



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

STATE ONLY SYNTHETIC MINOR OPERATING PERMIT

Issue Date: May 21, 2021

Effective Date: May 21, 2021

Expiration Date: May 21, 2026

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: 46-00019

Synthetic Minor

Federal Tax Id - Plant Code: 52-1893632-2

Owner Information

Name: LOCKHEED MARTIN CORP

Mailing Address: PO BOX 61511

BLDG 100, RML9507

KING OF PRUSSIA, PA 19406-0911

Plant Information

Plant: LOCKHEED MARTIN CORP

Location: 46 Montgomery County

46955 Upper Merion Township

SIC Code: 7371 Services - Computer Programming Services

Responsible Official

Name: MEGAN ROGERS

Title: MULTI-FUNCT FIN SR MGR

Phone: (610) 354 - 7185

Email: megan.m.rogers@lmco.com

Permit Contact Person

Name: SCOTT BEAN

Title: STAFF EHS ENGINEER

Phone: (610) 354 - 1918

Email: scott.d.bean@lmco.com

[Signature] _____

JAMES D. REBARCHAK, SOUTHEAST REGION AIR PROGRAM MANAGER



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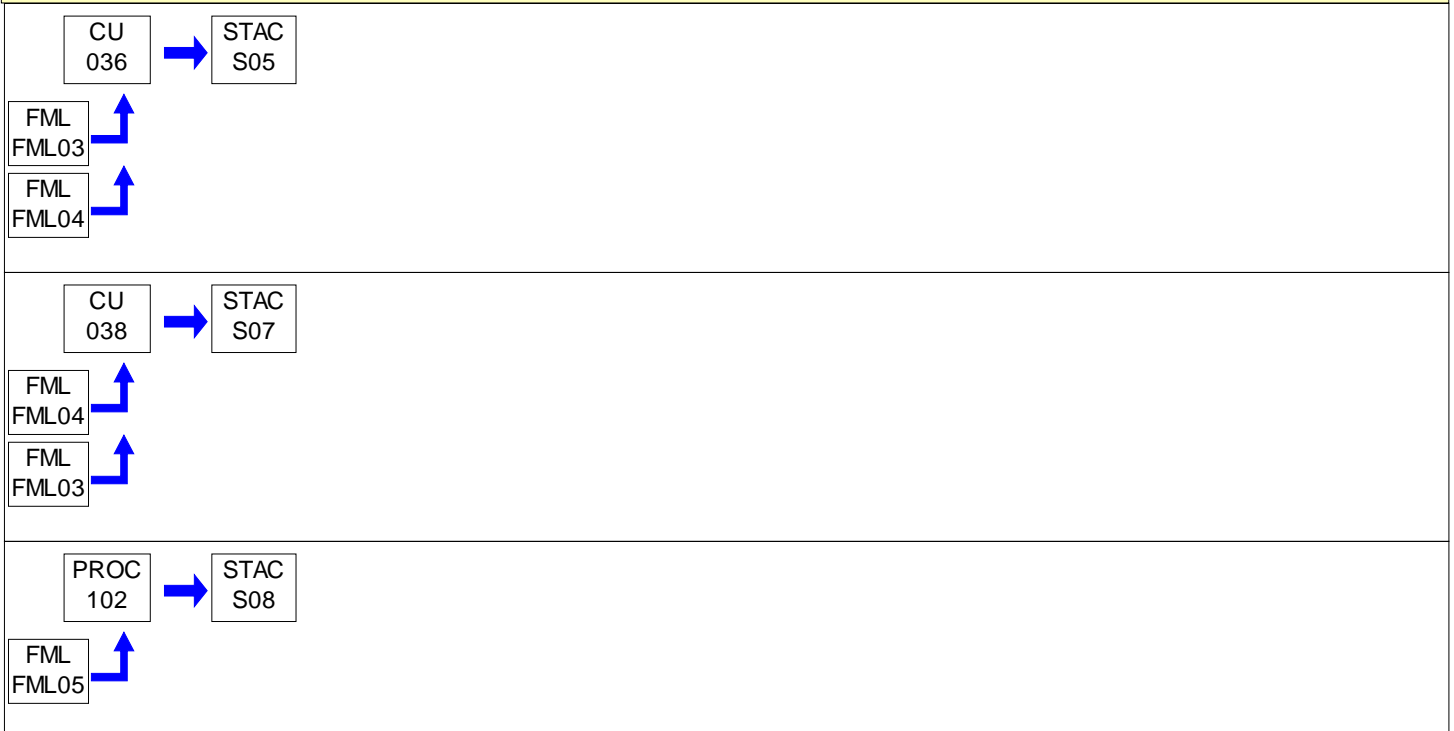
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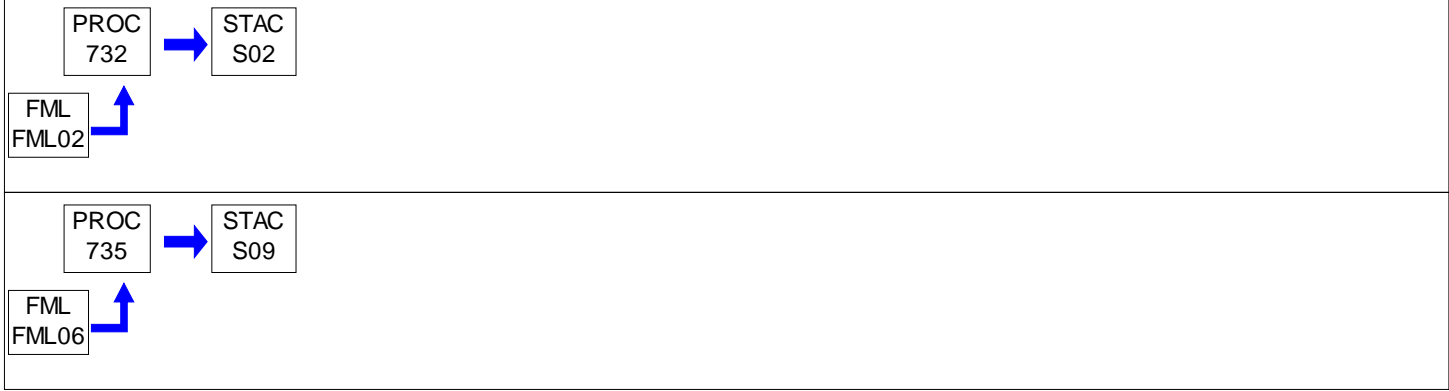
SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
036	BOILER 5	33.500 MMBTU/HR	
		33.500 MCF/HR	Natural Gas
		240.000 Gal/HR	#2 Oil
038	BOILER 7	33.500 MMBTU/HR	
		33.500 MCF/HR	Natural Gas
		240.000 Gal/HR	#2 Oil
102	PROPANE EMER GENERATOR (1)	N/A	Propane
732	NON-BLDG 10 (DIESEL) EMER GENERATOR	N/A	Diesel Fuel
735	2,000 KW DIESEL EMERGENCY ELECTRIC GENERATOR	147.300 Gal/HR	Diesel Fuel
FML02	NON-BLDG 10 (DIESEL) DAY TANK		
FML03	NAT GAS LINE		
FML04	BOILER FUEL OIL TANKS (2)		
FML05	PROPANE EMERGENCY GEN TANK (1)		
FML06	FUEL TANK FOR THE 2000KW DIESEL EMERGENCY ELECTRIC GENERATOR		
S02	NON-BLDG 10 (DIESEL GEN) STACK		
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PERMIT MAPS




PERMIT MAPS



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

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

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

- (a) This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit.
- (b) The terms and conditions of the expired permit shall automatically continue pending issuance of a new operating permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit.

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

- (a) The permittee shall submit a timely and complete application for renewal of the operating permit to the appropriate Regional Air Program Manager. The application for renewal of the operating permit shall be submitted at least six (6) months and not more than 18 months before the expiration date of this permit.
- (b) The application for permit renewal shall include the current permit number, a description of any permit revisions that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.
- (c) The permittee shall submit with the renewal application a fee for the processing of the application as specified in 25 Pa. Code § 127.703(b). The fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" and submitted with the fee form to the respective regional office.
- (d) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413.
- (e) The application for renewal of the operating permit shall also include submission of supplemental compliance review forms in accordance with the requirements of 25 Pa. Code § 127.412(b) and § 127.412(j).
- (f) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information as necessary to address any requirements that become applicable to the source after the permittee submits a complete application, but prior to the date the Department takes action on the permit application.

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

- (a) The permittee shall pay the annual operating permit maintenance fee according to the following fee schedule in either paragraph (1) or (2) in accordance with 25 Pa. Code § 127.703(d) on or before December 31 of each year for the next calendar year.
- (1) For a synthetic minor facility, a fee equal to:
- (i) Four thousand dollars (\$4,000) for calendar years 2021—2025.
 - (ii) Five thousand dollars (\$5,000) for calendar years 2026—2030.
 - (iii) Six thousand three hundred dollars (\$6,300) for the calendar years beginning with 2031.

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

(1) Enter at reasonable times upon the permittee's premises where a source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;

(2) Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;

(3) Inspect at reasonable times, any facilities, equipment including monitoring and air pollution control equipment, practices, or operations regulated or required under this permit;

(4) Sample or monitor, at reasonable times, any substances or parameters, for the purpose of assuring compliance with the permit or applicable requirements as authorized by the Clean Air Act, the Air Pollution Control Act, or the regulations promulgated under the Acts.

(b) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act or regulations adopted thereunder including denying the Department access to a source at this facility. Refusal of entry or access may constitute grounds for permit revocation and assessment of criminal and/or civil penalties.

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

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

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

**SECTION B. General State Only Requirements**

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

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

(c) For purposes of Sub-condition (b) of this permit condition, the specifications in applications for plan approvals and operating permits are the physical configurations and engineering design details which the Department determines are essential for the permittee's compliance with the applicable requirements in this State-Only permit. Nothing in this sub-condition shall be construed to create an independent affirmative duty upon the permittee to obtain a predetermination from the Department for physical configuration or engineering design detail changes made by the permittee.

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

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

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

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

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

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

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

- (1) The permittee constructs or operates the source subject to the operating permit so that it is in violation of the Air Pollution Control Act, the Clean Air Act, the regulations thereunder, a plan approval, a permit or in a manner that causes air pollution.
- (2) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.
- (3) The permittee has failed to submit a report required by the operating permit or an applicable regulation.
- (4) The EPA determines that the permit is not in compliance with the Clean Air Act or the regulations thereunder.

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

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

SECTION B. General State Only Requirements

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

(g) Except for de minimis emission increases, installation of minor sources made pursuant to this permit condition and Plan Approval Exemptions under 25 Pa. Code § 127.14 (relating to exemptions), the permittee is prohibited from making changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.

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

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

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

(1) Section 127.14 (relating to exemptions)

(2) Section 127.447 (relating to alternative operating scenarios)

(3) Section 127.448 (relating to emissions trading at facilities with Federally enforceable emissions caps)

(4) Section 127.449 (relating to de minimis emission increases)

(5) Section 127.450 (relating to administrative operating permit amendments)

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

(a) When needed to protect public health, welfare and the environment from emissions of hazardous air pollutants from new and existing sources, the permittee shall comply with the health risk-based emission standards or operating practice requirements imposed by the Department, except as precluded by §§ 6.6(d)(2) and (3) of the Air Pollution Control Act [35 P.S. § 4006.6(d)(2) and (3)].

(b) A person challenging a performance or emission standard established by the Department has the burden to demonstrate that performance or emission standard does not meet the requirements of Section 112 of the Clean Air Act.

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

No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of 25 Pa. Code Article III, except that with prior approval of the Department, the device or technique may be used for control of malodors.

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

(a) The permittee shall comply with the applicable reporting requirements of the Clean Air Act, the regulations thereunder, the Air Pollution Control Act and 25 Pa. Code Article III including Chapters 127, 135 and 139.

(b) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of any air contamination source.

(c) Reports, test data, monitoring data, notifications and requests for renewal of the permit shall be submitted to the:

Regional Air Program Manager
PA Department of Environmental Protection
(At the address given in the permit transmittal letter, or otherwise notified)

(d) Any records or information including applications, forms, or reports submitted pursuant to this permit condition shall contain a certification by a responsible official as to truth, accuracy and completeness. The certifications submitted under this permit shall require a responsible official of the facility to certify that based on information and belief formed after reasonable inquiry, the statements and information in the documents are true, accurate and complete.

(e) Any records, reports or information submitted to the Department shall be available to the public except for such

**SECTION B. General State Only Requirements**

records, reports or information which meet the confidentiality requirements of § 4013.2 of the Air Pollution Control Act and §§ 112(d) and 114(c) of the Clean Air Act. The permittee may not request a claim of confidentiality for any emissions data generated for the facility.

#019 [25 Pa. Code §§ 127.441(c) & 135.5]**Sampling, Testing and Monitoring Procedures.**

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements****#023 [25 Pa. Code §135.3]****Reporting**

(a) If the facility is a Synthetic Minor Facility, the permittee shall submit by March 1 of each year an annual emissions report for the preceding calendar year. The report shall include information for all active previously reported sources, new sources which were first operated during the preceding calendar year, and sources modified during the same period which were not previously reported. All air emissions from the facility should be estimated and reported.

(b) A source owner or operator of a Synthetic Minor Facility may request an extension of time from the Department for the filing of an annual emissions report, and the Department may grant the extension for reasonable cause.

#024 [25 Pa. Code §135.4]**Report Format**

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

**SECTION C. Site Level Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §121.7]****Prohibition of air pollution.**

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

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

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

- (a) construction or demolition of buildings or structures;
- (b) grading, paving and maintenance of roads and streets;
- (c) use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets;
- (d) clearing of land;
- (e) stockpiling of materials;
- (f) open burning operations, as specified in 25 Pa. Code § 129.14;
- (g) blasting in open pit mines. Emissions from drilling are not considered as emissions from blasting;
- (h) coke oven batteries, provided the fugitive air contaminants emitted from any coke oven battery comply with the standards for visible fugitive emissions in 25 Pa. Code §§ 123.44 and 129.15 (relating to limitations of visible fugitive air contaminants from operation of any coke oven battery; and coke pushing operations); and
- (i) sources and classes of sources other than those identified in (a)-(h), above, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (1) the emissions are of minor significance with respect to causing air pollution; and
 - (2) the emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

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

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

004 [25 Pa. Code §123.31]**Limitations**

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

005 [25 Pa. Code §123.41]**Limitations**

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

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

[Compliance with this streamlined permit condition assures compliance with 40 C.F.R. Part 60 § 60.43(c) for Source ID 036 (Boiler 5) and 038 (Boiler 7); and 40 C.F.R. Part 89 § 89.113(a) for Source ID 735 (2000kW generator)]

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

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

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

**SECTION C. Site Level Requirements**

- (b) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- (c) When the emission results from the sources specified in 25 Pa. Code § 123.1(a)(1)-(9) (relating to prohibition of certain fugitive emissions).

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

The permittee shall limit the total combined NOx emissions from the entire facility to less than 24.9 tons per year calculated on a 12-month rolling sum.

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

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

- (a) a fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer;
- (b) any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department;
- (c) a fire set for the prevention and control of disease or pests, when approved by the Department;
- (d) a fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation;
- (e) a fire set for the purpose of burning domestic refuse, when the fire is on the premises of a structure occupied solely as a dwelling by two families or less and when the refuse results from the normal occupancy of the structure;
- (f) a fire set solely for recreational or ceremonial purposes; or
- (g) a fire set solely for cooking food.

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

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

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

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

Visible emissions shall be measured using either of the following:

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

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

- (a) The permittee shall monitor the facility, once per operating day, for the following:
- (1) odors which may be objectionable (as per 25 Pa. Code §123.31);

**SECTION C. Site Level Requirements**

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

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

The permittee shall calculate the total combined NOx emissions from the facility monthly and on a 12-month rolling sum.

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

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

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

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

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

- (a) De minimus increases without notification to the Department.
- (b) De minimus increases with notification to the Department, via letter.
- (c) Increases resulting from a Request for Determination (RFD) to the Department.
- (d) Increases resulting from the issuance of a plan approval and subsequent operating permit.

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

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

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

(a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to the Department at 484-250-5920. A malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. An emergency is any situation arising from sudden and reasonably unforeseeable events beyond the control of the owner or operator of a facility which requires

**SECTION C. Site Level Requirements**

immediate corrective action to restore normal operation and which causes the emission source to exceed emissions, due to unavoidable increases in emissions attributable to the situation. An emergency shall not include situations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

(b) When the malfunction, emergency or incident of excess emissions poses an imminent danger to the public health, safety, welfare, or environment, it shall be reported to the Department and the County Emergency Management Agency by telephone within one (1) hour after the discovery of the malfunction, emergency or incident of excess emissions. The owner or operator shall submit a written or emailed report of instances of such malfunctions, emergencies or incidents of excess emissions to the Department within three (3) business days of the telephone report.

(c) The report shall describe the following:

- (1) Name, permit or authorization number, and location of the facility;
- (2) Nature and cause of the malfunction, emergency or incident;
- (3) Date and time when the malfunction, emergency or incident was first observed;
- (4) Expected duration of excess emissions;
- (5) Estimated rate of emissions; and
- (6) Corrective actions or preventative measures taken.

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

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

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

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

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

[Additional authority for this permit condition is also derived from 40 CFR Part 68.]

(a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).

(b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the threshold quantity at a facility. The permittee shall submit the RMP to the federal Environmental Protection Agency according to the following schedule and requirements:

- (1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:
 - (i) Three years after the date on which a regulated substance is first listed under 40 CFR § 68.130; or,
 - (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

SECTION C. Site Level Requirements

- (2) The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.
- (3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.
- (c) As used in this permit condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.
- (d) If this facility is subject to 40 CFR Part 68, as part of the certification required under this permit, the permittee shall:
- (1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,
 - (2) Certify that this facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.
- (e) If this facility is subject to 40 CFR Part 68, the permittee shall maintain records supporting the implementation of an accidental release program for five (5) years in accordance with 40 CFR § 68.200.
- (f) When this facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and 40 CFR Part 68, appropriate enforcement action will be taken by the Department if the permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.

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

A person responsible for any source specified in 25 Pa. Code § 123.1(a)(1-9), shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

- (a) Use, where possible, of water or suitable chemicals, for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.
- (b) Application of asphalt, water, or other suitable chemicals, on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
- (c) Paving and maintenance of roadways.
- (d) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or by other means.

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

The permittee shall ensure that the sources and air pollution control devices, listed in Section A, of this permit, are operated and maintained in a manner consistent with good operating and maintenance practices to control and minimize malodor, fugitive particulate and visible emissions.

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

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



SECTION C. Site Level Requirements

021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

VII. ADDITIONAL REQUIREMENTS.

022 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional Authority for this permit condition is also derived from 25 Pa. Code § 130 Subchapter C]

The permittee shall ensure for each delivery or receipt of Architectural and Industrial Maintenance Coating (as defined in 25 Pa Code § 130.602) that is used at the facility, meets the required manufacturer limits contained in 25 Pa Code § 130 Subchapter C.

Compliance with this condition shall be demonstrated by having the VOC contents indicated on the coating container or label or supplying an SDS or certified product data sheet upon request to the Department.

The VOC content limits for the manufacturer are listed in 25 Pa Code § 130.603 Table 1.

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.

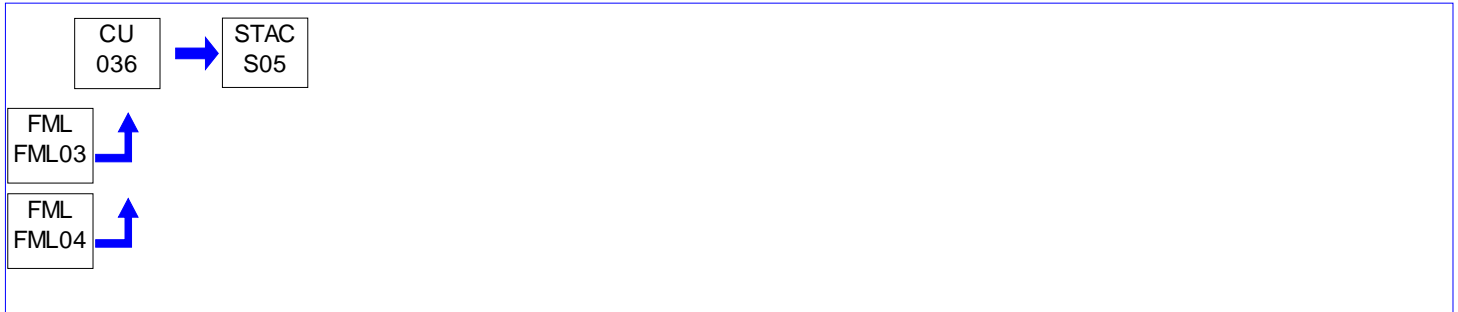
No compliance milestones exist.

**SECTION D. Source Level Requirements**

Source ID: 036

Source Name: BOILER 5

Source Capacity/Throughput:	33.500 MMBTU/HR	
	33.500 MCF/HR	Natural Gas
	240.000 Gal/HR	#2 Oil

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

001 [25 Pa. Code §123.11]

Combustion units

The permittee shall not permit the emission into the outdoor atmosphere of particulate matter from this combustion unit in excess of 0.4 lbs/MMBtu of heat input, pursuant to 25 Pa. Code § 123.11(a)(1).

002 [25 Pa. Code §123.22]

Combustion units

The permittee shall not permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from any combustion unit, in the Southeast Air Basin, in excess of 1.0 lbs/MMBtu of heat input, pursuant to 25 Pa. Code § 123.22(e)(1).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The boiler shall not be operated without use of the equipped O₂ trim system

Fuel Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall use only natural gas and/or No. 2 fuel oil for this source.

The No. 2 fuel oil shall not have reclaimed or waste oil or other waste material added to it.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) A person may not offer for sale, deliver for use, exchange in trade or permit the use of commercial fuel oil in a combustion unit in the Southeast Pennsylvania air basin if the commercial fuel oil contains sulfur in excess of [500 ppm or 0.05% by weight for No. 2] by weight sulfur content, pursuant to 25 Pa. Code § 123.22(e)(2)(i), except as described in 25 Pa. Code § 123.22(e)(2)(ii) and (iii).

(b) Commercial fuel oil that was stored in the Commonwealth by the ultimate consumer:

1. Prior to July 1, 2016 which met the applicable maximum allowable sulfur content for commercial fuel oil through June 30, 2016 in subparagraph (a) at the time it was stored, may be used by the ultimate consumer in this Commonwealth on and after July 1, 2016.

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

**SECTION D. Source Level Requirements**

(c) Only for Number 2 Fuel oil:

On and after September 1, 2020, a person may not offer for sale, deliver for use, exchange in trade or permit the use of commercial fuel oil in a combustion unit in the Southeast Pennsylvania air basin if the commercial fuel oil contains sulfur in excess of 15 ppm or 0.0015% by weight for No. 2 fuel oil or lighter, by weight sulfur content, pursuant to 25 Pa. Code § 123.22(e)(2)(i), except as described in 25 Pa. Code § 123.22(e)(2)(ii) and (iii).

(d) The permittee may obtain from the fuel oil supplier, a delivery receipt that certifies the percentage of sulfur, by weight, is less than or equal 0.0015%, each time a delivery is made as proof of compliance. In the event that a delivery is made, and no receipt is obtained, the permittee shall perform testing in accordance with Condition #007, of this source (Boiler #5).

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11195]

SUBPART JJJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources

Are any boilers not subject to this subpart?

[Authority for this permit condition is derived from 25 Pa. Code § 127.35 and 40 CFR § 63.11195(e).

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

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

II. TESTING REQUIREMENTS.

007 [25 Pa. Code §123.22]

Combustion units

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

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

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

008 [25 Pa. Code §139.16]

Sulfur in fuel oil.

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

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

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

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

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

**SECTION D. Source Level Requirements****III. MONITORING REQUIREMENTS.****# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is also derived from 40 C.F.R. § 60.48c(g).]

- a) The permittee shall monitor the amount and type of fuel consumed on a monthly basis.
- b) The permittee shall monitor the number of hours this boiler is operated on No. 2 fuel oil on a monthly basis.

[Compliance with the monthly hours and fuel useage ensures compliance with 40 C.F.R. § 63.1115 and § 63.11237 for gas fired]

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

Each adjustment conducted under the tune-up procedures for this boiler shall be recorded in a permanently bound logbook, or recorded and kept in an electronic format that will be made available to the Department upon request. The records shall contain, at a minimum, the following information:

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

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

[Additional authority for this condition is also derived from 40 C.F.R. § 60.48c(g).]

- a) The permittee shall keep records of the type and amount of fuel consumed on a monthly basis.
- b) The permittee shall keep records of the number of hours this boiler is operated on No. 2 fuel oil on a monthly basis.

[Compliance with the monthly fuel usage records ensures compliance with 40 C.F.R. § 63.1115 and § 63.11237 for gas fired]

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

The permittee shall receive with each fuel oil delivery an electronic or paper record which legibly and conspicuously contains the following information:

- (a) the date of the sale or transfer;
- (b) the name and address of the seller;
- (c) the name and address of the buyer;
- (d) the delivery address;
- (e) the volume of commercial fuel oil purchased; and
- (f) the identification of the sulfur content of the shipment of fuel oil, determined using the sampling and testing methods specified in the testing requirement above, expressed as one of the following statements:

1. For a shipment of No. 2 and lighter commercial fuel oil:
 - (i) Prior to September 1, 2020 - "The sulfur content of this shipment is 500 ppm or below."

[Compliance with this condition assures compliance with 40 C.F.R. § 60.44c(h) and 48c(f).]

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

2. For a shipment of No. 5, No. 6 and heavier commercial fuel oil - "The sulfur content of this shipment is 5,000 ppm or

**SECTION D. Source Level Requirements**

below.”

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

40 C.F.R. § 60.4 requires submission of all requests, reports, applications, submittals, and other communications to both the EPA and the Department. The EPA copies shall be forwarded to:

Director
Air, Toxics, and Radiation Division
US EPA, Region III
1650 Arch Street
Philadelphia, PA 19103

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

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

The permittee shall submit, to the Department and the USEPA, copies of the following:

- (a) The performance test data for opacity from any subsequent performance tests.
- (b) Excess emission reports for any calendar quarter for which there are excess emissions. If there are no excess emissions, the report shall be submitted semiannually stating that no excess emissions occurred during the semiannual reporting period.
- (c) Semiannual reports for the fuel oil supplier certification, which shall also include a certified statement by the permittee that the records of fuel supplier certifications submitted represent all of the fuel combusted during the semiannual reporting period.
- (d) Reports shall be postmarked by the 30th day following the end of the reporting period.

015 [25 Pa. Code §139.16]**Sulfur in fuel oil.**

Results of the fuel oil sulfur test shall be reported in accordance with the units specified in 25 Pa. Code § 123.22 (relating to combustion units).

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

The permittee shall operate and maintain this source in a manner consistent with safety and good air pollution practices for minimizing emissions and in accordance with the manufacturer's specifications.

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

(a) The permittee shall perform a tune-up annually on this boiler (Source 036). Each tune-up must be conducted no later than 13 months after the previous tune-up. The tune-up will consist of the following:

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

**SECTION D. Source Level Requirements**

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

VII. ADDITIONAL REQUIREMENTS.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Compliance with the particulate matter emission limit for this source shall be demonstrated using a Department approved method.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source consists of a Cleaver Brooks Boiler, model number CBW-400-800-150ST rated at 33.5MMBTU/HR and installed in 1991. The boiler is equipped with a flue gas economizer and oxygen trim system.

**SECTION D. Source Level Requirements**

Source ID: 038

Source Name: BOILER 7

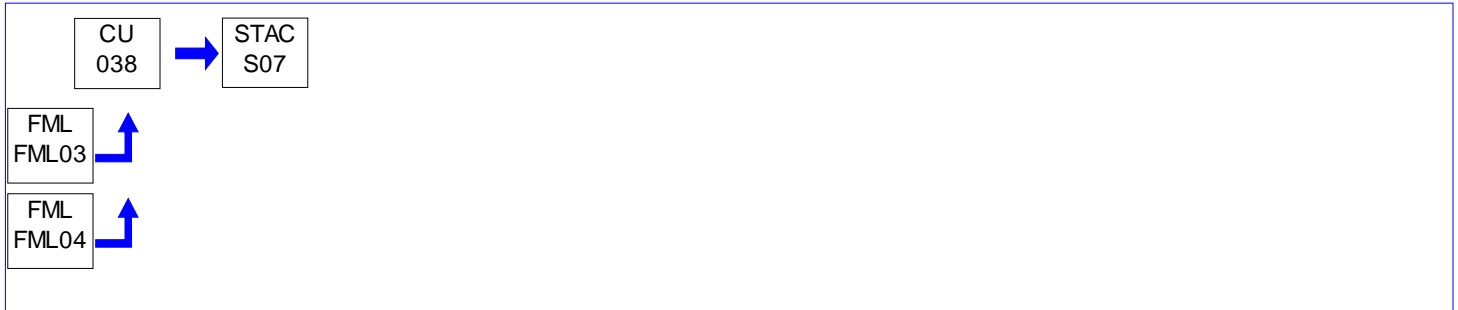
Source Capacity/Throughput: 33.500 MMBTU/HR

33.500 MCF/HR

Natural Gas

240.000 Gal/HR

#2 Oil

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

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

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

The permittee shall not permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from any combustion unit, in the Southeast Air Basin, in excess of 1.0 lbs/MMBtu of heat input, pursuant to 25 Pa. Code § 123.22(e)(1).

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

The permittee shall not exceed the following emission limits for this boiler:

(a) When operating on natural gas:

- (1) NO_x - 30 ppmv, corrected to 3% oxygen, on a dry basis.
- (2) VOC - 40 ppmv, corrected to 3% oxygen, on a dry basis.
- (3) PM - 0.1 lb/MMBtu.
- (4) CO - 200 ppmv, corrected to 3% oxygen, on a dry basis.
- (5) SO_x - 1 ppmv, corrected to 3% oxygen, on a dry basis.

(b) When operating on No. 2 fuel oil:

- (1) NO_x - 140 ppmv, corrected to 3% oxygen, on a dry basis.
- (2) VOC - 60 ppmv, corrected to 3% oxygen, on a dry basis.
- (3) PM - 0.025 lb/MMBtu.
- (4) CO - 90 ppmv, corrected to 3% oxygen, on a dry basis.

The permittee shall demonstrate compliance for the NO_x and CO emission limits through stack testing. The permittee shall keep records of the calculations to demonstrate compliance with the PM, VOC and SO_x emission concentration limits.

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

The boiler shall not be operated without use of the equipped O₂ trim system.

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

The permittee shall use only natural gas and/or No. 2 fuel oil as fuel for this boiler.

The No. 2 fuel oil shall not have reclaimed or waste oil or other waste material added to it.

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

[Authority for this permit condition is derived from 25 Pa. Code § 127.35 and 40 CFR § 63.11195(e).]

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

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

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

(a) A person may not offer for sale, deliver for use, exchange in trade or permit the use of commercial fuel oil in a combustion unit in the Southeast Pennsylvania air basin if the commercial fuel oil contains sulfur in excess of [500 ppm or 0.05% by weight for No. 2] by weight sulfur content, pursuant to 25 Pa. Code § 123.22(e)(2)(i), except as described in 25 Pa. Code § 123.22(e)(2)(ii) and (iii).

(b) Commercial fuel oil that was stored in the Commonwealth by the ultimate consumer:

1. Prior to July 1, 2016 which met the applicable maximum allowable sulfur content for commercial fuel oil through June 30, 2016 in subparagraph (a) at the time it was stored, may be used by the ultimate consumer in this Commonwealth on and after July 1, 2016.

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

(c) Only for Number 2 Fuel oil

On and after September 1, 2020, a person may not offer for sale, deliver for use, exchange in trade or permit the use of commercial fuel oil in a combustion unit in the Southeast Pennsylvania air basin if the commercial fuel oil contains sulfur in excess of 15 ppm or 0.0015% by weight for No. 2 fuel oil or lighter, by weight sulfur content, pursuant to 25 Pa. Code § 123.22(e)(2)(i), except as described in 25 Pa. Code § 123.22(e)(2)(ii) and (iii).

(d) The permittee may obtain from the fuel oil supplier, a delivery receipt that certifies the percentage of sulfur, by weight, is less than or equal 0.0015%, each time a delivery is made as proof of compliance. In the event that a delivery is made, and no receipt is obtained, the permittee shall perform testing in accordance with Condition #008, of this source (Boiler #7).

[Compliance with above condition assures compliance with 40 CFR § 60.42c(d andh)]

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

The permittee shall limit the No.2 fuel oil usage to less than 775,000 gallons per year, calculated on a 12-month rolling sum.

**SECTION D. Source Level Requirements****Control Device Efficiency Restriction(s).****# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

This boiler shall operate with a Flue Gas Recirculation (FGR) system at all times.

II. TESTING REQUIREMENTS.**# 010 [25 Pa. Code §123.22]****Combustion units**

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

- (a) in accordance with the sample collection, test methods and procedures specified under 25 Pa. Code § 139.16 (relating to sulfur in fuel oil); or
- (b) by other methods developed or approved by the Department or the Administrator of the EPA, or both.

011 [25 Pa. Code §139.61]**Requirements.**

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

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

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

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

[Additional authority for this condition is also derived from 40 C.F.R. § 60.48c(g).]

- a) The permittee shall monitor the amount and type of fuel consumed on a monthly basis.
- b) The permittee shall monitor the number of hours this boiler is operated on No. 2 fuel oil on a monthly basis.

[Compliance with the monthly hours and fuel useage ensures compliance with 40 C.F.R. § 63.1115 and § 63.11237 for gas fired]

IV. RECORDKEEPING REQUIREMENTS.**# 013 [25 Pa. Code §123.22]****Combustion units**

The permittee shall receive with each fuel oil delivery an electronic or paper record which legibly and conspicuously contains the following information:

- (a) the date of the sale or transfer;
- (b) the name and address of the seller;
- (c) the name and address of the buyer;
- (d) the delivery address;
- (e) the volume of commercial fuel oil purchased; and

**SECTION D. Source Level Requirements**

(f) the identification of the sulfur content of the shipment of fuel oil, determined using the sampling and testing methods specified in the testing requirement above, expressed as one of the following statements:

1. For a shipment of No. 2 and lighter commercial fuel oil:
 - (i) Prior to September 1, 2020 - "The sulfur content of this shipment is 500 ppm or below."
 - (ii) On and after September 1, 2020 - "The sulfur content of this shipment is 15 ppm or below."
2. For a shipment of No. 5, No. 6 and heavier commercial fuel oil - "The sulfur content of this shipment is 5,000 ppm or below."

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

[Additional authority for this condition is also derived from 40 C.F.R. § 60.48c(g).]

- a) The permittee shall keep records of the type and amount of fuel consumed on a monthly basis.
- b) The permittee shall keep records of the number of hours this boiler is operated on No. 2 fuel oil on a monthly basis.

[Compliance with the monthly fuel usage records ensures compliance with 40 C.F.R. § 63.1115 and § 63.11237 for gas fired]

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

Each adjustment conducted under the tune-up procedures for this boiler shall be recorded in a permanently bound logbook, or recorded and kept in an electronic format that will be made available to the Department upon request. The records shall contain, at a minimum, the following information:

- (a) The date of the tuning procedure.
- (b) The name of the service company and technicians.
- (c) The final operating rate or load.
- (d) The final CO and NOx emission rates to demonstrate compliance with the limits in condition No. 003 of this section.
- (e) The final excess oxygen rate.

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

The permittee shall keep records of the No.2 fuel usage monthly and on a 12-month rolling sum to ensure compliance with the fuel usage limit of 775,000 gallons per year.

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

The permittee shall keep records of the calculations used to demonstrate compliance with the VOC, PM and SOx concentration limits listed in condition number 003 of this section.

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

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

The permittee shall submit, to the Department and the USEPA, copies of the following:

- (a) The performance test data for opacity from any subsequent performance tests.
- (b) Excess emission reports for any calendar quarter for which there are excess emissions. If there are no excess emissions, the report shall be submitted semiannually stating that no excess emissions occurred during the semiannual reporting period.

**SECTION D. Source Level Requirements**

(c) Semiannual reports for the fuel oil supplier certification, which shall also include a certified statement by the permittee that the records of fuel supplier certifications submitted represent all of the fuel combusted during the semiannual reporting period.

(d) Reports shall be postmarked by the 30th day following the end of the reporting period.

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

40 C.F.R. § 60.4 requires submission of all requests, reports, applications, submittals, and other communications to both the EPA and the Department. The EPA copies shall be forwarded to:

Director
Air, Toxics, and Radiation Division
US EPA, Region III
1650 Arch Street
Philadelphia, PA 19103

VI. WORK PRACTICE REQUIREMENTS.**# 020 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall operate and maintain this source in a manner consistent with safety and good air pollution practices for minimizing emissions and in accordance with the manufacturer's specifications.

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

(a) The permittee shall perform a tune-up annually on this boiler (Source 038). Each tune-up must be conducted no later than 13 months after the previous tune-up. The tune up will consist of the following:

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

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

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

Compliance with the particulate matter emission limit for this source shall be demonstrated using a Department approved method.

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

This boiler is manufactured by Cleaver Brooks, Model number CB(LE) 200-800-150ST, installed in 1997, and is rated at 33.5 MMBTU/HR. This boiler is equipped with flue gas recirculation and oxygen trim system.

SECTION D. Source Level Requirements

Source ID: 102

Source Name: PROPANE EMER GENERATOR (1)

Source Capacity/Throughput:

N/A

Propane

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

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from this source in excess of 0.04 gr/dscf, pursuant to 25 Pa. Code § 123.13 (c)(1)(i).

002 [25 Pa. Code §123.21]

General

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

Fuel Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall use only propane as fuel for this emergency generator.

Operation Hours Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 63.6640(f)]

The permittee shall limit the operation of this emergency generator for maintenance checks and readiness testing to 100 hours per year on a 12-month rolling basis.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not operate the emergency generator listed for more than 499 hours per year calculated on a 12-month rolling sum.

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.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the hours of operation for this source (Source ID 102) monthly and on a 12-month rolling sum. Records will include:

**SECTION D. Source Level Requirements**

- a. The date of operation;
- b. Reason for operation;
- c. Duration of operation;
- d. Fuel usage;
- e. Operator's initials and and comments.

[Compliance with this condition may serve as proof of compliance with 40 CFR §§ 60.4211(f) and 63.6640(f) except for vacated sections.]

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

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

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

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

If the permittee utilizes the oil analysis program, the permittee must keep records of the parameters that are analyzed as part of the oil analysis program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

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

The permittee shall keep records of the hours of operation for this source monthly and on a 12-month rolling sum. Records will include:

- a. The date of operation;
- b. Reason for operation;
- c. Duration of operation;
- d. Fuel usage;
- e. Operator's initials and and comments.

[Compliance with this condition may serve as proof of compliance with 40 CFR §§ 60.4211(f) and 63.6640(f) except for vacated sections.]

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

a. The permittee shall keep records of any malfunctions for the generators associated with this source. The records shall include the occurrence date, duration and corrective action taken.

b. The permittee shall keep records of all maintenance conducted on the generators associated with this source.

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

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

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

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

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

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

- a. The permittee shall at all times, operate and maintain this source in accordance with the manufacturer's specifications and in a manner consistent with safety and good air pollution control practices.
- b. The permittee may develop their own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engines in a manner consistent with good air pollution control practice for minimizing emissions.

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

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

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

The permittee shall operate and maintain a non-resettable hour meter on the generator associated with Source ID 102.

015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****Am I subject to this subpart?**

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

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

This source consist of one (1) propane-fired emergency generator, manufactured in 1997 and located outside building 300 with a horse-power rating of 280.

**SECTION D. Source Level Requirements**

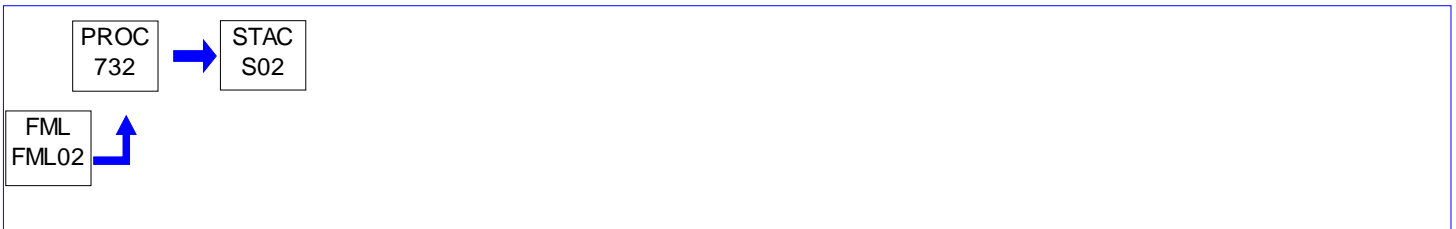
Source ID: 732

Source Name: NON-BLDG 10 (DIESEL) EMER GENERATOR

Source Capacity/Throughput:

N/A

Diesel Fuel

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

001 [25 Pa. Code §123.13]

Processes

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

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from 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.

Fuel Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

Engines that use diesel fuel must use diesel fuel that meets the requirements of 40 C.F.R. § 80.510(b):

- (1). Sulfur Content of the Diesel Fuel less than or equal to 15 ppmw (0.0015% by weight); and
- (2). Cetane Index greater than or equal to 40; or Aromatic Content less than or equal to 35%.

[Compliance with the requirements of the paragraph above also demonstrates compliance with the applicable requirements of 25 Pa. Code § 123.21.]

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall use only diesel fuel as fuel for this emergency generator.

Operation Hours Restriction(s).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not operate the emergency generator listed for more than 499 hours per year calculated on a 12-month rolling sum.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 63.6640(f)]

The permittee shall limit the operation of this emergency generator for maintenance checks and readiness testing to 100 hours per year on a 12-month rolling basis.

**SECTION D. Source Level Requirements****II. TESTING REQUIREMENTS.****# 007 [25 Pa. Code §139.16]****Sulfur in fuel oil.**

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

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

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

(3) Results shall be reported in, pounds of SO₂ per MMBtu, accordance with the units specified in 25 Pa. Code § 123.22.

(b) The testing requirements in subpart (a), above, shall be waived in the event that a delivery receipt from the supplier, showing the percent sulfur in the fuel, is obtained upon initial delivery of fuel oil, and upon subsequent changes of fuel oil type or fuel oil supplier.

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

The permittee shall monitor the hours of operation for this source (Source ID 732) monthly and on a 12-month rolling sum. Records will include:

- a. The date of operation;
- b. Reason for operation;
- c. Duration of operation;
- d. Fuel usage;
- e. Operator's initials and and comments.

[Compliance with this condition may serve as proof of compliance with 40 CFR §§ 60.4211(f) and 63.6640(f) except for vacated sections.

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

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

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

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

a. The permittee shall keep records of any malfunctions for the generators associated with this source. The records shall include the occurrence date, duration and corrective action taken.

b. The permittee shall keep records of all maintenance conducted on the generators associated with this source.

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

**SECTION D. Source Level Requirements**

The permittee shall keep records of the hours of operation for this source monthly and on a 12-month rolling sum. Records will include:

- a. The date of operation;
- b. Reason for operation;
- c. Duration of operation;
- d. Fuel usage;
- e. Operator's initials and and comments.

[Compliance with this condition may serve as proof of compliance with 40 CFR §§ 60.4211(f) and 63.6640(f) except for vacated sections.]

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

- a. The permittee shall at all times, operate and maintain this source in accordance with the manufacturer's specifications and in a manner consistent with safety and good air pollution control practices.
- b. The permittee may develop their own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engines in a manner consistent with good air pollution control practice for minimizing emissions.

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

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

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

The permittee shall operate and maintain a non-resettable hour meter on this generator (Source ID 732).

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

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

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

016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****Am I subject to this subpart?**

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

(b) If the permittee does not operate the engine according to the requirements of 40 C.F.R. Section 63.6640(f), the engine

**SECTION D. Source Level Requirements**

will not be considered an emergency engine under 40 C.F.R. Part 63 Subpart ZZZZ and must meet all requirements for non-emergency engines.

VII. ADDITIONAL REQUIREMENTS.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

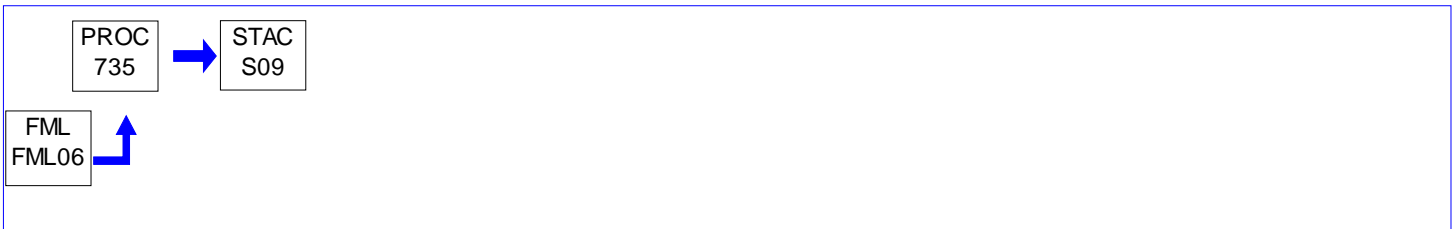
This source consists of one (1) Cummins 355 BHP diesel emergency generator manufactured in 1985 and located in building D.

SECTION D. Source Level Requirements

Source ID: 735

Source Name: 2,000 KW DIESEL EMERGENCY ELECTRIC GENERATOR

Source Capacity/Throughput: 147.300 Gal/HR Diesel Fuel

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

001 [25 Pa. Code §123.13]

Processes

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

002 [25 Pa. Code §123.21]

General

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

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

NO_x: 7.67 tpy calculated on a 12-month rolling sum.

CO: 1.21 tpy calculated on a 12-month rolling sum.

VOC: 0.20 tpy calculated on a 12-month rolling sum.

PM₁₀: 0.16 tpy calculated on a 12-month rolling sum.

SO₂: 0.01 tpy calculated on a 12-month rolling sum.

PM_{2.5}: 0.06 tpy calculated on a 12-month rolling sum.

Formaldehyde: 0.03 tpy calculated on a 12-month rolling sum.

Fuel Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. Part 80 § 80.510(b)]

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

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

(i). A minimum cetane index of 40; or

**SECTION D. Source Level Requirements**

(ii). A maximum aromatic content of 35 volume percent.

(2). Sulfur Content: 15 ppm maximum.

Operation Hours Restriction(s).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit the annual operating hours for readiness testing and maintenance for this generator to less than 100 hours per year, calculated on a 12-month rolling sum.

[Compliance with this condition assures compliance with 40 C.F.R. Part 60 § 60.4211(f)].

Throughput Restriction(s).

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit the fuel usage for this generator to less than 58,920 gallons per year calculated on a 12-month rolling sum.

II. TESTING REQUIREMENTS.

007 [25 Pa. Code §139.16]

Sulfur in fuel oil.

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

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

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

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

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

III. MONITORING REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following for this generator monthly and on a 12-month rolling sum:

- a) Hours of operation for readiness testing and maintenance;
- b) Hours of operation for emergency usage;
- c) Hours of operation for any other usage;
- d) Fuel usage.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor and calculate for this generator the NO_x, CO, VOC, PM₁₀, SO₂, PM_{2.5} and formaldehyde emissions monthly and on a 12-month rolling sum.

**SECTION D. Source Level Requirements****# 010 [25 Pa. Code §129.203]****Stationary internal combustion engines.**

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

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

The permittee shall keep record of the following for this generator monthly and on a 12-month rolling sum:

- a) Hours of operation for readiness testing and maintenance;
- b) Hours of operation for emergency usage;
- c) Hours of operation for any other usage;
- d) Fuel usage.

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

The permittee shall obtain and keep a copy of a dated statement, upon each delivery, from the fuel supplier that states that the diesel fuel complies with the specifications in 40 C.F.R. 80.510(b) for nonroad diesel fuel.

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

The permittee shall keep records of the NOx, CO, VOC, PM10, SO2, PM2.5 and formaldehyde emissions from this generator monthly and on a 12-month rolling sum.

014 [25 Pa. Code §129.203]**Stationary internal combustion engines.**

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

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

[Additional authority for this permit condition is also derived from 40 C.F.R. Part 60 § 60.4206 and 40 C.F.R. Part 60 § 60.4211(a) and (c).]

The permittee shall install, operate and maintain this source according to the manufacturer's written instructions or procedures developed by the permittee that are approved by the engine manufacturer, over the entire life of the engine. In addition, the permittee may only change those settings that are permitted by the manufacturer.

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

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

[Compliance with this condition assures compliance with 40 C.F.R. Part 60 § 60.4209]

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

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

SECTION D. Source Level Requirements

operation:

- NOx: 5.17 g/hp-hr
- CO: 0.60 g/hp-hr
- VOC: 0.10 g/hp-hr
- PM10: 0.06 g/hp-hr

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

- NOx: 0.24 lb/gal
- CO: 0.03 lb/gal
- VOC: 0.005 lb/gal
- PM10: 0.003 lb/gal

(c). The permittee shall use the following emission factor for calculating PM 2.5:

0.0154 lb/mmbtu = 0.311 lb/hr

(d) The permittee shall use the following emission factor for calculating formaldehyde:

0.134 lb/hr

018 [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?

(a) The permittee shall operate the emergency stationary R.I.C.E. according to the requirements in the most recent version of 40 C.F.R. Section 60.4211(f).

(b) If the permittee does not operate the engine according to the requirements of 40 C.F.R. Section 60.4211(f), the engine will not be considered an emergency engine under 40 C.F.R. Part 60 Subpart IIII and must meet all requirements for non-emergency engines.

019 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]

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

Am I subject to this subpart?

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

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

VII. ADDITIONAL REQUIREMENTS.

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source consists of one (1) 2,000 kw diesel fueled emergency electric generator, manufactured by MTU Detroit Diesel, model number 16V4000E43 with an output rating of 3,058 BHP installed in 2010. The generator has a capacity / throughput of 147.3 gallons per hour.

021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source is subject to Subpart IIII of the Standards of Performance for New Stationary Sources and shall comply with applicable requirements of this Subpart. 40 C.F.R. Section 60.4214 requires submission of copies of all requests, reports, applications, submittals, and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

**SECTION D. Source Level Requirements**

U.S. EPA, Region III
 Director, Air Protection Division
 Mail Code 3AP00
 1650 Arch Street
 Philadelphia, PA 19103-2029

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

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

023 [25 Pa. Code §129.203]**Stationary internal combustion engines.**

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

The permittee shall calculate the allowable NOx emissions by multiplying the cumulative hours of operations for the unit for the period by the horsepower rating of the unit and by the applicable emission rate set forth in (1) or (2) below.

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

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

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

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

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

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

(1) The serial number of each NOx allowance surrendered.

(2) The calculations used to determine the quantity of NOx allowances required to be surrendered.

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

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

(1) For purposes of determining the number of days of violation, if a facility has excess emissions for the period May 1

SECTION D. Source Level Requirements

through September 30, each day in that period (153 days) constitutes a day in violation unless the owner or operator of the unit demonstrates that a lesser number of days should be considered.

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

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

(a). The owner or operator shall determine the actual NO_x emissions in accordance with 25 Pa. Code § 129.204(b)(2)(ii), using the manufacturer's emission factor of 5.17 g/hp-hr, or

(b). An alternate calculation and recordkeeping procedure based upon emissions testing and correlations with operating parameters. The operator of the unit shall demonstrate that the alternate procedure does not underestimate actual emissions throughout the allowable range of operating conditions. In regard to obtaining the Department's approval for an alternate calculation method and recordkeeping procedure for actual emissions, the owner or operator may request an adjustment to the allowable emissions calculations set forth in §§ 129.201--129.203. An allowable emission adjustment may not overestimate a unit's allowable emissions and must be based upon the parameters and procedures proposed in the alternate calculation method for actual emissions.

(c). The alternate calculation and recordkeeping procedures must be approved by the Department, in writing, prior to implementation before each ozone season.



SECTION E. Source Group Restrictions.



SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this State Only facility.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Descriptor		
036	BOILER 5		
Emission Limit			
1.000	Lbs/MMBTU		SOX
0.400	Lbs/MMBTU	Particulate Matter	TSP
038	BOILER 7		
Emission Limit			
90.000	PPMV	No. 2 oil, 3% O2, dry	CO
200.000	PPMV	Nat gas, 3% O2, dry	CO
30.000	PPMV	Nat gas, 3% O2, dry	NOX
140.000	PPMV	No. 2 oil, 3% O2, dry	NOX
1.000	Lbs/MMBTU		SOX
1.000	PPMV	Nat gas, 3% O2, dry	SOX
0.025	Lbs/MMBTU	PM, No. 2 oil	TSP
0.100	Lbs/MMBTU	PM, Nat gas	TSP
0.400	Lbs/MMBTU	Particulate Matter	TSP
40.000	PPMV	Nat gas, 3% O2, dry	VOC
60.000	PPMV	No. 2 oil, 3% O2, dry	VOC
102	PROPANE EMER GENERATOR (1)		
Emission Limit			
500.000	PPMV		SOX
0.040	gr/DRY FT3		TSP
732	NON-BLDG 10 (DIESEL) EMER GENERATOR		
Emission Limit			
500.000	PPMV		SOX
0.040	gr/DRY FT3		TSP
735	2,000 KW DIESEL EMERGENCY ELECTRIC GENERATOR		
Emission Limit			
1.210	Tons/Yr	Rolling 12-month sum	CO
0.030	Tons/Yr	Rolling 12-month sum	Formaldehyde
7.670	Tons/Yr	Rolling 12-month sum	NOX
0.020	gr/DRY FT3		PM10
0.160	Tons/Yr	Rolling 12-month sum	PM10_FILT
0.060	Tons/Yr	Rolling 12-month sum	PM2.5_FILT
0.010	Tons/Yr	Rolling 12-month sum	SOX
500.000	PPMV		SOX
0.200	Tons/Yr	Rolling 12-month sum	VOC

Site Emission Restriction Summary

Emission Limit			Pollutant
24.900	Tons/Yr	Combined from the facility	NOX



SECTION G. Emission Restriction Summary.

**SECTION H. Miscellaneous.**

The following previously issued operating permits serve as the basis for certain terms and conditions set forth in this SMOP Permit:

RACT OP-46-0019, as amended,
OP-46-0030A, and
Plan Approval Extension 46-302-213.

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

- 10 miscellaneous #2 fuel oil storage tanks
- Soldering benches and hoods for maintenance and quality assurance/control.
- Miscellaneous wood cutting equipment and dust collector.
- Electric heat shrink wrap machine.
- Graphic arts room, including the off-set printer.

This permit has been amended to address the appeal of the 2-10-2000 Title V Operating Permit.

The following sources have been affected:

- Source 035 - three natural gas-fired boilers removed.
- Source 734 - Miscellaneous Space heaters removed.

There were several changes made to the monitoring and recordkeeping requirements for clarity.

Source 723 - Building 100, 180 kW fuel oil fired emergency generator was removed from service, and the Department was notified on September 17, 2002.

The permittee shall submit a reactivation plan to the Department for approval at least sixty (60) days prior to the proposed date of reactivation. The reactivation plan shall include sufficient measures to ensure that the source will be reactivated in compliance with the permit requirements of Section B (General Conditions), #018. The permittee may submit a reactivation plan to the Department at any time during the term of this operating permit. The reactivation plan may also be submitted to and reviewed by the Department as part of the Plan Approval or permit application or renewal process.

June 2005. APS: 345839, AUTH ID: 575508. The Department renewed the Title V permit for this facility. There was one generator removed from Source 733 (International Harvester 172 hp, ng-fired), and the following sources have been addressed through the Department's RFD process:

- 46-A01-2244, dated 8-12-2004 for a temporary vapor degreaser. This temporary vapor degreaser is subject to the regulations in 25 Pa. Code § 129.63(e)(1) and (e)(5).
- 46-A01-2235, dated 7-2-2004 for a replacement emergency generator.
- 46-A01-2212, dated 4-21-2004 for a temporary portable cooling system.
- 46-A01-2189, dated 12-16-2003 for a refabrication process.

The facility has no sources that are subject to CAM (40 CFR Part 64).

July 2007. Source 732, 132 hp diesel generator (bldg 600) deactivated and removed from the site.

APS: 345839 AUTH: 837170

The Department did not renew the Title V Permit in May of 2010, Lockheed Martin has changed status from a Title V Operating Permit to a Synthetic Minor Operating Permit. The Department has issued the initial Synthetic Minor Operating Permit.

The information in Section A is for informational purposes only.

Source ID 037, Boiler 6, manufactured by Cleaver Brooks, model No. CBW-400-800-15ST rated at 33.5 MMBTU/HR was removed from the permit. This source was deactivated and the Department received the maintenance plan on 2/14/2004. This source was deactivated in accordance with 25 Pa. Code 127.11(a).

The permittee may submit to the Department an updated list with the removal or additions of any VOC sources listed under Source ID 101 (Misc VOC Sources). The Department will keep records of the updates and update the permit at the time of renewal or any action taken that opens the permit.

**SECTION H. Miscellaneous.**

The Department approved monthly monitoring of odors, visible emissions and fugitive particulate matter at the facility in a letter dated February 23, 2005. This condition is in Section C, condition number 011 of this permit.

July 2012

APS: 345839 AUTH: 925999

This permit was amended to incorporate the conditions from Plan Approval 46-0019A. The plan approval incorporated only 1 of the 2,000 kw Diesel Emergency Electric Generators as the 2nd one is not planned to be installed at this time.

The amendment removed three (3) No.2 fuel oil generators from Source ID 732 (Non-Bldg 10 No.2 Fuel oil Generators). The generators are no longer owned and operated by Lockheed Martin Corp.

The amendment removed Condition # 013 from Section C dealing with a facility claiming exemption from the VOC RACT requirements of 25 Pa. Code 129.91-129.94...The facility is not subject to RACT for VOC's and the VOC emissions are de minimus.

Finally, the amendment removed Source ID 101 (Misc VOC Sources) from Section D and listed the components of that source in Section G as the facility is not subject to RACT for VOC's and the emissions are de minimus.

The Department has determined that the emissions from the following VOC emitting sources do not require any additional monitoring or recordkeeping:

- Electronics shop
- Reentry final assembly and test
- Reentry systems advanced electronics development
- Material acceptance lab
- Radiation effects lab
- Dynamics simulation lab
- RESD mechanical lab
- Multi-functional manufacturing lab
- Highbay
- Component test
- Warehouse

APS: 345839 AUTH: 1061364

The information in Section A is for informational purposes only.

Lockheed installed economizers on existing boilers (Source ID 036 and 038) to recover heat from the boiler flue gas and preheat feedwater to the boilers. Approved under RFD # 2598 on 12/6/2011.

Lockheed switched cleaning solvents in existing small vapor degreaser. New solvents were exempt as they contain less than 5% VOC by weight. Approved under RFD # 2678 and 2833 on 2/10/2012 and 3/26/2012.

Lockheed installed a Paasche 6 bench top exhaust hood to capture and exhaust isopropyl alcohol (IPA) from the work area. Approved under RFD # 2915 on 5/8/2012.

Lockheed had an approved RFD (#4322) approved on 5/27/2014 to install an electric powered sub-slab depressurization system (SSDS) at building 600, to pull VOC vapors from below the concrete building slab. The VOC vapors would be treated with an Evoqua VSC400 canister filled with VC48C granular activated carbon. This equipment was not installed and Lockheed currently has no plans to install the equipment/system.

Source ID 102 (Propane ER GEN), Source ID 731 (Bldg 10 ER GEN) and Source ID 732 (Non bldg. 10 ER GEN) are subject to the requirements under 40 C.F.R. 63 Subpart ZZZZ. All applicable requirements have been added to the three sources listed above in the permit.

Source ID 036 (Boiler 5) and Source ID 038 (Boiler 7) are subject to the requirements under 40 C.F.R. 63 Subpart JJJJJJ. All applicable requirements have been added to the two boilers listed above in the permit.

Source ID 735 (2000 KW ER GEN) is subject to the requirements under 40 C.F.R. 60 Subpart IIII. All applicable requirements have been added to the emergency generator listed above in the permit.

**SECTION H. Miscellaneous.**

APS: 345829 AUTH: 1309197: SMOP renewal submitted 3/2020

Source 731 (Bldg 10- 2 Emergency Generators) removed due to sale of building containing source. Source 732 name amended from No.2 fuel oil to diesel due to conversion to diesel as fuel source and associated fuel tank replaced. Removal of electric heat shrink wrap machine and Graphic Arts Room M6427 with offset printer due to items being removed from facility. Change in Sources 036 and 036 - Cleaver Brooks 33.5 MMBtu Boilers- to gas fired as defined 40 CFR §63.11237. Boilers will only operate on No. 2 fuel oil during times of natural gas curtailment or for up to 48 hr/yr for testing, maintenance and training. insignificant VOC source list as follows:

- M8420- Electronics Shop
- M6454- Reentry Final Assembly and Test
- M6626- Reentry Systems Advanced Electronics Development
- M8821- Materials Acceptance Lab
- M8820- Radiation Effects Lab
- M8410- Dynamics Simulation Lab
- M6407- RESD Mechanical Lab
- M6810- Highbay
- M8515- Component Test
- M8419- LMSSC Re-Entry Systems AFA & Electrical Support Equipment
- Multi-functional Manufacturing Lab
- Warehouse



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