



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

STATE ONLY SYNTHETIC MINOR OPERATING PERMIT

Issue Date: July 30, 2026

Effective Date: August 11, 2026

Expiration Date: August 10, 2031

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 unless otherwise designated.

State Only Permit No: 09-00184

Synthetic Minor

Federal Tax Id - Plant Code: 23-1352174-1

Owner Information

Name: PENN MEDICINE DOYLESTOWN HOSPITAL

Mailing Address: 595 W STATE ST
DOYLESTOWN, PA 18901-2554

Plant Information

Plant: PENN MEDICINE DOYLESTOWN HOSPITAL

Location: 09 Bucks County 09919 Doylestown Township

SIC Code: 8062 Services - General Medical And Surgical Hospitals

Responsible Official

Name: ERNEST WERNER

Title: SR EXEC DIR PROP MGMT

Phone: (215) 345 - 2354

Email: Ernest.Werner@PennMedicine.upenn.edu

Permit Contact Person

Name: ERNEST WERNER

Title: SR EXEC DIR PROP MGMT

Phone: (215) 345 - 2354

Email: Ernest.Werner@PennMedicine.upenn.edu

[Signature] _____

JILLIAN A. GALLAGHER, SOUTHEAST REGION AIR PROGRAM MANAGER



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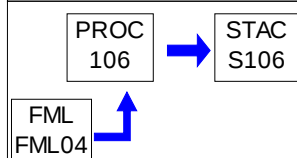
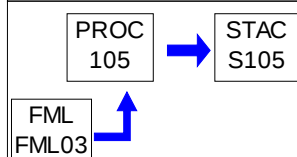
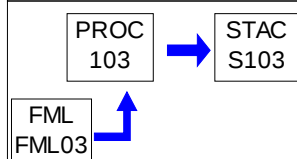
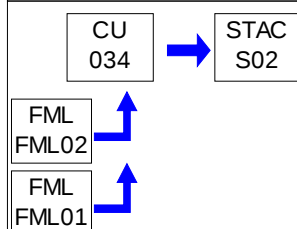
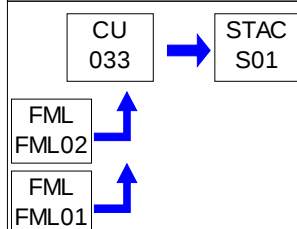
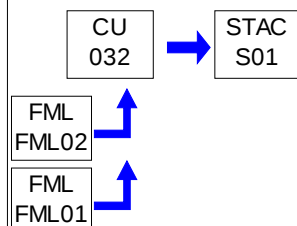
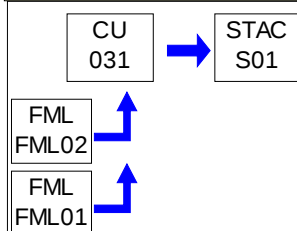
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput		Fuel/Material
031	CLEAVER BROOKS BOILER 1	8.369	MMBTU/HR	
		64.000	Gal/HR	#2 Oil
		8,125.000	CF/HR	Natural Gas
032	CLEAVER BROOKS BOILER 2	8.369	MMBTU/HR	
		8,125.000	CF/HR	Natural Gas
		64.000	Gal/HR	#2 Oil
033	CLEAVER BROOKS BOILER 3	8.369	MMBTU/HR	
		8,125.000	CF/HR	Natural Gas
		64.000	Gal/HR	#2 Oil
034	CLEAVER BROOKS BOILER 4	8.165	MMBTU/HR	
		8,165.000	CF/HR	Natural Gas
		58.300	Gal/HR	#2 Oil
103	600 KW CUMMINS DIESEL GENERATOR (1990)	40.000	Gal/HR	Diesel Fuel
105	150 KW MTU DIESEL GENERATOR (PARKING DECK)	3.700	Gal/HR	Diesel Fuel
106	1,000 KW CUMMINS DIESEL GENERATOR	72.200	Gal/HR	Diesel Fuel
107	CLARKE DIESEL FIRE PUMP ENGINE	3.800	Gal/HR	Diesel Fuel
108	DETROIT DIESEL FIRE PUMP ENGINE	1.000	Gal/HR	Diesel Fuel
109	1600 KW NATURAL GAS COGEN UNIT	17.528	MCF/HR	Natural Gas
110	CUMMINS GENERATOR	9.000	Gal/HR	Diesel Fuel
C109	COGEN UNIT OXIDATION CATALYST			
FML01	NATURAL GAS			
FML02	NO. 2 FUEL OIL			
FML03	DIESEL FUEL			
FML04	10,000 GALLON DIESEL UST			
FML05	500 GALLON DIESEL UST			
FML06	250 GALLON DIESEL AST			
S01	COMBINED BOILER STACK			
S02	BOILER #4 STACK			
S103	CUMMINS GENERATOR STACK			
S105	150 KW GENERATOR STACK			
S106	1,000 KW CUMMINS GENERATOR STACK			
S107	CLARKE FIRE PUMP ENGINE STACK			
S108	50 HP DIESEL FIRE PUMP ENGINE STACK			
S109	1600 KW COGEN UNIT STACK			
S110	CUMMINS GENERATOR STACK			

PERMIT MAPS

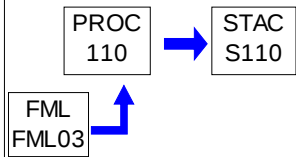
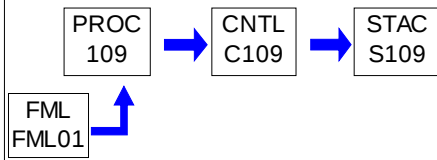
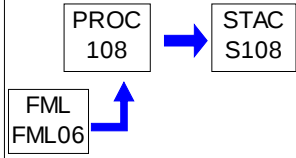
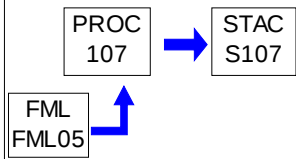


PERMIT MAPS





PERMIT MAPS



**SECTION B. General State Only 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 in 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 127.446]**Operating Permit Duration.**

- (a) 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.
- (b) The terms and conditions of the expired permit shall automatically continue pending issuance of a new operating 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.

#003 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446 & 127.703(b)]**Permit Renewal.**

- (a) The permittee shall submit a timely and complete application for renewal of the operating permit to the appropriate Regional Air Program Manager. The application for renewal of the operating permit shall be submitted at least six (6) months and not more than 18 months before the expiration date of this permit.
- (b) The application for permit renewal shall include the current permit number, a description of any permit revisions that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. 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.
- (c) The permittee shall submit with the renewal application a fee for the processing of the application as specified in 25 Pa. Code § 127.703(b). The fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" and submitted with the fee form to the respective regional office.
- (d) 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.
- (e) The application for renewal of the operating permit shall also include submission of supplemental compliance review forms in accordance with the requirements of 25 Pa. Code § 127.412(b) and § 127.412(j).
- (f) 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 as necessary to address any requirements that become applicable to the source after the permittee submits a complete application, but prior to the date the Department takes action on the permit application.

#004 [25 Pa. Code § 127.703]**Operating Permit Fees under Subchapter F.**

- (a) The permittee shall pay the annual operating permit maintenance fee according to the following fee schedule in either paragraph (1) or (2) in accordance with 25 Pa. Code § 127.703(d) on or before December 31 of each year for the next calendar year.
 - (1) For a synthetic minor facility, a fee equal to:
 - (i) Four thousand dollars (\$4,000) for calendar years 2021—2025.
 - (ii) Five thousand dollars (\$5,000) for calendar years 2026—2030.
 - (iii) Six thousand three hundred dollars (\$6,300) for the calendar years beginning with 2031.
 - (2) For a facility that is not a synthetic minor, a fee equal to:

**SECTION B. General State Only Requirements**

- (i) Two thousand dollars (\$2,000) for calendar years 2021—2025.
- (ii) Two thousand five hundred dollars (\$2,500) for calendar years 2026—2030.
- (iii) Three thousand one hundred dollars (\$3,100) for the calendar years beginning with 2031.

(b) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.

#005 [25 Pa. Code §§ 127.450 (a)(4) and 127.464]**Transfer of Operating Permits.**

(a) This operating permit may not be transferred to another person, except in cases of transfer-of-ownership that are documented and approved by the Department.

(b) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership of the source shall be treated as an administrative amendment if the Department determines that no other change in the permit is required and 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 a compliance review form has been submitted to, and the permit transfer has been approved by, the Department.

(c) This operating permit is valid only for those specific sources and the specific source locations described in this permit.

#006 [25 Pa. Code § 127.441 and 35 P.S. § 4008]**Inspection and Entry.**

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

(1) Enter at reasonable times upon the permittee's premises where a 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, at reasonable times, any records that are kept under the conditions of this permit;

(3) Inspect at reasonable times, any 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, any 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 or regulations adopted thereunder including denying the Department access to a source at this facility. Refusal of entry or access may constitute grounds for permit revocation and assessment of criminal and/or civil penalties.

(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.

#007 [25 Pa. Code §§ 127.441 & 127.444]**Compliance Requirements.**

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

- (1) Enforcement action

**SECTION B. General State Only Requirements**

(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 for the source is 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 State-Only permit. Nothing in this sub-condition shall be construed to create an independent affirmative duty upon the permittee to obtain a predetermination from the Department for physical configuration or engineering design detail changes made by the permittee.

#008 [25 Pa. Code § 127.441]**Need to Halt or Reduce Activity Not a Defense.**

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

#009 [25 Pa. Code §§ 127.442(a) & 127.461]**Duty to Provide Information.**

(a) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of each source at the facility.

(b) The permittee shall furnish to the Department, in writing, information that the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to maintain in accordance with this permit.

#010 [25 Pa. Code § 127.461]**Revising an Operating Permit for Cause.**

This operating permit may be terminated, modified, suspended or revoked and reissued if one or more of the following applies:

(1) The permittee constructs or operates the source subject to the operating permit so that it is in violation of the Air Pollution Control Act, the Clean Air Act, the regulations thereunder, a plan approval, a permit or in a manner that causes air pollution.

(2) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.

(3) The permittee has failed to submit a report required by the operating permit or an applicable regulation.

(4) The EPA determines that the permit is not in compliance with the Clean Air Act or the regulations thereunder.

#011 [25 Pa. Code §§ 127.450, 127.462, 127.465 & 127.703]**Operating Permit Modifications**

(a) The permittee is authorized to make administrative amendments, minor operating permit modifications and significant operating permit modifications, under this permit, as outlined below:

(b) Administrative Amendments. The permittee shall submit the application for administrative operating permit amendments (as defined in 25 Pa. Code § 127.450(a)), according to procedures specified in § 127.450 unless

**SECTION B. General State Only Requirements**

precluded by the Clean Air Act or its regulations.

(c) Minor Operating Permit Modifications. The permittee shall submit the application for minor operating permit modifications (as defined 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.

(d) Significant Operating Permit Modifications. The permittee shall submit the application for significant operating permit modifications in accordance with 25 Pa. Code § 127.465.

(e) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.

#012 [25 Pa. Code § 127.441]**Severability Clause.**

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

#013 [25 Pa. Code § 127.449]**De Minimis Emission Increases.**

(a) This permit authorizes de minimis emission increases in accordance with 25 Pa. Code § 127.449 so long as the permittee provides the Department with seven (7) days prior written notice before commencing any de minimis emissions increase. 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.

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

(c) Except as provided below in (d), the permittee is authorized 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, the regulations thereunder 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, the regulations thereunder or 25 Pa. Code Article III.

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

(d) In accordance with § 127.14, the permittee is authorized to install the following minor sources without the need for a plan approval or permit modification:

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

**SECTION B. General State Only Requirements**

- (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 or by commercial fuel oils which are No. 2 or lighter, viscosity less than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code §123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.
- (4) Space heaters which heat by direct heat transfer.
- (5) Laboratory equipment used exclusively for chemical or physical analysis.
- (6) Other sources and classes of sources determined to be of minor significance by the Department.
- (e) 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 (c)(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 this permit, the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.
- (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, installation of minor sources made pursuant to this permit condition and Plan Approval Exemptions under 25 Pa. Code § 127.14 (relating to exemptions), the permittee is prohibited from making 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.

#014 [25 Pa. Code § 127.3]**Operational Flexibility.**

The permittee is authorized to make changes within the facility in accordance with the regulatory provisions outlined in 25 Pa. Code § 127.3 (relating to operational flexibility) to implement the operational flexibility requirements provisions authorized under Section 6.1(i) of the Air Pollution Control Act and the operational flexibility terms and conditions of this permit. The provisions in 25 Pa. Code Chapter 127 which implement the operational flexibility requirements include the following:

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

**SECTION B. General State Only Requirements****#015 [25 Pa. Code § 127.11a]****Reactivation of Sources**

- (a) The permittee may not reactivate a source that has been out of operation or production for at least one year unless the reactivation is conducted in accordance with a plan approval granted by the Department or in accordance with reactivation and maintenance plans developed and approved by the Department in accordance with 25 Pa. Code § 127.11a(a).
- (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).

#016 [25 Pa. Code § 127.36]**Health Risk-based Emission Standards and Operating Practice Requirements.**

- (a) When needed to protect public health, welfare and the environment from emissions of hazardous air pollutants from new and existing sources, the permittee shall comply with the health risk-based emission standards or operating practice requirements imposed by the Department, except as precluded by §§ 6.6(d)(2) and (3) of the Air Pollution Control Act [35 P.S. § 4006.6(d)(2) and (3)].
- (b) A person challenging a performance or emission standard established by the Department has the burden to demonstrate that performance or emission standard does not meet the requirements of Section 112 of the Clean Air Act.

#017 [25 Pa. Code § 121.9]**Circumvention.**

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 25 Pa. Code Article III, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#018 [25 Pa. Code §§ 127.402(d) & 127.442]**Reporting Requirements.**

- (a) The permittee shall comply with the applicable reporting requirements of the Clean Air Act, the regulations thereunder, the Air Pollution Control Act and 25 Pa. Code Article III including Chapters 127, 135 and 139.
- (b) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of any air contamination source.
- (c) 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 in the permit transmittal letter, or otherwise notified)
- (d) Any records or information including applications, forms, or reports submitted pursuant to this permit condition shall contain a certification by a responsible official as to truth, accuracy and completeness. The certifications submitted under this permit shall require a responsible official of the facility to certify that based on information and belief formed after reasonable inquiry, the statements and information in the documents are true, accurate and complete.
- (e) Any records, reports or information submitted to the Department shall be available to the public except for such records, reports or information which meet the confidentiality requirements of § 4013.2 of the Air Pollution Control Act and §§ 112(d) and 114(c) of the Clean Air Act. The permittee may not request a claim of confidentiality for any emissions data generated for the facility.

**SECTION B. General State Only Requirements****#019 [25 Pa. Code §§ 127.441(c) & 135.5]****Sampling, Testing and Monitoring Procedures.**

(a) The permittee shall comply with the monitoring, recordkeeping or reporting requirements of 25 Pa. Code Chapter 139 and the other applicable requirements of 25 Pa. Code Article III and additional requirements related to monitoring, reporting and recordkeeping required by the Clean Air Act and the regulations thereunder including the Compliance Assurance Monitoring requirements of 40 CFR Part 64, where applicable.

(b) Unless alternative methodology is required by the Clean Air Act and regulations adopted thereunder, sampling, testing and monitoring required by or used by the permittee to demonstrate compliance with any applicable regulation or permit condition shall be conducted in accordance with the requirements of 25 Pa. Code Chapter 139.

#020 [25 Pa. Code §§ 127.441(c) and 135.5]**Recordkeeping.**

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

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

(c) The permittee shall maintain and make available to the Department upon request, records including computerized records that may be necessary to comply with the reporting, recordkeeping and emission statement requirements in 25 Pa. Code Chapter 135 (relating to reporting of sources). In accordance with 25 Pa. Code Chapter 135, § 135.5, such records may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions.

#021 [25 Pa. Code § 127.441(a)]**Property Rights.**

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

#022 [25 Pa. Code § 127.447]**Alternative Operating Scenarios.**

The permittee is authorized to make changes at the facility to implement alternative operating scenarios identified in this permit in accordance with 25 Pa. Code § 127.447.

#023 [25 Pa. Code § 121.7]**Prohibition of Air Pollution**

No person may permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. §§ 4001-4015).

**SECTION B. General State Only Requirements****#024 [25 Pa. Code §135.3]****Reporting**

(a) If the facility is a Synthetic Minor Facility, 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 of a Synthetic Minor Facility 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.

#025 [25 Pa. Code §135.4]**Report Format**

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

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

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

(1) Construction or demolition of buildings or structures.

(2) Grading, paving and maintenance of roads and streets.

(3) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.

(4) Clearing of land.

(5) Stockpiling of materials.

(6) Open burning operations, as specified in 25 Pa. Code § 129.14.

(7) N/A

(8) N/A

(9) Sources and classes of sources other than those identified in (1)-(8) of this condition, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:

(i) The emissions are of minor significance with respect to causing air pollution; and

(ii) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

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

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

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

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

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

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

(a) Equal to or greater than 20% for a period or periods aggregating more than three minutes in any 1 hour; or

(b) Equal to or greater than 60% at any time.

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

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

(a) When the presence of uncombined water is the only reason for failure of the emission to meet the limitations.

**SECTION C. Site Level Requirements**

(b) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.

(c) When the emission results from the sources specified in 25 Pa. Code § 123.1(a) (relating to prohibition of certain fugitive emissions).

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

The permittee shall limit the total Nitrogen Oxide (NO_x) emissions from this facility to 24.9 tons per year, calculated on a 12-month rolling sum basis.

007 [25 Pa. Code §129.14]**Open burning operations**

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

(a) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.

(b) Any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.

(c) A fire set for the prevention and control of disease or pests, when approved by the Department.

(d) A fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.

(e) A fire set for the purpose of burning domestic refuse, when the fire is on the premises of a structure occupied solely as a dwelling by two families or less and when the refuse results from the normal occupancy of the structure.

(f) A fire set solely for recreational or ceremonial purposes.

(g) A fire set solely for cooking food.

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

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

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

(c) The Department reserves the right to require exhaust stack testing of sources and control devices as necessary to verify emissions for purposes including determining the correct emission fee, malfunctions, or determining compliance with applicable requirements.

009 [25 Pa. Code §139.1]**Sampling facilities.**

Upon the request of the Department, the person responsible for a source shall provide adequate sampling ports, safe sampling platforms, and adequate utilities for the performance by the Department of tests on the source. The Department will set forth, in the request, the time period in which the facilities shall be provided, as well as the specifications for the

**SECTION C. Site Level Requirements**

facilities.

III. MONITORING REQUIREMENTS.**# 010 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

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

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

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

- (1) odors which may be objectionable (per 25 Pa. Code § 123.31);
- (2) visible emissions (per 25 Pa. Code §§ 123.41 and 123.42); and
- (3) fugitive particulate matter (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 accompanied with six (6) months of monitoring records, the Department will review and determine the feasibility of decreasing the monitoring frequency to weekly.

(d) After six (6) months of weekly monitoring, and upon the permittee's request accompanied with six (6) months of monitoring records, the Department will review and 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 the total NOx emissions from this facility on a monthly and 12-month rolling sum basis.

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

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

**SECTION C. Site Level Requirements**

- (a) The name and title of the company representative monitoring these instances.
- (b) The date and time of the observation.
- (c) A description of any emissions or malodors observed. If none are observed, record "NONE."
- (d) The possible cause(s) of the emissions or malodors.
- (e) Corrective action(s) taken to abate or mitigate each recorded deviation and to prevent future occurrences.

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

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

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

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

The permittee shall keep records of the total NO_x emissions from this facility on a monthly and 12-month rolling sum basis.

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

- (a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to DEP's 24-hour Emergency Hotline at 800.541.2050. A malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. An emergency is any situation arising from sudden and reasonably unforeseeable events beyond the control of the owner or operator of a facility which requires immediate corrective action to restore normal operation and which causes the emission source to exceed emissions, due to unavoidable increases in emissions attributable to the situation. An emergency shall not include situations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
- (b) When the malfunction, emergency or incident of excess emissions poses an imminent danger to the public health, safety, welfare, or environment, it shall be reported to the Department and the County Emergency Management Agency by telephone within one (1) hour after the discovery of the malfunction, emergency or incident of excess emissions. The owner or operator shall electronically submit any report of instances of such malfunctions, emergencies or incidents of excess emissions to the Department within three (3) business days of the telephone report.
- (c) The report shall describe the following:
 - (1) Name, permit or authorization number, and location of the facility;
 - (2) Nature and cause of the malfunction, emergency or incident;
 - (3) Date and time when the malfunction, emergency or incident was first observed;
 - (4) Expected duration of excess emissions;
 - (5) Estimated rate of emissions; and

**SECTION C. Site Level Requirements**

(6) Corrective actions or preventative measures taken.

(d) Any malfunction, emergency or incident of excess emissions that is not subject to the notice requirements of paragraph (b) of this condition shall be reported to the Department by telephone within 24 hours (or by 4:00 PM of the next business day, whichever is later) of discovery and in writing or electronically within five (5) business days of discovery. The report shall contain the same information required by paragraph (c), and any permit specific malfunction reporting requirements.

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

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

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

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this condition is also derived from 40 C.F.R. Part 68.]

(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 C.F.R. 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 C.F.R. Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 C.F.R. § 68.130 is present in a process in more than the threshold quantity at a 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 40 C.F.R. § 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 C.F.R. § 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 C.F.R. 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 C.F.R. § 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 this facility is subject to 40 C.F.R. 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 C.F.R. Part 68 by the date specified in 40 C.F.R. § 68.10(a); or,

(2) Certify that this facility is in compliance with all requirements of 40 C.F.R. Part 68 including the registration and

**SECTION C. Site Level Requirements**

submission of the RMP.

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

(f) When this facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and 40 C.F.R. Part 68, appropriate enforcement action will be taken by the Department if the permittee fails to submit a compliance schedule or fails to register and submit the RMP or a revised plan pursuant to 40 C.F.R. Part 68.

VI. WORK PRACTICE REQUIREMENTS.**# 018 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

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

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

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

(c) Paving and maintenance of roadways.

(d) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or by other means.

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

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

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

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

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

The permittee may not modify any air contaminant system identified in this permit, prior to obtaining Department approval, except those modifications authorized by Condition #013(g), of Section B, of this permit.

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

Beginning May 1, 2021, the permittee shall comply with the CSAPR rule as promulgated in 40 C.F.R. Parts 51, 52, 78 and 97 as published in the Federal Registrar, Vol. 86, No. 82, April 30, 2021.

023 [25 Pa. Code §145.2]**Definitions.**

The following terms are defined here, for use in this permit:

NOx allowance: An authorization by the Department under the NOx Budget Trading Program to emit up to 1 ton of NOx during the control period of the specified year or of any year thereafter, except as provided under 145.54(f) (relating to

**SECTION C. Site Level Requirements**

compliance). No provision of the NOx Budget Trading Program, any permit, or an exemption under 145.4(b) or 145.5 and no provision of law will be construed to limit the authority of the Department or the Administrator to terminate or limit the authorization, which does not constitute a property right. For the purposes of all sections of this subchapter except 145.41-145.43 and 145.88, NOx allowance also includes an authorization to emit up to 1 ton of NOx during the control period of the specified year or of any year thereafter by the Department or the Administrator.

VIII. COMPLIANCE CERTIFICATION.

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

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

**SECTION D. Source Level Requirements**

Source ID: 031

Source Name: CLEAVER BROOKS BOILER 1

Source Capacity/Throughput: 8.369 MMBTU/HR

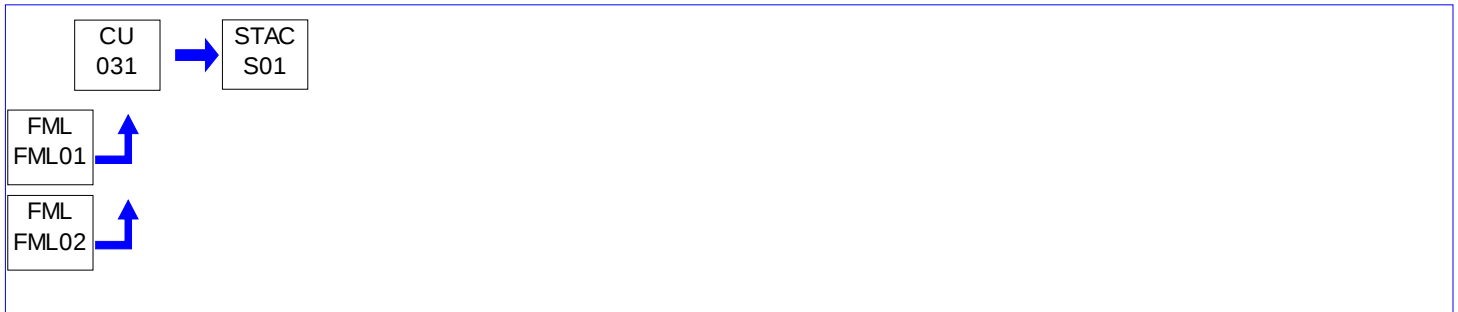
64.000 Gal/HR

#2 Oil

8,125.000 CF/HR

Natural Gas

Conditions for this source occur in the following groups: BOILERS

**I. RESTRICTIONS.**

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

VII. ADDITIONAL REQUIREMENTS.

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source consists of the following:

Make: Cleaver Brooks Horizontal Fire Tube Boiler

Model: CB100-200

**SECTION D. Source Level Requirements**

Rated Capacity: 8.369 MMBtu/hr

**SECTION D. Source Level Requirements**

Source ID: 032

Source Name: CLEAVER BROOKS BOILER 2

Source Capacity/Throughput:

8.369 MMBTU/HR

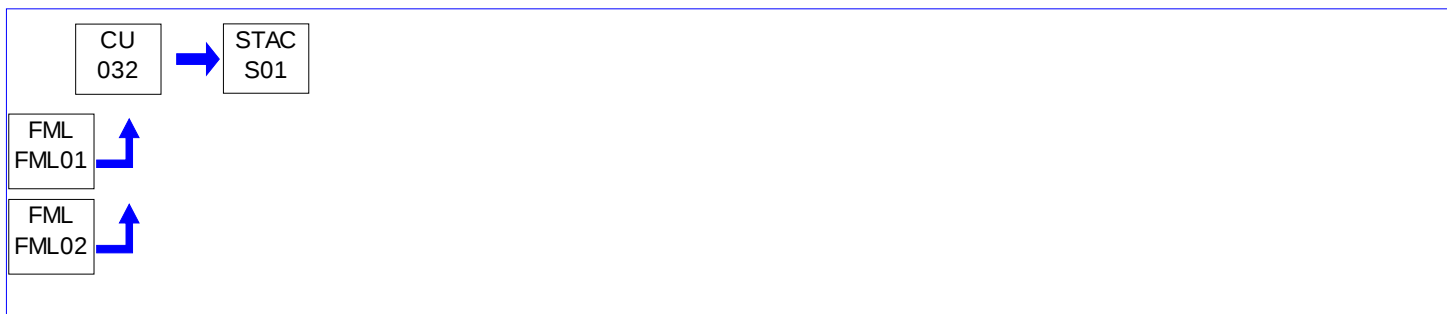
8,125.000 CF/HR

Natural Gas

64.000 Gal/HR

#2 Oil

Conditions for this source occur in the following groups: BOILERS

**I. RESTRICTIONS.**

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

VII. ADDITIONAL REQUIREMENTS.

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source consists of the following:

Make: Cleaver Brooks Horizontal Fire Tube Boiler

Model: CB100-200

**SECTION D. Source Level Requirements**

Rated Capacity: 8.369 MMBtu/hr

**SECTION D. Source Level Requirements**

Source ID: 033

Source Name: CLEAVER BROOKS BOILER 3

Source Capacity/Throughput:

8.369 MMBTU/HR

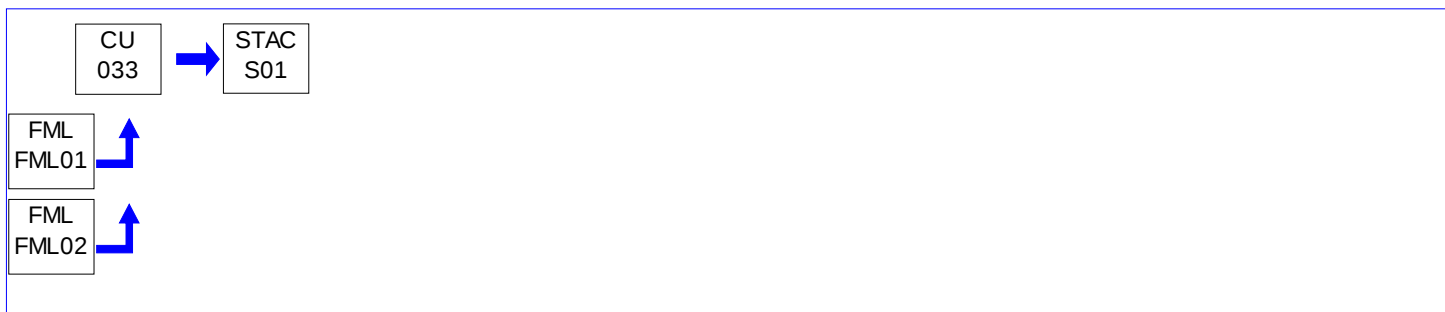
8,125.000 CF/HR

Natural Gas

64.000 Gal/HR

#2 Oil

Conditions for this source occur in the following groups: BOILERS

**I. RESTRICTIONS.**

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

VII. ADDITIONAL REQUIREMENTS.

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source consists of the following:

Make: Cleaver Brooks Horizontal Fire Tube Boiler

Model: CBEX-E200-200-150ST

**SECTION D. Source Level Requirements**

Rated Capacity: 8.369 MMBtu/hr

**SECTION D. Source Level Requirements**

Source ID: 034

Source Name: CLEAVER BROOKS BOILER 4

Source Capacity/Throughput: 8.165 MMBTU/HR

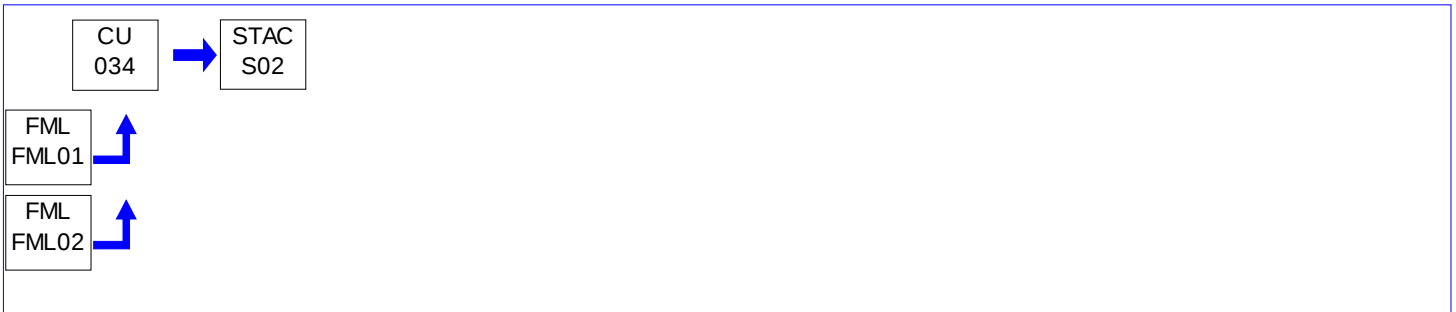
8,165.000 CF/HR

Natural Gas

58.300 Gal/HR

#2 Oil

Conditions for this source occur in the following groups: BOILERS

**I. RESTRICTIONS.**

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

VII. ADDITIONAL REQUIREMENTS.

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source consists of the following:

Make: Cleaver Brooks

Model: CB-200-200-1505T

**SECTION D. Source Level Requirements**

Rated Capacity: 8.165 MMBtu/hr

**SECTION D. Source Level Requirements**

Source ID: 103

Source Name: 600 KW CUMMINS DIESEL GENERATOR (1990)

Source Capacity/Throughput:

40.000 Gal/HR

Diesel Fuel

Conditions for this source occur in the following groups: GENERATORS

**I. RESTRICTIONS.**

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

VII. ADDITIONAL REQUIREMENTS.

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source consists of the following:

Make: Cummins

Engine No.: 25172417

Model: VTA28G2, manufactured June 1990, 900 hp

Input: 5.52 MMBtu/hr

Output: 600 kW

**SECTION D. Source Level Requirements**

Source ID: 105

Source Name: 150 KW MTU DIESEL GENERATOR (PARKING DECK)

Source Capacity/Throughput:

3.700 Gal/HR

Diesel Fuel

Conditions for this source occur in the following groups: GENERATORS
NSPS SUBPART IIII

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

001 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4205]
Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal combustion engine?
Exhaust opacity from the engine of this emergency generator shall not exceed the following, when operating:

- (1) 20 percent during the acceleration mode;
- (2) 15 percent during the lugging mode; and
- (3) 50 percent during the peaks in either the acceleration or lugging modes.

II. TESTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4205]
Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal combustion engine?

**SECTION D. Source Level Requirements**

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

The engine of this emergency generator is subject to the following emission standards, as outlined in Table 1 of 40 C.F.R. § 89.112 for engines rated between 130 kW and 225 kW (Tier 3):

NMHC+NOx: 4.0 g/kW-hr
CO: 3.5 g/kW-hr
PM: 0.2 g/kW-hr

NMHC+NOx: Non-Methane Hydrocarbon plus Nitrogen Oxides

CO: Carbon Monoxide

PM: Particulate Matter

(The purchase of an engine certified to these limits satisfies this condition.)

VII. ADDITIONAL REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source consists of a 150 kW Emergency Generator manufactured by MTU Onsite Energy, Model 15ORJC6DT3, and is located on the parking deck.

**SECTION D. Source Level Requirements**

Source ID: 106

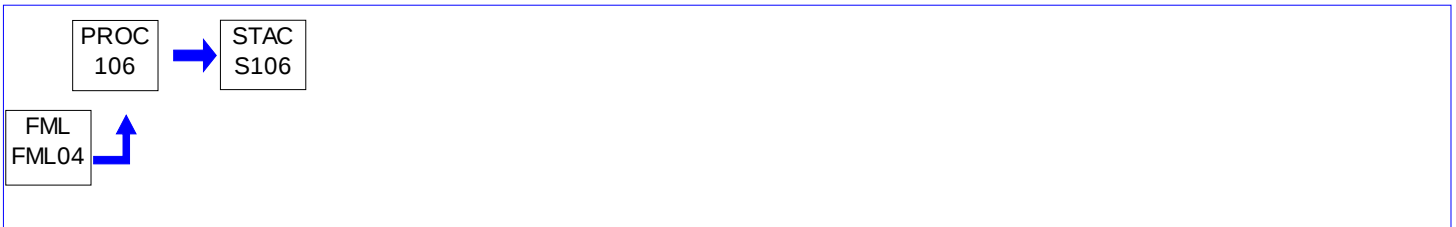
Source Name: 1,000 KW CUMMINS DIESEL GENERATOR

Source Capacity/Throughput:

72.200 Gal/HR

Diesel Fuel

Conditions for this source occur in the following groups: GENERATORS
NSPS SUBPART IIII

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

001 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4205]
Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal co
Exhaust opacity from the engine of this emergency generator shall not exceed the following, when operating:

- (1) 20 percent during the acceleration mode;
- (2) 15 percent during the lugging mode; and
- (3) 50 percent during the peaks in either the acceleration or lugging modes.

II. TESTING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

The permittee shall maintain records to demonstrate compliance with the requirements of 25 Pa. Code §§ 129.203 - 129.204.

V. REPORTING REQUIREMENTS.

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

**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 003 [25 Pa. Code §129.203]****Stationary internal combustion engines.**

(a) By October 31 of each year, 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 the same 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 for compression ignition stationary internal combustion engines of 2.3 grams of NO_x per brake horsepower-hour.

004 [25 Pa. Code §129.204]**Emission accountability.**

(a) If the affected source(s) has NO_x CEMS, the permittee shall determine actual emissions in accordance with the CEMS data reported to the Department. 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.

(b) If the permittee 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:

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

(2) The maximum hourly allowable NO_x emission rate contained in the permit or the higher of the following:

(i) 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."

(ii) 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.

(3) CEMS data, if the permittee elects to monitor NO_x emissions with a CEMS. The permittee shall monitor emissions and report the data from the CEMS in accordance with 25 Pa. Code Chapter 139 or Chapter 145 (relating to interstate pollution transport reduction). Any data invalidated under 25 Pa. Code Chapter 139 shall be substituted with data calculated using the potential emission rate for the unit or, if approved by the Department in writing, an alternative amount of emissions that is more representative of actual emissions that occurred during the period of invalid data.

(4) An alternate calculation and recordkeeping procedure based upon emissions testing and correlations with operating parameters. The permittee 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 permittee may request an adjustment to the allowable emissions calculations set forth in 25 Pa. Code § 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.

005 [25 Pa. Code §129.204]**Emission accountability.**

(a) The permittee shall surrender to the Department one CAIR NO_x allowance and one CAIR NO_x Ozone Season allowance, as defined in 40 C.F.R. 96.102 and 96.302 (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 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

**SECTION D. Source Level Requirements**

exceed the combined actual emissions from units subject to this section at the facility during the same period, the permittee may deduct the difference or any portion of the difference from the amount of actual emissions from units subject to this section at the permittee's other facilities.

(c) By November 1 of each year, the permittee 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 the permittee fails to comply with subsection (c), the permittee 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 (d) does not affect the liability of the permittee 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 permittee demonstrates that a lesser number of days should be considered.

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

[Note: On July 6, 2011, EPA promulgated the Cross-State Air Pollution Rule (CSAPR) to replace CAIR. The CSAPR provisions of 40 C.F.R. Part 97, Subpart AAAAA (relating to CSAPR NOx Annual Trading Program), replaced the provisions of 40 C.F.R. Part 96, Subpart AA (relating to CAIR NOx Annual Trading Program General Provisions), and remain in effect. On October 26, 2016, EPA promulgated the CSAPR Update to establish the provisions of 40 C.F.R. Part 97, Subpart EEEEE (relating to CSAPR NOx Ozone Season Group 2 Trading Program), to replace the previously-established CAIR NOx Ozone Season Trading Program and CSAPR NOx Ozone Season Group 1 Trading Program for certain states, including Pennsylvania, beginning with the 2017 ozone season. On April 30, 2021, EPA promulgated the Revised CSAPR Update to establish the provisions of 40 C.F.R. Part 97, Subpart GGGGG (relating to CSAPR NOx Ozone Season Group 3 Trading Program), to replace the provisions of 40 C.F.R. Part 97, Subpart EEEEE, for certain states, including Pennsylvania, beginning with the 2021 ozone season (though DEP will accept CSAPR NOx Ozone Season Group 2 allowances of current year vintage from other states, if available). On November 6, 2024, EPA revised 40 C.F.R. Part 97 Subpart GGGGG to include the new CSAPR NOx Ozone Season Expanded Group 2 Allowances. Accordingly, the permittee shall surrender CSAPR NOx Annual allowances and either CSAPR NOx Ozone Season Group 2 allowances or CSAPR NOx Ozone Season Group 3 allowances, as defined in 40 C.F.R. §§ 97.402, 97.802, and 97.1002, respectively, instead of the CAIR NOx allowances and CAIR NOx Ozone Season allowances indicated in 25 Pa. Code § 129.204(c), as the latter are no longer available.]

006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4205]

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

What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal combustion engine?

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

The engine of this emergency generator is subject to the following emission standards, as outlined in Table 1 of 40 C.F.R. § 89.112 for engines rated greater than 560 kW (Tier 2):

NMHC+NOx: 6.4 g/kW-hr
CO: 3.5 g/kW-hr
PM: 0.2 g/kW-hr

NMHC+NOx: Non-Methane Hydrocarbon plus Nitrogen Oxides
CO: Carbon Monoxide
PM: Particulate Matter

**SECTION D. Source Level Requirements**

(The purchase of an engine certified to these limits satisfies the this condition.)

VII. ADDITIONAL REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source consists of a 1,000 kW (1,490 HP) Emergency Generator manufactured by Cummins, Model DQFAD-G5NRZ.

**SECTION D. Source Level Requirements**

Source ID: 107

Source Name: CLARKE DIESEL FIRE PUMP ENGINE

Source Capacity/Throughput:

3.800 Gal/HR

Diesel Fuel

Conditions for this source occur in the following groups: GENERATORS
NSPS SUBPART IIII

**I. RESTRICTIONS.**

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

VI. WORK PRACTICE REQUIREMENTS.**# 001 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4205]****Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal combustion engine?**

[Additional authority for this permit condition is derived from 40 C.F.R. § 60.4205(c).]

This fire pump engine is subject to the following emission standards, as outlined in Table 4 of 40 C.F.R. Part 63, Subpart ZZZZ:

NMHC+NOx: 10.5 g/kW-hr

CO: 5.5 g/kW-hr

PM: 0.8 g/kW-hr

NMHC+NOx: Non-Methane Hydrocarbon plus Nitrogen Oxides

**SECTION D. Source Level Requirements**

CO: Carbon Monoxide
PM: Particulate Matter

(The purchase of an engine certified to these limits satisfies this condition.)

VII. ADDITIONAL REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source consists of a 3.8 gph Diesel Driven Fire Pump Engine, manufactured by Clarke-Detroit, Model JU4H-UF58.

**SECTION D. Source Level Requirements**

Source ID: 108

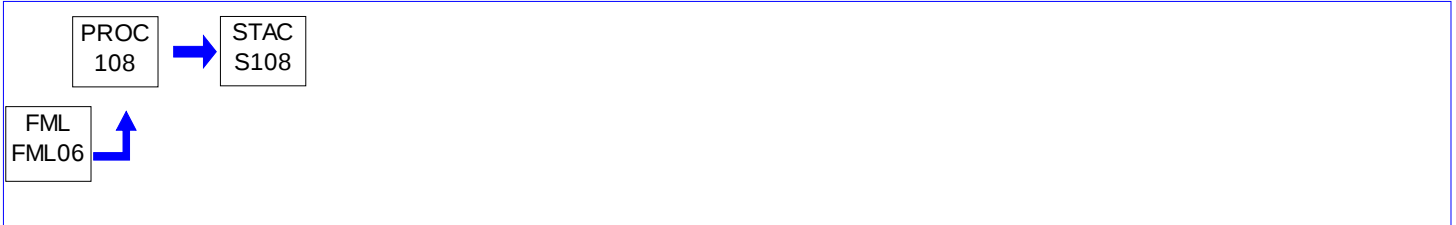
Source Name: DETROIT DIESEL FIRE PUMP ENGINE

Source Capacity/Throughput:

1.000 Gal/HR

Diesel Fuel

Conditions for this source occur in the following groups: GENERATORS

**I. RESTRICTIONS.**

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

VII. ADDITIONAL REQUIREMENTS.

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source consists of a 50 HP Diesel Driven Fire Pump Engine, manufactured by Detroit Diesel, Model 371.

**SECTION D. Source Level Requirements**

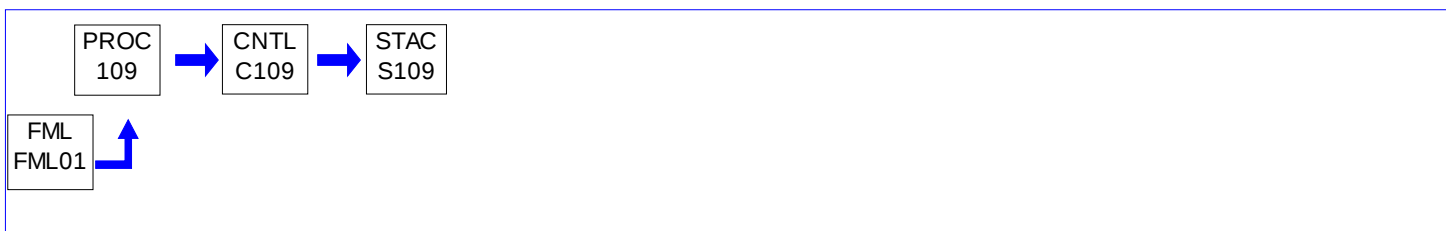
Source ID: 109

Source Name: 1600 KW NATURAL GAS COGEN UNIT

Source Capacity/Throughput:

17.528 MCF/HR

Natural Gas

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.21]****General**

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

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

The permittee shall limit the emissions of the pollutants listed below from the engine at all times, when operating:

(a) Nitrogen Oxides (NO_x):

- (i) 0.50 g/bhp-hr;
- (ii) 2.55 pounds/hr; and
- (iii) 11.16 tons per year calculated as a 12-month rolling sum.

(b) Carbon Monoxide (CO):

- (i) 47 ppmvd corrected to 15% O₂, or 93% removal efficiency;
- (ii) 1.11 pounds/hr; and
- (iii) 4.84 tons per year calculated as a 12-month rolling sum.

(c) Volatile Organic Compounds (NMNEHC, excluding HCHO):

- (i) 0.25 g/bhp-hr;
- (ii) 0.99 pounds/hr; and
- (iii) 4.35 tons per year calculated as a 12-month rolling sum.

(d) Formaldehyde (HCHO):

- (i) 0.05 g/bhp-hr,
- (ii) 0.26 pounds/hr; and
- (iii) 1.12 tons per year calculated as a 12-month rolling sum.

[Compliance with the above emission standards assures compliance with the emission standards specified by 40 C.F.R. § 60.4233(e) and in Table 1 of NSPS Subpart JJJJ for Non-Emergency SI Natural Gas engines greater than 500 HP.]

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

No person may permit the emission into the outdoor atmosphere of particulate matter from this source in excess of 0.02 gr/dscf.

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

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 10% for a period or periods aggregating more than three minutes in any 1 hour.
- (b) Equal to or greater than 30% at any time.

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

The permittee shall use only utility-supplied natural gas as fuel for this engine.

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

[Additional authority for this permit condition is obtained from 40 C.F.R. § 60.4243(b)(2)(ii).]

- (a) The permittee shall perform a stack test using Department-approved procedures once every 8,760 hours or three (3) calendar years, whichever comes first, where three (3) calendar years is defined as beginning with the calendar year the latest stack test was performed and ending on December 31, three (3) years later. In accordance with 25 Pa. Code § 139.11(1), performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department. Refer to PADEP Source Testing Program website online for further information related to source testing including Source Testing FAQ and the PADEP Source Testing Manual.
- (b) The stack test shall, at a minimum, test for NO_x, CO, and VOC. Tests shall be conducted in accordance with Department approved methodology, 40 C.F.R. Part 60, Subpart JJJJ, and 25 Pa. Code Chapter 139. Tests shall also be conducted in accordance with the provisions of the current version of the DEP Source Testing Manual and the EPA Clean Air Act National Stack Testing Guidance.
- (c) At least ninety (90) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.
- (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) (unless a more stringent regulatory requirement applies), an electronic copy 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.

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

The permittee shall perform monthly engine oil sampling and analysis to ensure that any lubricating oil contaminants are maintained at appropriate levels and that the lubricating oil is changed if necessary. The following compounds shall be included in the periodic sampling and analysis program:

- (i) Ag - Silver

**SECTION D. Source Level Requirements**

- (ii) Al - Aluminum
- (iii) B - Boron
- (iv) Cr - Chromium
- (v) Cu - Copper
- (vi) Fe - Iron
- (vii) K - Potassium
- (viii) Mo - Molybdenum
- (ix) Na - Sodium
- (x) Ni - Nickel
- (xi) Pb - Lead
- (xii) Si - Silicon
- (xiii) Sn - Tin
- (xiv) Ti - Titanium
- (xv) V - Vanadium

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

Southeast Region
RA-EPSEstacktesting@pa.gov

Central Office
RA-EPstacktesting@pa.gov

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

1. Test Date(s)

- a. For protocols, provide the proposed date on which testing will commence or "TBD"
- 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 C.F.R. 60, Subpart JJJJ)
- d. Special purpose(s) (Consent Order, RFD, RACT, Tier II, etc.)

(c) If confidential information must be submitted, submit both a public copy, which has been redacted, and a confidential copy. The cover page of each submittal should state whether it is a "Public Copy" or "Confidential Copy" and each page of the latter must be marked "CONFIDENTIAL".

**SECTION D. Source Level Requirements**

009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4244]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

What test methods and other procedures must I use if I am an owner or operator of a stationary SI internal combustion engine?

The permittee shall follow the testing requirements specified in 40 C.F.R. § 60.4244 and those specified in Table 2 of NSPS Subpart JJJJ for measuring NO_x, CO, and VOC.

III. MONITORING REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following for this source and control device, when operating:

- (a) Hours of operation, including hours used for maintenance and testing, on a daily basis.
- (b) Temperature of the exhaust gas at the inlet and at the outlet of the oxidation catalyst on a continuous basis (once every 15 minutes).
- (c) Pressure drop across the oxidation catalyst, on a daily basis.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the NO_x, CO, VOC, and Formaldehyde emissions for this source on a monthly and 12-month rolling sum basis.

IV. RECORDKEEPING REQUIREMENTS.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the NO_x, CO, VOC, and Formaldehyde emissions for this source on a monthly and 12-month rolling sum basis.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the following for this source and control device for all hours of operation, including those used for maintenance and testing:

- (a) Hours of operation, including those used for maintenance and testing, on a daily basis.
- (b) Temperature of the exhaust gas at the inlet and at the outlet of the oxidation catalyst on a continuous basis (once every 15 minutes).
- (c) Pressure drop across the oxidation catalyst, on a daily basis.
- (d) Monthly engine oil sampling and analysis and any oil changes that were performed.

014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4245]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary SI internal combustion engine?

[Authority for this permit condition is obtained from 40 C.F.R. § 60.4245(a).]

The permittee shall keep records of all notifications, maintenance conducted on the engine, and supporting documentation demonstrating that the engine meets the applicable emission standards of the NSPS Subpart JJJJ.

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.****# 015 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4245]****Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary SI internal combustion engine?**

[Authority for this permit condition is obtained from 40 C.F.R. § 60.4245(c).]

The permittee shall submit an initial notification in accordance with § 60.7(a)(1), a notification of the date of construction. The notification shall be postmarked no later than 30 days after the date of construction and must include:

- (a) Name and address of the owner and operator;
- (b) Address of the source;
- (c) Engine information, including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;
- (d) Emission control equipment; and
- (e) Fuel used.

VI. WORK PRACTICE REQUIREMENTS.**# 016 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

This source shall be operated and maintained in a manner consistent with good operating and maintenance practices, and in accordance with the manufacturer's specifications.

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

(a) When operating, the minimum exhaust gas temperature at the inlet of the oxidation catalyst, as measured in the center of the exhaust stream shall be 482°F and the maximum exhaust temperature at the inlet of the oxidation catalyst shall not exceed 1,078°F.

(b) The exhaust gas temperature at the outlet of the oxidation catalyst shall not exceed 1,114°F, when operating.

(c) The permittee shall install a safety trigger to shut down the source in the event of excessive temperatures at the catalyst outlet.

(d) The pressure drop across the oxidation catalyst shall be maintained between 2 to 8 inches water column at all times when operating.

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

The permittee shall follow the manufacturer's specifications when choosing engine lubricating oil. Engine lubricating oil shall be low phosphorous, low ash, and compatible with exhaust catalyst specifications.

The permittee shall change engine oil in accordance with the manufacturer's recommended maintenance plan.

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

(a) The source shall be equipped with temperature sensors (thermocouple or equivalent) in the exhaust streams entering and exiting the oxidation catalyst. The temperature sensors shall display the temperature of the exhaust gas streams in an area accessible to Department personnel.

(b) The source shall be equipped with a differential pressure gauge (manometer or equivalent) to measure the pressure drop across the oxidation catalyst unit. The differential pressure gauge shall be located in an area that is accessible to

**SECTION D. Source Level Requirements**

Department personnel.

(c) The source shall be equipped with an alarm to monitor backpressure. The alarm shall alert the owner or operator that the catalyst is fouled and requires cleaning.

(d) The source shall be equipped with an alarm to indicate if the temperature of the exhaust gases entering the oxidation catalyst unit exceeds 1,200° Fahrenheit. The alarm shall indicate that an emergency shutdown of the engine is required.

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

This source shall be installed with a non-resettable hour meter.

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

The oxidation catalyst shall be operated and maintained in accordance with the manufacturer's specifications and maintenance plan, which may include the inspection, cleaning, sampling and testing, and/or replacement of the catalyst, as necessary.

022 [25 Pa. Code §129.203]**Stationary internal combustion engines.**

(a) By October 31 of each year, 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 the same 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 for spark ignition stationary internal combustion engines of 3.0 grams of NO_x per brake horsepower-hour.

023 [25 Pa. Code §129.204]**Emission accountability.**

(a) If the affected source(s) has NO_x CEMS, the permittee shall determine actual emissions in accordance with the CEMS data reported to the Department. 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.

(b) If the permittee 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:

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

(2) The maximum hourly allowable NO_x emission rate contained in the permit or the higher of the following:

(i) 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."

(ii) 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.

(3) CEMS data, if the permittee elects to monitor NO_x emissions with a CEMS. The permittee shall monitor emissions and report the data from the CEMS in accordance with 25 Pa. Code Chapter 139 or Chapter 145 (relating to interstate pollution transport reduction). Any data invalidated under 25 Pa. Code Chapter 139 shall be substituted with data calculated using the potential emission rate for the unit or, if approved by the Department in writing, an alternative amount of emissions that is more representative of actual emissions that occurred during the period of invalid data.

(4) An alternate calculation and recordkeeping procedure based upon emissions testing and correlations with operating parameters. The permittee shall demonstrate that the alternate procedure does not underestimate actual emissions

**SECTION D. Source Level Requirements**

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 permittee may request an adjustment to the allowable emissions calculations set forth in 25 Pa. Code § § 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.

024 [25 Pa. Code §129.204]**Emission accountability.**

(a) The permittee shall surrender to the Department one CAIR NO_x allowance and one CAIR NO_x Ozone Season allowance, as defined in 40 C.F.R. 96.102 and 96.302 (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 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 permittee may deduct the difference or any portion of the difference from the amount of actual emissions from units subject to this section at the permittee's other facilities.

(c) By November 1 of each year, the permittee 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.

(d) If the permittee fails to comply with subsection (c), the permittee 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.

(e) The surrender of NO_x allowances under subsection (d) does not affect the liability of the permittee 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 permittee demonstrates that a lesser number of days should be considered.

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

[Note: On July 6, 2011, EPA promulgated the Cross-State Air Pollution Rule (CSAPR) to replace CAIR. The CSAPR provisions of 40 C.F.R. Part 97, Subpart AAAAA (relating to CSAPR NO_x Annual Trading Program), replaced the provisions of 40 C.F.R. Part 96, Subpart AA (relating to CAIR NO_x Annual Trading Program General Provisions), and remain in effect. On October 26, 2016, EPA promulgated the CSAPR Update to establish the provisions of 40 C.F.R. Part 97, Subpart EEEEE (relating to CSAPR NO_x Ozone Season Group 2 Trading Program), to replace the previously-established CAIR NO_x Ozone Season Trading Program and CSAPR NO_x Ozone Season Group 1 Trading Program for certain states, including Pennsylvania, beginning with the 2017 ozone season. On April 30, 2021, EPA promulgated the Revised CSAPR Update to establish the provisions of 40 C.F.R. Part 97, Subpart GGGGG (relating to CSAPR NO_x Ozone Season Group 3 Trading Program), to replace the provisions of 40 C.F.R. Part 97, Subpart EEEEE, for certain states, including Pennsylvania, beginning with the 2021 ozone season (though DEP will accept CSAPR NO_x Ozone Season Group 2 allowances of current year vintage from other states, if available). On November 6, 2024, EPA revised 40 C.F.R. Part 97 Subpart GGGGG to include the new CSAPR NO_x Ozone Season Expanded Group 2 Allowances. Accordingly, the permittee shall surrender CSAPR NO_x Annual allowances and either CSAPR NO_x Ozone Season Group 2 allowances or CSAPR NO_x Ozone Season Group 3 allowances, as defined in 40 C.F.R. §§ 97.402, 97.802, and 97.1002, respectively, instead of the CAIR NO_x allowances and CAIR NO_x Ozone Season allowances indicated in 25 Pa. Code § 129.204(c), as the latter are no longer available.]

**SECTION D. Source Level Requirements**

025 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4234]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

How long must I meet the emission standards if I am an owner or operator of a stationary SI internal combustion engine?

The permittee shall maintain compliance with the applicable emission standards from Table 1 of NSPS Subpart JJJJ for non-emergency spark-ignited natural gas-fired engines for the life of the engine.

026 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4243]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

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

[Authority for this permit condition is obtained from 40 C.F.R. § 60.4243(b)(2)(ii).]

The permittee shall keep a maintenance plan and to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.

027 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source consists of:

(a) One (1) Caterpillar G3516C natural gas-fired engine, rated at 2,311 BHP, with a fuel throughput of 17,528 scf/hr. 2015 model year.

(b) An Oxidation Catalyst, manufactured by Clariant, EnviCat Oxidation/3-Way Catalyst, Model EnviCat-5314 (39.4 x 3.5 x 1).

028 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source is subject to the federal New Source Performance Standards for Stationary Spark Ignition Internal Combustion Engines (40 C.F.R. Part 60, Subpart JJJJ). The permittee shall comply with all applicable requirements. Compliance with 40 C.F.R. Part 60, Subpart JJJJ meets the requirements of 40 C.F.R. Part 63, Subpart ZZZZ as allowed by 40 C.F.R. Part 63.6590 (c)(1).

**SECTION D. Source Level Requirements**

Source ID: 110

Source Name: CUMMINS GENERATOR

Source Capacity/Throughput:

9.000 Gal/HR

Diesel Fuel

Conditions for this source occur in the following groups: NSPS SUBPART IIII

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.21]****General**

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

002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4205]**Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal co**

Exhaust opacity from the engine of this emergency generator shall not exceed the following, when operating:

- (1) 20 percent during the acceleration mode;
- (2) 15 percent during the lugging mode; and
- (3) 50 percent during the peaks in either the acceleration or lugging modes.

Fuel Restriction(s).**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

This engine shall only be fired on diesel fuel.

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

The permittee shall limit the hours of operation to no more than 500 hours during any consecutive twelve (12) month period for this engine.

II. TESTING REQUIREMENTS.**# 005 [25 Pa. Code §139.16]****Sulfur in fuel oil.**

(a) 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 25 Pa. Code § 139.4(10) (relating to references).

(2) 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.

**SECTION D. Source Level Requirements**

(3) Tests methods and procedures for the determination of sulfur shall be those specified in 25 Pa. Code § 139.4(12)--(15) and (20).

(4) Results shall be reported in accordance with the units specified in 25 Pa. Code § 123.22 (relating to combustion units).

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

III. MONITORING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the hours of operation and fuel usage, including use for maintenance and testing, of the engine on a monthly and 12-month rolling sum basis.

IV. RECORDKEEPING REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the hours of operation and fuel usage, including use for maintenance and testing, of the engine on a monthly and 12-month rolling sum basis.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4205]

Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal combustion engine?**

The engine of this emergency generator is subject to the following emission standards, as outlined in Table 2 to Appendix I of 40 C.F.R. Part 1039 for engines rated greater than 560 kW (Tier 2):

NMHC+NOx: 6.4 g/kW-hr
CO: 3.5 g/kW-hr
PM: 0.2 g/kW-hr

NMHC+NOx: Non-Methane Hydrocarbon plus Nitrogen Oxides
CO: Carbon Monoxide
PM: Particulate Matter

(The purchase of an engine certified to these limits satisfies this condition.)

VII. ADDITIONAL REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source consists of a 755 BHP Emergency Generator manufactured by Cummins, Model No. 500DFEK-5786, and Serial No. G070077921.

**SECTION E. Source Group Restrictions.**

Group Name: BOILERS

Group Description: Boilers

Sources included in this group

ID	Name
031	CLEAVER BROOKS BOILER 1
032	CLEAVER BROOKS BOILER 2
033	CLEAVER BROOKS BOILER 3
034	CLEAVER BROOKS BOILER 4

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 1.2 pounds per million Btu of heat input, pursuant to 25 Pa. Code § 123.22(e)(1).

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

The permittee shall limit total NO_x emissions from Source IDs 031, 032, 033, and 034, combined, to 5.28 tons per year, calculated on a 12-month rolling sum basis.

Fuel Restriction(s).**# 004 [25 Pa. Code §123.22]****Combustion units**

(a) A person may not offer for sale, deliver for use, exchange in trade or permit the use of commercial fuel oil in a combustion unit in the Southeast Pennsylvania air basin if the commercial fuel oil contains sulfur in excess of 15 ppm or 0.0015% for No. 2 fuel oil by weight sulfur content, pursuant to 25 Pa. Code § 123.22(e)(2)(i), except as described in 25 Pa. Code § 123.22(e)(2)(ii) and (iii).

(b) Commercial fuel oil that was stored in the Commonwealth by the ultimate consumer prior to September 1, 2020 which met the applicable maximum allowable sulfur content for commercial fuel oil through August 31, 2020 in subparagraph (a) at the time it was stored, may be used by the ultimate consumer in this Commonwealth on and after September 1, 2020.

[Compliance with this condition assures compliance with the sulfur emission rate of 1.2 lb SO₂/MMBtu as found in 25 Pa. Code § 123.22(e)(1) for the outer zone, while firing No. 2 fuel oil.]

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

These sources shall be fired on either Natural Gas or No. 2 Fuel Oil.

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

The permittee shall limit total fuel usage, from all four boilers combined, to the following:

(a) 105.6 MMcf per year when combusting natural gas, or

(b) 528,000 gallons per year when burning No. 2 fuel oil.

**SECTION E. Source Group Restrictions.****II. TESTING REQUIREMENTS.****# 007 [25 Pa. Code §123.22]****Combustion units**

The actual sulfur content of commercial fuel oil shall be determined:

(a) in accordance with the sample collection, test methods and procedures specified under 25 Pa. Code § 139.16 (relating to sulfur in fuel oil); or

(b) by other methods developed or approved by the Department or the Administrator of the EPA, or both.

008 [25 Pa. Code §139.16]**Sulfur in fuel oil.**

(a) 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 25 Pa. Code § 139.4(10) (relating to references).

(2) 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.

(3) Tests methods and procedures for the determination of sulfur shall be those specified in 25 Pa. Code § 139.4(12)--(15) and (20).

(4) Results shall be reported in accordance with the units specified in 25 Pa. Code § 123.22 (relating to combustion units).

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

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

The permittee shall monitor the following, at the intervals indicated:

(a) Amount and type of fuel used for each boiler, on a monthly and 12-month rolling sum basis.

(b) Hours of operation for each boiler, on a monthly and 12-month rolling sum basis.

(c) Total NO_x emissions from Source IDs 031, 032, 033, and 034, on a monthly and 12-month rolling sum basis.

IV. RECORDKEEPING REQUIREMENTS.**# 010 [25 Pa. Code §123.22]****Combustion units**

The permittee shall maintain in electronic or paper format the record provided by the transferor for the shipment of commercial fuel oil as it changed hands to the permittee (ultimate consumer). This record must legibly and conspicuously contain the following information, in accordance with 25 Pa. Code § 123.22(g)(1) and (5):

(a) The date of the sale or transfer.

(b) The name and address of the transferor.

(c) The name and address of the transferee.

(d) The volume of commercial fuel oil being sold or transferred.

(e) The identification of the sulfur content of the shipment of commercial fuel oil, determined using the sampling and testing methods specified in 25 Pa. Code § 123.22(f)(1) and § 139.16, expressed as one of the following statements:

**SECTION E. Source Group Restrictions.**

a. For a shipment of No. 2 and lighter commercial fuel oil:

i. Prior to September 1, 2020 -“The sulfur content of this shipment is 500 ppm or below.”

ii. On and after September 1, 2020 -“The sulfur content of this shipment is 15 ppm or below.”

(f) The location of the commercial fuel oil at the time of transfer.

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

The permittee shall keep records of the following, at the intervals indicated:

(a) Amount and type of fuel used for each boiler, on a monthly and 12-month rolling sum basis.

(b) Hours of operation for each boiler, on a monthly and 12-month rolling sum basis.

(c) Total NO_x emissions from Source IDs 031, 032, 033, and 034, on a monthly and 12-month rolling sum basis.

V. REPORTING REQUIREMENTS.**# 012 [25 Pa. Code §123.22]****Combustion units**

The permittee shall provide an electronic or written copy of the commercial fuel oil shipment record to the Department upon request, in accordance with 25 Pa. Code § 123.22(g)(4)(ii).

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

[Additional authority for this condition is also derived from 25 Pa. Code § 129.93.]

These boilers shall be operated and maintained in accordance with the manufacturer's specifications.

VII. ADDITIONAL REQUIREMENTS.**# 014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11193]****Subpart JJJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources****Am I subject to this subpart?**

As specified in 40 C.F.R. § 63.11195(e), the boilers in this group shall not be subject to the requirements of Subpart JJJJJJ if they meet the following:

(a) The boilers shall burn gaseous fuels not combined with any solid fuels, and liquid fuel only during periods of gas curtailment, gas supply emergencies, or periodic testing on liquid fuel. Periodic testing of liquid fuel shall not exceed a combined total of 48 hours during any calendar year per boiler.

(b) Fuel switching from natural gas to solid fossil fuel, biomass, or liquid fuel, except for reasons stated above, will result in the facility being subject to the requirements of 40 C.F.R. § 63 Subpart JJJJJJ: National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers located at Area Sources.

**SECTION E. Source Group Restrictions.**

Group Name: GENERATORS

Group Description: Generator & Fire Pump Engines

Sources included in this group

ID	Name
103	600 KW CUMMINS DIESEL GENERATOR (1990)
105	150 KW MTU DIESEL GENERATOR (PARKING DECK)
106	1,000 KW CUMMINS DIESEL GENERATOR
107	CLARKE DIESEL FIRE PUMP ENGINE
108	DETROIT DIESEL FIRE PUMP ENGINE

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

001 [25 Pa. Code §123.21]

General

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

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit all exempt internal combustion engines on site, regardless of size, to combined NO_x emissions less than 100 lbs/hr, 1000 lbs/day, 2.75 tons per ozone season, and 6.6 tons per year on a 12-month rolling sum basis.

Exempt engines at this facility consist of Source IDs 103, 105, 106, 107, and 108.

Fuel Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The engines in this group shall only be fired on diesel fuel.

Operation Hours Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit the hours of operation to no more than 500 hours during any consecutive twelve (12) month period for each engine in this group.

II. TESTING REQUIREMENTS.

005 [25 Pa. Code §139.16]

Sulfur in fuel oil.

(a) 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 25 Pa. Code § 139.4(10) (relating to references).

(2) 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.

(3) Tests methods and procedures for the determination of sulfur shall be those specified in 25 Pa. Code § 139.4(12)--(15) and (20).

(4) Results shall be reported in accordance with the units specified in 25 Pa. Code § 123.22 (relating to combustion units).

**SECTION E. Source Group Restrictions.**

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

III. MONITORING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following:

(a) the hours of operation and fuel usage, including use for maintenance and testing, of each engine on a monthly and 12-month rolling sum basis

(b) the combined NO_x emissions for all exempt engines on site (in lbs/hr, lbs/day, tons per ozone season, and tons per year), to show compliance with the exempt engine limitations.

IV. RECORDKEEPING REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the following:

(a) the hours of operation and fuel usage, including use for maintenance and testing, of each engine on a monthly and 12-month rolling sum basis

(b) the combined NO_x emissions for all exempt engines on site (in lbs/hr, lbs/day, tons per ozone season, and tons per year), to show compliance with the exempt engine limitations.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]

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

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

Operation of engines in this group is subject to the following:

(a) The permittee shall operate the emergency stationary R.I.C.E. according to the requirements in the most recent version of 40 C.F.R. Section 63.6640(f).

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION E. Source Group Restrictions.**

Group Name: NSPS SUBPART IIII

Group Description: Subpart IIII

Sources included in this group

ID	Name
105	150 KW MTU DIESEL GENERATOR (PARKING DECK)
106	1,000 KW CUMMINS DIESEL GENERATOR
107	CLARKE DIESEL FIRE PUMP ENGINE
110	CUMMINS GENERATOR

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 derived from 40 C.F.R. 80.510(b).]

The permittee shall use diesel fuel that meets the following per-gallon requirements:

- (a) Sulfur content.
 - (i) 15 ppm maximum for non-road diesel fuel
- (b) Cetane index or aromatic content.
 - (i) A minimum cetane index of 40; or
 - (ii) A maximum aromatic content of 35 volume percent.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4206]

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**How long must I meet the emission standards if I am an owner or operator of a stationary CI internal combustion engine?**

The permittee shall operate and maintain these sources in accordance with the manufacturer's written instructions, or procedures developed by the permittee that are approved by the engine manufacturer, over the entire life of each engine.

**SECTION E. Source Group Restrictions.**

**# 003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4209]
Subpart IIII - 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?**

These sources shall be equipped with non-resettable hour meters.

**# 004 [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?**

The permittee shall comply with the emission standards specified in 40 C.F.R. 60.4205(b), by purchasing an engine certified to the emission standards in 40 C.F.R. 60.4205(b) as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this State Only facility.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
031	CLEAVER BROOKS BOILER 1		
Emission Limit		Pollutant	
5.280	Tons/Yr	12-month rolling sum basis, combined boiler total	NOX
1.200	Lbs/MMBTU		SOX
0.400	Lbs/MMBTU		TSP
032	CLEAVER BROOKS BOILER 2		
Emission Limit		Pollutant	
5.280	Tons/Yr	12-month rolling sum basis, combined boiler total	NOX
1.200	Lbs/MMBTU		SOX
0.400	Lbs/MMBTU		TSP
033	CLEAVER BROOKS BOILER 3		
Emission Limit		Pollutant	
5.280	Tons/Yr	12-month rolling sum basis, combined boiler total	NOX
1.200	Lbs/MMBTU		SOX
0.400	Lbs/MMBTU		TSP
034	CLEAVER BROOKS BOILER 4		
Emission Limit		Pollutant	
5.280	Tons/Yr	12-month rolling sum basis, combined boiler total	NOX
1.200	Lbs/MMBTU		SOX
0.400	Lbs/MMBTU		TSP
103	600 KW CUMMINS DIESEL GENERATOR (1990)		
Emission Limit		Pollutant	
2.750	Tons	Per ozone season, combined, all exempt engines	NOX
6.600	Tons/Yr	12-month rolling sum basis, combined, all exempt engines	NOX
100.000	Lbs/Hr	Combined, all exempt engines	NOX
1,000.000	Lbs/Day	Combined, all exempt engines	NOX
500.000	PPMV		SOX
105	150 KW MTU DIESEL GENERATOR (PARKING DECK)		
Emission Limit		Pollutant	
2.750	Tons	Per ozone season, combined, all exempt engines	NOX
6.600	Tons/Yr	12-month rolling sum basis, combined, all exempt engines	NOX
100.000	Lbs/Hr	Combined, all exempt engines	NOX
1,000.000	Lbs/Day	Combined, all exempt engines	NOX
500.000	PPMV		SOX

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
106	1,000 KW CUMMINS DIESEL GENERATOR		
Emission Limit		Pollutant	
2.750	Tons	Per ozone season, combined, all exempt engines	NOX
6.600	Tons/Yr	12-month rolling sum basis, combined, all exempt engines	NOX
100.000	Lbs/Hr	Combined, all exempt engines	NOX
1,000.000	Lbs/Day	Combined, all exempt engines	NOX
500.000	PPMV		SOX
107	CLARKE DIESEL FIRE PUMP ENGINE		
Emission Limit		Pollutant	
2.750	Tons	Per ozone season, combined, all exempt engines	NOX
6.600	Tons/Yr	12-month rolling sum basis, combined, all exempt engines	NOX
100.000	Lbs/Hr	Combined, all exempt engines	NOX
1,000.000	Lbs/Day	Combined, all exempt engines	NOX
500.000	PPMV		SOX
108	DETROIT DIESEL FIRE PUMP ENGINE		
Emission Limit		Pollutant	
2.750	Tons	Per ozone season, combined, all exempt engines	NOX
6.600	Tons/Yr	12-month rolling sum basis, combined, all exempt engines	NOX
100.000	Lbs/Hr	Combined, all exempt engines	NOX
1,000.000	Lbs/Day	Combined, all exempt engines	NOX
500.000	PPMV		SOX
109	1600 KW NATURAL GAS COGEN UNIT		
Emission Limit		Pollutant	
1.110	Lbs/Hr		CO
4.840	Tons/Yr	12-month rolling sum basis	CO
47.000	PPMV	dry basis @ 15% O2	CO
0.050	GRAMS/HP-Hr		Formaldehyde
0.260	Lbs/Hr		Formaldehyde
1.120	Tons/Yr	12-month rolling sum basis	Formaldehyde
0.500	GRAMS/HP-Hr		NOX
2.550	Lbs/Hr		NOX
11.160	Tons/Yr	12-month rolling sum basis	NOX
500.000	PPMV	dry basis	SO2
0.020	gr/DRY FT3	standard cubic foot basis	TSP
0.380	Lbs/Hr		TSP
1.670	Tons/Yr	12-month rolling sum basis	TSP
0.250	GRAMS/HP-Hr	non-methane, non-ethane	VOC
0.990	Lbs/Hr		VOC
4.350	Tons/Yr	12-month rolling sum basis	VOC

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description				
110	CUMMINS GENERATOR				
<table><tr><th>Emission Limit</th><th>Pollutant</th></tr><tr><td>500.000 PPMV</td><td>SOX</td></tr></table>		Emission Limit	Pollutant	500.000 PPMV	SOX
Emission Limit	Pollutant				
500.000 PPMV	SOX				

Site Emission Restriction Summary

Emission Limit	Pollutant
24.900 Tons/Yr 12-month rolling sum basis	NOX

**SECTION H. Miscellaneous.**

#001. This permit is being renewed under APS No. 549395; AUTH No. 849786. June 2011. The following sources have been added:

- Source 034, Cleaver Brooks Boiler 4
- Source 105, 150 kW MTU Diesel Generator
- Source 106, 1,000 kW Cummins Diesel Generator
- Source 107, Clarke Diesel Fire Pump Engine
- Source 108, Detroit Diesel Fire Pump Engine

A 100 kW Caterpillar-Olympian emergency generator, model D100P2 (formerly Source 104) is present on the property of the hospital, but is wholly owned and operated by the property manager/owner (Anchor Health), and not by Doylestown Hospital. This source has been determined not to require permitting and will be removed from the source inventory of the permit. It is referenced here for informational purposes only.

#002. An administrative amendment is being processed under APS No. 549395 and AUTH No. 1056625 to incorporate the requirements of plan approval 09-0184 for an existing 750 kW natural gas-fired generator engine (Source 102) equipped with an oxidation catalyst (C10A) and SCR (C102B).

#003. A permit renewal is being processed under APS No. 549395 and AUTH No. 1085402.

#004. This permit is being reopened to process an administrative amendment under APS No. 549395 and AUTH No. 1147889. The amendment clarifies the stack testing condition to Source ID 102 from every 8760 hours or 3 years, whichever comes first, to once every 5 years or once within the life of the permit. An additional testing condition is also added to fulfill the testing requirements specified by the RICE MACT for CO and O₂, that is to be conducted every 8,760 hours or 3 years, whichever comes first.

#005. This operating permit is being amended to incorporate the requirements of Plan Approval 09-0184A, for Source 109, a 1600 kW natural gas-fired Cogen unit.

This amendment also revises the testing condition of Source 102, the natural gas-fired peak shaving unit, to test for the following pollutants: NO_x, CO, and ammonia slip, and this is to be conducted once every 8,760 hours or 3 years, whichever comes first.

#006. Auth ID 1338574, APS ID 549395 for renewal of state only operating permit. During renewal, Source 102 (750 kW natural gas generator) was removed from the permit under 25 PA Code § 127.11(a) ; compliance milestones added to Section C to correct recordkeeping issues.

#007. The Synthetic Minor Operating Permit No. 09-00184 (Date: August 2026, APS ID: 549395, Auth ID: 1551640) has been renewed. Changes to the permit include:

- (1) Source ID 101 has been removed from the permit.
- (2) Source ID 110 has been added to the permit.
- (3) The compliance milestones of Section C have been removed from the permit.
- (4) The facility name has changed to Penn Medicine Doylestown Hospital.
- (5) The contact information for the responsible official and permit contact has been updated.



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