



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

STATE ONLY SYNTHETIC MINOR OPERATING PERMIT

Issue Date:	February 6, 2020	Effective Date:	June 22, 2022
Revision Date:	June 22, 2022	Expiration Date:	February 6, 2025
Revision Type:	Amendment		

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

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated.

State Only Permit No: 15-00085

Synthetic Minor

Federal Tax Id - Plant Code: 23-1352655-1

Owner Information

Name: LINCOLN UNIV
Mailing Address: 1570 BALTIMORE PIKE
DICKY HALL 342
LINCOLN UNIVERSITY, PA 19352-9141

Plant Information

Plant: LINCOLN UNIV/LOWER OXFORD
Location: 15 Chester County 15937 Lower Oxford Township
SIC Code: 8221 Services - Colleges And Universities

Responsible Official

Name: CHARLES GRADOWSKI
Title: VP FINANCE
Phone: (484) 365 - 8049 Email: cgradowski@lincoln.edu

Permit Contact Person

Name: YEDA ARSCOTT
Title: AVP DIR OF FAC/PROG MGMT
Phone: (484) 365 - 5147 Email: yarscott@lincoln.edu

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



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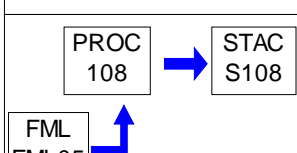
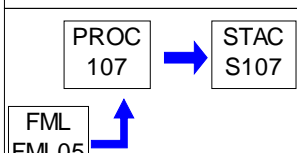
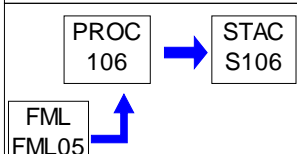
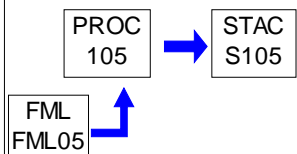
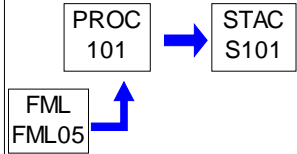
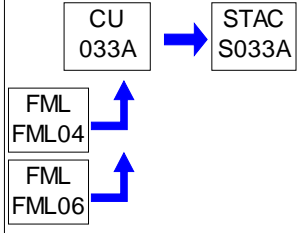
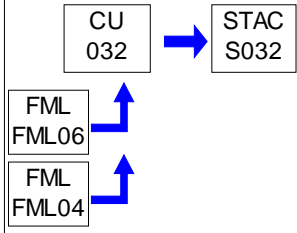
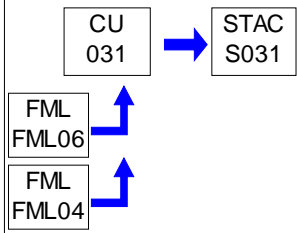
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput		Fuel/Material
031	CLEAVER BROOKS BOILER 1	26.900	MMBTU/HR	
		27,600.000	CF/HR	Natural Gas
		190.700	Gal/HR	#2 Oil
032	CLEAVER BROOKS BOILER 2	15.600	MMBTU/HR	
		110.700	Gal/HR	#2 Oil
		15,500.000	CF/HR	Natural Gas
033A	B&W BOILER 3	43.800	MMBTU/HR	
		313.000	Gal/HR	#2 Oil
		43,800.000	CF/HR	Natural Gas
101	MISC. DIESEL FUEL-FIRED GENERATORS	3.655	MMBTU/HR	
		26.680	Gal/HR	Diesel Fuel
105	1,500 KW DIESEL GENERATOR 1	15.210	MMBTU/HR	
		111.000	Gal/HR	Diesel Fuel
106	1,500 KW DIESEL GENERATOR 2	15.210	MMBTU/HR	
		111.000	Gal/HR	Diesel Fuel
107	1,500 KW DIESEL GENERATOR 3	14.330	MMBTU/HR	
		104.600	Gal/HR	Diesel Fuel
108	1,500 KW DIESEL GENERATOR 4	14.330	MMBTU/HR	
		104.600	Gal/HR	Diesel Fuel
734A	MISC. NO. 2 FUEL OIL-FIRED COMBUSTION SOURCES	0.561	MMBTU/HR	
		4.094	Gal/HR	#2 Oil
736	MISC NATURAL GAS-FIRED COMBUSTION SOURCES	15.230	MMBTU/HR	
		14,931.400	CF/HR	Natural Gas
FML04	#2 FUEL OIL STORAGE TANKS			
FML05	DIESEL STORAGE TANKS			
FML06	NATURAL GAS			
S031	BOILER 1 STACK			
S032	BOILER 2 STACK			
S033A	BOILER 3 STACK			
S101	MISC. DIESEL GENERATORS STACKS			
S105	1,500 KW GENERATOR 1 STACK			
S106	1,500 KW GENERATOR 2 STACK			
S107	1,500 KW DIESEL GENERATOR 3 STACK			
S108	1,500 KW DIESEL GENERATOR 4 STACK			
S734A	MISC. NO. 2 FUEL OIL SOURCES STACKS			
S736	MISC NG-FIRED COMBUSTION SOURCE STACKS			

PERMIT MAPS

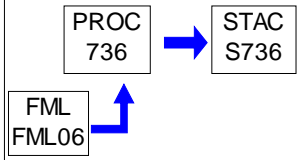
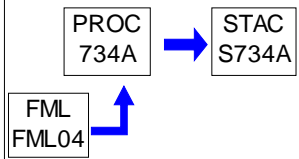


PERMIT MAPS





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 I.**

- (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.

**SECTION B. General State Only Requirements**

(2) For a facility that is not a synthetic minor, a fee equal to:

- (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:

**SECTION B. General State Only Requirements**

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

(b) A person may not cause or permit the operation of a source which is subject to 25 Pa. Code Article III unless the source(s) and air cleaning devices identified in the application for the plan approval and operating permit and the plan approval issued 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:

**SECTION B. General State Only Requirements**

(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 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:

**SECTION B. General State Only Requirements**

- (1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.
 - (2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.
 - (3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility 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)

**SECTION B. General State Only Requirements**

(6) Section 127.462 (relating to minor operating permit modifications)

(7) Subchapter H (relating to general plan approvals and general operating permits)

#015 [25 Pa. Code § 127.11]**Reactivation**

(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

**SECTION B. General State Only Requirements**

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.

#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.

**SECTION B. General State Only Requirements****#023 [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.

#024 [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 §121.7]****Prohibition of air pollution.**

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

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

(a) No person may permit the emission into the outdoor atmosphere of 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) Blasting in open pit mines. Emissions from drilling are not considered as emissions from blasting.
- (8) Sources and classes of sources other than those identified in (1)-(7) above, for which the operator has obtained a determination from the Department, in accordance with 25 Pa. Code § 123.1(b), 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.

(b) The requirements contained in paragraph (a) and 25 Pa. Code § 123.2 do not apply to fugitive emissions arising from the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.

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

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in 25 Pa. Code § 123.1(a)(1)-(9) (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

004 [25 Pa. Code §123.41]**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 (3) minutes in anyone (1) hour.
- (b) Equal to or greater than 60% at any time.

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

The emission limitations of 25 Pa. Code § 123.41 (relating to limitations) 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 sources specified in 25 Pa. Code § 123.1(a)(1) -- (9) (relating to prohibition of certain fugitive emissions).

(d) When arising from the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.

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

The permittee shall ensure that the total Nitrogen Oxide (NOx) emissions from the facility shall not exceed 24.9 tons per year as a twelve (12) month rolling sum.

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

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

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

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

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

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

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

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

(g) A fire set solely for cooking food.

Fuel Restriction(s).**# 008 [25 Pa. Code §123.22]****Combustion units**

(a) The sulfur content of fuel oil shall not exceed 0.05% by weight, except for as noted in paragraph (b), below.

(b) Commercial fuel oil that was purchased and brought on site prior to July 1, 2016, which meets the sulfur limit of 0.3% by weight, may be used by the permittee on and after July 1, 2016.

[Compliance with this streamlined permit condition assures compliance with 40 C.F.R. § 60.42c(d) where applicable]

II. TESTING REQUIREMENTS.**# 009 [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(s) listed in Section A, of this Permit, may be in excess of the limitations specified in this Permit, or established pursuant to, any applicable rule or regulation contained in 25 Pa. Code Article III, the permittee shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s).

(b) Such testing shall be conducted in accordance with the provisions of 25 Pa. Code Chapter 139, when applicable, and

**SECTION C. Site Level Requirements**

in accordance with any restrictions or limitations established by the Department at such time as it notifies the permittee that testing is required.

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

The following applies whenever the permittee is required to submit stack test protocols, stack test reports, notifications pertaining to such stack testing, or any other related documents:

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

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

(1) Test Date(s)

- (i) For protocols, provide the proposed date on which testing will commence or "TBD"
- (ii) 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)

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

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

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

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

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

(e) Email all electronic submissions to both the PSIMS Administrator in Central Office and the Air Quality Program Manager for the Southeast Regional Office. Email addresses are provided below:

**SECTION C. Site Level Requirements**

Central Office
RA-EPstacktesting@pa.gov

Southeast Region
RA-EPSEstacktesting@pa.gov

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

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

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

(3) 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 maximum percent sulfur in the fuel, is obtained each time a fuel oil delivery is made.

III. MONITORING REQUIREMENTS.**# 012 [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.

(b) Observers, trained and qualified to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

013 [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 (as per 25 Pa. Code §123.31);
- (2) Visible emissions (as per 25 Pa. Code §§123.41 and 123.42).; and
- (3) Fugitive particulate matter (as per 25 Pa. Code §§ 123.1 and 123.2).

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

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

**SECTION C. Site Level Requirements**

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

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

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

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

The permittee shall monitor the total NOx emissions from this facility on a monthly basis.

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

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

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

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

The permittee shall maintain records of the total NOx emissions from the facility on a monthly basis and as a twelve (12) month rolling sum.

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

Records for the monitoring data and supporting information required by this State Only Operating Permit shall be maintained on site for a minimum of five (5) years.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 123.22]

The permittee shall maintain on site documentation of the fuel oil supplier certification that includes the following information for each delivery of fuel oil:

- (a) The name of the oil supplier.
- (b) A statement that the sulfur content of the oil does not exceed:
 - (1) 0.3% by weight, if received prior to July 1, 2016.
 - (2) 0.05% by weight, if received after June 30, 2016.

019 [25 Pa. Code §135.5]**Recordkeeping**

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

Source owners or operators shall maintain and make available upon request by the Department records including computerized records that may be necessary to comply with 25 Pa. Code §§ 135.3 and 135.21 (relating to reporting and emission statements). These may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. If direct recordkeeping is not possible or practical, sufficient records shall

**SECTION C. Site Level Requirements**

be kept to provide the needed information by indirect means.

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

[Additional authority for this permit condition is also derived from 40 CFR 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 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).
- (b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the 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 CFR § 68.130; or,
 - (ii) The date on which a regulated substance is first present above a threshold quantity in a process.
 - (2) The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.
 - (3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.
- (c) As used in this permit condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.
- (d) If this facility is subject to 40 CFR Part 68, as part of the certification required under this permit, the permittee shall:
- (1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,
 - (2) Certify that this facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.
- (e) If this facility is subject to 40 CFR Part 68, the permittee shall maintain records supporting the implementation of an accidental release program for five (5) years in accordance with 40 CFR § 68.200.
- (f) When this facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and 40 CFR Part 68, appropriate enforcement action will be taken by the Department if the permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.

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

A person responsible for any source specified in 25 Pa. Code § 123.1(a)(1) -- (7) or (9) 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 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, oil, water or 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 other means.

022 [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.

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

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

VII. ADDITIONAL REQUIREMENTS.**# 024 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4]****Subpart A - General Provisions****Address.**

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

Pursuant to §40 CFR 60.4, the permittee shall submit all requests, reports, applications, submittals, and other communications to both the Environmental Protection Agency (EPA) and the Department. The EPA and the Department copies shall be forwarded to:

U.S. EPA, Region III	PA Department of Environmental Protection
Office of Permits &	Bureau of air Quality
Air Toxics (3AP10)	2 East Main Street
1650 Arch Street	Norristown, PA 19401
Philadelphia, PA 19103-2029	

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: 26.900 MMBTU/HR

27,600.000 CF/HR

Natural Gas

190.700 Gal/HR

#2 Oil

**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 ensure that the boiler shall not exceed the following emission limits:

- (a) 30 ppm_{dv} NO_x at 3% oxygen when firing natural gas.
- (b) 90 ppm_{dv} NO_x at 3% oxygen when firing No. 2 fuel oil.
- (c) 300 ppm_{dv} CO at 3% oxygen.

004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.42c]**Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Standard for sulfur dioxide.**

When burning fuel oil, this combustion source shall not result in emissions of SO_x, expressed as SO₂, in excess of 215 ng/J (0.50 lb/million Btu) heat input, pursuant to 40 C.F.R. § 60.42c(d).

[Compliance with this streamlined permit condition assures compliance with 25 Pa. Code § 123.22(e)(1) for fuel oil burning]

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

- (a) Beginning September 1, 2020, the maximum sulfur content in commercial fuel oil shall not exceed 15 ppm (0.0015%) by weight for No. 2 fuel oil and lighter oil, except as specified in subparagraphs (ii) and (iii) of 25 Pa. Code § 123.22(e)(2).
- (b) Commercial fuel oil that was stored in the Commonwealth of Pennsylvania by the ultimate consumer prior to September 1, 2020, which met the applicable maximum allowable sulfur content of 0.05% for commercial fuel oil through August 31, 2020, may be used by the ultimate consumer in the Commonwealth of Pennsylvania after September 1, 2020.

**SECTION D. Source Level Requirements**

[Compliance with this streamlined permit condition assures compliance with 40 C.F.R. § 60.42c(d)]

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11195]**SUBPART JJJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources****Are any boilers not subject to this subpart?**

This source shall only use natural gas as the primary fuel. No. 2 fuel oil shall only be used during periods of gas curtailment, gas supply emergencies, or for periodic testing (not to exceed 48 hours during any calendar year).

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

(a) The permittee shall ensure that the total natural gas usage for the boilers (Source ID(s): 031, 032 and 033A) shall not exceed 178.76 million cubic feet on a twelve (12) month rolling sum.

(b) The permittee shall ensure that total No. 2 fuel oil usage for the boilers (Source ID(s): 031, 032 and 033A) shall not exceed 314,828 gallons on a twelve (12) month rolling sum.

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

(a) If this source should ever use No. 2 fuel oil for 30 or more cumulative days within a 12-month rolling period, the permittee shall perform stack testing while burning No. 2 fuel oil to measure emissions of NO_x and CO, to demonstrate compliance with the short-term emission limits for NO_x and CO. Stack testing shall be performed no later than 120 days following the 30th day of cumulative fuel oil usage. This required stack testing is a one-time requirement, unless the Department deems it necessary to require future testing.

(b) The stack test on this boiler shall be conducted in accordance with the provisions of Chapter 139 of the Pennsylvania Code, using the Department-approved procedures. 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.

(c) At least ninety (90) days prior to the test(s), the company 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(s), 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), copies of the complete test report, which includes all operating conditions and meets the requirements under Section C (Testing Requirements) of this operating permit, shall be submitted to DEP for approval.

(f) The permittee shall submit one paper copy plus one electronic copy of all source test submissions (notifications, protocols, reports, supplemental information, etc.) to both the AQ Program Manager for the Southeast Regional Office and the PSIMS Administrator in Central Office (mail and email addresses are provided under Section C of this operating permit, under Testing Requirements).

(g) 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.

**SECTION D. Source Level Requirements****# 009 [25 Pa. Code §139.16]****Sulfur in fuel oil.**

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

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

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

[Compliance with this streamlined permit condition, paragraph (b) assures compliance with §§40 CFR 60.42c(h)(1) and 60.48c(f)(1).]

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

The permittee shall monitor the following for the boiler on a monthly basis:

- (a) The amount and type of fuel used.
- (b) The hours of operations.
- (c) Emissions of NO_x, in tons.

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

Each adjustment conducted under the tune-up procedures for this source shall be recorded in a permanently bound log book and contain the following:

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

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 123.22 and 40 C.F.R. Part 60, Subpart Dc]

(a) The permittee shall keep records of fuel supplier certification that shall include the following information for each delivery of distillate oil:

- (1) The name of the oil supplier.
- (2) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 C.F.R. § 60.41c.
- (3) A statement that the sulfur content of the fuel oil does not exceed 500 ppm by weight, up until August 31, 2020;

**SECTION D. Source Level Requirements**

thereafter, a statement that the sulfur content of the fuel oil does not exceed 15 ppm by weight.

(b) In the event that a delivery is made, and no receipt is obtained, the permittee shall perform testing in accordance with 40 C.F.R. §§ 60.44c(g) and 60.46c(d)(2) and 25 Pa. Code § 139.16. The necessary samples shall be taken within one (1) business day of the delivery and sent off to a lab for analysis, within that same time-frame. If the oil does not comply with the conditions of this permit, the permittee shall notify the Department of the results within 1 business day of receiving the results.

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

The permittee shall maintain records of the following for the boiler on a monthly basis:

- (a) The amount and type of fuel used.
- (b) The hours of operations.
- (c) Emissions of NO_x, in tons and tons per 12-month rolling period.

014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]**Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.**

(a) Except as noted in paragraph (b) below, the permittee shall maintain daily fuel consumption records in accordance with 40 C.F.R. § 60.48c(g). These records shall contain the amount and type of fuel combusted.

(b) As provided by 40 C.F.R. § 60.48(g)(2), as an alternate to meeting the requirements of paragraph (a) of this condition, the owner/operator of an affected facility that combusts natural gas or a fuel using fuel certification to demonstrate compliance with sulfur dioxide limits in Subpart Dc, may elect to record and maintain records of the amount of each fuel combusted during each calendar month.

015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11195]**SUBPART JJJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources****Are any boilers not subject to this subpart?**

Whenever No. 2 fuel oil is used the permittee shall document the reason for using No. 2 fuel oil.

- (a) If No. 2 fuel oil is used because of gas curtailment or a gas supply emergency, the the permittee shall obtain the necessary documents to prove that a gas curtailment or gas supply emergency occurred.
- (b) If No. 2 fuel oil is used for periodic testing, then the permittee shall document this and the number of hours that the boiler operated on No. 2 fuel oil.

V. REPORTING REQUIREMENTS.**# 016 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]****Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 60.19(f)]

(a) The permittee shall submit semi-annual reports for fuel oil usage and certification to the U.S. EPA and the Department in the following manner:

- (1) For each period between January 1 to June 30, the permittee shall submit reports for the 6 month period to the U.S. EPA and the Department no later than July 30 after the reporting period.
- (2) For each period between July 1 to December 31, the permittee shall submit reports for the 6 month period to the U.S. EPA and the Department no later than January 30 after the reporting period.

(b) The reports required in paragraph (a), above, shall include, but is not limited to, the following:

**SECTION D. Source Level Requirements**

- (1) The calendar dates covered in the reporting period.
- (2) Each 30-day average sulfur content (weight percent), calculated during the reporting period, ending with the last 30-day period.
- (3) The reasons for any non-compliance with sulfur dioxide emissions standards and the corrective actions taken.
- (4) A certified statement signed by the owner/operator of the affected facility that the records of fuel supplier certifications submitted represent all the fuel combusted during the reporting period.

**# 017 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]
Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units
Reporting and recordkeeping requirements.**

The owner or operator of each combustion unit subject to the SO₂ emission limits of 40 C.F.R. § 60.42c, shall submit to the EPA Administrator and the Department, the performance test data from the initial and any subsequent performance tests.

VI. WORK PRACTICE REQUIREMENTS.

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

- (a) The permittee shall perform an annual tune-up on the combustion process for this source. The annual tune-up shall consist of, at a minimum, the following:
- (1) Inspection, adjustment, cleaning or replacement of fuel burning equipment, including the burners and moving parts necessary for proper operation as specified by the manufacturer.
 - (2) Inspection of the flame pattern or characteristics and adjustments necessary to minimize total emissions of NO_x, and to the extent practicable, minimize the emissions of CO.
 - (3) Inspection of the air-to-fuel ratio control system and adjustments necessary to ensure proper calibration and operation as specified by the manufacturer.
- (b) The annual combustion tune-up shall be made in accordance with EPA document "Combustion Efficiency Optimization Manual for Operators of Oil and Gas-fired Boilers," September 1983 (EPA-340/1-83-023) or equivalent procedures approved by the Department in writing.

VII. ADDITIONAL REQUIREMENTS.

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

Source ID 031 (Clever Brooks Boiler 1) is manufactured by Cleaver Brooks, Model No. D-34, rated at 26.9 MMBtu/hr.

**# 020 [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?

- (a) This combustion unit is exempted from the regulatory requirements of 40 C.F.R. Part 63, Subpart JJJJJJ, in the category of "gas-fired boiler".
- (b) A "gas-fired boiler" includes any boiler that burns gaseous fuels not combined with any solid fuels, burns 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.
- (c) Usage of liquid fuel in exceedance of the 48 hours per year for periodic testing will result in the loss of the exemption status as a "gas-fired boiler" and this combustion unit will be subjected to the applicable requirements of 40 C.F.R. Part 63, Subpart JJJJJJ.

**SECTION D. Source Level Requirements**

Source ID: 032

Source Name: CLEAVER BROOKS BOILER 2

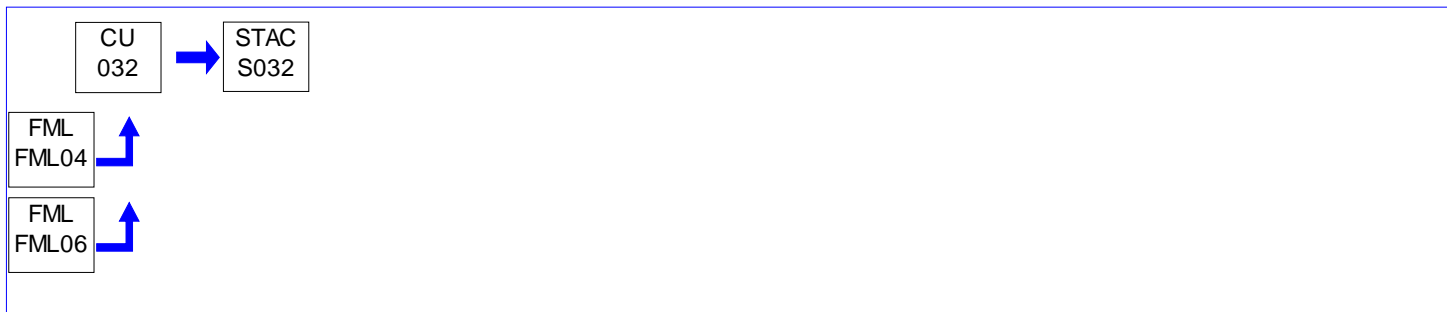
Source Capacity/Throughput: 15.600 MMBTU/HR

110.700 Gal/HR

#2 Oil

15,500.000 CF/HR

Natural Gas

**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 ensure that the boiler shall not exceed the following emission limits:

- (a) 30 ppm_{dv} NO_x at 3% oxygen when firing natural gas.
- (b) 90 ppm_{dv} NO_x at 3% oxygen when firing No. 2 fuel oil.
- (c) 300 ppm_{dv} CO at 3% oxygen.

004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.42c]**Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Standard for sulfur dioxide.**

When burning fuel oil, this combustion source shall not result in emissions of SO_x, expressed as SO₂, in excess of 215 ng/J (0.50 lb/million Btu) heat input, pursuant to 40 C.F.R. § 60.42c(d).

[Compliance with this streamlined permit condition assures compliance with 25 Pa. Code § 123.22(e)(1) for fuel oil burning]

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

- (a) Beginning September 1, 2020, the maximum sulfur content in commercial fuel oil shall not exceed 15 ppm (0.0015%) by weight for No. 2 fuel oil and lighter oil, except as specified in subparagraphs (ii) and (iii) of 25 Pa. Code § 123.22(e)(2).
- (b) Commercial fuel oil that was stored in the Commonwealth of Pennsylvania by the ultimate consumer prior to September 1, 2020, which met the applicable maximum allowable sulfur content of 0.05% for commercial fuel oil through August 31, 2020, may be used by the ultimate consumer in the Commonwealth of Pennsylvania after September 1, 2020.

**SECTION D. Source Level Requirements**

[Compliance with this streamlined permit condition assures compliance with 40 C.F.R. § 60.42c(d)]

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11195]**SUBPART JJJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources****Are any boilers not subject to this subpart?**

This source shall only use natural gas as the primary fuel. No. 2 fuel oil shall only be used during periods of gas curtailment, gas supply emergencies, or for periodic testing (not to exceed 48 hours during any calendar year).

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

(a) The permittee shall ensure that the total natural gas usage for the boilers (Source ID(s): 031, 032 and 033A) shall not exceed 178.76 million cubic feet on a twelve (12) month rolling sum.

(b) The permittee shall ensure that total No. 2 fuel oil usage for the boilers (Source ID(s): 031, 032 and 033A) shall not exceed 314,828 gallons on a twelve (12) month rolling sum.

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

(a) If this source should ever use No. 2 fuel oil for 30 or more cumulative days within a 12-month rolling period, the permittee shall perform stack testing while burning No. 2 fuel oil to measure emissions of NO_x and CO, to demonstrate compliance with the short-term emission limits for NO_x and CO. Stack testing shall be performed no later than 120 days following the 30th day of cumulative fuel oil usage. This required stack testing is a one-time requirement, unless the Department deems it necessary to require future testing.

(b) The stack test on this boiler shall be conducted in accordance with the provisions of Chapter 139 of the Pennsylvania Code, using the Department-approved procedures. 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.

(c) At least ninety (90) days prior to the test(s), the company 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(s), 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), copies of the complete test report, which includes all operating conditions and meets the requirements under Section C (Testing Requirements) of this operating permit, shall be submitted to DEP for approval.

(f) The permittee shall submit one paper copy plus one electronic copy of all source test submissions (notifications, protocols, reports, supplemental information, etc.) to both the AQ Program Manager for the Southeast Regional Office and the PSIMS Administrator in Central Office (mail and email addresses are provided under Section C of this operating permit, under Testing Requirements).

(g) 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.

**SECTION D. Source Level Requirements****# 009 [25 Pa. Code §139.16]****Sulfur in fuel oil.**

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

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

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

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

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

[Compliance with this streamlined permit condition, paragraph (b) assures compliance with §§40 CFR 60.42c(h)(1) and 60.48c(f)(1).]

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

The permittee shall monitor the following for the boiler on a monthly basis:

- (a) The amount and type of fuel used.
- (b) The hours of operations.
- (c) Emissions of NO_x, in tons.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 123.22 and 40 C.F.R. Part 60, Subpart Dc]

(a) The permittee shall keep records of fuel supplier certification that shall include the following information for each delivery of distillate oil:

- (1) The name of the oil supplier.
- (2) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 C.F.R. § 60.41c.
- (3) A statement that the sulfur content of the fuel oil does not exceed 500 ppm by weight, up until August 31, 2020; thereafter, a statement that the sulfur content of the fuel oil does not exceed 15 ppm by weight.

(b) In the event that a delivery is made, and no receipt is obtained, the permittee shall perform testing in accordance with 40 C.F.R. §§ 60.44c(g) and 60.46c(d)(2) and 25 Pa. Code § 139.16. The necessary samples shall be taken within one (1) business day of the delivery and sent off to a lab for analysis, within that same time-frame. If the oil does not comply with the conditions of this permit, the permittee shall notify the Department of the results within 1 business day of receiving the results.

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

The permittee shall maintain records of the following for the boiler on a monthly basis:

**SECTION D. Source Level Requirements**

- (a) The amount and type of fuel used.
- (b) The hours of operations.
- (c) Emissions of NO_x, in tons and tons per 12-month rolling period.

013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]**Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.**

(a) Except as noted in paragraph (b) below, the permittee shall maintain daily fuel consumption records in accordance with 40 C.F.R. § 60.48c(g). These records shall contain the amount and type of fuel combusted.

(b) As provided by 40 C.F.R. § 60.48(g)(2), as an alternate to meeting the requirements of paragraph (a) of this condition, the owner/operator of an affected facility that combusts natural gas or a fuel using fuel certification to demonstrate compliance with sulfur dioxide limits in Subpart Dc, may elect to record and maintain records of the amount of each fuel combusted during each calendar month.

014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11195]**SUBPART JJJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources****Are any boilers not subject to this subpart?**

Whenever No. 2 fuel oil is used the permittee shall document the reason for using No. 2 fuel oil.

(a) If No. 2 fuel oil is used because of gas curtailment or a gas supply emergency, the the permittee shall obtain the necessary documents to prove that a gas curtailment or gas supply emergency occurred.

(b) If No. 2 fuel oil is used for periodic testing, then the permittee shall document this and the number of hours that the boiler operated on No. 2 fuel oil.

V. REPORTING REQUIREMENTS.**# 015 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]****Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 60.19(f)]

(a) The permittee shall submit semi-annual reports for fuel oil usage and certification to the U.S. EPA and the Department in the following manner:

- (1) For each period between January 1 to June 30, the permittee shall submit reports for the 6 month period to the U.S. EPA and the Department no later than July 30 after the reporting period.
- (2) For each period between July 1 to December 31, the permittee shall submit reports for the 6 month period to the U.S. EPA and the Department no later than January 30 after the reporting period.

(b) The reports required in paragraph (a), above, shall include, but is not limited to, the following:

- (1) The calendar dates covered in the reporting period.
- (2) Each 30-day average sulfur content (weight percent), calculated during the reporting period, ending with the last 30-day period.
- (3) The reasons for any non-compliance with sulfur dioxide emissions standards and the corrective actions taken.
- (4) A certified statement signed by the owner/operator of the affected facility that the records of fuel supplier certifications submitted represent all the fuel combusted during the reporting period.

**SECTION D. Source Level Requirements**

016 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]
Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units
Reporting and recordkeeping requirements.

The owner or operator of each combustion unit subject to the SO₂ emission limits of 40 C.F.R. § 60.42c, shall submit to the EPA Administrator and the Department, the performance test data from the initial and any subsequent performance tests.

VI. WORK PRACTICE REQUIREMENTS.

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

The permittee shall maintain and operate the boiler in accordance with the manufacturer's specifications and good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.

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

Source ID 032 (Cleaver Brooks Boiler 2) is manufactured by Cleaver Brooks, Model No. D-26, rated at 15.563 MMBtu/hr.

019 [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?

- (a) This combustion unit is exempted from the regulatory requirements of 40 C.F.R. Part 63, Subpart JJJJJJ, in the category of "gas-fired boiler".
- (b) A "gas-fired boiler" includes any boiler that burns gaseous fuels not combined with any solid fuels, burns 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.
- (c) Usage of liquid fuel in exceedance of the 48 hours per year for periodic testing will result in the loss of the exemption status as a "gas-fired boiler" and this combustion unit will be subjected to the applicable requirements of 40 C.F.R. Part 63, Subpart JJJJJJ.

**SECTION D. Source Level Requirements**

Source ID: 033A

Source Name: B&W BOILER 3

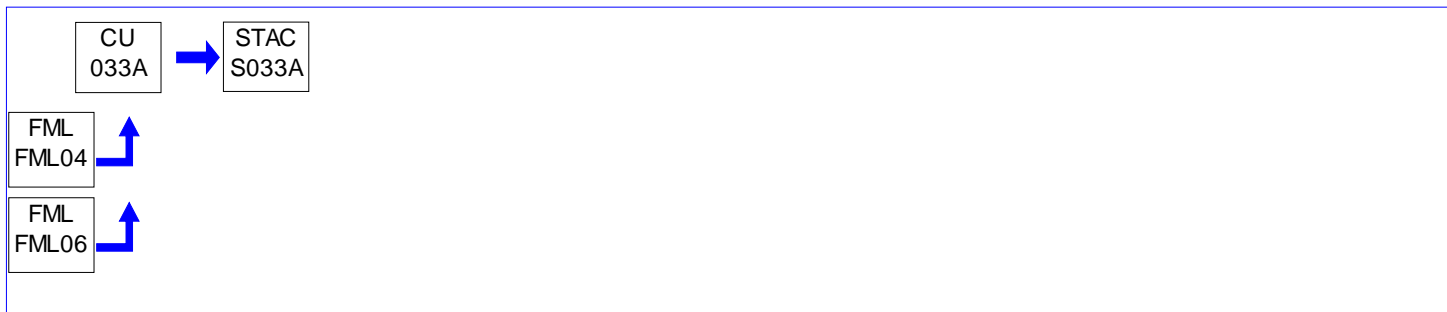
Source Capacity/Throughput: 43.800 MMBTU/HR

313.000 Gal/HR

#2 Oil

43,800.000 CF/HR

Natural Gas

**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 ensure that the boiler shall not exceed the following emission limits:

- (a) 30 ppm_{dv} NO_x at 3% oxygen when firing natural gas.
- (b) 90 ppm_{dv} NO_x at 3% oxygen when firing No. 2 fuel oil.
- (c) 300 ppm_{dv} CO at 3% oxygen.

004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.42c]**Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Standard for sulfur dioxide.**

When burning fuel oil, this combustion source shall not result in emissions of SO_x, expressed as SO₂, in excess of 215 ng/J (0.50 lb/million Btu) heat input, pursuant to 40 C.F.R. § 60.42c(d).

[Compliance with this streamlined permit condition assures compliance with 25 Pa. Code § 123.22(e)(1) for fuel oil burning]

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

- (a) Beginning September 1, 2020, the maximum sulfur content in commercial fuel oil shall not exceed 15 ppm (0.0015%) by weight for No. 2 fuel oil and lighter oil, except as specified in subparagraphs (ii) and (iii) of 25 Pa. Code § 123.22(e)(2).
- (b) Commercial fuel oil that was stored in the Commonwealth of Pennsylvania by the ultimate consumer prior to September 1, 2020, which met the applicable maximum allowable sulfur content of 0.05% for commercial fuel oil through August 31, 2020, may be used by the ultimate consumer in the Commonwealth of Pennsylvania after September 1, 2020.

**SECTION D. Source Level Requirements**

[Compliance with this streamlined permit condition assures compliance with 40 C.F.R. § 60.42c(d)]

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11195]**SUBPART JJJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources****Are any boilers not subject to this subpart?**

This source shall only use natural gas as the primary fuel. No. 2 fuel oil shall only be used during periods of gas curtailment, gas supply emergencies, or for periodic testing (not to exceed 48 hours during any calendar year).

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

(a) The permittee shall ensure that the total natural gas usage for the boilers (Source ID(s): 031, 032 and 033A) shall not exceed 178.76 million cubic feet on a twelve (12) month rolling sum.

(b) The permittee shall ensure that total No. 2 fuel oil usage for the boilers (Source ID(s): 031, 032 and 033A) shall not exceed 314,828 gallons on a twelve (12) month rolling sum.

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

(a) If this source should ever use No. 2 fuel oil for 30 or more cumulative days within a 12-month rolling period, the permittee shall perform stack testing while burning No. 2 fuel oil to measure emissions of NO_x and CO, to demonstrate compliance with the short-term emission limits for NO_x and CO. Stack testing shall be performed no later than 120 days following the 30th day of cumulative fuel oil usage. This required stack testing is a one-time requirement, unless the Department deems it necessary to require future testing.

(b) The stack test on this boiler shall be conducted in accordance with the provisions of Chapter 139 of the Pennsylvania Code, using the Department-approved procedures. 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.

(c) At least ninety (90) days prior to the test(s), the company 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(s), 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), copies of the complete test report, which includes all operating conditions and meets the requirements under Section C (Testing Requirements) of this operating permit, shall be submitted to DEP for approval.

(f) The permittee shall submit one paper copy plus one electronic copy of all source test submissions (notifications, protocols, reports, supplemental information, etc.) to both the AQ Program Manager for the Southeast Regional Office and the PSIMS Administrator in Central Office (mail and email addresses are provided under Section C of this operating permit, under Testing Requirements).

(g) 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.

**SECTION D. Source Level Requirements****# 009 [25 Pa. Code §139.16]****Sulfur in fuel oil.**

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

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

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

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

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

[Compliance with this streamlined permit condition, paragraph (b) assures compliance with §§40 CFR 60.42c(h)(1) and 60.48c(f)(1).]

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

The permittee shall monitor the following for the boiler on a monthly basis:

- (a) The amount and type of fuel used.
- (b) The hours of operations.
- (c) Emissions of NO_x, in tons.

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

Each adjustment conducted under the tune-up procedures for this source shall be recorded in a permanently bound log book and contain the following:

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

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

The permittee shall maintain records of the following for the boiler on a monthly basis:

- (a) The amount and type of fuel used.
- (b) The hours of operations.
- (c) Emissions of NO_x, in tons and tons per 12-month rolling period.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 123.22 and 40 C.F.R. Part 60, Subpart Dc]

- (a) The permittee shall keep records of fuel supplier certification that shall include the following information for each delivery

**SECTION D. Source Level Requirements**

of distillate oil:

- (1) The name of the oil supplier.
 - (2) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 C.F.R. § 60.41c.
 - (3) A statement that the sulfur content of the fuel oil does not exceed 500 ppm by weight, up until August 31, 2020; thereafter, a statement that the sulfur content of the fuel oil does not exceed 15 ppm by weight.
- (b) In the event that a delivery is made, and no receipt is obtained, the permittee shall perform testing in accordance with 40 C.F.R. §§ 60.44c(g) and 60.46c(d)(2) and 25 Pa. Code § 139.16. The necessary samples shall be taken within one (1) business day of the delivery and sent off to a lab for analysis, within that same time-frame. If the oil does not comply with the conditions of this permit, the permittee shall notify the Department of the results within 1 business day of receiving the results.

**# 014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]
Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units
Reporting and recordkeeping requirements.**

- (a) Except as noted in paragraph (b) below, the permittee shall maintain daily fuel consumption records in accordance with 40 C.F.R. § 60.48c(g). These records shall contain the amount and type of fuel combusted.
- (b) As provided by 40 C.F.R. § 60.48(g)(2), as an alternate to meeting the requirements of paragraph (a) of this condition, the owner/operator of an affected facility that combusts natural gas or a fuel using fuel certification to demonstrate compliance with sulfur dioxide limits in Subpart Dc, may elect to record and maintain records of the amount of each fuel combusted during each calendar month.

**# 015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11195]
SUBPART JJJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources
Are any boilers not subject to this subpart?**

Whenever No. 2 fuel oil is used the permittee shall document the reason for using No. 2 fuel oil.

- (a) If No. 2 fuel oil is used because of gas curtailment or a gas supply emergency, the the permittee shall obtain the necessary documents to prove that a gas curtailment or gas supply emergency occurred.
- (b) If No. 2 fuel oil is used for periodic testing, then the permittee shall document this and the number of hours that the boiler operated on No. 2 fuel oil.

V. REPORTING REQUIREMENTS.

**# 016 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]
Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units
Reporting and recordkeeping requirements.**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 60.19(f)]

- (a) The permittee shall submit semi-annual reports for fuel oil usage and certification to the U.S. EPA and the Department in the following manner:
- (1) For each period between January 1 to June 30, the permittee shall submit reports for the 6 month period to the U.S. EPA and the Department no later than July 30 after the reporting period.
 - (2) For each period between July 1 to December 31, the permittee shall submit reports for the 6 month period to the U.S. EPA and the Department no later than January 30 after the reporting period.
- (b) The reports required in paragraph (a), above, shall include, but is not limited to, the following:

**SECTION D. Source Level Requirements**

- (1) The calendar dates covered in the reporting period.
- (2) Each 30-day average sulfur content (weight percent), calculated during the reporting period, ending with the last 30-day period.
- (3) The reasons for any non-compliance with sulfur dioxide emissions standards and the corrective actions taken.
- (4) A certified statement signed by the owner/operator of the affected facility that the records of fuel supplier certifications submitted represent all the fuel combusted during the reporting period.

**# 017 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]
Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.**

The owner or operator of each combustion unit subject to the SO₂ emission limits of 40 C.F.R. § 60.42c, shall submit to the EPA Administrator and the Department, the performance test data from the initial and any subsequent performance tests.

VI. WORK PRACTICE REQUIREMENTS.

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

(a) The permittee shall perform an annual tune-up on the combustion process for this source. The annual tune-up shall consist of, at a minimum, the following:

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

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

VII. ADDITIONAL REQUIREMENTS.

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

Source ID 033A (B&W Boiler 3) is manufactured by Babcock and Wilcox, Model No. 201-3430, rated at 43.8 MMBtu/hr.

**# 020 [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?**

(a) This combustion unit is exempted from the regulatory requirements of 40 C.F.R. Part 63, Subpart JJJJJJ, in the category of "gas-fired boiler".

(b) A "gas-fired boiler" includes any boiler that burns gaseous fuels not combined with any solid fuels, burns 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.

(c) Usage of liquid fuel in exceedance of the 48 hours per year for periodic testing will result in the loss of the exemption status as a "gas-fired boiler" and this combustion unit will be subjected to the applicable requirements of 40 C.F.R. Part 63, Subpart JJJJJJ.

**SECTION D. Source Level Requirements**

Source ID: 101

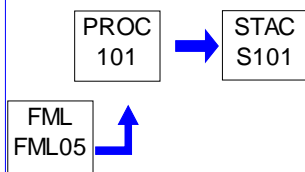
Source Name: MISC. DIESEL FUEL-FIRED GENERATORS

Source Capacity/Throughput:

3.655 MMBTU/HR

26.680 Gal/HR

Diesel Fuel

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

Operation Hours Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each emergency generator covered under Source ID 101 shall be restricted to 500 hours of operation per 12-month rolling period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall monitor the hours of operation for each emergency generator under Source ID 101, along with the reason it was operated, on a monthly basis and on a 12-month rolling basis.

(b) The permittee shall monitor the amount of fuel used for each emergency generator under Source ID 101 on a monthly basis and on a 12-month rolling basis.

(c) The permittee shall monitor emissions of NO_x from Source ID 101 on a monthly basis and on a 12-month rolling basis.

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall record the hours of operation for each emergency generator under Source ID 101, along with the reason it was operated, on a monthly basis and on a 12-month rolling basis.

(b) The permittee shall record the amount of fuel used for each emergency generator under Source ID 101 on a monthly basis and on a 12-month rolling basis.

(c) The permittee shall calculate and record emissions of NO_x from Source ID 101 on a monthly basis and on a 12-month rolling basis.

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

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

VI. WORK PRACTICE REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR § 63.6585(f)]

The Bldg. 55 Volvo engine and the Bldg. 90 CAT engine shall not operate or be contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR §§ 63.6640(f)(2)(ii) and (iii), nor shall they operate for the purpose specified in 40 CFR § 63.6640(f)(4)(ii).

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The following units are part of the source group Diesel Fuel-Fired Generators (Source ID: 101):

Bldg No.	Location	Generator Specifications			Engine Specifications	
		Make	Model	Size (kW)	Make	Model
55	Sewage Treat. Plant	Kohler	250REOZV	280	Volvo	TAD1031GE
90	Frank N. Hilton PH	Cummins	80C2	80	Cummins	6BT5.9 G-1

**SECTION D. Source Level Requirements**

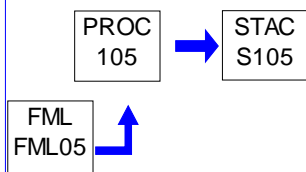
Source ID: 105

Source Name: 1,500 KW DIESEL GENERATOR 1

Source Capacity/Throughput: 15.210 MMBTU/HR

111.000 Gal/HR

Diesel Fuel

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

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

Visible emissions from the diesel generator stack shall not exceed the following limitations:

- (a) Equal to or greater than 10% for a period or periods aggregating more than three (3) minutes in any one (1) hour; and,
- (b) Equal to or greater than 30% at any time.

[Compliance with the above emission limitations assures compliance with 25. Pa. Code § 123.41 and 40 CFR § 60.4202]

003 [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 co**

[Additional authority for this permit condition is also derived from 40 CFR § 60.4202]

Source ID 105 shall be certified to meet the following emission rates:

- (a) Non-methane Hydrocarbons (NMHC) + Nitrogen Oxides (NO_x) - 6.4 g/kW-hr*
- (b) Carbon Monoxide (CO) - 3.5 g/kW-hr
- (c) Particulate Matter (PM) - 0.20 g/kW-hr

*Compliance with Tier 2 is demonstrated through EPA Certification Engine Family 7MDDL95.4XTR and EPA Certification Executive Order U-R-052-0003-2.

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

The permittee shall only use diesel fuel in Source ID 105 that meets the following parameters:

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

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

This source shall not operate more than 100 hours per 12-month rolling period.

II. TESTING REQUIREMENTS.**# 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 also derived from 40 CFR § 60.4212]

If performance testing is conducted on Source ID 105, performance testing shall be conducted in accordance with 40 CFR § 60.4212, and the permittee shall meet the not-to-exceed (NTE) standards as indicated in § 60.4212.

007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]**Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?**

If the permittee does not install, configure, operate, and maintain Source ID 105 according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must demonstrate compliance as follows:

(a) The permittee must conduct an initial performance test to demonstrate compliance with Tier 2 emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after the permittee changes emission-related settings in a way that is not permitted by the manufacturer.

(b) The permittee must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with Tier 2 emission standards.

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

(a) The permittee shall monitor the hours of operation from this source, along with the reason it was operated, on a monthly basis and on 12-month rolling basis.

(b) The permittee shall monitor fuel usage from this source on a monthly basis and on a 12-month rolling basis.

(c) The permittee shall monitor emissions of NO_x from this source on a monthly basis and on a 12-month rolling basis.

009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4209]**Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are the monitoring requirements if I am an owner or operator of a stationary CI internal combustion engine?**

Source ID 105 shall be equipped with a non-resettable hour meter.

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

(a) The permittee shall record the fuel usage from this source on a monthly basis and on a 12-month rolling basis.

(b) The permittee shall calculate and record emissions of NO_x from this source on a monthly basis and on a 12-month rolling basis.

**SECTION D. Source Level Requirements****# 011 [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 maintain the necessary documents to demonstrate that Source ID 105 was purchased as a certified engine meeting Tier 2 emission standards.

012 [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?**

If the permittee does not install, configure, operate, and maintain Source ID 105 according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must:

- (a) Keep a maintenance plan and records of conducted maintenance.
- (b) Maintain records and reports of performance testing conducted on Source ID 105, as would be required per 40 CFR § 60.4211.

013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4214]**Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?**

The permittee must keep records of the operation of Source ID 105 that specify the hours of operation used for emergency service and separately specify the hours of operation for non-emergency service. The owner must record the time of operation and the reason the engine was in operation during that time.

V. REPORTING REQUIREMENTS.**# 014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4214]****Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?**

If Source ID 105 is used to supply power as part of a financial arrangement with another entity (as allowed under 40 CFR Part 60, Subpart IIII), the permittee must submit an annual report according to the following conditions:

- (a) The report must contain the following information:
 - (1) Company name and address where the engine is located.
 - (2) Date of the report and beginning and ending dates of the reporting period.
 - (3) Engine site rating and model year.
 - (4) Latitude and longitude of the engines in decimal degrees reported to the fifth decimal place.
 - (5) Hours spent for operation where Source ID 105 is used to supply power as part of a financial arrangement with another, including the date, start time, and end time for engine operation for that purpose. The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.
- (b) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.
- (c) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX)

**SECTION D. Source Level Requirements**

(www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the DEP and EPA at the appropriate address listed in 40 CFR § 60.4.

VI. WORK PRACTICE REQUIREMENTS.**# 015 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]****Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?**

(a) The permittee shall comply with the following requirements, except as permitted under paragraph (c) of this condition:

(1) Install, configure, operate, and maintain Source ID 105 according to the manufacturer's emission-related written instructions; and,

(2) Change only those emission-related settings that are permitted by the manufacturer.

(b) Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (b)(1) and (b)(2) of this condition, is prohibited.

(1) The permittee may operate Source ID 105 for a maximum of 100 hours per calendar year for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the DEP for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of Source ID 105 beyond 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (b)(2) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (b)(1).

(2) Source ID 105 may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in paragraph (b)(1) of this condition.

(i) Except as provided in paragraph (b)(2)(ii) of this condition, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

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

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

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

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

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

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

(c) If the permittee does not install, configure, operate, and maintain Source ID 105 according to the manufacturer's

**SECTION D. Source Level Requirements**

emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must demonstrate compliance as follows:

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

(2) The permittee must conduct performance test as described under Testing Requirements.

(d) On May 1, 2015, the United States Court of Appeals for the DC Circuit vacated 40 CFR §§ 60.4211(f)(2)(ii) – (iii). Until the vacated conditions are revised, Source ID 105 may NOT be operated for emergency demand response or for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

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

Source ID 105 is an emergency generator, rated for 1,500 kW (2,328 bhp). The generator is manufactured by MTU, Model No. 1500-XC6DT2. The engine is manufactured by Detroit Diesel, Model No. 12V 4000 G43, with a maximum fuel rate of 111 gal/hr.

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

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

018 [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 this source during the period from May 1 through September 30 and the allowable emissions for that period.

(b) The permittee shall calculate allowable emissions by multiplying the cumulative hours of operation for this source for the period by the horsepower rating of this source and by the following applicable emission rate: for a compression ignition stationary internal combustion engine firing diesel fuel or a combination of diesel fuel and natural gas, 2.3 grams of nitrogen oxides per brake horsepower-hour.

(c) Emissions from a stationary internal combustion engine that has been or is replaced by an electric motor may be counted as allowable emissions for purposes of this section and 25 Pa. Code § 129.204, as follows: for a replaced compression ignition stationary internal combustion engine that fired diesel fuel or a combination of diesel fuel and natural gas, 2.3 grams of NO_x per brake horsepower-hour, less 1.5 pounds of NO_x per MWH of electricity consumed by the replacement motor.

019 [25 Pa. Code §129.204]**Emission accountability.**

The permittee shall determine the actual emissions between May 1 and September 30 of each year in accordance with one of the following methods for a unit not required to monitor nitrogen oxide emissions through CEMS:

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

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

**SECTION D. Source Level Requirements**

(1) 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."

(2) 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.

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

(d) An alternate calculation and recordkeeping procedure based upon emissions testing and correlations with operating parameters. The operator of the unit shall demonstrate that the alternate procedure does not underestimate actual emissions throughout the allowable range of operating conditions. The alternate calculation and recordkeeping procedures must be approved by the Department, in writing, prior to implementation.

020 [25 Pa. Code §129.204]**Emission accountability.**

(a) The owner or operator of a unit subject to 25 Pa. Code § 129.204 shall surrender to the Department one CAIR NO_x allowance and one CAIR NO_x Ozone Season allowance, as defined in 40 CFR 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 owner or operator may deduct the difference or any portion of the difference from the amount of actual emissions from units subject to this section at the owner or operator's other facilities.

(c) By November 1 of each year, an owner or operator of a unit subject to this section shall surrender the required 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 an owner or operator fails to comply with paragraph (c), above, the owner or operator shall by December 31 surrender three NO_x allowances of the current or later year vintage for each NO_x allowance that was required to be surrendered by November 1 of that year.

(e) The surrender of NO_x allowances under paragraph (d), above, does not affect the liability of the owner or operator of the unit for any fine, penalty or assessment, or an obligation to comply with any other remedy for the same violation, under the CAA or the act.

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

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

[Note: CAIR has been replaced by CSAPR. Beginning May 1, 2021, the permittee shall comply with CSAPR rule as promulgated in 40 CFR parts 51, 52, 78 and 97 as published in the Federal Registrar, Vol. 86, No. 82 April 30, 2021.]

**SECTION D. Source Level Requirements****# 021 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4200]****Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****Am I subject to this subpart?**

(a) This 1,500-kW diesel fuel-fired generator is classified as an emergency reciprocating internal combustion engine (RICE), located at an area or minor source of hazardous air pollutants (HAPs) and is subject to the provisions of 40 CFR Part 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Combustion Engines.

(b) The permittee shall comply with applicable requirements of 40 CFR §§ 60.4200 through 60.4219 for stationary compression ignition (CI) internal combustion engines (ICE) with a displacement less than 30 liters per cylinders where the model year is 2007 or later, for engines that are not fire pumps.

**SECTION D. Source Level Requirements**

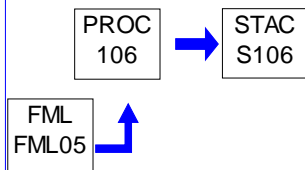
Source ID: 106

Source Name: 1,500 KW DIESEL GENERATOR 2

Source Capacity/Throughput: 15.210 MMBTU/HR

111.000 Gal/HR

Diesel Fuel

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

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

Visible emissions from the diesel generator stack shall not exceed the following limitations:

- (a) Equal to or greater than 10% for a period or periods aggregating more than three (3) minutes in any one (1) hour; and,
- (b) Equal to or greater than 30% at any time.

[Compliance with the above emission limitations assures compliance with 25. Pa. Code § 123.41 and 40 CFR § 60.4202]

003 [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**

[Additional authority for this permit condition is also derived from 40 CFR § 60.4202]

Source ID 106 shall be certified to meet the following emission rates:

- (a) Non-methane Hydrocarbons (NMHC) + Nitrogen Oxides (NO_x) - 6.4 g/kW-hr*
- (b) Carbon Monoxide (CO) - 3.5 g/kW-hr
- (c) Particulate Matter (PM) - 0.20 g/kW-hr

*Compliance with Tier 2 is demonstrated through EPA Certification Engine Family 7MDDL95.4XTR and EPA Certification Executive Order U-R-052-0003-2.

Fuel Restriction(s).**# 004 [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**

The permittee shall only use diesel fuel in Source ID 106 that meets the following parameters:

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

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

This source shall not operate more than 100 hours per 12-month rolling period.

II. TESTING REQUIREMENTS.**# 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 also derived from 40 CFR § 60.4212]

If performance testing is conducted on Source ID 106, performance testing shall be conducted in accordance with 40 CFR § 60.4212, and the permittee shall meet the not-to-exceed (NTE) standards as indicated in § 60.4212.

007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]**Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?**

If the permittee does not install, configure, operate, and maintain Source ID 106 according to the manufacturer's emission related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must demonstrate compliance as follows:

- (a) The permittee must conduct an initial performance test to demonstrate compliance with Tier 2 emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after the permittee changes emission-related settings in a way that is not permitted by the manufacturer.
- (b) The permittee must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with Tier 2 emission standards.

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

- (a) The permittee shall monitor the hours of operation from this source, along with the reason it was operated, on a monthly basis and on 12-month rolling basis.
- (b) The permittee shall monitor fuel usage from this source on a monthly basis and on a 12-month rolling basis.
- (c) The permittee shall monitor emissions of NO_x from this source on a monthly basis and on a 12-month rolling basis.

009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4209]**Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are the monitoring requirements if I am an owner or operator of a stationary CI internal combustion engine?**

Source ID 106 shall be equipped with a non-resettable hour meter.

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

- (a) The permittee shall record the fuel usage from this source on a monthly basis and on a 12-month rolling basis.
- (b) The permittee shall calculate and record emissions of NO_x from this source on a monthly basis and on a 12-month rolling basis.

**SECTION D. Source Level Requirements****# 011 [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 maintain the necessary documents to demonstrate that Source ID 106 was purchased as a certified engine meeting Tier 2 emission standards.

012 [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?**

If the permittee does not install, configure, operate, and maintain Source ID 106 according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must:

- (a) Keep a maintenance plan and records of conducted maintenance.
- (b) Maintain records and reports of performance testing conducted on Source ID 106, as would be required per 40 CFR § 60.4211.

013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4214]**Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?**

The permittee must keep records of the operation of Source ID 106 that specify the hours of operation used for emergency service and separately specify the hours of operation for non-emergency service. The owner must record the time of operation and the reason the engine was in operation during that time.

V. REPORTING REQUIREMENTS.**# 014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4214]****Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?**

If Source ID 106 is used to supply power as part of a financial arrangement with another entity (as allowed under 40 CFR Part 60, Subpart IIII), the permittee must submit an annual report according to the following conditions:

- (a) The report must contain the following information:
 - (1) Company name and address where the engine is located.
 - (2) Date of the report and beginning and ending dates of the reporting period.
 - (3) Engine site rating and model year.
 - (4) Latitude and longitude of the engines in decimal degrees reported to the fifth decimal place.
 - (5) Hours spent for operation where Source ID 106 is used to supply power as part of a financial arrangement with another, including the date, start time, and end time for engine operation for that purpose. The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.
- (b) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.
- (c) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX)

**SECTION D. Source Level Requirements**

(www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the DEP and EPA at the appropriate address listed in 40 CFR § 60.4.

VI. WORK PRACTICE REQUIREMENTS.**# 015 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]****Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?**

(a) The permittee shall comply with the following requirements, except as permitted under paragraph (c) of this condition:

(1) Install, configure, operate, and maintain Source ID 106 according to the manufacturer's emission-related written instructions; and,

(2) Change only those emission-related settings that are permitted by the manufacturer.

(b) Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (b)(1) and (b)(2) of this condition, is prohibited.

(1) The permittee may operate Source ID 106 for a maximum of 100 hours per calendar year for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the DEP for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of Source ID 106 beyond 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (b)(2) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (b)(1).

(2) Source ID 106 may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in paragraph (b)(1) of this condition.

(i) Except as provided in paragraph (b)(2)(ii) of this condition, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

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

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

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

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

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

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

(c) If the permittee does not install, configure, operate, and maintain Source ID 106 according to the manufacturer's

**SECTION D. Source Level Requirements**

emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must demonstrate compliance as follows:

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

(2) The permittee must conduct performance test as described under Testing Requirements.

(d) On May 1, 2015, the United States Court of Appeals for the DC Circuit vacated 40 CFR §§ 60.4211(f)(2)(ii) – (iii). Until the vacated conditions are revised, Source ID 106 may NOT be operated for emergency demand response or for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

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

Source ID 106 is an emergency generator, rated for 1,500 kW (2,328 bhp). The generator is manufactured by MTU, Model No. 1500-XC6DT2. The engine is manufactured by Detroit Diesel, Model No. 12V 4000 G43, with a maximum fuel rate of 111 gal/hr.

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

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

018 [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 this source during the period from May 1 through September 30 and the allowable emissions for that period.

(b) The permittee shall calculate allowable emissions by multiplying the cumulative hours of operation for this source for the period by the horsepower rating of this source and by the following applicable emission rate: for a compression ignition stationary internal combustion engine firing diesel fuel or a combination of diesel fuel and natural gas, 2.3 grams of nitrogen oxides per brake horsepower-hour.

(c) Emissions from a stationary internal combustion engine that has been or is replaced by an electric motor may be counted as allowable emissions for purposes of this section and 25 Pa. Code § 129.204, as follows: for a replaced compression ignition stationary internal combustion engine that fired diesel fuel or a combination of diesel fuel and natural gas, 2.3 grams of NO_x per brake horsepower-hour, less 1.5 pounds of NO_x per MWH of electricity consumed by the replacement motor.

019 [25 Pa. Code §129.204]**Emission accountability.**

The permittee shall determine the actual emissions between May 1 and September 30 of each year in accordance with one of the following methods for a unit not required to monitor nitrogen oxide emissions through CEMS:

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

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

**SECTION D. Source Level Requirements**

(1) 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."

(2) 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.

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

(d) An alternate calculation and recordkeeping procedure based upon emissions testing and correlations with operating parameters. The operator of the unit shall demonstrate that the alternate procedure does not underestimate actual emissions throughout the allowable range of operating conditions. The alternate calculation and recordkeeping procedures must be approved by the Department, in writing, prior to implementation.

020 [25 Pa. Code §129.204]**Emission accountability.**

(a) The owner or operator of a unit subject to 25 Pa. Code § 129.204 shall surrender to the Department one CAIR NO_x allowance and one CAIR NO_x Ozone Season allowance, as defined in 40 CFR 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 owner or operator may deduct the difference or any portion of the difference from the amount of actual emissions from units subject to this section at the owner or operator's other facilities.

(c) By November 1 of each year, an owner or operator of a unit subject to this section shall surrender the required 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 an owner or operator fails to comply with paragraph (c), above, the owner or operator shall by December 31 surrender three NO_x allowances of the current or later year vintage for each NO_x allowance that was required to be surrendered by November 1 of that year.

(e) The surrender of NO_x allowances under paragraph (d), above, does not affect the liability of the owner or operator of the unit for any fine, penalty or assessment, or an obligation to comply with any other remedy for the same violation, under the CAA or the act.

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

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

[Note: CAIR has been replaced by CSAPR. Beginning May 1, 2021, the permittee shall comply with CSAPR rule as promulgated in 40 CFR parts 51, 52, 78 and 97 as published in the Federal Registrar, Vol. 86, No. 82 April 30, 2021.]

**SECTION D. Source Level Requirements****# 021 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4200]****Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****Am I subject to this subpart?**

(a) This 1,500-kW diesel fuel-fired generator is classified as an emergency reciprocating internal combustion engine (RICE), located at an area or minor source of hazardous air pollutants (HAPs) and is subject to the provisions of 40 CFR Part 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Combustion Engines.

(b) The permittee shall comply with applicable requirements of 40 CFR §§ 60.4200 through 60.4219 for stationary compression ignition (CI) internal combustion engines (ICE) with a displacement less than 30 liters per cylinders where the model year is 2007 or later, for engines that are not fire pumps.

**SECTION D. Source Level Requirements**

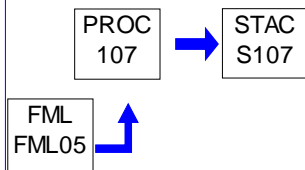
Source ID: 107

Source Name: 1,500 KW DIESEL GENERATOR 3

Source Capacity/Throughput: 14.330 MMBTU/HR

104.600 Gal/HR

Diesel Fuel

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

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

Visible emissions from the diesel generator stack shall not exceed the following limitations:

- (a) Equal to or greater than 10% for a period or periods aggregating more than three (3) minutes in any one (1) hour; and,
- (b) Equal to or greater than 30% at any time.

[Compliance with the above emission limitations assures compliance with 25. Pa. Code § 123.41 and 40 CFR § 60.4202]

003 [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**

[Additional authority for this permit condition is also derived from 40 CFR § 60.4202]

Source ID 107 shall be certified to meet the following emission rates:

- (a) Non-methane Hydrocarbons (NMHC) + Nitrogen Oxides (NO_x) - 6.4 g/kW-hr*
- (b) Carbon Monoxide (CO) - 3.5 g/kW-hr
- (c) Particulate Matter (PM) - 0.20 g/kW-hr

*Compliance with Tier 2 is demonstrated through EPA Certification Engine Family 7MDDL95.4XTR and EPA Certification Executive Order U-R-052-0003-2.

Fuel Restriction(s).**# 004 [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 t**

The permittee shall only use diesel fuel in Source ID 107 that meets the following parameters:

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

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

This source shall not operate more than 100 hours per 12-month rolling period.

II. TESTING REQUIREMENTS.**# 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 also derived from 40 CFR § 60.4212]

If performance testing is conducted on Source ID 107, performance testing shall be conducted in accordance with 40 CFR § 60.4212, and the permittee shall meet the not-to-exceed (NTE) standards as indicated in § 60.4212.

007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]**Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?**

If the permittee does not install, configure, operate, and maintain Source ID 107 according to the manufacturer's emission related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must demonstrate compliance as follows:

- (a) The permittee must conduct an initial performance test to demonstrate compliance with Tier 2 emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after the permittee changes emission-related settings in a way that is not permitted by the manufacturer.
- (b) The permittee must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with Tier 2 emission standards.

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

- (a) The permittee shall monitor the hours of operation from this source, along with the reason it was operated, on a monthly basis and on 12-month rolling basis.
- (b) The permittee shall monitor fuel usage from this source on a monthly basis and on a 12-month rolling basis.
- (c) The permittee shall monitor emissions of NOx from this source on a monthly basis and on a 12-month rolling basis.

009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4209]**Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are the monitoring requirements if I am an owner or operator of a stationary CI internal combustion engine?**

Source ID 107 shall be equipped with a non-resettable hour meter.

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

- (a) The permittee shall record the fuel usage from this source on a monthly basis and on a 12-month rolling basis.
- (b) The permittee shall calculate and record emissions of NOx from this source on a monthly basis and on a 12-month rolling basis.

**SECTION D. Source Level Requirements****# 011 [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 maintain the necessary documents to demonstrate that Source ID 107 was purchased as a certified engine meeting Tier 2 emission standards.

012 [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?**

If the permittee does not install, configure, operate, and maintain Source ID 107 according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must:

- (a) Keep a maintenance plan and records of conducted maintenance.
- (b) Maintain records and reports of performance testing conducted on Source ID 107, as would be required per 40 CFR § 60.4211.

013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4214]**Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?**

The permittee must keep records of the operation of Source ID 107 that specify the hours of operation used for emergency service and separately specify the hours of operation for non-emergency service. The owner must record the time of operation and the reason the engine was in operation during that time.

V. REPORTING REQUIREMENTS.**# 014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4214]****Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?**

If Source ID 107 is used to supply power as part of a financial arrangement with another entity (as allowed under 40 CFR Part 60, Subpart IIII), the permittee must submit an annual report according to the following conditions:

- (a) The report must contain the following information:
 - (1) Company name and address where the engine is located.
 - (2) Date of the report and beginning and ending dates of the reporting period.
 - (3) Engine site rating and model year.
 - (4) Latitude and longitude of the engines in decimal degrees reported to the fifth decimal place.
 - (5) Hours spent for operation where Source ID 107 is used to supply power as part of a financial arrangement with another, including the date, start time, and end time for engine operation for that purpose. The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.
- (b) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.
- (c) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX)

**SECTION D. Source Level Requirements**

(www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the DEP and EPA at the appropriate address listed in 40 CFR § 60.4.

VI. WORK PRACTICE REQUIREMENTS.**# 015 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]****Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?**

(a) The permittee shall comply with the following requirements, except as permitted under paragraph (c) of this condition:

(1) Install, configure, operate, and maintain Source ID 107 according to the manufacturer's emission-related written instructions; and,

(2) Change only those emission-related settings that are permitted by the manufacturer.

(b) Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (b)(1) and (b)(2) of this condition, is prohibited.

(1) The permittee may operate Source ID 107 for a maximum of 100 hours per calendar year for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the DEP for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of Source ID 107 beyond 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (b)(2) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (b)(1).

(2) Source ID 107 may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in paragraph (b)(1) of this condition.

(i) Except as provided in paragraph (b)(2)(ii) of this condition, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

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

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

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

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

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

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

(c) If the permittee does not install, configure, operate, and maintain Source ID 107 according to the manufacturer's

**SECTION D. Source Level Requirements**

emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must demonstrate compliance as follows:

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

(2) The permittee must conduct performance test as described under Testing Requirements.

(d) On May 1, 2015, the United States Court of Appeals for the DC Circuit vacated 40 CFR §§ 60.4211(f)(2)(ii) – (iii). Until the vacated conditions are revised, Source ID 107 may NOT be operated for emergency demand response or for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

VII. ADDITIONAL REQUIREMENTS.**# 016 [25 Pa. Code §127.203]****Facilities subject to special permit requirements.**

(a) By October 31 of each year the permittee shall calculate the difference between the actual emissions from this source during the period from May 1 through September 30 and the allowable emissions for that period.

(b) The permittee shall calculate allowable emissions by multiplying the cumulative hours of operation for this source for the period by the horsepower rating of this source and by the following applicable emission rate: for a compression ignition stationary internal combustion engine firing diesel fuel or a combination of diesel fuel and natural gas, 2.3 grams of nitrogen oxides per brake horsepower-hour.

(c) Emissions from a stationary internal combustion engine that has been or is replaced by an electric motor may be counted as allowable emissions for purposes of this section and 25 Pa. Code § 129.204, as follows: for a replaced compression ignition stationary internal combustion engine that fired diesel fuel or a combination of diesel fuel and natural gas, 2.3 grams of NOx per brake horsepower-hour, less 1.5 pounds of NOx per MWH of electricity consumed by the replacement motor.

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

Source ID 107 is an emergency generator, rated for 1,500 kW (2,206 bhp). The generator is manufactured by Caterpillar, Model No. SR4B-6D. The engine is manufactured by Caterpillar, Model No. 3512C, with a maximum fuel rate of 104.6 gal/hr.

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

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

019 [25 Pa. Code §129.204]**Emission accountability.**

(a) The owner or operator of a unit subject to 25 Pa. Code § 129.204 shall surrender to the Department one CAIR NOx allowance and one CAIR NOx Ozone Season allowance, as defined in 40 CFR 96.102 and 96.302 (relating to definitions), for each ton of NOx by which the combined actual emissions exceed the allowable emissions of the units subject to this section at a facility from May 1 through September 30. The surrendered allowances shall be of current year vintage. For the purpose of determining the amount of allowances to surrender, any remaining fraction of a ton equal to or greater than 0.50 ton is deemed to equal 1 ton and any fraction of a ton less than 0.50 ton is deemed to equal zero tons.

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

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

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

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

(e) The surrender of NOx allowances under paragraph (d), above, does not affect the liability of the owner or operator of the unit for any fine, penalty or assessment, or an obligation to comply with any other remedy for the same violation, under the CAA or the act.

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

[Note: CAIR has been replaced by CSAPR. Beginning May 1, 2021, the permittee shall comply with CSAPR rule as promulgated in 40 CFR parts 51, 52, 78 and 97 as published in the Federal Registrar, Vol. 86, No. 82 April 30, 2021.]

020 [25 Pa. Code §129.204]**Emission accountability.**

The permittee shall determine the actual emissions between May 1 and September 30 of each year in accordance with one of the following methods for a unit not required to monitor nitrogen oxide emissions through CEMS:

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

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

- (1) 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."
- (2) 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.

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

(d) An alternate calculation and recordkeeping procedure based upon emissions testing and correlations with operating parameters. The operator of the unit shall demonstrate that the alternate procedure does not underestimate actual emissions throughout the allowable range of operating conditions. The alternate calculation and recordkeeping procedures must be approved by the Department, in writing, prior to implementation.

**SECTION D. Source Level Requirements****# 021 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4200]****Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****Am I subject to this subpart?**

(a) This 1,500-kW diesel fuel-fired generator is classified as an emergency reciprocating internal combustion engine (RICE), located at an area or minor source of hazardous air pollutants (HAPs) and is subject to the provisions of 40 CFR Part 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Combustion Engines.

(b) The permittee shall comply with applicable requirements of 40 CFR §§ 60.4200 through 60.4219 for stationary compression ignition (CI) internal combustion engines (ICE) with a displacement less than 30 liters per cylinders where the model year is 2007 or later, for engines that are not fire pumps.

**SECTION D. Source Level Requirements**

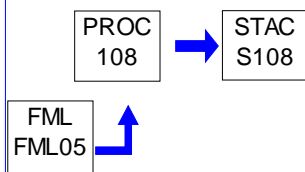
Source ID: 108

Source Name: 1,500 KW DIESEL GENERATOR 4

Source Capacity/Throughput: 14.330 MMBTU/HR

104.600 Gal/HR

Diesel Fuel

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

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

Visible emissions from the diesel generator stack shall not exceed the following limitations:

- (a) Equal to or greater than 10% for a period or periods aggregating more than three (3) minutes in any one (1) hour; and,
- (b) Equal to or greater than 30% at any time.

[Compliance with the above emission limitations assures compliance with 25. Pa. Code § 123.41 and 40 CFR § 60.4202]

003 [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**

[Additional authority for this permit condition is also derived from 40 CFR § 60.4202]

Source ID 108 shall be certified to meet the following emission rates:

- (a) Non-methane Hydrocarbons (NMHC) + Nitrogen Oxides (NO_x) - 6.4 g/kW-hr*
- (b) Carbon Monoxide (CO) - 3.5 g/kW-hr
- (c) Particulate Matter (PM) - 0.20 g/kW-hr

*Compliance with Tier 2 is demonstrated through EPA Certification Engine Family 7MDDL95.4XTR and EPA Certification Executive Order U-R-052-0003-2.

Fuel Restriction(s).**# 004 [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 t**

The permittee shall only use diesel fuel in Source ID 108 that meets the following parameters:

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

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

This source shall not operate more than 100 hours per 12-month rolling period.

II. TESTING REQUIREMENTS.**# 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 also derived from 40 CFR § 60.4212]

If performance testing is conducted on Source ID 108, performance testing shall be conducted in accordance with 40 CFR § 60.4212, and the permittee shall meet the not-to-exceed (NTE) standards as indicated in § 60.4212.

007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]**Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?**

If the permittee does not install, configure, operate, and maintain Source ID 108 according to the manufacturer's emission related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must demonstrate compliance as follows:

- (a) The permittee must conduct an initial performance test to demonstrate compliance with Tier 2 emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after the permittee changes emission-related settings in a way that is not permitted by the manufacturer.
- (b) The permittee must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with Tier 2 emission standards.

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

- (a) The permittee shall monitor the hours of operation from this source, along with the reason it was operated, on a monthly basis and on 12-month rolling basis.
- (b) The permittee shall monitor fuel usage from this source on a monthly basis and on a 12-month rolling basis.
- (c) The permittee shall monitor emissions of NOx from this source on a monthly basis and on a 12-month rolling basis.

009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4209]**Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are the monitoring requirements if I am an owner or operator of a stationary CI internal combustion engine?**

Source ID 108 shall be equipped with a non-resettable hour meter.

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

- (a) The permittee shall record the fuel usage from this source on a monthly basis and on a 12-month rolling basis.
- (b) The permittee shall calculate and record emissions of NOx from this source on a monthly basis and on a 12-month rolling basis.

**SECTION D. Source Level Requirements****# 011 [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 maintain the necessary documents to demonstrate that Source ID 108 was purchased as a certified engine meeting Tier 2 emission standards.

012 [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?**

If the permittee does not install, configure, operate, and maintain Source ID 108 according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must:

- (a) Keep a maintenance plan and records of conducted maintenance.
- (b) Maintain records and reports of performance testing conducted on Source ID 108, as would be required per 40 CFR § 60.4211.

013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4214]**Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?**

The permittee must keep records of the operation of Source ID 108 that specify the hours of operation used for emergency service and separately specify the hours of operation for non-emergency service. The owner must record the time of operation and the reason the engine was in operation during that time.

V. REPORTING REQUIREMENTS.**# 014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4214]****Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?**

If Source ID 108 is used to supply power as part of a financial arrangement with another entity (as allowed under 40 CFR Part 60, Subpart IIII), the permittee must submit an annual report according to the following conditions:

- (a) The report must contain the following information:
 - (1) Company name and address where the engine is located.
 - (2) Date of the report and beginning and ending dates of the reporting period.
 - (3) Engine site rating and model year.
 - (4) Latitude and longitude of the engines in decimal degrees reported to the fifth decimal place.
 - (5) Hours spent for operation where Source ID 108 is used to supply power as part of a financial arrangement with another, including the date, start time, and end time for engine operation for that purpose. The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.
- (b) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.
- (c) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX)

**SECTION D. Source Level Requirements**

(www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the DEP and EPA at the appropriate address listed in 40 CFR § 60.4.

VI. WORK PRACTICE REQUIREMENTS.**# 015 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]****Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?**

(a) The permittee shall comply with the following requirements, except as permitted under paragraph (c) of this condition:

(1) Install, configure, operate, and maintain Source ID 108 according to the manufacturer's emission-related written instructions; and,

(2) Change only those emission-related settings that are permitted by the manufacturer.

(b) Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (b)(1) and (b)(2) of this condition, is prohibited.

(1) The permittee may operate Source ID 108 for a maximum of 100 hours per calendar year for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the DEP for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of Source ID 108 beyond 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (b)(2) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (b)(1).

(2) Source ID 108 may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in paragraph (b)(1) of this condition.

(i) Except as provided in paragraph (b)(2)(ii) of this condition, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

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

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

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

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

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

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

(c) If the permittee does not install, configure, operate, and maintain Source ID 108 according to the manufacturer's

**SECTION D. Source Level Requirements**

emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must demonstrate compliance as follows:

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

(2) The permittee must conduct performance test as described under Testing Requirements.

(d) On May 1, 2015, the United States Court of Appeals for the DC Circuit vacated 40 CFR §§ 60.4211(f)(2)(ii) – (iii). Until the vacated conditions are revised, Source ID 108 may NOT be operated for emergency demand response or for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

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

Source ID 108 is an emergency generator, rated for 1,500 kW (2,206 bhp). The generator is manufactured by Caterpillar, Model No. SR4B-6D. The engine is manufactured by Caterpillar, Model No. 3512C, with a maximum fuel rate of 104.6 gal/hr.

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

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

018 [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 this source during the period from May 1 through September 30 and the allowable emissions for that period.

(b) The permittee shall calculate allowable emissions by multiplying the cumulative hours of operation for this source for the period by the horsepower rating of this source and by the following applicable emission rate: for a compression ignition stationary internal combustion engine firing diesel fuel or a combination of diesel fuel and natural gas, 2.3 grams of nitrogen oxides per brake horsepower-hour.

(c) Emissions from a stationary internal combustion engine that has been or is replaced by an electric motor may be counted as allowable emissions for purposes of this section and 25 Pa. Code § 129.204, as follows: for a replaced compression ignition stationary internal combustion engine that fired diesel fuel or a combination of diesel fuel and natural gas, 2.3 grams of NO_x per brake horsepower-hour, less 1.5 pounds of NO_x per MWH of electricity consumed by the replacement motor.

019 [25 Pa. Code §129.204]**Emission accountability.**

The permittee shall determine the actual emissions between May 1 and September 30 of each year in accordance with one of the following methods for a unit not required to monitor nitrogen oxide emissions through CEMS:

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

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

**SECTION D. Source Level Requirements**

(1) 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."

(2) 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.

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

(d) An alternate calculation and recordkeeping procedure based upon emissions testing and correlations with operating parameters. The operator of the unit shall demonstrate that the alternate procedure does not underestimate actual emissions throughout the allowable range of operating conditions. The alternate calculation and recordkeeping procedures must be approved by the Department, in writing, prior to implementation.

020 [25 Pa. Code §129.204]**Emission accountability.**

(a) The owner or operator of a unit subject to 25 Pa. Code § 129.204 shall surrender to the Department one CAIR NO_x allowance and one CAIR NO_x Ozone Season allowance, as defined in 40 CFR 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 owner or operator may deduct the difference or any portion of the difference from the amount of actual emissions from units subject to this section at the owner or operator's other facilities.

(c) By November 1 of each year, an owner or operator of a unit subject to this section shall surrender the required 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 an owner or operator fails to comply with paragraph (c), above, the owner or operator shall by December 31 surrender three NO_x allowances of the current or later year vintage for each NO_x allowance that was required to be surrendered by November 1 of that year.

(e) The surrender of NO_x allowances under paragraph (d), above, does not affect the liability of the owner or operator of the unit for any fine, penalty or assessment, or an obligation to comply with any other remedy for the same violation, under the CAA or the act.

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

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

[Note: CAIR has been replaced by CSAPR. Beginning May 1, 2021, the permittee shall comply with CSAPR rule as promulgated in 40 CFR parts 51, 52, 78 and 97 as published in the Federal Registrar, Vol. 86, No. 82 April 30, 2021.]

**SECTION D. Source Level Requirements****# 021 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4200]****Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****Am I subject to this subpart?**

(a) This 1,500-kW diesel fuel-fired generator is classified as an emergency reciprocating internal combustion engine (RICE), located at an area or minor source of hazardous air pollutants (HAPs) and is subject to the provisions of 40 CFR Part 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Combustion Engines.

(b) The permittee shall comply with applicable requirements of 40 CFR §§ 60.4200 through 60.4219 for stationary compression ignition (CI) internal combustion engines (ICE) with a displacement less than 30 liters per cylinders where the model year is 2007 or later, for engines that are not fire pumps.

**SECTION D. Source Level Requirements**

Source ID: 734A

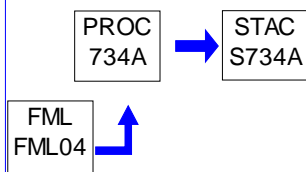
Source Name: MISC. NO. 2 FUEL OIL-FIRED COMBUSTION SOURCES

Source Capacity/Throughput:

0.561 MMBTU/HR

4.094 Gal/HR

#2 Oil

**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).

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

(a) The permittee shall use only No. 2 oil as fuel for the Misc. No. 2 Fuel Oil-Fired Combustion Sources (Source ID: 734A).

(b) Beginning September 1, 2020, the maximum sulfur content in commercial fuel oil shall not exceed 15 ppm (0.0015%) by weight for No. 2 fuel oil and lighter oil, except as specified in subparagraphs (ii) and (iii) of 25 Pa. Code § 123.22(e)(2).

(c) Commercial fuel oil that was stored in the Commonwealth of Pennsylvania by the ultimate consumer prior to September 1, 2020, which met the applicable maximum allowable sulfur content of 0.05% for commercial fuel oil through August 31, 2020, may be used by the ultimate consumer in the Commonwealth of Pennsylvania after September 1, 2020.

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

The permittee shall limit the use of No. 2 fuel oil for the boilers operated under Source ID 734A to 2,045 gallons per twelve (12) month rolling period.

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

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

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

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

**SECTION D. Source Level Requirements**

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

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

III. MONITORING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall monitor the amount of fuel used on a monthly basis for the Misc. No. 2 Fuel Oil-Fired Combustion Sources (Source ID: 734A).

(b) The permittee shall monitor emissions of NOx on a monthly basis.

IV. RECORDKEEPING REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain records of the amount of fuel used for the Misc. No. 2 Fuel Oil-Fired Combustion Sources on a monthly basis and on a 12-month rolling basis.

(b) The permittee shall calculate and record emissions of NOx, in tons, on a monthly basis and on a 12-month rolling basis.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep records of fuel supplier certification that shall include the following information for each delivery of distillate oil:

(1) The name of the oil supplier.

(2) A statement that the sulfur content of the fuel oil does not exceed 500 ppm by weight, up until August 31, 2020; thereafter, a statement that the sulfur content of the fuel oil does not exceed 15 ppm by weight.

(b) In the event that a delivery is made, and no receipt is obtained, the permittee shall perform testing in accordance with 25 Pa. Code § 139.16. The necessary samples shall be taken within one (1) business day of the delivery and sent off to a lab for analysis, within that same time-frame. If the oil does not comply with the conditions of this permit, the permittee shall notify the Department of the results within 1 business day of receiving the results.

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.

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

VII. ADDITIONAL REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The following units are part of the source group Misc. No. 2 Fuel Oil-Fired Combustion Sources (Source ID: 734A):

**SECTION D. Source Level Requirements**

Location (Bldg. No./ Bldg. Name)	Manufacturer	Model No.	Rated Capacity (BTU/hr)
31 / Development & Alumni ("Danjuma")	Weil-McLain	80/480	491,000
86 / Residence Duplex	Bryant	V3512621	102,750 (85,000)

**SECTION D. Source Level Requirements**

Source ID: 736

Source Name: MISC NATURAL GAS-FIRED COMBUSTION SOURCES

Source Capacity/Throughput: 15.230 MMBTU/HR

14,931.400 CF/HR

Natural Gas

**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 pound per million Btu of heat input, when the heat input to the combustion unit in millions of Btus per hour is greater than 2.5 but less than 50.

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).

Fuel Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall use only natural gas as fuel for the Misc. Natural Gas-Fired Combustion Sources (Source ID: 736).

Throughput Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit the use of natural gas for the boilers operated under Source ID 736 to 14.373 MMcf per twelve (12) month rolling period.

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.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall monitor the amount of fuel used on a monthly basis for the Misc. Natural Gas-Fired Combustion Sources (Source ID: 736).

(b) The permittee shall monitor emissions of NO_x on a monthly basis.

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

(a) The permittee shall maintain records of the amount of fuel used for the Misc. Natural Gas-Fired Combustion Sources (12 units) (Source ID: 736) on a monthly basis and on a 12-month rolling basis.

(b) The permittee shall calculate and record emissions of NO_x, in tons, on a monthly basis and on a 12-month rolling 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).

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).

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

The following units are part of this source group Misc. Natural Gas-Fired Combustion Sources (Source ID: 736):

Location (Bldg. No./ Bldg. Name)	Source Type	Manufacturer	Model No.	Rated Capacity (BTU/hr)
4 / Vail Hall	Water Heater	Lochinvar	KBN211	210,000
7 / Lincoln Hall	Water Heater	Lochinvar	KBN501	500,000
10 / McCauley Hall	Water Heater	Rinnai	R85	180,000 (x 2)
10 / McCauley Hall	Water Heater	Rinnai	RL75	180,000
12 / Rendall Hall	Water Heater	Weil-McLain	CGI-5-PIL	133,000
19 / Lincoln House	Boiler	Weil-McLain	CGI-7-PIN	200,000
22 / Alumni House	Boiler	Lochinvar Knight	BN501	467,000
26 / President's Residence	Boiler	Wayne	P265F BB DIN	200,000
41 / Life Science Bldg	Water Heater	Lochinvar-Power-fin	N1002	999,999
55 / Sewage Treatment Plant	Water Heater	Rezner	F50-E-3	40,000 (x 8)
55 / Sewage Treatment Plant	Furnace	Carrier	58MVP080-20	80,000
55 / Sewage Treatment Plant	Boiler	Lochinvar	EWN250PM	250,000
83 / Guest House	HVAC	Rheem	R92PA0701317MSA	70,000 (x 2)
84 / McRary Hall	Water Heater	Lochinvar/Copper-fin	CFL1260	1,260,000
85 / Residence Duplex	HVAC	Trane	XR95	92,150
85 / Residence Duplex	HVAC	Ameristar	M4CXC025BB1CAAA	100,000
89 / Wright Hall	Boiler	Lochinvar	PBN0752	150,000
89 / Wright Hall	Boiler	Lochinvar	EWL250	210,000
91 / Student Union Bldg	Boiler	Smith	19A Series	1,548,000
91 / Student Union Bldg	Water Heater	A.O. Smith	BTH250A 970	240,000
93 / Ware Center	Boiler	Fulton	ICW 10	420,000
100 / Ashmun Hall	Water Heater	Rinnai	RL94	199,000 (x 4)
101 / Lucy Laney Hall	Water Heater	Lochinvar	SWA285N	285,000 (x 2)
104 / Manuel Rivero Hall	Boiler	Clayton Industries	SFO-75N-L	3,188,000
104 / Manuel Rivero Hall	Water Heater	Lochinvar	SNR 201-100	199,999 (x 2)
105 / Langston Hughes Library	Boiler	LAARS	RHCH1600NACF2EXN	1,360,000
105 / Langston Hughes Library	Water Heater	Bradford White	PDV80T3005NA	300,000

**SECTION D. Source Level Requirements**

106 / Lorraine Hansberry Hall	Water Heater	Aerco KC	G-11-1911	965,000
106 / Lorraine Hansberry Hall	Water Heater	Aerco KC	G-10-2411	965,000
110 / Thurgood Marshall LLC	Boiler	Bryan	CLM300-S-01	2,400,000
110 / Thurgood Marshall LLC	Water Heater	Lochinvar	SNR201-100	199,999
116 / New Residence Hall (ASL)	Boiler	Bryan	RVH99-S-150-FDG	4,000,000
118 / New Science Center	Water Heater	T&T/Lanco Turbopower	500P 250A-TP	399,000
118 / New Science Center	Boiler	Bryan	AB150-W-FDG	1,500,000 (x 2)
118 / New Science Center	HVAC	McQuay	080STC	1,000,000 (x 7)
118 / New Science Center	Water Heater	PVI	500P 250A-TP	399,000
119 / L/C/A Student Center	Boiler	Lochinvar	PBN2001	2,000,000
119 / L/C/A Student Center	Water Heater	Raypak/Hi Delta	WH3-0752B	750,000
121 / Intl. Cultural Center	Boiler	Weil-McLain	LGB Series 2	1,368,900 (x 2)
122 / Stadium	Water Heater	Bradford White	TG-1501-N	150,000
122 / Stadium	Furnace	Greenheck	PVF 350H	252,000
--- / Field House	Water Heater	Aerco	AS-550153	930,000
--- / Field House	Water Heater	Bradford White	TG-1501-N	150,000



SECTION E. Source Group Restrictions.



SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this State Only facility.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Descriptor		
031	CLEAVER BROOKS BOILER 1		
Emission Limit			
300.000	PPMV	@ 3% O2	CO
30.000	PPMV	@ 3% O2; firing NG	NOX
90.000	PPMV	@ 3% O2; firing No. 2 FO	NOX
0.500	Lbs	Applies to burning fuel oil	SOX
1.200	Lbs/MMBTU	Applies to burning natural gas	SOX
0.400	Lbs/MMBTU		TSP
032	CLEAVER BROOKS BOILER 2		
Emission Limit			
300.000	PPMV	@ 3% O2	CO
30.000	PPMV	@ 3% O2; firing NG	NOX
90.000	PPMV	@ 3% O2; firing No. 2 FO	NOX
0.500	Lbs/MMBTU	Applies to burning fuel oil	SOX
1.200	Lbs/MMBTU	Applies to burning natural gas	SOX
0.400	Lbs/MMBTU		TSP
033A	B&W BOILER 3		
Emission Limit			
300.000	PPMV	@ 3% O2	CO
30.000	PPMV	@ 3% O2; firing NG	NOX
90.000	PPMV	@ 3% O2; firing No. 2 FO	NOX
0.500	Lbs/MMBTU	Applies to burning fuel oil	SOX
1.200	Lbs/MMBTU	Applies to burning natural gas	SOX
0.400	Lbs/MMBTU		TSP
101	MISC. DIESEL FUEL-FIRED GENERATORS		
Emission Limit			
500.000	PPMV	dry basis	SOX
105	1,500 KW DIESEL GENERATOR 1		
Emission Limit			
3.500	GRAMS/KW-Hr		CO
6.400	GRAMS/KW-Hr		NOx+NMHC
500.000	PPMV	Determined on a dry basis	SOX
0.200	GRAMS/KW-Hr		TSP
106	1,500 KW DIESEL GENERATOR 2		
Emission Limit			
3.500	GRAMS/KW-Hr		CO
6.400	GRAMS/KW-Hr		NOx+NMHC
500.000	PPMV	Determined on a dry basis	SOX
0.200	GRAMS/KW-Hr		TSP

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description
107	1,500 KW DIESEL GENERATOR 3
Emission Limit	
3.500 GRAMS/KW-Hr	CO
6.400 GRAMS/KW-Hr	NOx+NMHC
500.000 PPMV	Determined on a dry basis SOX
0.200 GRAMS/KW-Hr	TSP
108	1,500 KW DIESEL GENERATOR 4
Emission Limit	
3.500 GRAMS/KW-Hr	CO
6.400 GRAMS/KW-Hr	NOx+NMHC
500.000 PPMV	Determined on a dry basis SOX
0.200 GRAMS/KW-Hr	TSP
734A	MISC. NO. 2 FUEL OIL-FIRED COMBUSTION SOURCES
Emission Limit	
1.200 Lbs/MMBTU	SOX
0.400 Lbs/MMBTU	TSP
736	MISC NATURAL GAS-FIRED COMBUSTION SOURCES
Emission Limit	
1.200 Lbs/MMBTU	SOX
0.400 Lbs/MMBTU	TSP

Site Emission Restriction Summary

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

**SECTION H. Miscellaneous.**

- (a) The Department has determined that the emissions from the following activities, excluding those indicated as site level requirements in Section C of this permit, do not require limitations, monitoring or recordkeeping: Laboratory Fume Hoods.
- (b) This State Only Operating Permit has been administratively amended to incorporate Plan Approval No. 15-0085B (APS No.: 346650, Auth ID: 655307).
- (c) This State Only Operating Permit has been renewed (APS No.: 346650, Auth ID: 687975).
- (d) This State Only Operating Permit 15-00085 has been renewed (APS ID: 346650, AUTH ID: 934961).
- (e) This State Only Operating Permit 15-00085 has been renewed (APS ID: 346650, AUTH ID: 1213749). Per this permit renewal:
- (1) Source IDs 102 and 735A have been removed as these sources no longer exist.
 - (2) Source IDs 105 and 106 have been removed and will be addressed through a Plan Approval.
- (f) This State Only Operating Permit 15-00085 has been amended (APS ID: 346650, AUTH ID: 1388358) to incorporate Plan Approval No. 15-0085C. Per the amendment:
- (1) Source ID 104 has been decommissioned and has been excluded from the operating permit.
 - (2) Two new water heaters were added to the list of sources under Source ID 736, specifically 2 Lochinvar water heaters for Lucy Laney Hall.



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