COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

STATE ONLY SYNTHETIC MINOR OPERATING PERMIT

Issue Date: July 9, 2024 Effective Date: August 1, 2024

Expiration Date: July 31, 2029

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: 36-05076
Synthetic Minor
Federal Tax Id - Plant Code: 23-1365353-1

Owner Information

Name: PENN MED LANCASTER GEN HOSP
Mailing Address: PO BOX 3555
555 N DUKE ST
LANCASTER, PA 17604-3555

Plant Information

Plant: PENN MED LANCASTER GEN HOSP/LANCASTER GEN HOSP
Location: 36 Lancaster County 36001 Lancaster City
SIC Code: 8062 Services - General Medical And Surgical Hospitals

Responsible Official

Name: TROY HAFER
Title: DIR FAC ENG
Phone: (717) 544 - 7276 Email: troy.hafer@pennmedicine.upenn.edu

Permit Contact Person

Name: TROY HAFER
Title: DIR FAC ENG
Phone: (717) 544 - 7276 Email: troy.hafer@pennmedicine.upenn.edu

[Signature] _____
WILLIAM R. WEAVER, SOUTHCENTRAL REGION AIR PROGRAM MANAGER

SECTION A. Table of Contents

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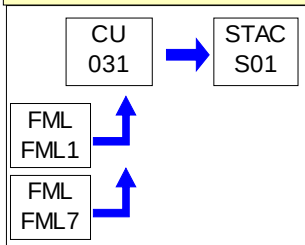
SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput		Fuel/Material
031	BOILER-CLEAVER BROOKS 29.3 MMBTU (1991)	29.300	MMBTU/HR	
		28.725	MCF/HR	Natural Gas
		209.890	Gal/HR	DIESEL
034	BOILER-CLEAVER BROOKS 32.33 MMBTU (2015)	32.330	MMBTU/HR	
		31.696	MCF/HR	Natural Gas
		231.590	Gal/HR	DIESEL
035	BOILER-CLEAVER BROOKS 32.33 MMBTU (2019)	32.330	MMBTU/HR	
		31.696	MCF/HR	Natural Gas
		231.590	Gal/HR	DIESEL
106	EMERGENCY GENERATOR 6 (600 KW)	14.840	Gal/HR	#2 Oil
108	EMERGENCY GENERATOR 8 (1500 KW)	37.100	Gal/HR	#2 Oil
109	CAT 3516C EMERGENCY GENERATOR (2000 KW)	138.000	Gal/HR	Diesel Fuel
110	CAT 3516C EMERGENCY GENERATOR (2000 KW)	138.000	Gal/HR	Diesel Fuel
111	CAT 3516C EMERGENCY GENERATOR (2000 KW)	138.000	Gal/HR	Diesel Fuel
112	CAT 3516C EMERGENCY GENERATOR (2000 KW)	138.000	Gal/HR	Diesel Fuel
201	SOLAR CENTAUR 40-4700S, 3.5 MW COMBUSTION TURBINE	51.912	MCF/HR	Natural Gas
C201	OXIDATION CATALYST			
FML1	NATURAL GAS PIPELINE			
FML3	#2 FUEL OIL STORAGE TANK			
FML6	NO. 2 FUEL OIL BELLY TANK			
FML7	DIESEL			
S01	BOILER STACK			
S06	EMER GENERATOR 6 STACK			
S08	EMER GENERATOR STACK			
S109	CAT GENERATOR STACK			
S110	CAT GENERATOR STACK			
S111	CAT GENERATOR STACK			
S112	CAT GENERATOR STACK			
S201	COMBUSTION TURBINE STACK			

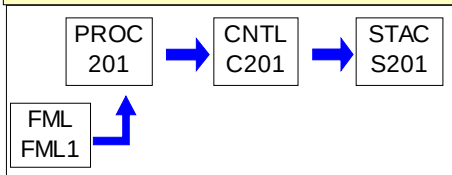
PERMIT MAPS



PERMIT MAPS


CU 034
STAC S01
FML FML1
FML FML7
CU 035
STAC S01
FML FML7
FML FML1
CU 106
STAC S06
FML FML6
CU 108
STAC S08
FML FML3
PROC 109
STAC S109
FML FML7
PROC 110
STAC S110
FML FML7
PROC 111
STAC S111
FML FML7
PROC 112
STAC S112
FML FML7

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 NOx from a single source during the term of the permit and 5 tons of NOx 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 §123.1]

Prohibition of certain fugitive emissions

(a) No person shall 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 the use of roads and streets.

(4) Clearing of land.

(5) Stockpiling of materials.

(6) Open burning operations.

(7) Sources and classes of sources other than those identified in (a)(1)-(a)(6), above, for which the operator has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:

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

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

 # 002 [25 Pa. Code §123.2]

Fugitive particulate matter

The permittee may not allow fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in Section C, Condition # 001, if the emissions are visible at the point the emissions pass outside the permittee's property.

 # 003 [25 Pa. Code §123.31]

Limitations

The permittee may not allow the emission into the outdoor atmosphere of any malodorous air contaminants from any source in such a manner that the malodors are detectable outside the permittee's property.

 # 004 [25 Pa. Code §123.41]

Limitations

The permittee may not allow the emission of visible air contaminants into the outdoor atmosphere in such a manner that the opacity of the emission is either of the following:

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

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

 # 005 [25 Pa. Code §123.42]

Exceptions

The emission limitations of Section C, Condition #004 (25 Pa Code section 123.41) shall not apply when:

(1) The presence of uncombined water is the only reason for failure of the emission to meet the limitation.

(2) The emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions;

(3) The emission results from sources specified in Section C, Condition #001 subsections (1)-(7).

SECTION C. Site Level Requirements

 # 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In order to maintain the facility's Synthetic Minor status, the permittee shall limit the facility's actual emissions to below the following levels based on any consecutive 12-month period:

(a) 100 tons per year (TPY) of NOx.
(b) 100 TPY of carbon monoxide (CO)
(c) 50 TPY of volatile organic compounds (VOC)
(d) 100 TPY of sulfur oxides (SOx) expressed as sulfur dioxide (SO2)
(e) 100 TPY of PM-10 (particulate matter having an effective aerodynamic diameter less than or equal to a nominal 10 micron body)
(f) 100 TPY of PM-2.5 (particulate matter having an effective aerodynamic diameter less than or equal to a nominal 2.5 micron body)
(g) 10 TPY of any individual hazardous air pollutant (HAP)
(h) 25 TPY of aggregate HAPs

Compliance verification requires emissions to be calculated and recorded for each month and each consecutive 12-month period.

 # 007 [25 Pa. Code §129.14]

Open burning operations

(a) The permittee may not allow or conduct open burning of materials in an air basin.

(b) Exceptions. The requirements of subsection (a), above, do not apply where the open burning operations result from:

(1) 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.

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

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

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

(5) A fire set solely for cooking food.

(c) This permit does not constitute authorization to burn solid waste pursuant to section 610 (3) of the Solid Waste Management Act (SWMA). 35 PS Section 6018.610 (3) or any other provision of the SWMA.

II. TESTING REQUIREMENTS.

 # 008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Department reserves the right to require exhaust stack testing of the sources and controls referenced in this permit to measure emissions for purposes including verification of permit condition compliance and estimation of annual air emissions.

 # 009 [25 Pa. Code §139.1]

Sampling facilities.

Upon the request of the Department, the permittee shall provide adequate sampling ports, safe sampling platforms and adequate utilities for the performance by the Department of tests on such sources. In the request, the Department will set forth the time period in which the facilities shall be provided as well as the specifications for such facilities.

III. MONITORING REQUIREMENTS.

 # 010 [25 Pa. Code §123.43]

Measuring techniques

SECTION C. Site Level Requirements

Visible emissions may be measured using either of the following:

(1) A device approved by the Department and maintained to provide accurate opacity measurements.

(2) Observers, trained and certified, to measure plume opacity with the naked eye, as per EPA Method 9, or with the aid of any devices approved by the Department.

 # 011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall conduct a monthly inspection during regular business workdays around the plant periphery during the daylight hours when the plant is in production to detect visible emissions, fugitive emissions and malodorous air contaminants. Monthly inspections are necessary to determine:

(a) The presence of visible emissions. Visible emissions may be measured according to the methods specified in Section C, Condition #010. Alternatively, plant personnel who observe such visible emissions shall report each incident to the Department within four (4) hours of the occurrence and arrange for a certified observer to read the visible emissions.

(b) Presence of fugitive emissions beyond the facility property boundaries, as stated in Section C, Condition #002.

(c) Presence of odorous air contaminants beyond the facility property boundaries as stated in Section C, Condition #003.

IV. RECORDKEEPING REQUIREMENTS.

 # 012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain a record of inspections around the plant periphery. The record shall include, at minimum, the following information:

(1) The name of the company representative doing the observation.
(2) The date and time of the monitoring.
(3) The wind direction.
(4) A description of any emissions and/or malodors observed and the actions taken to mitigate them. If none are present, record "NONE."

These records shall be maintained at the facility for the most recent five (5) year period and be made available to the Department upon request.

 # 013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) For the boilers and for the emergency generators, the permittee shall record the following parameters:

(1) Number of hours of operation both on a monthly and yearly basis.

(2) Amount of fuel(s) consumed on both a monthly and calendar year basis.

V. REPORTING REQUIREMENTS.

 # 014 [25 Pa. Code §127.442]

Reporting requirements.

The permittee shall report malfunctions to the Department. A malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner that affects the facility's ability to comply with a permit term. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. Malfunctions shall be reported as follows:

(a) Malfunctions which pose an imminent danger to public health, safety, welfare and the environment, shall be immediately reported to the Department by telephone. The telephone report of such malfunctions shall occur no later than two hours after discovery of the incident. Telephone reports can be made to the Reading District Office at (610) 916-0100 during normal business hours, or to the Department's Emergency Hotline at any time. The Emergency Hotline phone

SECTION C. Site Level Requirements

number is changed/updated periodically. The current Emergency Hotline phone number can be found at https://www.dep.pa.gov/About/Regional/SouthcentralRegion/Pages/default.aspx. The permittee shall submit a written report of instances of such malfunctions to the Department within three (3) days of the telephone report.

(b) Unless otherwise approved by DEP, all malfunctions shall be reported through the Department's Greenport PUP system available through: https://greenport.pa.gov/ePermitPublicAccess/PublicSubmission/Home

VI. WORK PRACTICE REQUIREMENTS.

 # 015 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

The permittee shall take all reasonable actions to prevent particulate matter from becoming airborne from any source specified in Section C, Condition #001(a)(1) - (a)(7). These actions shall include, but are not limited to the following:

(1) 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.

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

(3) Paving and maintenance of roadways.

(4) 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.

VII. ADDITIONAL REQUIREMENTS.

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

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: BOILER-CLEAVER BROOKS 29.3 MMBTU (1991)

Source Capacity/Throughput:			
	29.300	MMBTU/HR	
	28.725	MCF/HR	Natural Gas
	209.890	Gal/HR	DIESEL

Conditions for this source occur in the following groups: 001
003

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

Source ID: 034 Source Name: BOILER-CLEAVER BROOKS 32.33 MMBTU (2015)

Source Capacity/Throughput:	32.330	MMBTU/HR	
	31.696	MCF/HR	Natural Gas
	231.590	Gal/HR	DIESEL

Conditions for this source occur in the following groups: 001
003

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not cause to be discharged into the atmosphere from the above boiler any gases which are in excess of:

(a) 30 ppmdv NOx at 3% O2 when firing gas;
(b) 90 ppmdv NOx at 3% O2 when firing No. 2 fuel oil; and
(c) 300 ppmdv CO at 3% O2.

[Additional authority for this permit condition is derived from GP1-36-05076A]

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

SECTION D. Source Level 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) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

Source ID: 035 Source Name: BOILER-CLEAVER BROOKS 32.33 MMBTU (2019)

Source Capacity/Throughput:			
	32.330	MMBTU/HR	
	31.696	MCF/HR	Natural Gas
	231.590	Gal/HR	DIESEL

Conditions for this source occur in the following groups: 001
003

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not cause to be discharged into the atmosphere from the above boiler any gases which are in excess of:

(a) 30 ppmdv NOx at 3% O2 when firing gas;
(b) 90 ppmdv NOx at 3% O2 when firing No. 2 fuel oil; and
(c) 300 ppmdv CO at 3% O2.

[Additional authority for this permit condition is derived from GP1-36-05076B]

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

SECTION D. Source Level 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) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

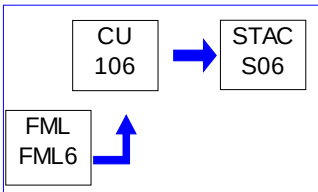
No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

SECTION D. Source Level Requirements

Source ID: 106 Source Name: EMERGENCY GENERATOR 6 (600 KW)

Source Capacity/Throughput: 14.840 Gal/HR #2 Oil

Conditions for this source occur in the following groups: 002
004



I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In accordance with General Plan Approval and/or General Operating Permit (BAQ-GPA/GP 9):

(a) The engine shall, at a minimum, comply with a Total Hydrocarbon (THC) emission standard of 1.0 gm/bhp-hr.

(b) The diesel engine shall at a minimum comply with the NOx emission standard of 6.9 gms/hp-hr.

(c) The diesel engine shall at a minimum comply with CO emission standard of 2.0 gms/bhp-hr.

SECTION D. Source Level Requirements

(d) Sulfur content in diesel fuel shall not at any time exceed 0.3 percent (by weight).

(e) Particulate matter emissions from the diesel engine shall not exceed 0.4 gms/bhp-hr.

(f) The permittee may not allow the emission of visible air contaminants into the outdoor atmosphere in such a manner that the opacity of the emission is either of the following:

(1) Equal to or greater than 10 % for a period or periods aggregating more than three minutes in any one hour.

(2) Equal to or greater than 30 % at any time.

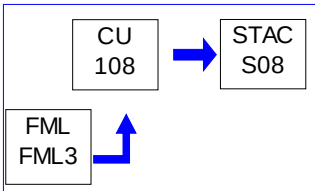
These emission limitations shall apply at all times except during periods of start-up and shut-down provided, however, that the duration of start-up and shut-down do not exceed one hour per occurrence.

SECTION D. Source Level Requirements

Source ID: 108 Source Name: EMERGENCY GENERATOR 8 (1500 KW)

Source Capacity/Throughput: 37.100 Gal/HR #2 Oil

Conditions for this source occur in the following groups: 002



I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

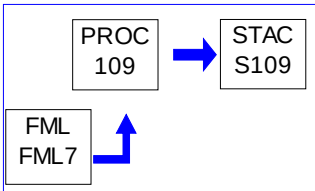
No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

SECTION D. Source Level Requirements

Source ID: 109 Source Name: CAT 3516C EMERGENCY GENERATOR (2000 KW)

Source Capacity/Throughput: 138.000 Gal/HR Diesel Fuel

Conditions for this source occur in the following groups: 004



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.13]

Processes

The permittee may not permit the emission into the outdoor atmosphere of particulate matter (PM) from any source in a manner that the particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

 # 002 [25 Pa. Code §123.21]

General

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

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.1, the permittee shall not allow the emission of air pollutants into the outdoor atmosphere from Source ID 109 in excess of the following limits:

(1) NMHC + NOx - 4.8 g/bhP-hr (6.4 g/kW-hr)
(2) CO - 2.0 g/bhP-hr (2.7 g/kW-hr)
(3) PM - 0.15 g/bhP-hr (0.20 g/kW-hr)

[Additional authority for this permit condition is derived from PA 36-05076A]

Fuel Restriction(s).

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The sulfur content of the diesel fuel fired by Source ID 109 shall not, at any time, exceed 0.0015% by weight (15 ppm by wt).

[Additional authority for this permit condition is derived from PA 36-05076A]

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

SECTION D. Source Level Requirements

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

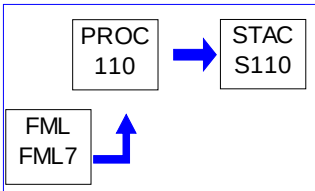
No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

SECTION D. Source Level Requirements

Source ID: 110 Source Name: CAT 3516C EMERGENCY GENERATOR (2000 KW)

Source Capacity/Throughput: 138.000 Gal/HR Diesel Fuel

Conditions for this source occur in the following groups: 004



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.13]

Processes

The permittee may not permit the emission into the outdoor atmosphere of particulate matter (PM) from any source in a manner that the particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

 # 002 [25 Pa. Code §123.21]

General

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

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.1, the permittee shall not allow the emission of air pollutants into the outdoor atmosphere from Source ID 110 in excess of the following limits:

(1) NMHC + NOx - 4.8 g/bhP-hr (6.4 g/kW-hr)
(2) CO - 2.0 g/bhP-hr (2.7 g/kW-hr)
(3) PM - 0.15 g/bhP-hr (0.20 g/kW-hr)

[Additional authority for this permit condition is derived from PA 36-05076A]

Fuel Restriction(s).

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The sulfur content of the diesel fuel fired by Source ID 110 shall not, at any time, exceed 0.0015% by weight (15 ppm by wt).

[Additional authority for this permit condition is derived from PA 36-05076A]

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

SECTION D. Source Level Requirements

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

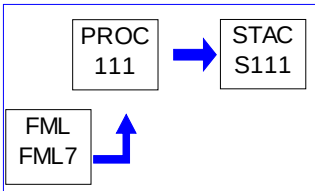
No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

SECTION D. Source Level Requirements

Source ID: 111 Source Name: CAT 3516C EMERGENCY GENERATOR (2000 KW)

Source Capacity/Throughput: 138.000 Gal/HR Diesel Fuel

Conditions for this source occur in the following groups: 004



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall not allow the emission of air pollutants into the outdoor atmosphere from Source ID 111 in excess of the following limits:

(1) NOx - 6.9 g/bhP-hr
(2) CO - 2.0 g/bhP-hr
(3) PM - 0.4 g/bhP-hr
(4) Total Hydrocarbon (THC) - 1.0 g/bhP-hr
(5) Visible emissions from diesel engine(s) stacks shall not exceed the following limitations:
(i) Equal to or greater than 10% for a period or periods aggregating more than three (3) minutes in any one (1) hour; and
(ii) Equal to or greater than 30% at any time.

[Additional authority for this permit condition is derived from GP9-36-05076C]

Fuel Restriction(s).

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The sulfur content of the diesel fuel fired by Source ID 111 shall not, at any time, exceed 0.3% by weight.

[Additional authority for this permit condition is derived from GP9-36-05076C]

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain accurate records, which, at a minimum, shall include:

(1) The number of hours per calendar year that each engine or piece of equipment operated using non-resettable hour

SECTION D. Source Level Requirements

meter.
(2) The amount of fuel used per calendar year in each engine or piece of equipment.

(b) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request. The Department reserves the right to expand the list contained in this condition as it may reasonably prescribe pursuant to the provisions of Section 4 of the Pennsylvania Air Pollution Control Act (35 P. S. §§4004), and as it may deem necessary to determine compliance with any condition contained herein.

[Additional authority for this permit condition is derived from GP9-36-05076C]

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

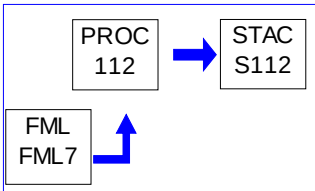
No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

SECTION D. Source Level Requirements

Source ID: 112 Source Name: CAT 3516C EMERGENCY GENERATOR (2000 KW)

Source Capacity/Throughput: 138.000 Gal/HR Diesel Fuel

Conditions for this source occur in the following groups: 004



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall not allow the emission of air pollutants into the outdoor atmosphere from Source ID 112 in excess of the following limits:

(1) NOx - 6.9 g/bhP-hr
(2) CO - 2.0 g/bhP-hr
(3) PM - 0.4 g/bhP-hr
(4) Total Hydrocarbon (THC) - 1.0 g/bhP-hr
(5) Visible emissions from diesel engine(s) stacks shall not exceed the following limitations:
(i) Equal to or greater than 10% for a period or periods aggregating more than three (3) minutes in any one (1) hour; and
(ii) Equal to or greater than 30% at any time.

[Additional authority for this permit condition is derived from GP9-36-05076C]

Fuel Restriction(s).

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The sulfur content of the diesel fuel fired by Source ID 112 shall not, at any time, exceed 0.3% by weight.

[Additional authority for this permit condition is derived from GP9-36-05076C]

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain accurate records, which, at a minimum, shall include:

(1) The number of hours per calendar year that each engine or piece of equipment operated using non-resettable hour

SECTION D. Source Level Requirements

meter.
(2) The amount of fuel used per calendar year in each engine or piece of equipment.

(b) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request. The Department reserves the right to expand the list contained in this condition as it may reasonably prescribe pursuant to the provisions of Section 4 of the Pennsylvania Air Pollution Control Act (35 P. S. §§4004), and as it may deem necessary to determine compliance with any condition contained herein.

[Additional authority for this permit condition is derived from GP9-36-05076C]

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

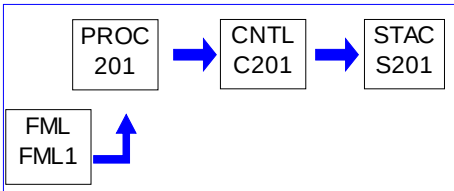
No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

SECTION D. Source Level Requirements

Source ID: 201 Source Name: SOLAR CENTAUR 40-4700S, 3.5 MW COMBUSTION TURBINE

Source Capacity/Throughput: 51.912 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 005



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.1, the permittee shall limit the emissions from Source ID 201 to the following rates:

(1) Total PM - 0.03 lb/mmBtu
(2) NOx - 25 ppmvd @ 15% oxygen
(3) CO - 25 ppmvd @ 15% oxygen
(4) NMNEHC (as propane) - 9 ppmvd @ 15% oxygen

(b) The above emission limitations shall apply at all times except during periods of start-up and shut-down, provided, however, that the duration of start-up and shut-down do not exceed thirty (30) minutes per occurrence. The turbine shall be operated in a manner consistent with good air pollution control practices for minimizing emissions, at all times, including periods of startup, shutdown, and malfunction. The emissions from start-up and shut-down shall be included in the 12-month rolling sum of emissions. The owner or operator of a turbine shall comply with all applicable start-up and shut-down requirements in accordance with 40 CFR Part 60, Subpart KKKK.

[Additional authority for this permit condition is derived from PA 36-05076A]

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The turbine shall be equipped with a non-resettable hour meter.

[Additional authority for this permit condition is derived from PA 36-05076A]

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Unless otherwise approved in writing by DEP, the permittee shall conduct periodic monitoring every 2,500 hours of operation and no sooner than forty-five (45) calendar days from the previous periodic monitoring for NOx and CO emissions to verify that the turbine is in compliance with the limits in Condition #001, above. If a Department-approved test has been performed within 45 calendar days prior to the scheduled periodic monitoring, this test may be used in lieu of the periodic monitoring for that time period.

SECTION D. Source Level Requirements

(b) A portable gas analyzer may be used to satisfy the requirements of this condition utilizing three 20-minute test runs. The Department may alter the frequency of portable analyzer tests based on the results. The portable gas analyzer shall be maintained according to the manufacturer's specifications and the procedures specified in ASTM D 6522 or equivalent as approved by the Department. The Department may also waive all or parts of this requirement if the owner or operator demonstrates compliance, in lieu of testing, through alternate means satisfactory to the Department.

[Additional authority for this permit condition is derived from PA 36-05076A]

IV. RECORDKEEPING REQUIREMENTS.

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The owner or operator shall record the following monthly:

(1) The number of hours the turbine is operated,
(2) The amount of natural gas combusted in the turbine.

(b) The records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

[Additional authority for this permit condition is derived from PA 36-05076A]

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION E. Source Group Restrictions.

Group Name: 001

Group Description: Boilers

Sources included in this group

ID	Name
031	BOILER-CLEAVER BROOKS 29.3 MMBTU (1991)
034	BOILER-CLEAVER BROOKS 32.33 MMBTU (2015)
035	BOILER-CLEAVER BROOKS 32.33 MMBTU (2019)

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.11]

Combustion units

The permittee may not allow 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.

 # 002 [25 Pa. Code §123.22]

Combustion units

No person may permit the emission into the outdoor atmosphere of Sulfur Oxides (SOx), expressed as SO2, from a combustion unit in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period in accordance with 25 Pa Code Section 123.22(a)(1).

Fuel Restriction(s).

 # 003 [25 Pa. Code §123.22]

Combustion units

(a) The permittee may not offer for sale, deliver for use, exchange in trade or permit the use commercial fuel oil in an air basin, which contain sulfur in excess of:

(1) No. 2 - 500 ppm (0.05% by weight)

(b) Beginning September 1, 2020, the sulfur content of commercial fuel oil shall not exceed:

(1) No. 2 - 15 ppm (0.0015% by weight)

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

(d) The Department may temporarily suspend or increase the applicable maximum allowable sulfur content for a commercial fuel oil set forth in subparagraph (a) if the following occur:

(1) The Department receives a written request at the address specified in subsection 25 Pa Code 123.22(h) for a suspension or increase on the basis that compliant commercial fuel oil is not reasonably available in a subject air basin. The request must include the following:

(i) The subject air basin for which the suspension or increase is requested.
(ii) The reason compliant commercial fuel oil is not reasonably available.
(iii) The duration of time for which the suspension or increase is requested and the justification for the requested duration.

(2) The Department determines that an insufficient quantity of compliant commercial fuel oil is reasonably available in the air basin and that the circumstances leading to the insufficiency are due to events that could not have been reasonably foreseen or prevented and are not due to lack of prudent planning on the part of the transferor of the commercial fuel oil into or within the air basin.

(3) The Department approves the request, in writing, prior to the transferor distributing the noncompliant commercial fuel

SECTION E. Source Group Restrictions.

oil into or within the air basin.

(e) The Department will limit a suspension or increase in the applicable maximum allowable sulfur content granted under subparagraph (d) to the shortest duration in which adequate supplies of compliant commercial fuel oil can be made reasonably available, but in no case longer than 60 days from the date the Department grants the suspension or increase.

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.

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor average hourly fuel consumption and shall monitor fuel oil sulfur content by laboratory fuel oil analysis or by fuel supplier's certification for each fuel shipment.

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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.

 # 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each above boiler is exempt from 40 CFR Part 63, Subpart JJJJJJ, if it meets the following criteria: only combusts natural gas not combined with any solid fuels and burns liquid fuel only during periods of gas curtailment, gas supply interruption, startups, or periodic testing on liquid fuel. Periodic testing of liquid fuel shall not exceed a combined total of 48 hours during any calendar year.

SECTION E. Source Group Restrictions.

Group Name: 002

Group Description: Emergency Generators

Sources included in this group

ID	Name
106	EMERGENCY GENERATOR 6 (600 KW)
108	EMERGENCY GENERATOR 8 (1500 KW)

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.13]

Processes

No person may permit the emission from each emergency generator of Group 002 into the outdoor atmosphere of particulate matter in excess of 0.04 grains per dry standard cubic foot.

 # 002 [25 Pa. Code §123.21]

General

No person may permit the emission from each emergency generator of Group 002 into the outdoor atmosphere in a manner that the concentration of sulfur oxides (SOx), expressed as SO2, in the effluent gas is in excess of 500 parts per milion, by volume, dry basis.

Fuel Restriction(s).

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The sulfur content of the No. 2 oil fired by the Group 002 sources shall not, at any time, exceed 0.3% by weight.

Operation Hours Restriction(s).

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit the operating hours for Source ID 108 to 500 hours per year, based on a twelve-month rolling total, calculated monthly.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

 # 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain records of the following operating parameters for each emergency generator identified in Group 002:

(1) The number of hours operated per month.
(2) Calculations used to verify the sulfur oxides and particulate emissions limitations.

(b) These records shall be made available to the Department upon request and shall remain on file for five years.

SECTION E. Source Group Restrictions.

V. REPORTING REQUIREMENTS.

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

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.

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

SECTION E. Source Group Restrictions.

Group Name: 003

Group Description: 40 CFR 60, Subpart Dc Boiler(s)

Sources included in this group

ID	Name
031	BOILER-CLEAVER BROOKS 29.3 MMBTU (1991)
034	BOILER-CLEAVER BROOKS 32.33 MMBTU (2015)
035	BOILER-CLEAVER BROOKS 32.33 MMBTU (2019)

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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.

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Regulatory Changes

Individual sources within this source group that are subject to 40 CFR Part 60 Subpart Dc shall comply with all applicable requirements of the Subpart. Copies of all requests, reports and other communications shall be forwarded to both the Department and the EPA. The EPA copies shall be forwarded to:

Associate Director
United States Environmental Protection Agency
Region III, Enforcement & Compliance Assurance Division
Air, RCRA and Toxics Branch (3ED21)
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, Pennsylvania 19103-2852

Unless otherwise approved by DEP, the DEP copies shall be reported through the Department's Greenport PUP system available through: https://greenport.pa.gov/ePermitPublicAccess/PublicSubmission/Home

In the event that the Federal Subpart that is the subject of this Source Group is revised, the permittee shall comply with the

SECTION E. Source Group Restrictions.

revised version of the subpart, and shall not be required to comply with any provisions in this permit designated as having the subpart as their authority, to the extent that such permit provisions would be inconsistent with the applicable provisions of the revised subpart.

 # 002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.40c]

Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units

Applicability and delegation of authority.

60.40c(a) Except as provided in paragraphs (d), (e), (f), and (g) of this section, the affected facility to which this subpart applies is each steam generating unit for which construction, modification, or reconstruction is commenced after June 9, 1989 and that has a maximum design heat input capacity of 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/h)) or less, but greater than or equal to 2.9 MW (10 MMBtu/h).

60.40c(b) In delegating implementation and enforcement authority to a State under section 111(c) of the Clean Air Act, § 60.48c(a)(4) shall be retained by the Administrator and not transferred to a State.

60.40c(c) [NA - UNIT NOT ASSOCIATED COMBUSTION RESEARCH]

60.40c(d) [NA - UNIT NOT ASSOCIATED COMBUSTION RESEARCH]

60.40c(e) [NA - UNIT NOT ASSOCIATED WITH STATIONARY COMBUSTION TURBINE]

60.40c(f) [NA - NOT SUBJECT TO NSPS AAAA OR CCCC]

60.40c(g) [NA - NOT SUBJECT TO NSPS BBBB]

60.40c(h) [NA - NOT SUBJECT TO NSPS J OR Ja]

60.40c(i) [NA - NOT A TEMPORARY BOILER]

[72 FR page 32759, June 13, 2007, as amended at 74 FR page 5090, Jan. 28, 2009; 77 FR page 9461, Feb. 16, 2012]

 # 003 [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.

60.42c(a) - (c) [NA - UNIT NOT COAL FIRED]

60.42c(d) On and after the date on which the initial performance test is completed or required to be completed under § 60.8, whichever date comes first, no owner or operator of an affected facility that combusts oil shall cause to be discharged into the atmosphere from that affected facility any gases that contain SO2 in excess of 215 ng/J (0.50 lb/MMBtu) heat input from oil; or, as an alternative, no owner or operator of an affected facility that combusts oil shall combust oil in the affected facility that contains greater than 0.5 weight percent sulfur. The percent reduction requirements are not applicable to affected facilities under this paragraph.

60.42c(e) [NA - MULTIPLE SIMULTANEOUS FUELS NOT USED]

60.42c(f) [NA - UNIT NOT COAL FIRED]

60.42c(g) [NA - PARAGRAPH (h) APPLIES]

60.42c(h) For affected facilities listed under paragraphs (h)(1), (2), (3), or (4) of this section, compliance with the emission limits or fuel oil sulfur limits under this section may be determined based on a certification from the fuel supplier, as described under § 60.48c(f), as applicable.

60.42c(h)(1) Distillate oil-fired affected facilities with heat input capacities between 2.9 and 29 MW (10 and 100 MMBtu/hr).

60.42c(h)(2) Residual oil-fired affected facilities with heat input capacities between 2.9 and 8.7 MW (10 and 30 MMBtu/hr).

SECTION E. Source Group Restrictions.

60.42c(h)(3) [NA - UNIT NOT COAL FIRED]

60.42c(h)(4) Other fuels-fired affected facilities with heat input capacities between 2.9 and 8.7 MW (10 and 30 MMBtu/h).

60.42c(i) The SO2 emission limits, fuel oil sulfur limits, and percent reduction requirements under this section apply at all times, including periods of startup, shutdown, and malfunction.

60.42c(j) [NA - UNIT NOT IN NON-CONTINENTAL AREA]

[72 FR page 32759, June 13, 2007, as amended at 74 FR page 5090, Jan. 28, 2009; 77 FR page 9462, Feb. 16, 2012]

 # 004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.43c]

Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units

Standard for particulate matter.

60.43c(a) [NA - UNIT NOT COAL FIRED]

60.43c(b) [NA - UNIT NOT WOOD FIRED]

60.43c(c) [NA - ID 034 NOT NOT SUBJECT TO PM LIMIT PER 60.43c(e)(4)]

60.43c(d) The PM and opacity standards under this section apply at all times, except during periods of startup, shutdown, or malfunction.

60.43c(e)

60.43c(e)(1) [NA - ID 031 INSTALLED PRIOR TO 2/28/05, ID 034 NOT NOT SUBJECT TO PM LIMIT PER 60.43c(e)(4)]

60.43c(e)(2) [NA - ID 034 NOT NOT SUBJECT TO PM LIMIT PER 60.43c(e)(4)]

60.43c(e)(3) [NA - DOES NOT COMBUST WOOD]

60.43c(e)(4) An owner or operator of an affected facility that commences construction, reconstruction, or modification after February 28, 2005, and that combusts only oil that contains no more than 0.50 weight percent sulfur or a mixture of 0.50 weight percent sulfur oil with other fuels not subject to a PM standard under § 60.43c and not using a post-combustion technology (except a wet scrubber) to reduce PM or SO2 emissions is not subject to the PM limit in this section.

[72 FR page 32759, June 13, 2007, as amended at 74 FR page 5091, Jan. 28, 2009; 77 FR page 9462, Feb. 16, 2012]

 # 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.44c]

Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units

Compliance and performance test methods and procedures for sulfur dioxide.

60.44c(a) - (g) [NA - PARAGRAPH (h) APPLIES]

60.44c(h) For affected facilities subject to § 60.42c(h)(1), (2), or (3) where the owner or operator seeks to demonstrate compliance with the SO2 standards based on fuel supplier certification, the performance test shall consist of the certification from the fuel supplier, as described in § 60.48c(f), as applicable.

60.44c(i) [NA - UNIT NOT COAL FIRED]

60.44c(j) [NA - PARAGRAPH (h) APPLIES]

[72 FR 32759, June 13, 2007, as amended at 74 FR 5091, Jan. 28, 2009]

 # 006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.45c]

Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units

Compliance and performance test methods and procedures for particulate matter.

60.45c(a) The owner or operator of an affected facility subject to the PM and/or opacity standards under § 60.43c shall conduct an initial performance test as required under § 60.8, and shall conduct subsequent performance tests as

SECTION E. Source Group Restrictions.

requested by the Administrator, to determine compliance with the standards using the following procedures and reference methods, except as specified in paragraph (c) of this section.

60.45c(a)(1) - (7) [NA - NOT SUBJECT TO PM/SO2 EMISSION LIMITS]

60.45c(a)(8) Method 9 of appendix A–4 of this part shall be used for determining the opacity of stack emissions.

60.45c(b) - (c) [NA - NOT SUBJECT TO PM STANDARDS UNDER 60.43c]

60.45c(d) The owner or operator of an affected facility seeking to demonstrate compliance under § 60.43c(e)(4) shall follow the applicable procedures under § 60.48c(f). For residual oil-fired affected facilities, fuel supplier certifications are only allowed for facilities with heat input capacities between 2.9 and 8.7 MW (10 to 30 MMBtu/h).

[72 FR page 32759, June 13, 2007, as amended at 74 FR page 5091, Jan. 28, 2009; 76 FR page 3523, Jan. 20, 2011; 77 FR page 9463, Feb. 16, 2012]

 # 007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.46c]

Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units

Emission monitoring for sulfur dioxide

60.46c(a) - (d) [NA - PARAGRAPH (e) APPLIES]

60.46c(e) The monitoring requirements of paragraphs (a) and (d) of this section shall not apply to affected facilities subject to § 60.42c(h) (1), (2), or (3) where the owner or operator of the affected facility seeks to demonstrate compliance with the SO2 standards based on fuel supplier certification, as described under § 60.48c(f), as applicable.

60.46c(f) [NA - PARAGRAPH (e) APPLIES]

 # 008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.47c]

Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units

Emission monitoring for particulate matter.

60.47c(a) - (b) [NA - COMPLIES WITH 60.47c(c)]

60.47c(c) Owners and operators of an affected facilities that burn only distillate oil that contains no more than 0.5 weight percent sulfur and/or liquid or gaseous fuels with potential sulfur dioxide emission rates of 26 ng/J (0.060 lb/MMBtu) heat input or less and that do not use a post-combustion technology to reduce SO2 or PM emissions and that are subject to an opacity standard in § 60.43c(c) are not required to operate a COMS if they follow the applicable procedures in § 60.48c(f).

60.47c(d) [NA - NOT SUBJECT TO A PM EMISSION LIMIT]

60.47c(e) [NA - COMPLIES WITH 60.47c(f)]

60.47c(f) An owner or operator of an affected facility that is subject to an opacity standard in § 60.43c(c) is not required to operate a COMS provided that the affected facility meets the conditions in either paragraphs (f)(1), (2), or (3) of this section.

60.47c(f)(1) [NA - DOES NOT USE BAGHOUSE]

60.47c(f)(2) [NA - DOES NOT USE ESP]

60.47c(f)(3) The affected facility burns only gaseous fuels and/or fuel oils that contain no greater than 0.5 weight percent sulfur, and the owner or operator operates the unit according to a written site-specific monitoring plan approved by the permitting authority. This monitoring plan must include procedures and criteria for establishing and monitoring specific parameters for the affected facility indicative of compliance with the opacity standard. For testing performed as part of this site-specific monitoring plan, the permitting authority may require as an alternative to the notification and reporting requirements specified in § § 60.8 and 60.11 that the owner or operator submit any deviations with the excess emissions report required under § 60.48c(c).

[72 FR page 32759, June 13, 2007, as amended at 74 FR page 5091, Jan. 28, 2009; 76 FR page 3523, Jan. 20, 2011; 77 FR page 9463, Feb. 16, 2012]

SECTION E. Source Group Restrictions.

 # 009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]

Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units

Reporting and recordkeeping requirements.

60.48c(a) [NA - NOTIFICATION ALREADY DONE]

60.48c(b) [NA - NOT SUBJECT TO EMISSION LIMITS REQUIRING PERFORMANCE TESTING]

60.48c(c) In addition to the applicable requirements in § 60.7, the owner or operator of an affected facility subject to the opacity limits in § 60.43c(c) shall submit excess emission reports for any excess emissions from the affected facility that occur during the reporting period and maintain records according to the requirements specified in paragraphs (c)(1) through (3) of this section, as applicable to the visible emissions monitoring method used.

60.48c(c)(1) For each performance test conducted using Method 9 of appendix A–4 of this part, the owner or operator shall keep the records including the information specified in paragraphs (c)(1)(i) through (iii) of this section.

60.48c(c)(1)(i) Dates and time intervals of all opacity observation periods;

60.48c(c)(1)(ii) Name, affiliation, and copy of current visible emission reading certification for each visible emission observer participating in the performance test; and

60.48c(c)(1)(iii) Copies of all visible emission observer opacity field data sheets;

60.48c(c)(2) For each performance test conducted using Method 22 of appendix A–4 of this part, the owner or operator shall keep the records including the information specified in paragraphs (c)(2)(i) through (iv) of this section.

60.48c(c)(2)(i) Dates and time intervals of all visible emissions observation periods;

60.48c(c)(2)(ii) Name and affiliation for each visible emission observer participating in the performance test;

60.48c(c)(2)(iii) Copies of all visible emission observer opacity field data sheets; and

60.48c(d) The owner or operator of each affected facility subject to the SO2 emission limits, fuel oil sulfur limits, or percent reduction requirements under § 60.42c shall submit reports to the Administrator.

60.48c(e) The owner or operator of each affected facility subject to the SO2 emission limits, fuel oil sulfur limits, or percent reduction requirements under § 60.42c shall keep records and submit reports as required under paragraph (d) of this section, including the following information, as applicable.

60.48c(e)(1) Calendar dates covered in the reporting period.

60.48c(e)(2) - (10) [NA - FUEL SUPPLIER CERTFICATION USED]

60.48c(e)(11) If fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification as described under paragraph (f)(1), (2), (3), or (4) of this section, as applicable. In addition to records of fuel supplier certifications, the report shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.

60.48c(f) Fuel supplier certification shall include the following information:

60.48c(f)(1) For distillate oil:

60.48c(f)(1)(i) The name of the oil supplier;

60.48c(f)(1)(ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in § 60.41c; and

60.48c(f)(1)(iii) The sulfur content or maximum sulfur content of the oil.

SECTION E. Source Group Restrictions.

60.48c(f)(2) For residual oil:

60.48c(f)(2)(i) The name of the oil supplier;

60.48c(f)(2)(ii) The location of the oil when the sample was drawn for analysis to determine the sulfur content of the oil, specifically including whether the oil was sampled as delivered to the affected facility, or whether the sample was drawn from oil in storage at the oil supplier's or oil refiner's facility, or other location;

60.48c(f)(2)(iii) The sulfur content of the oil from which the shipment came (or of the shipment itself); and

60.48c(f)(2)(iv) The method used to determine the sulfur content of the oil.

60.48c(f)(3) [NA - UNITS NOT COAL FIRED]

60.48c(f)(4) [NA - NO OTHER FUELS]

60.48c(g)

60.48c(g)(1) Except as provided under paragraphs (g)(2) and (g)(3) of this section, the owner or operator of each affected facility shall record and maintain records of the amount of each fuel combusted during each operating day.

60.48c(g)(2) As an alternative to meeting the requirements of paragraph (g)(1) of this section, the owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in § 60.48c(f) to demonstrate compliance with the SO2 standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month.

60.48c(g)(3) As an alternative to meeting the requirements of paragraph (g)(1) of this section, the owner or operator of an affected facility or multiple affected facilities located on a contiguous property unit where the only fuels combusted in any steam generating unit (including steam generating units not subject to this subpart) at that property are natural gas, wood, distillate oil meeting the most current requirements in § 60.42C to use fuel certification to demonstrate compliance with the SO2 standard, and/or fuels, excluding coal and residual oil, not subject to an emissions standard (excluding opacity) may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month.

60.48c(h) [NA - UNITS NOT SUBJECT TO REQUIREMENT LIMITING THE ANNUAL CAPACITY FACTOR]

60.48c(i) All records required under this section shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record.

60.48c(j) The reporting period for the reports required under this subpart is each six-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period. [SIX MONTH PERIODS SHALL BE DEFINED AS CALENDAR HALVES]

[72 FR 32759, June 13, 2007, as amended at 74 FR 5091, Jan. 28, 2009]

SECTION E. Source Group Restrictions.

Group Name: 004

Group Description: 40 CFR 60, Subpart IIII Engine(s)

Sources included in this group

ID	Name
106	EMERGENCY GENERATOR 6 (600 KW)
109	CAT 3516C EMERGENCY GENERATOR (2000 KW)
110	CAT 3516C EMERGENCY GENERATOR (2000 KW)
111	CAT 3516C EMERGENCY GENERATOR (2000 KW)
112	CAT 3516C EMERGENCY GENERATOR (2000 KW)

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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.

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Regulatory Changes

Individual sources within this source group that are subject to 40 CFR Part 60 Subpart IIII shall comply with all applicable requirements of the Subpart. 40 CFR 60.4 requires submission of copies of all requests, reports and other communications to both the Department and the EPA. The EPA copies shall be forwarded to:

Associate Director
United States Environmental Protection Agency
Region III, Enforcement & Compliance Assurance Division
Air, RCRA and Toxics Branch (3ED21)
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, Pennsylvania 19103-2852

Unless otherwise approved by DEP, the DEP copies shall be reported through the Department's Greenport PUP system available through: https://greenport.pa.gov/ePermitPublicAccess/PublicSubmission/Home

SECTION E. Source Group Restrictions.

In the event that the Federal Subpart that is the subject of this Source Group is revised, the permittee shall comply with the revised version of the subpart, and shall not be required to comply with any provisions in this permit designated as having the subpart as their authority, to the extent that such permit provisions would be inconsistent with the applicable provisions of the revised subpart.

 # 002 [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?

60.4200(a) The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) and other persons as specified in paragraphs (a)(1) through (4) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.

60.4200(a)(1) [NA - NOT AN ENGINE MANUFACTURER]

60.4200(a)(2) Owners and operators of stationary CI ICE that commence construction after July 11, 2005, where the stationary CI ICE are:

60.4200(a)(2)(i) Manufactured after April 1, 2006, and are not fire pump engines, or

60.4200(a)(2)(ii) [NA - NOT FIRE PUMP ENGINES]

60.4200(a)(3) [NA - NOT MODIFIED OR RECONSTRUCTED]

60.4200(a)(4) The provisions of § 60.4208 of this subpart are applicable to all owners and operators of stationary CI ICE that commence construction after July 11, 2005.

60.4200(b) [NA - TEST CELL NOT INVOLVED]

60.4200(c) If you are an owner or operator of an area source subject to this subpart, you are exempt from the obligation to obtain a permit under 40 CFR part 70 or 40 CFR part 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart applicable to area sources.

60.4200(d) Stationary CI ICE may be eligible for exemption from the requirements of this subpart as described in 40 CFR part 1068, subpart C, except that owners and operators, as well as manufacturers, may be eligible to request an exemption for national security.

60.4200(e) [NA - NOT TEMPORARY REPLACEMENT UNITS]

[71 FR 39172, July 11, 2006, as amended at 76 FR 37967, June 28, 2011; 86 FR 34357, June 29, 2021]

 # 003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4201]

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

What emission standards must I meet for non-emergency engines if I am a stationary CI internal combustion engine manufacturer?

[NA - NOT AN ENGINE MANUFACTURER]

 # 004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4202]

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

What emission standards must I meet for emergency engines if I am a stationary CI internal combustion engine manufacturer?

[NA - NOT AN ENGINE MANUFACTURER]

 # 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4203]

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

How long must my engines meet the emission standards if I am a stationary CI internal combustion engine manufacturer?

SECTION E. Source Group Restrictions.

[NA - NOT AN ENGINE MANUFACTURER]

 # 006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4204]

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

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

[NA - UNITS ARE EMERGENCY]

 # 007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4205]

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

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

60.4205(a) [NA - ENGINES 2007 MODEL YEAR OR LATER]

60.4205(b) Owners and operators of 2007 model year and later emergency stationary CI ICE with a displacement of less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards for new nonroad CI engines in § 60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE.

60.4202 REQUIREMENTS

60.4202(a) Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later emergency stationary CI ICE with a maximum engine power less than or equal to 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder that are not fire pump engines to the emission standards specified in paragraphs (a)(1) through (2) of this section.

60.4202(a)(1) [NA - UNIT(S) > 37 KW (50 HP)]

60.4202(a)(2) For engines with a rated power greater than or equal to 37 KW (50 HP), the Tier 2 or Tier 3 emission standards for new nonroad CI engines for the same rated power as described in 40 CFR part 1039, appendix I, for all pollutants and the smoke standards as specified in 40 CFR 1039.105 beginning in model year 2007.

NOTE 1: 600 KW (805 HP) UNIT HAS A CERTIFICATE OF CONFORMITY WITH THE 2008 MODEL YEAR STANDARDS. THESE ARE AS FOLLOWS:

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

NOTE 2: 2,000 KW (2,937 HP) UNITS EACH HAS A CERTIFICATE OF CONFORMITY WITH THE 2006 MODEL YEAR STANDARDS. THESE ARE AS FOLLOWS:

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

40 CFR 1039.105

(a) The smoke standards in this section apply to all engines subject to emission standards under this part, except for the following engines:

(1) - (3) [NA - ENGINES DO NOT MEET AN EXEMPTION]

(b) Measure smoke as specified in § 1039.501(c). Smoke from your engines may not exceed the following standards:

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

END OF 60.4202 REQUIREMENTS

SECTION E. Source Group Restrictions.

60.4205(c) [NA - NOT FIRE PUMP ENGINES]

60.4205(d) [NA - UNITS < 30 L/CYL]

60.4205(e) [NA - DOES NOT CONDUCT PERFORMANCE TESTS IN USE]

60.4205(f) [NA - NOT MODIFIED OR RECONSTRUCTED]

[71 FR 39172, July 11, 2006, as amended at 76 FR 37969, June 28, 2011; 86 FR 34358, June 29, 2021]

 # 008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4206]

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

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

Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in § § 60.4204 and 60.4205 over the entire life of the engine.

[76 FR page 37969, June 28, 2011]

 # 009 [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 this subpart?

60.4207(a) [Reserved]

60.4207(b) Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 1090.305 for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted.

[§1090.305: ULSD standards:
(a) Overview. Except as specified in § 1090.300(a), diesel fuel must meet the ULSD per-gallon standards of this section.
(b) Sulfur content. Maximum sulfur content of 15 ppm.
(c) Cetane index or aromatic content. Diesel fuel must meet one of the following standards:
(1) Minimum cetane index of 40;
(2) Maximum aromatic content of 35 volume percent.

60.4207(c) [RESERVED]

60.4207(d) Beginning June 1, 2012, owners and operators of stationary CI ICE subject to this subpart with a displacement of greater than or equal to 30 liters per cylinder are no longer subject to the requirements of paragraph (a) of this section, and must use fuel that meets a maximum per-gallon sulfur content of 1,000 parts per million (ppm).

60.4207(e) [NA - NO NATIONAL SECURITY EXEMPTION]

[71 FR 39172, July 11, 2006, as amended at 76 FR 37969, June 28, 2011; 78 FR 6695, Jan. 30, 2013; 85 FR 78463, Dec. 4, 2020]

 # 010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4208]

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

What is the deadline for importing or installing stationary CI ICE produced in the previous model year?

60.4208(a) After December 31, 2008, owners and operators may not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines.

60.4208(b) [NA - UNITS >25 HP]

60.4208(c)-(g) [NA - UNITS ARE EMERGENCY]

SECTION E. Source Group Restrictions.

60.4208(h) [NA - IMPORTATION NOT RELEVANT IN THIS CASE]

60.4208(i) The requirements of this section do not apply to owners or operators of stationary CI ICE that have been modified, reconstructed, and do not apply to engines that were removed from one existing location and reinstalled at a new location.

[Amended at 76 FR page 37969, June 28, 2011]

 # 011 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4209]

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

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

If you are an owner or operator, you must meet the monitoring requirements of this section. In addition, you must also meet the monitoring requirements specified in § 60.4211.

60.4209(a) If you are an owner or operator of an emergency stationary CI internal combustion engine that does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter prior to startup of the engine.

60.4209(b) [NA - FILTER NOT INSTALLED TO COMPLY WITH REGULATION]

[Amended at 76 FR page 37969, June 28, 2011]

 # 012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4210]

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

What are my compliance requirements if I am a stationary CI internal combustion engine manufacturer?

[NA - NOT AN ENGINE MANUFACTURER]

 # 013 [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?

60.4211(a) If you are an owner or operator and must comply with the emission standards specified in this subpart, you must do all of the following, except as permitted under paragraph (g) of this section:

60.4211(a)(1) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;

60.4211(a)(2) Change only those emission-related settings that are permitted by the manufacturer; and

60.4211(a)(3) Meet the requirements of 40 CFR part 1068, as they apply to you.

60.4211(b) [NA - ENGINES ARE 2007 MODEL YEAR OR LATER]

60.4211(c) If you are an owner or operator of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in § 60.4204(b) or § 60.4205(b), or if you are an owner or operator of a CI fire pump engine that is manufactured during or after the model year that applies to your fire pump engine power rating in table 3 to this subpart and must comply with the emission standards specified in § 60.4205(c), you must comply by purchasing an engine certified to the emission standards in § 60.4204(b), or § 60.4205(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in paragraph (g) of this section.

60.4211(d) [NA - NOT SUBJECT TO § 60.4204(c) OR § 60.4205(d)]

60.4211(e) [NA - NOT MODIFIED OR RECONSTRUCTED]

60.4211(f) If you own or operate an emergency stationary ICE, you must operate the emergency stationary ICE according to the requirements in paragraphs (f)(1) through (3) of this section. In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, and operation in

SECTION E. Source Group Restrictions.

non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (3), is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (3), the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

60.4211(f)(1) There is no time limit on the use of emergency stationary ICE in emergency situations.

60.4211(f)(2) You may operate your emergency stationary ICE for the purpose specified in paragraph (f)(2)(i) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (f)(3) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).

60.4211(f)(2)(i) Emergency stationary ICE may be operated 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 Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.

60.4211(f)(2)(ii) - (iii) [RESERVED]

60.4211(f)(3) Emergency stationary ICE 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 (f)(2) of this section. Except as provided in paragraph (f)(3)(i) of this section, 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.

60.4211(f)(3)(i) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:

60.4211(f)(3)(i)(A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator;

60.4211(f)(3)(i)(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.

60.4211(f)(3)(i)(C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

60.4211(f)(3)(i)(D) The power is provided only to the facility itself or to support the local transmission and distribution system.

60.4211(f)(3)(i)(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.

60.4211(f)(3)(ii) [Reserved]

60.4211(g) If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as follows:

60.4211(g)(1) [NA - ENGINES >100 HP]

60.4211(g)(2) [NA - ENGINES > 500 HP]

SECTION E. Source Group Restrictions.

60.4211(g)(3) If you are an owner or operator of a stationary CI internal combustion engine greater than 500 HP, you 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. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable 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 you change emission-related settings in a way that is not permitted by the manufacturer. You must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

60.4211(h) The requirements for operators and prohibited acts specified in 40 CFR 1039.665 apply to owners or operators of stationary CI ICE equipped with AECDs for qualified emergency situations as allowed by 40 CFR 1039.665.

[71 FR 39172, July 11, 2006, as amended at 76 FR 37970, June 28, 2011; 78 FR 6695, Jan. 30, 2013; 81 FR 44219, July 7, 2016; 86 FR 34359, June 29, 2021; 87 FR 48605, Aug. 10, 2022]

 # 014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4212]

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

What test methods and other procedures must I use if I am an owner or operator of a stationary CI internal combustion engine with a displacement of less than 30 liters per cylinder?

[NA - TESTING NOT REQUIRED FOR CERTIFIED UNITS WHICH ARE NOT ALTERED PER 60.4211(g)]

 # 015 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4213]

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

What test methods and other procedures must I use if I am an owner or operator of a stationary CI internal combustion engine with a displacement of greater than or equal to 30 liters per cylinder?

[NA - DISPLACEMENT <30 L/CYL]

 # 016 [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?

60.4214(a) [NA - UNITS ARE EMERGENCY]

60.4214(b) If the stationary CI internal combustion engine is an emergency stationary internal combustion engine, the owner or operator is not required to submit an initial notification. Starting with the model years in table 5 to this subpart, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time.

60.4214(c) [NA - NOT REQUIRED TO HAVE A DIESEL PARTICULATE FILTER]

60.4214(d) [NA - ENGINES DO NOT OPERATE FOR THE PURPOSE SPECIFIED IN § 60.4211(f)(3) (NO FINANCIAL ARRANGEMENT WITH ANOTHER ENTITY)]

60.4214(e) Owners or operators of stationary CI ICE equipped with AECDs pursuant to the requirements of 40 CFR 1039.665 must report the use of AECDs as required by 40 CFR 1039.665(e).

[71 FR 39172, July 11, 2006, as amended at 78 FR 6696, Jan. 30, 2013; 81 FR 44219, July 7, 2016; 87 FR 48606, Aug. 10, 2022]

 # 017 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4218]

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

What parts of the General Provisions apply to me?

60.4218(a) Table 8 to this subpart shows which parts of the General Provisions in §§ 60.1 through 60.19 apply to you.

60.4218(b) The provisions of 40 CFR 1068.10 and 1068.11 apply for engine manufacturers. For others, the general

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confidential business information (CBI) provisions apply as described in 40 CFR part 2.

[88 FR 4471, Jan. 24, 2023]

SECTION E. Source Group Restrictions.

Group Name: 005

Group Description: 40 CFR 60, Subpart KKKK Turbine(s)

Sources included in this group

ID	Name
201	SOLAR CENTAUR 40-4700S, 3.5 MW COMBUSTION TURBINE

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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.

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Regulatory Changes

Individual sources within this source group that are subject to 40 CFR 60, Subpart KKKK shall comply with all applicable requirements of the Subpart. 40 CFR 60.4 requires submission of copies of all requests, reports and other communications to both the Department and the EPA. The EPA copies shall be forwarded to:

Associate Director
United States Environmental Protection Agency
Region III, Enforcement & Compliance Assurance Division
Air, RCRA and Toxics Branch (3ED21)
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, Pennsylvania 19103-2852

Unless otherwise approved by DEP, the DEP copies shall be reported through the Department's Greenport PUP system available through: https://greenport.pa.gov/ePermitPublicAccess/PublicSubmission/Home

In the event that the Federal Subpart that is the subject of this Source Group is revised, the permittee shall comply with the revised version of the subpart, and shall not be required to comply with any provisions in this permit designated as having

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the subpart as their authority, to the extent that such permit provisions would be inconsistent with the applicable provisions of the revised subpart.

 # 002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4300]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

What is the purpose of this subpart?

This subpart establishes emission standards and compliance schedules for the control of emissions from stationary combustion turbines that commenced construction, modification or reconstruction after February 18, 2005.

 # 003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4305]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

Does this subpart apply to my stationary combustion turbine?

60.4305(a) If you are the owner or operator of a stationary combustion turbine with a heat input at peak load equal to or greater than 10.7 gigajoules (10 MMBtu) per hour, based on the higher heating value of the fuel, which commenced construction, modification, or reconstruction after February 18, 2005, your turbine is subject to this subpart. Only heat input to the combustion turbine should be included when determining whether or not this subpart is applicable to your turbine. Any additional heat input to associated heat recovery steam generators (HRSG) or duct burners should not be included when determining your peak heat input. However, this subpart does apply to emissions from any associated HRSG and duct burners.

60.4305(b) Stationary combustion turbines regulated under this subpart are exempt from the requirements of subpart GG of this part. Heat recovery steam generators and duct burners regulated under this subpart are exempted from the requirements of subparts Da, Db, and Dc of this part.

 # 004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4310]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

What types of operations are exempt from these standards of performance?

[NA – OPERATIONS ARE NOT EXEMPT FROM SUBPART KKKK STANDARDS]

 # 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4315]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

What pollutants are regulated by this subpart?

The pollutants regulated by this subpart are nitrogen oxide (NOX) and sulfur dioxide (SO2).

 # 006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4320]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

What emission limits must I meet for nitrogen oxides (NOX)?

60.4320(a) You must meet the emission limits for NOX specified in Table 1 to this subpart.

TABLE 1 REQUIREMENTS

(1) Combustion turbine type - For a New turbine firing natural gas, electric generating
  (a) Combustion turbine heat input at peak load (HHV) - <= 50 MMBtu/h
    (i) NOX emission standard - 42 ppm at 15 percent O2 or 290 ng/J of useful output (2.3 lb/MWh).

(2) Combustion turbine type - Turbines located north of the Arctic Circle (latitude 66.5 degrees north), turbines operating at less than 75 percent of peak load, modified and reconstructed offshore turbines, and turbine operating at temperatures less than 0 ° F
  (a) Combustion turbine heat input at peak load (HHV) - <= 30 MW output
    (i) NOX emission standard - 150 ppm at 15 percent O2 or 1,100 ng/J of useful output (8.7 lb/MWh).

[NOTE: COMPLIANCE WITH THE BAT NOx LIMIT OF 25 ppmvd @ 15% O2 ENSURES COMPLIANCE WITH THE NOx LIMITS OF SUBPART KKKK.]

END OF TABLE 1 REQUIREMENTS

60.4320(b) [NA - ONLY ONE TURBINE]

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 # 007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4325]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

What emission limits must I meet for NOX if my turbine burns both natural gas and distillate oil (or some other combination of fuels)?

[NA - TURBINE DOES NOT COMBUST DISTILLATE OIL]

 # 008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4330]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

What emission limits must I meet for sulfur dioxide (SO2)?

60.4330(a) If your turbine is located in a continental area, you must comply with either paragraph (a)(1), (a)(2), or (a)(3) of this section. If your turbine is located in Alaska, you do not have to comply with the requirements in paragraph (a) of this section until January 1, 2008.

60.4330(a)(1) You must not cause to be discharged into the atmosphere from the subject stationary combustion turbine any gases which contain SO2 in excess of 110 nanograms per Joule (ng/J) (0.90 pounds per megawatt-hour (lb/MWh)) gross output;

60.4330(a)(2) You must not burn in the subject stationary combustion turbine any fuel which contains total potential sulfur emissions in excess of 26 ng SO2/J (0.060 lb SO2/MMBtu) heat input. If your turbine simultaneously fires multiple fuels, each fuel must meet this requirement; or

60.4330(a)(3) [NA - DOES NOT COMBUST BIOGAS]

60.4330(b) [NA - TURBINE LOCATED IN CONTINENTAL AREA]

[71 FR 38497, July 6, 2006, as amended at 74 FR 11861, Mar. 20, 2009, eff. May 19, 2009]

 # 009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4333]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

What are my general requirements for complying with this subpart?

60.4333(a) You must operate and maintain your stationary combustion turbine, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction.

60.4333(b) [NA – ONLY ONE TURBINE, NO COMMON STEAM HEADER]

 # 010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4335]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

How do I demonstrate compliance for NOX if I use water or steam injection?

[NA - DOES NOT USE WATER OR STEAM INJECTION]

 # 011 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4340]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

How do I demonstrate continuous compliance for NOX if I do not use water or steam injection?

60.4340(a) If you are not using water or steam injection to control NOX emissions, you must perform annual performance tests in accordance with § 60.4400 to demonstrate continuous compliance. If the NOX emission result from the performance test is less than or equal to 75 percent of the NOX emission limit for the turbine, you may reduce the frequency of subsequent performance tests to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75 percent of the NOX emission limit for the turbine, you must resume annual performance tests.

60.4340(b) As an alternative, you may install, calibrate, maintain and operate one of the following continuous monitoring systems:

60.4340(b)(1) [NA - NO CEMS]

60.4340(b)(2) Continuous parameter monitoring as follows:

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60.4340(b)(2)(i) For a diffusion flame turbine without add-on selective catalytic reduction (SCR) controls, you must define parameters indicative of the unit's NOX formation characteristics, and you must monitor these parameters continuously.

60.4340(b)(2)(ii) For any lean premix stationary combustion turbine, you must continuously monitor the appropriate parameters to determine whether the unit is operating in low-NOX mode.

60.4340(b)(2)(iii) [NA - SCR NOT USED]

60.4340(b)(2)(iv) [NA - NOT REGULATED UNDER PART 75 OF THIS CHAPTER]

 # 012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4345]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

What are the requirements for the continuous emission monitoring system equipment, if I choose to use this option?

[NA - NO CEMS]

 # 013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4350]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

How do I use data from the continuous emission monitoring equipment to identify excess emissions?

For purposes of identifying excess emissions:

60.4350(a) - (e) [NA - NO CEMS]

NOTE: ALTHOUGH NO CEMS, EQUATIONS ARE USED FOR DEMONSTRATING COMPLIANCE UNDER 60.4400]

60.4350(f) Calculate the hourly average NOX emission rates, in units of the emission standards under § 60.4320, using either ppm for units complying with the concentration limit or the following equation for units complying with the output based standard:

60.4350(f)(1) For simple-cycle operation:

$$E = ((NOX)h * (HI)h) / P \qquad \text{(EQN 1)}$$

Where:
E = hourly NOX emission rate, in lb/MWh,
(NOX)h = hourly NOX emission rate, in lb/MMBtu,
(HI)h = hourly heat input rate to the unit, in MMBtu/h, measured using the fuel flowmeter(s), e.g., calculated using Equation D–15a in appendix D to part 75 of this chapter, and
P = gross energy output of the combustion turbine in MW.

60.4350(f)(2) For combined-cycle and combined heat and power complying with the output-based standard, use Equation 1 of this subpart, except that the gross energy output is calculated as the sum of the total electrical and mechanical energy generated by the combustion turbine, the additional electrical or mechanical energy (if any) generated by the steam turbine following the heat recovery steam generator, and 100 percent of the total useful thermal energy output that is not used to generate additional electricity or mechanical output, expressed in equivalent MW, as in the following equations:

$$P = (Pe)t + (Pe)c + Ps + Po \qquad \text{(EQN 2)}$$

Where:
P = gross energy output of the stationary combustion turbine system in MW.
(Pe)t = electrical or mechanical energy output of the combustion turbine in MW,
(Pe)c = electrical or mechanical energy output (if any) of the steam turbine in MW, and

$$PS = (Q * H) / 3.413E6 \qquad \text{(EQN 3)}$$

Where:
Ps = useful thermal energy of the steam, measured relative to ISO conditions, not used to generate additional electric or

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mechanical output, in MW,
Q = measured steam flow rate in lb/h,
H = enthalpy of the steam at measured temperature and pressure relative to ISO conditions, in Btu/lb, and
3.413 x 106= conversion from Btu/h to MW.
Po = other useful heat recovery, measured relative to ISO conditions, not used for steam generation or performance enhancement of the combustion turbine.

60.4350(f)(3) [NA - NOT A MECHANICAL DRIVE APPLICATION]

60.4350(g) [NA - NOT A SIMPLE CYCLE UNIT WITHOUT HEAT RECOVERY]

60.4350(h) [NA - NO CEMS]

 # 014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4355]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

How do I establish and document a proper parameter monitoring plan?

60.4355(a) The steam or water to fuel ratio or other parameters that are continuously monitored as described in § § 60.4335 and 60.4340 must be monitored during the performance test required under § 60.8, to establish acceptable values and ranges. You may supplement the performance test data with engineering analyses, design specifications, manufacturer's recommendations and other relevant information to define the acceptable parametric ranges more precisely. You must develop and keep on-site a parameter monitoring plan which explains the procedures used to document proper operation of the NOX emission controls. The plan must:

60.4355(a)(1) Include the indicators to be monitored and show there is a significant relationship to emissions and proper operation of the NOX emission controls,

60.4355(a)(2) Pick ranges (or designated conditions) of the indicators, or describe the process by which such range (or designated condition) will be established,

60.4355(a)(3) Explain the process you will use to make certain that you obtain data that are representative of the emissions or parameters being monitored (such as detector location, installation specification if applicable),

60.4355(a)(4) Describe quality assurance and control practices that are adequate to ensure the continuing validity of the data,

60.4355(a)(5) Describe the frequency of monitoring and the data collection procedures which you will use (e.g., you are using a computerized data acquisition over a number of discrete data points with the average (or maximum value) being used for purposes of determining whether an exceedance has occurred), and

60.4355(a)(6) Submit justification for the proposed elements of the monitoring. If a proposed performance specification differs from manufacturer recommendation, you must explain the reasons for the differences. You must submit the data supporting the justification, but you may refer to generally available sources of information used to support the justification. You may rely on engineering assessments and other data, provided you demonstrate factors which assure compliance or explain why performance testing is unnecessary to establish indicator ranges. When establishing indicator ranges, you may choose to simplify the process by treating the parameters as if they were correlated. Using this assumption, testing can be divided into two cases:

60.4355(a)(6)(i) All indicators are significant only on one end of range (e.g., for a thermal incinerator controlling volatile organic compounds (VOC) it is only important to insure a minimum temperature, not a maximum). In this case, you may conduct your study so that each parameter is at the significant limit of its range while you conduct your emissions testing. If the emissions tests show that the source is in compliance at the significant limit of each parameter, then as long as each parameter is within its limit, you are presumed to be in compliance.

60.4355(a)(6)(ii) Some or all indicators are significant on both ends of the range. In this case, you may conduct your study so that each parameter that is significant at both ends of its range assumes its extreme values in all possible combinations of the extreme values (either single or double) of all of the other parameters. For example, if there were only two parameters, A and B, and A had a range of values while B had only a minimum value, the combinations would be A high

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with B minimum and A low with B minimum. If both A and B had a range, the combinations would be A high and B high, A low and B low, A high and B low, A low and B high. For the case of four parameters all having a range, there are 16 possible combinations.

60.4355(b) [NA - NOT SUBJECT TO PART 75 OF THIS CHAPTER]

 # 015 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4360]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

How do I determine the total sulfur content of the turbine's combustion fuel?

You must monitor the total sulfur content of the fuel being fired in the turbine, except as provided in § 60.4365. The sulfur content of the fuel must be determined using total sulfur methods described in § 60.4415. Alternatively, if the total sulfur content of the gaseous fuel during the most recent performance test was less than half the applicable limit, ASTM D4084, D4810, D5504, or D6228, or Gas Processors Association Standard 2377 (all of which are incorporated by reference, see § 60.17), which measure the major sulfur compounds, may be used.

 # 016 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4365]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

How can I be exempted from monitoring the total sulfur content of the fuel?

You may elect not to monitor the total sulfur content of the fuel combusted in the turbine, if the fuel is demonstrated not to exceed potential sulfur emissions of 26 ng SO2/J (0.060 lb SO2/MMBtu) heat input for units located in continental areas and 180 ng SO2/J (0.42 lb SO2/MMBtu) heat input for units located in noncontinental areas or a continental area that the Administrator determines does not have access to natural gas and that the removal of sulfur compounds would cause more environmental harm than benefit. You must use one of the following sources of information to make the required demonstration:

60.4365(a) The fuel quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the fuel, specifying that the maximum total sulfur content for oil use in continental areas is 0.05 weight percent (500 ppmw) or less and 0.4 weight percent (4,000 ppmw) or less for noncontinental areas, the total sulfur content for natural gas use in continental areas is 20 grains of sulfur or less per 100 standard cubic feet and 140 grains of sulfur or less per 100 standard cubic feet for noncontinental areas, has potential sulfur emissions of less than less than 26 ng SO2/J (0.060 lb SO2/MMBtu) heat input for continental areas and has potential sulfur emissions of less than less than 180 ng SO2/J (0.42 lb SO2/MMBtu) heat input for noncontinental areas; or

60.4365(b) [NA - WILL COMPLY WITH 60.4365(a)]

 # 017 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4370]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

How often must I determine the sulfur content of the fuel?

60.4370(a) Fuel oil. [NA - DOES NOT COMBUST FUEL OIL]

60.4370(b) Gaseous fuel.

If you elect not to demonstrate sulfur content using options in § 60.4365, and the fuel is supplied without intermediate bulk storage, the sulfur content value of the gaseous fuel must be determined and recorded once per unit operating day.

60.4370(c) Custom schedules. [NA - CUSTOM SCHEDULE NOT DEVELOPED]

 # 018 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4375]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

What reports must I submit?

60.4375(a) For each affected unit required to continuously monitor parameters or emissions, or to periodically determine the fuel sulfur content under this subpart, you must submit reports of excess emissions and monitor downtime, in accordance with § 60.7(c). Excess emissions must be reported for all periods of unit operation, including start-up, shutdown, and malfunction.

60.4375(b) For each affected unit that performs annual performance tests in accordance with § 60.4340(a), you must submit a written report of the results of each performance test before the close of business on the 60th day following the completion of the performance test.

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 # 019 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4380]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

How are excess emissions and monitor downtime defined for NOX ?

For the purpose of reports required under § 60.7(c), periods of excess emissions and monitor downtime that must be reported are defined as follows:

60.4380(a) [NA - DOES NOT USE WATER OR STEAM TO FUEL RATIO MONITORING]

60.4380(b) [NA - NO CEMS]

60.4380(c) For turbines required to monitor combustion parameters or parameters that document proper operation of the NOX emission controls:

60.4380(c)(1) An excess emission is a 4-hour rolling unit operating hour average in which any monitored parameter does not achieve the target value or is outside the acceptable range defined in the parameter monitoring plan for the unit.

60.4380(c)(2) A period of monitor downtime is a unit operating hour in which any of the required parametric data are either not recorded or are invalid.

 # 020 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4385]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

How are excess emissions and monitoring downtime defined for SO2?

[NA - EXEMPT FROM MONITORING PER 60.4365(a)]

 # 021 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4390]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

What are my reporting requirements if I operate an emergency combustion turbine or a research and development turbine?

[NA - NOT AN EMERGENCY COMBUSTION TURBINE OR A RESEARCH AND DEVELOPMENT TURBINE]

 # 022 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4395]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

When must I submit my reports?

All reports required under § 60.7(c) must be postmarked by the 30th day following the end of each 6-month period.

 # 023 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4400]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

How do I conduct the initial and subsequent performance tests, regarding NOX ?

60.4400(a) You must conduct an initial performance test, as required in § 60.8. Subsequent NOX performance tests shall be conducted on an annual basis (no more than 14 calendar months following the previous performance test).

60.4400(a)(1) There are two general methodologies that you may use to conduct the performance tests. For each test run:

60.4400(a)(1)(i) Measure the NOX concentration (in parts per million (ppm)), using EPA Method 7E or EPA Method 20 in appendix A of this part. For units complying with the output based standard, concurrently measure the stack gas flow rate, using EPA Methods 1 and 2 in appendix A of this part, and measure and record the electrical and thermal output from the unit. Then, use the following equation to calculate the NOX emission rate:

$$E = (1.194 \times 10^{-7} * (NOX)c * Qstd) / P \qquad \text{(EQN 5)}$$

Where:
E = NOX emission rate, in lb/MWh
1.194 × 10 -7 = conversion constant, in lb/dscf-ppm
(NOX)c = average NOX concentration for the run, in ppm
Qstd = stack gas volumetric flow rate, in dscf/hr
P = gross electrical and mechanical energy output of the combustion turbine, in MW (for simple-cycle operation), for combined-cycle operation, the sum of all electrical and mechanical output from the combustion and steam turbines, or, for

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combined heat and power operation, the sum of all electrical and mechanical output from the combustion and steam turbines plus all useful recovered thermal output not used for additional electric or mechanical generation, in MW, calculated according to § 60.4350(f)(2); or

60.4400(a)(1)(ii) Measure the NOX and diluent gas concentrations, using either EPA Methods 7E and 3A, or EPA Method 20 in appendix A of this part. Concurrently measure the heat input to the unit, using a fuel flowmeter (or flowmeters), and measure the electrical and thermal output of the unit. Use EPA Method 19 in appendix A of this part to calculate the NOX emission rate in lb/MMBtu. Then, use Equations 1 and, if necessary, 2 and 3 in § 60.4350(f) to calculate the NOX emission rate in lb/MWh.

60.4400(a)(2) Sampling traverse points for NOX and (if applicable) diluent gas are to be selected following EPA Method 20 or EPA Method 1 (non-particulate procedures), and sampled for equal time intervals. The sampling must be performed with a traversing single-hole probe, or, if feasible, with a stationary multi-hole probe that samples each of the points sequentially. Alternatively, a multi-hole probe designed and documented to sample equal volumes from each hole may be used to sample simultaneously at the required points.

60.4400(a)(3) Notwithstanding paragraph (a)(2) of this section, you may test at fewer points than are specified in EPA Method 1 or EPA Method 20 in appendix A of this part if the following conditions are met:

60.4400(a)(3)(i) You may perform a stratification test for NOX and diluent pursuant to

60.4400(a)(3)(i)(A) [Reserved], or

60.4400(a)(3)(i)(B) The procedures specified in section 6.5.6.1(a) through (e) of appendix A of part 75 of this chapter.

60.4400(a)(3)(ii) Once the stratification sampling is completed, you may use the following alternative sample point selection criteria for the performance test:

60.4400(a)(3)(ii)(A) If each of the individual traverse point NOX concentrations is within ± 10 percent of the mean concentration for all traverse points, or the individual traverse point diluent concentrations differs by no more than ± 5ppm or ± 0.5 percent CO2(or O2) from the mean for all traverse points, then you may use three points (located either 16.7, 50.0 and 83.3 percent of the way across the stack or duct, or, for circular stacks or ducts greater than 2.4 meters (7.8 feet) in diameter, at 0.4, 1.2, and 2.0 meters from the wall). The three points must be located along the measurement line that exhibited the highest average NOX concentration during the stratification test; or

60.4400(a)(3)(ii)(B) For turbines with a NOX standard greater than 15 ppm @ 15% O2, you may sample at a single point, located at least 1 meter from the stack wall or at the stack centroid if each of the individual traverse point NOX concentrations is within ± 5 percent of the mean concentration for all traverse points, or the individual traverse point diluent concentrations differs by no more than ± 3ppm or ± 0.3 percent CO2(or O2) from the mean for all traverse points; or

60.4400(a)(3)(ii)(C) For turbines with a NOX standard less than or equal to 15 ppm @ 15% O2, you may sample at a single point, located at least 1 meter from the stack wall or at the stack centroid if each of the individual traverse point NOX concentrations is within ± 2.5 percent of the mean concentration for all traverse points, or the individual traverse point diluent concentrations differs by no more than ± 1ppm or ± 0.15 percent CO2(or O2) from the mean for all traverse points.

60.4400(b) The performance test must be done at any load condition within plus or minus 25 percent of 100 percent of peak load. You may perform testing at the highest achievable load point, if at least 75 percent of peak load cannot be achieved in practice. You must conduct three separate test runs for each performance test. The minimum time per run is 20 minutes.

60.4400(b)(1) [NA - DOES NOT COMBUST OIL]

60.4400(b)(2) [NA – DUCT BURNER NOT INSTALLED]

60.4400(b)(3) [NA - WATER OR STEAM INJECTION NOT USED]

60.4400(b)(4) Compliance with the applicable emission limit in § 60.4320 must be demonstrated at each tested load

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level. Compliance is achieved if the three-run arithmetic average NOX emission rate at each tested level meets the applicable emission limit in § 60.4320.

60.4400(b)(5) [NA - NO CEMS]

60.4400(b)(6) The ambient temperature must be greater than 0 ° F during the performance test.

 # 024 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4405]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

How do I perform the initial performance test if I have chosen to install a NOX-diluent CEMS?

[NA - NO CEMS]

 # 025 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4410]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

How do I establish a valid parameter range if I have chosen to continuously monitor parameters?

If you have chosen to monitor combustion parameters or parameters indicative of proper operation of NOX emission controls in accordance with § 60.4340, the appropriate parameters must be continuously monitored and recorded during each run of the initial performance test, to establish acceptable operating ranges, for purposes of the parameter monitoring plan for the affected unit, as specified in § 60.4355.

 # 026 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4415]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

How do I conduct the initial and subsequent performance tests for sulfur?

60.4415(a) You must conduct an initial performance test, as required in § 60.8. Subsequent SO2 performance tests shall be conducted on an annual basis (no more than 14 calendar months following the previous performance test). There are three methodologies that you may use to conduct the performance tests.

60.4415(a)(1) If you choose to periodically determine the sulfur content of the fuel combusted in the turbine, a representative fuel sample would be collected following ASTM D5287 (incorporated by reference, see § 60.17) for natural gas or ASTM D4177 (incorporated by reference, see § 60.17) for oil. Alternatively, for oil, you may follow the procedures for manual pipeline sampling in section 14 of ASTM D4057 (incorporated by reference, see § 60.17). The fuel analyses of this section may be performed either by you, a service contractor retained by you, the fuel vendor, or any other qualified agency. Analyze the samples for the total sulfur content of the fuel using:

60.4415(a)(1)(i) [NA - NO LIQUID FUELS]

60.4415(a)(1)(ii) For gaseous fuels, ASTM D1072, or alternatively D3246, D4084, D4468, D4810, D6228, D6667, or Gas Processors Association Standard 2377 (all of which are incorporated by reference, see § 60.17).

60.4415(a)(2) Measure the SO2 concentration (in parts per million (ppm)), using EPA Methods 6, 6C, 8, or 20 in appendix A of this part. In addition, the American Society of Mechanical Engineers (ASME) standard, ASME PTC 19–10–1981–Part 10, “Flue and Exhaust Gas Analyses,” manual methods for sulfur dioxide (incorporated by reference, see § 60.17) can be used instead of EPA Methods 6 or 20. For units complying with the output based standard, concurrently measure the stack gas flow rate, using EPA Methods 1 and 2 in appendix A of this part, and measure and record the electrical and thermal output from the unit. Then use the following equation to calculate the SO2 emission rate:

$$E = (1.664 \times 10^{-7} * (SO2)c * Qstd) / P \qquad \text{(EQN 6)}$$

Where:

E = SO2 emission rate, in lb/MWh

1.664 × 10 -7 = conversion constant, in lb/dscf-ppm

(SO2)c = average SO2 concentration for the run, in ppm

Qstd = stack gas volumetric flow rate, in dscf/hr

P = gross electrical and mechanical energy output of the combustion turbine, in MW (for simple-cycle operation), for combined-cycle operation, the sum of all electrical and mechanical output from the combustion and steam turbines, or, for combined heat and power operation, the sum of all electrical and mechanical output from the combustion and steam turbines plus all useful recovered thermal output not used for additional electric or mechanical generation, in MW, calculated according to § 60.4350(f)(2); or

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60.4415(a)(3) Measure the SO2 and diluent gas concentrations, using either EPA Methods 6, 6C, or 8 and 3A, or 20 in appendix A of this part. In addition, you may use the manual methods for sulfur dioxide ASME PTC 19–10–1981–Part 10 (incorporated by reference, see § 60.17). Concurrently measure the heat input to the unit, using a fuel flowmeter (or flowmeters), and measure the electrical and thermal output of the unit. Use EPA Method 19 in appendix A of this part to calculate the SO2 emission rate in lb/MMBtu. Then, use Equations 1 and, if necessary, 2 and 3 in § 60.4350(f) to calculate the SO2 emission rate in lb/MWh.

60.4415(b) [Reserved]

 # 027 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4415]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

How do I conduct the initial and subsequent performance tests for sulfur?

60.4415(a) You must conduct an initial performance test, as required in § 60.8. Subsequent SO2 performance tests shall be conducted on an annual basis (no more than 14 calendar months following the previous performance test). There are four methodologies that you may use to conduct the performance tests.

60.4415(a)(1) The use of a current, valid purchase contract, tariff sheet, or transportation contract for the fuel specifying the maximum total sulfur content of all fuels combusted in the affected facility. Alternately, the fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of appendix D to part 75 of this chapter may be used.

60.4415(a)(2) Periodically determine the sulfur content of the fuel combusted in the turbine, a representative fuel sample may be collected either by an automatic sampling system or manually. For automatic sampling, follow ASTM D5287 (incorporated by reference, see § 60.17) for gaseous fuels or ASTM D4177 (incorporated by reference, see § 60.17) for liquid fuels. For manual sampling of gaseous fuels, follow API Manual of Petroleum Measurement Standards, Chapter 14, Section 1, GPA 2166, or ISO 10715 (all incorporated by reference, see § 60.17). For manual sampling of liquid fuels, follow GPA 2174 or the procedures for manual pipeline sampling in section 14 of ASTM D4057 (both incorporated by reference, see § 60.17). The fuel analyses of this section may be performed either by you, a service contractor retained by you, the fuel vendor, or any other qualified agency. Analyze the samples for the total sulfur content of the fuel using:

60.4415(a)(2)(i) [NA - NO LIQUID FUELS]

60.4415(a)(2)(ii) For gaseous fuels, ASTM D1072, or alternatively D3246, D4084, D4468, D4810, D6228, D6667, or GPA 2140, 2261, or 2377 (all incorporated by reference, see § 60.17).

60.4415(a)(3) Measure the SO2 concentration (in parts per million (ppm)), using EPA Methods 6, 6C, 8, or 20 in appendix A of this part. In addition, the American Society of Mechanical Engineers (ASME) standard, ASME PTC 19–10–1981–Part 10, “Flue and Exhaust Gas Analyses,” manual methods for sulfur dioxide (incorporated by reference, see § 60.17) can be used instead of EPA Methods 6 or 20. For units complying with the output based standard, concurrently measure the stack gas flow rate, using EPA Methods 1 and 2 in appendix A of this part, and measure and record the electrical and thermal output from the unit. Then use the following equation to calculate the SO2 emission rate:

$$E = (1.664 \times 10^{-7} * (SO2)c * Qstd) / P \qquad \text{(EQN 6)}$$

Where:
E = SO2 emission rate, in lb/MWh
1.664 × 10-7 = conversion constant, in lb/dscf-ppm
(SO2)c = average SO2 concentration for the run, in ppm
Qstd = stack gas volumetric flow rate, in dscf/hr
P = gross electrical and mechanical energy output of the combustion turbine, in MW (for simple-cycle operation), for combined-cycle operation, the sum of all electrical and mechanical output from the combustion and steam turbines, or, for combined heat and power operation, the sum of all electrical and mechanical output from the combustion and steam turbines plus all useful recovered thermal output not used for additional electric or mechanical generation, in MW, calculated according to § 60.4350(f)(2); or

60.4415(a)(4) Measure the SO2 and diluent gas concentrations, using either EPA Methods 6, 6C, or 8 and 3A, or 20 in appendix A of this part. In addition, you may use the manual methods for sulfur dioxide ASME PTC 19–10–1981–Part 10

SECTION E. Source Group Restrictions.

(incorporated by reference, see § 60.17). Concurrently measure the heat input to the unit, using a fuel flowmeter (or flowmeters), and measure the electrical and thermal output of the unit. Use EPA Method 19 in appendix A of this part to calculate the SO2 emission rate in lb/MMBtu. Then, use Equations 1 and, if necessary, 2 and 3 in § 60.4350(f) to calculate the SO2 emission rate in lb/MWh.

60.4415(b) [Reserved]

[71 FR 38497, July 6, 2006, as amended at 85 FR 63410, Oct. 7, 2020]

SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this State Only facility.

SECTION G. Emission Restriction Summary.

No emission restrictions listed in this section of the permit.

SECTION H. Miscellaneous.

#001
This permit supersedes State-Only Operating Permit No. 36-05076, issued on 5/7/19 and amended on 10/26/22.

#002
NOTE: The capacities listed in Section A, page 4, are for informational use only and should not be used as enforceable limitations.

#003
Source 031 is a Cleaver Brooks boiler rated at 29.29 MMBTU/hr.
Source 034 is a Cleaver Brooks boiler rated at 32.33 MMBTU/hr.
Source 035 is a Cleaver Brooks boiler rated at 32.33 MMBTU/hr.

#004
Source 106 is a 600 kw Kohler emergency generator.
Source 108 is a 1500 kw Caterpillar emergency generator.

NOTE: ID 108 is an existing institutional emergency stationary RICE at an area source of HAP emissions and is therefore exempt from the Engine RICE MACT regulations.

#005
Source IDs 109, 110, 111, & 112 are Caterpillar 3516C diesel fired emergency engines. Each engine is rated at 2,937 bhP and is equipped with a 2,000 kW genset. The engines are EPA Tier 2 certified and are equipped with catalytic converters and carbon filters.

#006
Source ID 201 is a 3.5 MW Solar Turbines Centaur 40-4700S natural gas fired combustion turbine. The turbine is equipped with a heat recovery steam generator (HRSG), low NOx option mode (SoLoNOx) and a BASF Corporation CAMET oxidation catalyst.

#007
The following sources are not subject to any specific work practice standards, testing, monitoring, recordkeeping, or reporting requirements:
- Boilerhouse exhaust fans for worker comfort
- 6,000 gallon below-ground No. 2 oil tank - emergency generator 8
- Miscellaneous air compressors, steam and/or electric autoclaves, and heat exchangers used for human comfort.

#008
- Source 101 – Generator 3 was decommissioned in October 2023 and removed as part of this permit renewal.
- Source 104 – Generator 7 was removed in 2017 and was removed prior to the issuance of the 05/07/2019 SOOP renewal.

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