rolling sum.

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

The permittee shall calculate and monitor the actual and allowable NOx emissions during the period from May 1st through September 30th each year pursuant to 25 Pa. Code § 129.203.

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

The permittee shall monitor and calculate the NOx, CO, VOC, PM10 and SO2 emissions from this generator monthly.

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

The permittee shall monitor the fuel usage for this generator monthly and on a 12-month rolling sum.

015 [25 Pa. Code §129.204]**Emission accountability.**

(a). The owner or operator shall determine the actual NOx emissions in accordance with 25 Pa. Code § 129.204(b)(2)(ii), using the manufacturer's emission factor of 5.32 g/hp-hr.

(b). 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 §§ 129.201--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.

IV. RECORDKEEPING REQUIREMENTS.**# 016 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.

**SECTION D. Source Level Requirements****# 017 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep records of the annual operating hours for readiness testing and maintenance monthly and on a 12-month rolling sum.

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

The permittee shall keep records of the actual and allowable NOx emissions during the period from May 1st through September 30th each year.

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

The permittee shall keep records of the NOx, CO, VOC, PM10 and SO2 emissions from this generator monthly and on a 12-month rolling sum.

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

The permittee shall keep records of the fuel usage for this generator monthly and on a 12-month rolling sum.

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

For each shipment of diesel fuel received for this generator, the permittee shall keep records of the following information, obtained either by laboratory analysis or from the fuel supplier's certification:

- (a). The sulfur content.
- (b). The cetane index or the aromatic content.
- (c). The maximum sulfur content.

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

If the stationary CI internal combustion engine is equipped with a diesel particulate filter, the permittee shall keep records of any corrective action taken after the backpressure monitor has notified the permittee that the high backpressure limit of the engine is approached.

V. REPORTING REQUIREMENTS.

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

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

The permittee shall operate and maintain a non-resettable hour meter on this non-emergency generator.

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

(a). The permittee shall use the following manufacturer's emission factors when calculating emissions based on hours of operation:

- NOx: 5.32 g/hp-hr
- CO: 0.24 g/hp-hr
- VOC: 0.03 g/hp-hr
- PM10: 0.02 g/hp-hr

[Compliance with paragraph (a) above ensures compliance with 40 C.F.R. § 60.4202]

(b). The permittee shall use the following emission factors when calculating emissions based on fuel usage:

**SECTION D. Source Level Requirements**

- NOx: 0.23 lb/gal
- CO: 0.01 lb/gal
- VOC: 0.001 lb/gal
- PM10: 0.001 lb/gal

025 [25 Pa. Code §129.204]**Emission accountability.**

(a) The owner or operator of a unit subject to this section shall surrender to the Department one CAIR NOx allowance and one CAIR NOx Ozone Season allowance, as defined in 40 CFR 96.102 and 96.302 (relating to definitions), for each ton of NOx 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.

(b) If the combined allowable emissions from units subject to this section 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 this section at the owner or operator's other facilities.

(c) By November 1 of each year, an owner or operator of a unit subject to this section shall surrender the required NOx allowances to the Department's designated NOx allowance tracking system account and provide to the Department, in writing, the following:

- (1) The serial number of each NOx allowance surrendered.
- (2) The calculations used to determine the quantity of NOx allowances required to be surrendered.

(d) If an owner or operator fails to comply with subsection (c), the owner or operator shall by December 31 surrender three NOx allowances of the current or later year vintage for each NOx allowance that was required to be surrendered by November 1 of that year.

(e) The surrender of NOx allowances under subsection (c) 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.

026 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]**Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?**

(1) The permittee shall operate and maintain the stationary CI internal combustion engine according to the manufacturer's emission-related written instructions.

(2) The permittee shall change only those emission-related settings that are permitted by the manufacturer.

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

This non-emergency generator is subject to Subpart III of the Standards of Performance for New Stationary Sources and

**SECTION D. Source Level Requirements**

shall comply with all applicable requirements of this Subpart. In accordance with 40 C.F.R. Part 60 § 60.4, copies of all requests, reports, applications, submittals, and other communications are required to be submitted to both the EPA and the Department. The EPA copies shall be forwarded to:

Director
Air Protection Division
U.S. EPA, Region III
1650 Arch Street
Philadelphia, PA 19103-2029

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

This source consists of a 750 kw diesel fired non-emergency generator. The engine is Manufactured by Caterpillar, Model number C27, Serial No. MJE01367 and installed in 2009.

The generator is Model No. SR4B and serial No. AFN03485.

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

Additional Authority for this permit condition is derived from 40 C.F.R. § 63.6590(c)]

This non-emergency generator meets the requirements of 40 C.F.R. 63 Subpart ZZZZ by complying with the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines.

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

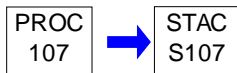
**SECTION D. Source Level Requirements**

Source ID: 107

Source Name: PHARMACEUTICAL MANUFACTURING BLDG 40

Source Capacity/Throughput:

N/A

**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 the type and calculate the amount of HAPs used monthly and on a 12-month rolling sum.

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

The permittee shall record the following monthly and a 12-month rolling sum:

- (1) The amount and types of HAPs used in the pharmaceutical manufacturing process.
- (2) The individual HAP and combined HAP emissions from the pharmaceutical manufacturing process.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: 129.93

Group Description: Presumptive RACT

Sources included in this group

ID	Name
051	CLEAVER BROOKS 44 (BLDG 40)
052	CLEAVER BROOKS 45 (BLDG 40)
053	CLEAVER BROOKS 800 (BLDG 40)

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.**# 001 [25 Pa. Code §129.93]****Presumptive RACT emission limitations**

(a) Presumptive RACT for this source shall be the performance of an annual adjustment or tuneup on the combustion process. This adjustment shall include, at a minimum, the following:

- (1) Inspection, adjustment, cleaning or replacement of fuel-burning equipment, including the burners and moving parts necessary for proper operation as specified by the manufacturer.
- (2) Inspection of the flame pattern or characteristics and adjustments necessary to minimize total emissions of NO_x, and to the extent practicable minimize emissions of CO.
- (3) Inspection of the air-to-fuel ratio control system and adjustments necessary to ensure proper calibration and operation as specified by the manufacturer.

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: 40 CFR 60

Group Description: Subpart III conditions this source only

Sources included in this group

ID	Name
106	BLDG 40 EGEN 2

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

If you are an owner or operator of a stationary CI internal combustion engine equipped with a diesel particulate filter to comply with the emission standards in § 60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: BOILER 51, 52

Group Description: conditions for these two boilers, Subpart DC

Sources included in this group

ID	Name
051	CLEAVER BROOKS 44 (BLDG 40)
052	CLEAVER BROOKS 45 (BLDG 40)

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91-129.95]

The Nitrogen Oxides (NO_x) emissions from this boiler shall not exceed in the prescribed manner:

- (a) 30 ppm corrected to 3% Oxygen content when firing natural gas,
- (b) 8.2 tons per year on a twelve month rolling period.

Throughput Restriction(s).**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91-129.95]

The total amount of Natural gas fired in Boiler #44 (Source ID 051) and Boiler #45 (Source ID 052) shall not exceed 205.3 million cubic feet in a twelve month rolling period.

II. TESTING REQUIREMENTS.

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

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

The permittee shall monitor the following:

- (a) the hours of operation, monthly, and
- (b) the fuel usage monthly and on a 12-month rolling sum.

[Compliance with paragraph (b) above, assures compliance with 40 C.F.R. § 60.48c(g)]

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

[Additional Authority for this permit condition is also derived from 40 C.F.R. § 60.48c]

The permittee shall maintain records to show compliance with all applicable requirements of 40 C.F.R. § 60.48c Subpart Dc and state requirements, which shall include but not limited to:

- (a) the parameters monitored to ensure compliance with the sulfur oxides, particulate matter and nitrogen oxides limitations,
- (b) all tests conducted,

**SECTION E. Source Group Restrictions.**

- (c) any malfunctions,
- (d) amount and type of fuel used monthly and on a 12-month rolling sum,
- (e) hours of operations, monthly.

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

[Additional authority of this permit condition is also derived from 25 Pa. Code § 129.91-129.95]

The permittee shall keep records of the annual tune-up in a binder located on-site and/or in an equivalent electronic format, which include but not limited to:

- (a) the date of the tuning procedure,
- (b) the name of the service company and technicians,
- (c) the final operating rate or load,
- (d) the final CO and NOx emission rates, and
- (e) the final excess oxygen rate.

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

The permittee shall keep records of the total amount of natural gas consumed by both boiler #44 (Source ID 051) and boiler # 45 (Source ID 052) monthly and on a 12-month rolling sum.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512 and 40 CFR § 60.4]

The permittee shall submit copies of all requests, reports, application, submittals, and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Director, Air Protection Division
U.S. EPA, Region III
1650 Arch Street
Philadelphia, PA 19107.

VI. WORK PRACTICE 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 § 129.91 - 129.95]

The emissions of the Volatile Organic Compounds (VOCs) shall be minimized by annual combustion tuning and/or good operating practices.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91 - 129.95]

The annual adjustment shall be made in accordance with EPA document "Combustion Efficiency Optimization Manual for Operators of Oil and Gas-fired Boilers," September 1983 EPA-340/1-83-023) or equivalent procedures approved in writing by the Department.

**SECTION E. Source Group Restrictions.**

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The boiler shall be equipped with low NOx burners with flue gas recirculation.

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: DDDDD

Group Description: Source 53 only NG fuel

Sources included in this group

ID	Name
053	CLEAVER BROOKS 800 (BLDG 40)

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: FUEL CATEGORIZED

Group Description: Subpart JJJJJJ

Sources included in this group

ID	Name
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No Sources exist for this Group.

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional Authority for this permit condition is also derived from 40 C.F.R. § 63.11237]

According to 40 C.F.R. Part 63 Subpart JJJJJJ, for the purpose of fuel, this boiler is categorized as a boiler greater than 10 MMBTU/HR and uses fuel defined under oil subcategory of Subpart JJJJJJ.

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

**SECTION E. Source Group Restrictions.**

Group Name: GEN ASSOC WITH THIS ID
 Group Description: Subpart ZZZZ not incl source ID 047A
[Sources included in this group](#)

ID	Name
----	------

No Sources exist for this Group.

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6600]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What emission limitations and operating limitations must I meet if I own or operate a stationary RICE with a site rating of**

In accordance with 40 C.F.R. § 63.6600(d), Table 2c, the permittee shall limit the concentration of CO in the stationary RICE exhaust to 23 ppmvd or less, corrected to 15% oxygen; or reduce CO emissions by 70 percent or more.

002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6600]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What emission limitations and operating limitations must I meet if I own or operate a stationary RICE with a site rating of**

In accordance with 40 C.F.R. § 63.6600(d), Table 2c, the permittee shall limit the concentration of CO in the stationary RICE exhaust to 23 ppmvd or less, corrected to 15% oxygen; or reduce CO emissions by 70 percent or more.

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

[Additional Authority for this permit condition is also derived from 25 Pa. Code § 127.441 and 40 C.F.R. Part 80 § 80.510(b)]

The permittee shall ensure that all diesel fuel complies with the following per-gallon standards:

1. Sulfur content less than 15 ppm
2. Cetane index or aromatic content, as follows:
 - a. A minimum cetane index of 40; or
 - b. A maximum aromatic content of 35 volume percent.

[Compliance with this condition assures compliance with 25 Pa. Code § 123.21]

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6604]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What fuel requirements must I meet if I own or operate an existing stationary CI RICE?**

[Additional Authority for this permit condition is also derived from 25 Pa. Code § 127.441 and 40 C.F.R. Part 80 § 80.510(b)]

The permittee shall ensure that all diesel fuel complies with the following per-gallon standards:

1. Sulfur content less than 15 ppm

**SECTION E. Source Group Restrictions.**

2. Cetane index or aromatic content, as follows:
- A minimum cetane index of 40; or
 - A maximum aromatic content of 35 volume percent.

[Compliance with this condition assures compliance with 25 Pa. Code § 123.21]

II. TESTING REQUIREMENTS.**# 005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6615]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****When must I conduct subsequent performance tests?**

[Additional Authority for this permit condition is also derived from 25 Pa. Code § 127.441 and 40 C.F.R. 63 § 63.6610]

(a). The permittee shall perform an initial performance test in accordance with 40 C.F.R. 63 Subpart ZZZZ, Table 4 no later than October 30, 2013.

(b). Subsequent performance testing in accordance with 40 C.F.R. Subpart ZZZZ, table 3, shall be performed every 8760 hours or three (3) years, whichever comes first.

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6615]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****When must I conduct subsequent performance tests?**

[Additional Authority for this permit condition is also derived from 25 Pa. Code § 127.441 and 40 C.F.R. 63 § 63.6610]

(a). The permittee shall perform an initial performance test in accordance with 40 C.F.R. 63 Subpart ZZZZ, Table 4 no later than October 30, 2013.

(b). Subsequent performance testing in accordance with 40 C.F.R. Subpart ZZZZ, table 3, shall be performed every 8760 hours or three (3) years, whichever comes first.

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.**# 007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What records must I keep?**

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

The permittee shall maintain records of the following:

(a). A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status.

(b). Records of the occurrence and duration of each malfunction of the control and monitoring equipment and the corrective action taken.

(c). Records of the fuel supplier receipts, indicating the sulfur content meets the requirements of 40 C.F.R. 80.510(b)

**SECTION E. Source Group Restrictions.**

(d). Records of the maintenance conducted on the engine in order to demonstrate the engine and control device was operated and maintained in accordance with the manufacturer's specifications or the permittee's maintenance plan.

(e). Records of the performance test and test results.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What records must I keep?**

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

The permittee shall maintain records of the following:

(a). A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status.

(b). Records of the occurrence and duration of each malfunction of the control and monitoring equipment and the corrective action taken.

(c). Records of the fuel supplier receipts, indicating the sulfur content meets the requirements of 40 C.F.R. 80.510(b)

(d). Records of the maintenance conducted on the engine in order to demonstrate the engine and control device was operated and maintained in accordance with the manufacturer's specifications or the permittee's maintenance plan.

(e). Records of the performance test and test results.

V. REPORTING REQUIREMENTS.**# 009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6650]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What reports must I submit and when?**

[Additional Authority for this permit condition was also derived from 25 Pa. Code 127.441 and 40 C.F.R. 63, Subpart ZZZZ, table 7]

(a). The first semi-annual compliance report shall be completed as part of the Permittee's Title V semi-annual deviation report and shall cover the period from the compliance date through the end of the calendar half (May 3, 2013 through June 30, 2013).

(1). The report shall contain the description of each malfunction, including the number, duration, and causes of deviations from an emission limit or operating limitation, and the corrective action taken. If no deviations occurred during the reporting period, the report must state this.

(b). Notification of performance tests and their results shall follow the same procedures as PA DEP's stack testing guidelines.

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6650]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What reports must I submit and when?**

[Additional Authority for this permit condition was also derived from 25 Pa. Code 127.441 and 40 C.F.R. 63, Subpart ZZZZ, table 7]

(a). The first semi-annual compliance report shall be completed as part of the Permittee's Title V semi-annual deviation report and shall cover the period from the compliance date through the end of the calendar half (May 3, 2013 through June 30, 2013).

**SECTION E. Source Group Restrictions.**

(1). The report shall contain the description of each malfunction, including the number, duration, and causes of deviations from an emission limit or operating limitation, and the corrective action taken. If no deviations occurred during the reporting period, the report must state this.

(b). Notification of performance tests and their results shall follow the same procedures as PADEP's stack testing guidelines.

VI. WORK PRACTICE REQUIREMENTS.

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6605]

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

What are my general requirements for complying with this subpart?

The engine must be in compliance with the requirements of Subpart ZZZZ at all times and must operate and maintain the source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.

012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6605]

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

What are my general requirements for complying with this subpart?

The engine must be in compliance with the requirements of Subpart ZZZZ at all times and must operate and maintain the source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.

013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]

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

What are my monitoring, installation, operation, and maintenance requirements?

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

(a). The permittee shall minimize each engine's time spent at idle during startup, and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed thirty (30) minutes.

(b). The permittee must either install a closed crankhouse ventilation system or install an open crankhouse filtration emission control system on the engine. Manufacturer specified maintenance requirements must be followed or an alternate maintenance program can be proposed and approved by the Administrator.

014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]

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

What are my monitoring, installation, operation, and maintenance requirements?

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

(a). The permittee shall minimize each engine's time spent at idle during startup, and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed thirty (30) minutes.

(b). The permittee must either install a closed crankhouse ventilation system or install an open crankhouse filtration emission control system on the engine. Manufacturer specified maintenance requirements must be followed or an alternate maintenance program can be proposed and approved by the Administrator.

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: GR. 1

Group Description: Boiler 2&3

Sources included in this group

ID	Name
----	------

No Sources exist for this Group.

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91 - 129.95]

- (a) The flow rate of the Number 6 fuel oil shall not exceed 327 gallons per hour.
- (b) The flow rate of the natural gas shall not exceed 49,000 cubic feet per hour.
- (c) The annual use of Number 6 fuel oil shall not exceed 1,100,000 gallons per year.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: GR. 10

Group Description: All Incinerators

Sources included in this group

ID	Name
----	------

No Sources exist for this Group.

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: GR. 2

Group Description: Boilers (11)

Sources included in this group

ID	Name
----	------

No Sources exist for this Group.

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.**

[Additional authority of this permit condition is also derived from 25 Pa. Code § 129.91-129.95]

The permittee shall keep records of the annual tune-up for each boiler in a binder located on-site and/or in a equivalent electronic format, which include but not limited to:

- (a) the date of the tuning procedure,
- (b) the name of the service company and technicians,
- (c) the final operating rate or load,
- (d) the final CO and NO_x emission rates, and
- (e) the final excess oxygen rate.

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

The permittee shall keep records of the following when this source burns No. 2, 4, or 5 Fuel Oil:

- a. The date and duration of burning No. 2, 4, or 5 fuel oil, recorded in hours
- b. The reason for burning No. 2, 4, or 5 fuel oil, and
- c. The hours per calendar year that No. 2, 4, or 5 fuel oil was used for periodic testing of liquid fuels.

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.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91 - 129.95]

**SECTION E. Source Group Restrictions.**

The permittee shall conduct an annual tune-up for each boiler associated with this Source ID which shall consist of the following:

(a) Inspection, adjustment, cleaning or replacement of fuel burning equipment, including the burners and moving parts necessary for proper operation as specified by the manufacturer.

(b) Inspection of the flame pattern or characteristics and adjustments necessary to minimize total emissions of Nitrogen Oxides (NO_x), and to the extent practicable, minimize the emissions of Carbon Monoxide (CO).

(c) Inspection of the air-to-fuel ratio control system and adjustments necessary to ensure proper calibration and operation as specified by the manufacturer.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91 - 129.95]

The emissions of the Volatile Organic Compounds (VOCs) shall be minimized by annual combustion tuning and/or good operating practices.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91 - 129.95]

The annual adjustment shall be made in accordance with EPA document "Combustion Efficiency Optimization Manual for Operators of Oil and Gas-fired Boilers," September 1983 EPA-340/1-83-023) or equivalent procedures approved in writing by the Department.

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: GR. 3

Group Description: Boilers 44&45

Sources included in this group

ID	Name
----	------

No Sources exist for this Group.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91-129.95]

The Nitrogen Oxides (NO_x) emissions from this boiler shall not exceed in the prescribed manner:

- (a) 30 ppm corrected to 3% Oxygen content when firing natural gas,
- (b) 140 ppm corrected to 3% Oxygen content when firing Number 2 fuel oil, and
- (c) 8.2 tons per year on a twelve month rolling period.

002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.42c]**Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Standard for sulfur dioxide.**

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

SULFUR OXIDES EMISSIONS

- (a) The sulfur oxide emission limit for this source is 0.5 lb/million Btu, heat input, determined over a 30-day rolling average pursuant to 40 CFR 60.42c (d) and (g).
- (b) The permittee shall demonstrate compliance with this condition by using No. 2 fuel oil that contains less than 0.2 percent, by weight sulfur. This will be documented by obtaining a certification from the fuel oil supplier that the No. 2 fuel oil delivered to the facility contained less than 0.2 percent, by weight sulfur, pursuant to 40 CFR 60.42c(h).

003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.43c]**Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Standard for particulate matter.**

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

Opacity Standard:

- (a) The permittee shall not cause to be discharged into the atmosphere from the boiler any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.
- (b) The opacity standards under this condition apply at all times, except during periods of startup, shutdown, or malfunction.

**SECTION E. Source Group Restrictions.****Throughput Restriction(s).****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91-129.95]

- (a) The total amount of Number 2 fuel oil fired in Boiler #44 and Boiler #45 shall not exceed 478,286 gallons in a twelve (12) month rolling period.
- (b) The total amount of Natural gas fired in Boiler #44 and Boiler #45 shall not exceed 205.3 million cubic feet in a twelve month rolling period.

II. TESTING REQUIREMENTS.**# 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.44c]
Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units
Compliance and performance test methods and procedures for sulfur dioxide.**

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

The permittee shall demonstrate compliance with the SO₂ standards based on fuel supplier certification, the performance test shall consist of the certification, the certification from the fuel supplier, as described under 40 CFR Section 60.48c(f)(1), (2), or (3), as applicable.

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

The permittee shall monitor daily:

- (a) the hours of operation,
- (b) the fuel usage.

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

The permittee shall maintain records to show compliance with all applicable requirements of 40 CFR Subpart Dc and state requirements, which shall include but not limited to:

- (a) the parameters monitored to ensure compliance with the sulfur oxides, particulate matter and nitrogen oxides limitations,
- (b) all tests conducted,
- (c) any malfunctions,
- (d) amount and type of fuel usage,
- (e) receipts from fuel supplier, and
- (f) hours of operations.

**SECTION E. Source Group Restrictions.****V. REPORTING 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 and 40 CFR § 60.4]

The permittee shall submit copies of all requests, reports, application, submittals, and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Director
Air, Toxics and Radiation Division
U.S. EPA, Region III
1650 Arch Street
Philadelphia, PA 19107.

009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]**Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.**

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

If fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification shall include the following. In addition to records of fuel supplier certifications, the semi-annual report shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted.

(i) The name of the oil supplier; and

(ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR Section 60.41c.

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

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

The boiler shall be equipped with low NOx burners with flue gas recirculation.

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: GR. 4

Group Description: Boilers Fuel

Sources included in this group

ID	Name
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No Sources exist for this Group.

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.**

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

The permittee shall maintain records of the following:

- (a) A certification from the fuel supplier of the type of fuel delivered.
- (b) A certification that the fuel complies with ASTM D396-78 "Standard Specification for Fuel Oils."

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: GR. 5

Group Description: boilers(8)

Sources included in this group

ID	Name
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No Sources exist for this Group.

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

The following condition applies only to the following boilers:

- Cleaver Brooks #1 (Bldg. 20)
- Cleaver Brooks #2 (Bldg. 20)
- Cleaver Brooks #3 (Bldg. 20)
- Cleaver Brooks #4 (Bldg. 20)
- Cleaver Brooks #9 (Bldg. 3)
- Cleaver Brooks #10 (Bldg. 3)
- Cleaver Brooks #11 (Bldg. 3)

a) In the event that one of the boilers listed above experiences a malfunction such that the steam load is required to be replaced, then the company is allowed to install a rental boiler that is the same capacity, or less.

b) The rental boiler shall combust the same type(s) of fuel or a more refined fuel oil as the boiler that it is replacing.

c) The rental boiler is only authorized to operate for a maximum of six months.

d) Sufficient data shall be recorded so that compliance with [this condition] can be determined. Records shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

- i. The company shall keep a record of the date and cause of the malfunction.
- ii. The company shall keep a record of the emissions from the rental boiler on a monthly basis.
- iii. The company shall keep a record of the number of days of operation of the rental boiler.

e) The company shall notify the Department, by telephone at 484-250-5920, within 24 hours of a malfunction that requires obtaining a rental boiler. The company shall submit to the Department, within five working days, a written notification that a rental boiler has been temporarily installed. In addition, the written notification shall include the rated capacity of the rental boiler.

f) The identity and capacity of the boiler that malfunctioned, the type of the fuel that the rental boiler will be combusting and the expected amount of time that the rental boiler will be on-site.

g) This rental boiler will be subject to Subpart Dc of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart. 40 CFR Section 60.4 requires submission of copies of all requests, reports, applications, submittals and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Director
Air Protection Division
U.S. EPA, Region III
1650 Arch Street
Philadelphia, PA 19103-2029

**SECTION E. Source Group Restrictions.****II. TESTING REQUIREMENTS.**

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

002 [25 Pa. Code §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 maintain records of the following:

- (a) a certification from the fuel supplier of the type of fuel delivered.
- (b) a certification from the fuel supplier of the nitrogen content of the fuel and identification of the sampling method and sampling protocol.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: GR. 6

Group Description: #2 boilers

Sources included in this group

ID	Name
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No Sources exist for this Group.

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §123.22]****Combustion units**

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from any combustion unit, in the Southeast Air Basin, in excess of 1.0 pounds per million Btu of heat input, pursuant to 25 Pa. Code § 123.22(e)(1).

Fuel Restriction(s).**# 002 [25 Pa. Code §123.22]****Combustion units**

No person may, at any time, offer for sale, deliver for use, exchange in trade or permit the use of commercial fuel oil, Grade No.2, for use in combustion units in the Southeast Pennsylvania air basin which contains sulfur in excess of 0.2% by weight, pursuant to 25 Pa. Code § 123.22(e)(2).

II. TESTING REQUIREMENTS.**# 003 [25 Pa. Code §139.16]****Sulfur in fuel oil.**

The following are applicable to tests for the analysis of commercial fuel oil:

(1) The fuel oil sample for chemical analysis shall be collected in a manner that provides a representative sample. Upon the request of a Department official, the person responsible for the operation of the source shall collect the sample employing the procedures and equipment specified in 139.4(10) (relating to references).

(2) Test methods and procedures for the determination of viscosity shall be that specified in 139.4(11) (relating to references). The viscosity shall be determined at 100 F.

(3) Tests methods and procedures for the determination of sulfur shall be those specified in 139.4(12)--(15).

(4) Results shall be reported in accordance with the units specified in 123.22 (relating to combustion units).

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

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

The permittee shall monitor the following daily, when in operation:

(a) the date and the operating hours,

(b) the amount of fuel consumed, and

**SECTION E. Source Group Restrictions.**

(c) the type of fuel used.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The permittee shall maintain daily records of the following, when in operation:

- (a) the date and the operating hours,
- (b) the amount of fuel consumed, and
- (c) the type of fuel used.

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.

006 [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(h)]

The permittee shall operate and maintain this boiler in accordance with manufacturer's specifications to maintain compliance with the emission limitations.

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: GR. 6A

Group Description: #14 & #15

[Sources included in this group](#)

ID	Name
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No Sources exist for this Group.

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: GR. 8

Group Description: Generators

Sources included in this group

ID	Name
----	------

No Sources exist for this Group.

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

No person may permit the emission into the outdoor atmosphere of particulate matter from these generators at any time, in excess of 0.04 grains per dry standard cubic foot, pursuant to 25 Pa. Code § 123.13 (c)(1)(i).

002 [25 Pa. Code §123.13]**Processes**

No person may permit the emission into the outdoor atmosphere of particulate matter from these generators at any time, in excess of 0.04 grains per dry standard cubic foot, 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 these generators in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

004 [25 Pa. Code §123.21]**General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides from these generators in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

II. TESTING REQUIREMENTS.

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

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

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

The permittee shall monitor the amount of fuel consumed and the hours of operation for each generator monthly and on a 12-month rolling sum.

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

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

The permittee shall monitor the following daily, when in operation:

- (a) the date and the operating hours,
- (b) the amount of fuel consumed.

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

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

The permittee shall keep records of the amount of fuel consumed and the hours of operation for each generator monthly and on a 12-month rolling sum.

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

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

The permittee shall maintain daily records of the following, when in operation:

- (a) the date and the operating hours,
- (b) the amount of fuel consumed.

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.**# 009 [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(h)]

The permittee shall operate and maintain these generators in accordance with manufacturer's specifications to maintain compliance with the emission limitations.

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

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

The permittee shall operate and maintain these generators in accordance with manufacturer's specifications to maintain compliance with the emission limitations.

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: GR. 8

Group Description: Generators

Sources included in this group

ID	Name
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No Sources exist for this Group.

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

No person may permit the emission into the outdoor atmosphere of particulate matter from these generators at any time, in excess of 0.04 grains per dry standard cubic foot, pursuant to 25 Pa. Code § 123.13 (c)(1)(i).

002 [25 Pa. Code §123.21]**General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides from these generators in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

II. TESTING REQUIREMENTS.

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

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

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

The permittee shall monitor the following daily, when in operation:

- (a) the date and the operating hours,
- (b) the amount of fuel consumed.

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

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

The permittee shall maintain daily records of the following, when in operation:

- (a) the date and the operating hours,
- (b) the amount of fuel consumed.

**SECTION E. Source Group Restrictions.****V. REPORTING REQUIREMENTS.**

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

VI. WORK PRACTICE REQUIREMENTS.

005 [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(h)]

The permittee shall operate and maintain these generators in accordance with manufacturer's specifications to maintain compliance with the emission limitations.

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: GR. 9

Group Description: Incinerators (2)

Sources included in this group

ID	Name
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No Sources exist for this Group.

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: GR.7

Group Description: #6 boilers

Sources included in this group

ID	Name
----	------

No Sources exist for this Group.

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §123.11]****Combustion units**

A person may not permit the emission into the outdoor atmosphere of particulate matter from a combustion unit in excess of 0.4 pounds per million Btu of heat input, pursuant to 25 Pa. Code § 123.11(a)(1).

002 [25 Pa. Code §123.22]**Combustion units**

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from any combustion unit, in the Southeast Air Basin, in excess of 1.0 pounds per million Btu of heat input, pursuant to 25 Pa. Code § 123.22(e)(1).

Fuel Restriction(s).**# 003 [25 Pa. Code §123.22]****Combustion units**

No person may, at any time, offer for sale, deliver for use, exchange in trade or permit the use of commercial fuel oil, Grade No. 6, for use in combustion units in the Southeast Pennsylvania air basin which contains sulfur in excess of 0.5% by weight, pursuant to 25 Pa. Code § 123.22(e)(2).

Beginning July 1, 2016, the maximum sulfur content in commercial fuel oil shall not exceed 0.05% by weight, except as specified in subparagraphs (ii) and (iii) of 25 Pa. Code § 123.22(e)(2) .

II. TESTING REQUIREMENTS.**# 004 [25 Pa. Code §139.16]****Sulfur in fuel oil.**

(a) The following are applicable to the analysis of commercial fuel oil:

- (1) The fuel oil sample for chemical analysis shall be collected in a manner that provides a representative sample. Upon the request of a Department official, the person responsible for the operation of the source shall collect the sample employing the procedures and equipment specified in 25 Pa. Code § 139.4(10) (relating to references).
- (2) Test methods and procedures for the determination of sulfur shall be those specified in 25 Pa. Code § 139.4(12)--(15).
- (3) Test methods and procedures for the determination of viscosity shall be that specified in 25 Pa. Code § 139.4(11) (relating to references). The viscosity shall be determined at 100 F.
- (4) Results shall be reported in accordance with the units specified in 25 Pa. Code § 123.22 (relating to combustion units).

(b) The requirements in subpart (a), above, shall be waived in the event that a delivery receipt from the supplier, showing the maximum percent sulfur in the fuel, is obtained each time a fuel oil delivery is made.

**SECTION E. Source Group Restrictions.****III. MONITORING REQUIREMENTS.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The permittee shall monitor the following for each boiler associated with this Source ID:

- (a) the hours of operation, monthly and
- (b) the amount and type of fuel consumed monthly and on a 12 month rolling sum.

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

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

The permittee shall keep records of the following for each boiler associated with this Source ID:

- (a) the hours of operation, monthly and
- (b) the amount and type of fuel consumed monthly and on a 12 month rolling sum.

V. REPORTING REQUIREMENTS.

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

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

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

The permittee shall operate and maintain the boilers associated with this Source ID in accordance with manufacturer's specifications to maintain compliance with the sulfur oxides and particulate matter limitations.

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: SUBPART 5D

Group Description: only boiler 51 & 52

Sources included in this group

ID	Name
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No Sources exist for this Group.

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7500]****Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.****What emission limits, work practice standards, and operating limits must I meet?**

In accordance with 40 CFR Part 63 Subpart DDDDD, Table 2-Emission limits for existing boilers and process heaters, the permittee shall comply with following:

This boiler, by definition, falls in the following subcategories: Units designed to burn liquid fuel, light liquid and Gaseous fuel.

1. For the following pollutant: HCl (Liquid Fuel)

a. The emissions must not exceed the following emission limits, except during startup and shutdown: 1.1E-03 lb per MMBtu of heat input.

b. The emissions must not exceed the following alternative output-based limits, except during startup and shutdown: 1.4E-03 lb per MMBtu of steam output or 1.6E-02 lb per MWh.

c. Using this specified sampling volume or test run duration: for M26A, collect a minimum of 2 dscm per run; for M26, collect a minimum of 240 liters per run.

2. For the following pollutant: Mercury (Liquid Fuel)

a. The emissions must not exceed the following emission limits, except during startup and shutdown: 2.0E-06 lb per MMBtu of heat input.

b. The emissions must not exceed the following alternative output-based limits, except during startup and shutdown: 2.5E-06 lb per MMBtu of steam output or 2.8E-05 lb per MWh.

c. Using this specified sampling volume or test run duration: For M29, collect a minimum of 3 dscm per run; for M30A or M30B collect a minimum sample as specified in the method, for ASTM D6784 collect a minimum of 2 dscm.

3. For the following pollutant: CO (Light liquid fuel)

a. The emissions must not exceed the following emission limits, except during startup and shutdown: 130 ppm by volume on a dry basis corrected to 3 percent oxygen, 3-run average.

b. The emissions must not exceed the following alternative output-based limits, except during startup and shutdown: 0.13 lb per MMBtu of steam output or 1.4 lb per MWh; 3-run average.

c. Using this specified sampling volume or test run duration: 1 hr minimum sampling time.

4. For the following pollutant: Filterable PM (or TSM) Light liquid fuel

a. The emissions must not exceed the following emission limits, except during startup and shutdown: 7.9E-03 lb per MMBtu of heat input; or (6.2E-05 lb per MMBtu of heat input).

**SECTION E. Source Group Restrictions.**

b. The emissions must not exceed the following alternative output-based limits, except during startup and shutdown: 9.6E-03lb per MMBtu of steam output or 1.1E-01 lb per MWh; or (7.5E-05 lb per MMBtu of steam output or 8.6E-04 lb per MWh).

c. Using this specified sampling volume or test run duration: Collect a minimum of 3 dscm per run.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: SUBPART DC

Group Description: only source 53 NG

Sources included in this group

ID	Name
053	CLEAVER BROOKS 800 (BLDG 40)

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 the following:

- (a) the hours of operation, monthly, and
- (b) the fuel usage monthly and on a 12-month rolling sum.

[Compliance with paragraph (b) above, assures compliance with 40 C.F.R. § 60.48c(g)]

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

[Additional authority of this permit condition is also derived from 25 Pa. Code § 129.91-129.95]

The permittee shall keep records of the annual tune-up and any adjustments conducted under the tune-up procedures in a binder located on-site and/or in an equivalent electronic format, which include but not limited to:

- (a) the date of the tuning procedure,
- (b) the name of the service company and technicians,
- (c) the final operating rate or load,
- (d) the final CO and NOx emission rates, and
- (e) the final excess oxygen rate.

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

[Additional Authority for this permit condition is also derived from 40 C.F.R. § 60.48c]

The permittee shall maintain records to show compliance with all applicable requirements of 40 C.F.R. § 60.48c Subpart Dc and state requirements, which shall include but not limited to:

- (a) the parameters monitored to ensure compliance with the sulfur oxides, particulate matter and nitrogen oxides limitations,
- (b) all tests conducted,

**SECTION E. Source Group Restrictions.**

- (c) any malfunctions,
- (d) amount and type of fuel used monthly and on a 12-month rolling sum,
- (e) hours of operations, monthly.

V. REPORTING REQUIREMENTS.**# 004 [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 and 40 CFR § 60.4]

The permittee shall submit copies of all requests, reports, application, submittals, and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Director, Air Protection Division
U.S. EPA, Region III
1650 Arch Street
Philadelphia, PA 19107.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91 - 129.95]

The annual adjustment shall be made in accordance with EPA document "Combustion Efficiency Optimization Manual for Operators of Oil and Gas-fired Boilers," September 1983 EPA-340/1-83-023) or equivalent procedures approved in writing by the Department.

006 [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 boiler shall be equipped with low NOx burners with flue gas recirculation.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91 - 129.95]

The emissions of the Volatile Organic Compounds (VOCs) shall be minimized by annual combustion tuning and/or good operating practices.

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: SUBPART IIII

Group Description: Conditions other than emission standards

Sources included in this group

ID	Name
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No Sources exist for this Group.

I. RESTRICTIONS.**Fuel Restriction(s).****# 001 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4207]****Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject to**

[Additional Authority for this permit condition is also derived from 40 CFR 80.510(b)]

[This condition applies to the following emergency generators only: Caterpillar (3-3) 2500 kw, building 3 generator, indicated as No. 047q under this Source ID; building 38 generator 38-3, 1500 kw, indicated as No. 047p under this source ID; and the Onan (17) generator, 100 kw, building 17, indicated as No. 047r under this source ID.]

The permittee shall ensure that all diesel fuel meets the following per-gallon standards:

(1) Sulfur content.

(i) 15 ppm maximum for NR diesel fuel.

(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.

Operation Hours Restriction(s).**# 002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]****Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?**

[Additional Authority for this permit condition was derived from 40 C.F.R. § 60.4211(f)]

[This condition applies to the following emergency generators only: Caterpillar (3-3) 2500 kw, building 3 generator, indicated as No. 047q under this Source ID; building 38 generator 38-3, 1500 kw, indicated as No. 047p under this source ID; and the Onan (17) generator, 100 kw, building 17, indicated as No. 047r under this source ID.]

(a). These emergency generators shall be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine.

(b). Maintenance checks and readiness testing of such units is limited to 100 hours per year.

(c). There is no time limit on the use of emergency situations. The permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year.

003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]**Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?**

**SECTION E. Source Group Restrictions.**

[Additional Authority for this permit condition is also derived from 40 C.F.R. § 60.4211(f)]

The permittee may operate these emergency generators for any combination of the purposes listed below for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by 40 C.F.R. § 60.4211(f)(3) counts as part of the 100 hours per calendar year allowed by this condition.

(a) May be operated for maintenance checks and readiness testing,

(b) May be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see § 60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.

(c) May be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

[This condition applies to the following emergency generators only: Caterpillar (3-3) 2500 kw, building 3 generator, indicated as No. 047q under this Source ID; building 38 generator 38-3, 1500 kw, indicated as No. 047p under this source ID; and the Onan (17) generator, 100 kw, building 17, indicated as No. 047r under this source ID.]

004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]

Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

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

The permittee may operate these emergency generators up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and readiness-testing and emergency demand response.

[This condition applies to the following emergency generators only: Caterpillar (3-3) 2500 kw, building 3 generator, indicated as No. 047q under this Source ID; building 38 generator 38-3, 1500 kw, indicated as No. 047p under this source ID; and the Onan (17) generator, 100 kw, building 17, indicated as No. 047r under this source ID.]

005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]

Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

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

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

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

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

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

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

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

[This condition applies to the following emergency generators only: Caterpillar (3-3) 2500 kw, building 3 generator, indicated as No. 047q under this Source ID; building 38 generator 38-3, 1500 kw, indicated as No. 047p under this source ID; and the Onan (17) generator, 100 kw, building 17, indicated as No. 047r under this source ID.]

**SECTION E. Source Group Restrictions.****II. TESTING REQUIREMENTS.**

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

III. MONITORING REQUIREMENTS.

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

[This condition applies to the following emergency generators only: Caterpillar (3-3) 2500 kw, building 3 generator, indicated as No. 047q under this Source ID; building 38 generator 38-3, 1500 kw, indicated as No. 047p under this source ID; and the Onan (17) generator, 100 kw, building 17, indicated as No. 047r under this source ID.]

If you are an owner or operator of a stationary CI internal combustion engine equipped with a diesel particulate filter to comply with the emission standards in § 60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.

IV. RECORDKEEPING REQUIREMENTS.

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

[Additional Authority for this condition is derived from 40 C.F.R. § 60.4214(b) and (c)]

(a). The permittee shall keep records of the hours of operation for these emergency generators in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation and the reason the engine was in operation during that time.

(b). If the stationary CI internal combustion engine is equipped with a diesel particulate filter, the permittee shall keep records of any corrective action taken after the backpressure monitor has notified the permittee that the high backpressure limit of the engine is approached

[This condition applies to the following emergency generators only: Caterpillar (3-3) 2500 kw, building 3 generator, indicated as No. 047q under this Source ID; building 38 generator 38-3, 1500 kw, indicated as No. 047p under this source ID; and the Onan (17) generator, 100 kw, building 17, indicated as No. 047r under this source ID.]

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

The permittee shall keep records of the following information for each shipment of diesel fuel received for these generators, obtained either by laboratory analysis or from the fuel suppliers certification:

- (a). The sulfur content
- (b). The cetane index or the aromatic content

[This condition applies to the following emergency generators only: Caterpillar (3-3) 2500 kw, building 3 generator, indicated as No. 047q under this Source ID; building 38 generator 38-3, 1500 kw, indicated as No. 047p under this source ID; and the Onan (17) generator, 100 kw, building 17, indicated as No. 047r under this source ID.]

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

The permittee shall keep records on site to demonstrate compliance that these engines are EPA Tier II or III certified engines and are in compliance with the emission standards required by 40 C.F.R. § 60.4202(b).

[This condition applies to the following emergency generators only: Caterpillar (3-3) 2500 kw, building 3 generator, indicated as No. 047q under this Source ID; building 38 generator 38-3, 1500 kw, indicated as No. 047p under this source ID; and the Onan (17) generator, 100 kw, building 17, indicated as No. 047r under this source ID.]

V. REPORTING REQUIREMENTS.

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

**SECTION E. Source Group Restrictions.****VI. WORK PRACTICE REQUIREMENTS.**

**# 010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4209]
Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
What are the monitoring requirements if I am an owner or operator of a stationary CI internal combustion engine?**

[Additional Authority for this permit condition is derived from 40 C.F.R. § 60.4209(a)]

The permittee shall operate and maintain a non-resettable hour meter on the emergency generators subject to this condition.

[This condition applies to the following emergency generators only: Caterpillar (3-3) 2500 kw, building 3 generator, indicated as No. 047q under this Source ID; building 38 generator 38-3, 1500 kw, indicated as No. 047p under this source ID; and the Onan (17) generator, 100 kw, building 17, indicated as No. 047r under this source ID.]

**# 011 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]
Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?**

[This condition applies to the following emergency generators only: Caterpillar (3-3) 2500 kw, building 3 generator, indicated as No. 047q under this Source ID; building 38 generator 38-3, 1500 kw, indicated as No. 047p under this source ID; and the Onan (17) generator, 100 kw, building 17, indicated as No. 047r under this source ID.]

The permittee shall operate and maintain these emergency generators and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer.

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 F. Alternative Operation Requirements.**

No Alternative Operations exist for this permit.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Descriptor		
051	CLEAVER BROOKS 44 (BLDG 40)		
Emission Limit			
8.200	Tons/Yr	calculated on a 12-month rolling sum	NOX
30.000	PPMV	corrected to 3% oxygen	NOX
052	CLEAVER BROOKS 45 (BLDG 40)		
Emission Limit			
8.200	Tons/Yr	calculated on a 12-month rolling sum	NOX
30.000	PPMV	corrected to 3% oxygen	NOX
053	CLEAVER BROOKS 800 (BLDG 40)		
Emission Limit			
300.000	PPMV	corrected to 3% oxygen	CO
30.000	PPMV	corrected to 3% oxygen	NOX
047A	EGEN 1 (047I)		
Emission Limit			
0.040	gr/DRY FT3		PM10
500.000	PPMV		SO2
106	BLDG 40 EGEN 2		
Emission Limit			
0.080	Tons/Yr	calculated on a 12-month rolling sum	CO
0.620	Lbs/Hr		CO
1.710	Tons/Yr	calculated on a 12-month rolling sum	NOX
13.650	Lbs/Hr		NOX
0.010	Tons/Yr	calculated on a 12-month rolling sum	PM10
0.020	gr/DRY FT3		PM10
0.060	Lbs/Hr		PM10
0.050	Tons/Yr	calculated on a 12-month rolling sum	SO2
0.380	Lbs/Hr		SO2
500.000	PPMV		SO2
0.010	Tons/Yr	calculated on a 12-month rolling sum	VOC
0.080	Lbs/Hr		VOC

Site Emission Restriction Summary

Emission Limit	Pollutant	
10.000 Tons/Yr	for any single HAP	Hazardous Air Pollutants
25.000 Tons/Yr	for any combination of HAP's	Hazardous Air Pollutants



SECTION G. Emission Restriction Summary.

**SECTION H. Miscellaneous.**

The information in Section A is for informational purposes only.

(1) The following previously issued TVOP serves as the basis for certain terms and conditions set forth in this Operating Permit: TVOP No. 46-00035 (Source ID 051, 052, 053, 047A, 106 and 107)
PA 46-0030E (original plan approval for Source ID 106 - Bldg 40 EGEN 2)
GP1-46-0272 (original general permit for Source ID 053 - 32.7 MMBTU/HR Boiler)

(2) GSK Upper Merion Campus is split into three permits:
East TVOP No. 46-00298
West TVOP No. 46-00299
BioPharm TVOP No. 46-00300

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

- HCL Fume Hood (approved thru RFD 4126 on 2/5/2014)
- Lift Station EGEN (approved thru RFD 4264 on 3/7/2014)
- CO2 Venting (approved thru RFD 5914 on 9/29/2016)

The emissions from Upper Merion – East and Upper Merion – BioPharm will only be aggregated for purposes of New Source Review (NSR) and Prevention of Significant Deterioration (PSD) applicability.

AUTH: 1327197

This permit was amended to change the Responsible Official to Rachel Haddoack, Site Director.



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