



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

STATE ONLY NATURAL MINOR OPERATING PERMIT

Issue Date: July 18, 2024

Effective Date: August 14, 2024

Expiration Date: August 13, 2029

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

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

State Only Permit No: 15-00112

Natural Minor

Federal Tax Id - Plant Code: 76-0509980

Owner Information

Name: HUSPP DEVON LLC

Mailing Address: 555 13TH ST NW
SUITE 400 WEST
WASHINGTON, DC 20004-1109

Plant Information

Plant: HUSPP DEVON/CHARLES RIVER LAB/TREDYFFRIN TWP

Location: 15 Chester County 15952 Tredyffrin Township

SIC Code: 8731 Services - Commercial Physical Research

Responsible Official

Name: MARK SMITH

Title: VP PROPERTY MGMT

Phone: (202) 942 - 7888

Email: Mark.A.Smith@hines.com

Permit Contact Person

Name: BRIAN GRANT

Title: ASSOC DIR FACILITIES

Phone: (484) 319 - 7426

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[Signature] _____

JAMES D. REBARCHAK, SOUTHEAST REGION AIR PROGRAM MANAGER



SECTION A. Table of Contents

Section A. Facility/Source Identification

Table of Contents
Site Inventory List

Section B. General State Only Requirements

- #001 Definitions.
- #002 Operating Permit Duration.
- #003 Permit Renewal.
- #004 Operating Permit Fees under Subchapter I.
- #005 Transfer of Operating Permits.
- #006 Inspection and Entry.
- #007 Compliance Requirements.
- #008 Need to Halt or Reduce Activity Not a Defense.
- #009 Duty to Provide Information.
- #010 Revising an Operating Permit for Cause.
- #011 Operating Permit Modifications
- #012 Severability Clause.
- #013 De Minimis Emission Increases.
- #014 Operational Flexibility.
- #015 Reactivation of Sources
- #016 Health Risk-based Emission Standards and Operating Practice Requirements.
- #017 Circumvention.
- #018 Reporting Requirements.
- #019 Sampling, Testing and Monitoring Procedures.
- #020 Recordkeeping.
- #021 Property Rights.
- #022 Alternative Operating Scenarios.
- #023 Reporting
- #024 Report Format

Section C. Site Level State Only Requirements

- C-I: Restrictions
- C-II: Testing Requirements
- C-III: Monitoring Requirements
- C-IV: Recordkeeping Requirements
- C-V: Reporting Requirements
- C-VI: Work Practice Standards
- C-VII: Additional Requirements
- C-VIII: Compliance Certification
- C-IX: Compliance Schedule

Section D. Source Level State Only Requirements

- D-I: Restrictions
- D-II: Testing Requirements
- D-III: Monitoring Requirements
- D-IV: Recordkeeping Requirements
- D-V: Reporting Requirements
- D-VI: Work Practice Standards
- D-VII: Additional Requirements

Note: These same sub-sections are repeated for each source!

Section E. Source Group Restrictions

- E-I: Restrictions



SECTION A. Table of Contents

- E-II: Testing Requirements
- E-III: Monitoring Requirements
- E-IV: Recordkeeping Requirements
- E-V: Reporting Requirements
- E-VI: Work Practice Standards
- E-VII: Additional Requirements

Section F. Alternative Operating Scenario(s)

- F-I: Restrictions
- F-II: Testing Requirements
- F-III: Monitoring Requirements
- F-IV: Recordkeeping Requirements
- F-V: Reporting Requirements
- F-VI: Work Practice Standards
- F-VII: Additional Requirements

Section G. Emission Restriction Summary

Section H. Miscellaneous

**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
031	NATURAL GAS-FIRED BOILERS (2)	16.800 MMBTU/HR	
		16.800 MCF/HR	Natural Gas
101	DIESEL-FIRED EMERGENCY GENERATOR	21.200 Gal/HR	Diesel Fuel
103	MTU EMERGENCY DIESEL GENERATOR	71.000 Gal/HR	Diesel Fuel
104	BLUE STAR EMERG. DIESEL GEN.	9.919 MMBTU/HR	
		72.400 Gal/HR	Diesel Fuel
200	SOLVENT USAGE	N/A	SOLVENT
FML02	NATURAL GAS PIPELINE		
FML03	DIESEL FUEL		
S02	BOILER STACK		
S101	GENERATOR STACK		
S103	MTU EMER DIESEL GENERATOR STACK		
S104	BLUE STAR EMERG GEN STACK		
Z200	SOLVENT USAGE - FUGITIVE EMISSIONS		

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 § 127.11a]**Reactivation of Sources**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

002 [25 Pa. Code §123.31]**Limitations**

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

003 [25 Pa. Code §123.41]**Limitations**

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

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

004 [25 Pa. Code §123.42]**Exceptions**

The limitations of Condition #003, of this Section, shall not apply to a visible emission when the presence of uncombined water is the only reason for failure to meet the limitations.

005 [25 Pa. Code §129.14]**Open burning operations**

The permittee may not permit the open burning of material in the Southeast Air Basin, except when the open burning results from:

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

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

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

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

**SECTION C. Site Level Requirements****III. MONITORING REQUIREMENTS.****# 007 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

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

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

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

- (1) Odors which may be objectionable (as per 25 Pa. Code §123.31).
- (2) Visible Emissions (as per 25 Pa. Code §§123.41 and 123.42).

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

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

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

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

V. REPORTING REQUIREMENTS.**# 010 [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 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:

**SECTION C. Site Level Requirements**

- (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.

011 [25 Pa. Code §135.3]**Reporting**

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

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

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

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

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

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

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

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

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

**SECTION C. Site Level Requirements****VII. ADDITIONAL REQUIREMENTS.**

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

VIII. COMPLIANCE CERTIFICATION.

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

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

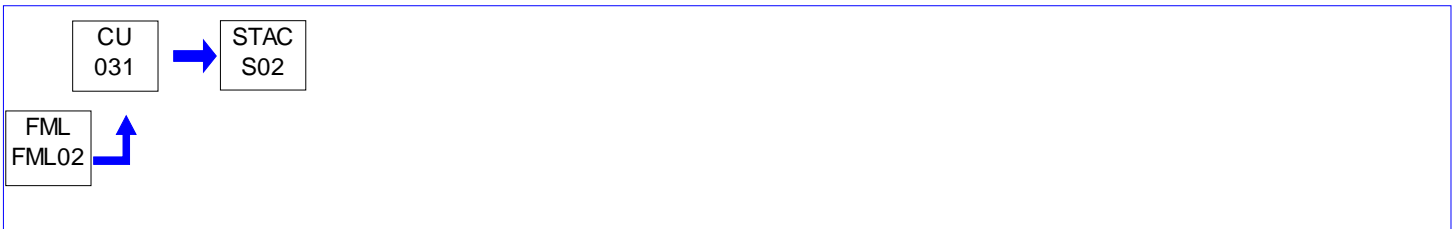
**SECTION D. Source Level Requirements**

Source ID: 031

Source Name: NATURAL GAS-FIRED BOILERS (2)

Source Capacity/Throughput: 16.800 MMBTU/HR

16.800 MCF/HR Natural Gas

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

Combustion units rated greater than 2.5 MMBtu/hr, but less than 50 MMBtu/hr, shall not result in emissions of PM in excess of 0.4 lbs/MMBtu.

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

Emissions from each of these boilers shall not exceed any of the following:

- (a) PM - 0.23 lbs/hr and 1.01 tons/12 consecutive month period.
- (b) SO₂ - 0.01 lb/hr and 0.04 tons/12 consecutive month period.
- (c) NO_x - 30 ppmvd at 3% oxygen (or 0.035 lb/MMBtu), 0.61 lb/hr and 2.66 tons/12 consecutive month period.
- (d) CO - 1.02 lb/hr and 4.47 tons/12 consecutive month period.
- (e) VOC - 0.05 lb/hr and 0.21 tons/12 consecutive month period.

[Compliance with (a) and (b), above, assures compliance with 25 Pa. Code §§ 123.11(a)(1) and 123.22(e)(1), respectively.]

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

The permittee shall use only natural gas as fuel for each of these two boilers.

II. TESTING REQUIREMENTS.

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

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

Fuel usage shall be continuously monitored.

[Compliance with this streamlined permit condition assures compliance with 40 CFR 60, Subpart Dc.]

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

Fuel usage shall be manually recorded on a monthly basis.

**SECTION D. Source Level Requirements**

[Compliance with this streamlined permit condition assures compliance with 40 CFR 60, Subpart Dc.]

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall calculate and record emissions of PM, SO₂, NO_x, CO, and VOC on a monthly basis and as a 12-month rolling sum.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

007 [25 Pa. Code §127.411]

Content of applications.

This source consists of two (2) identical natural gas-fired 16.8 MMBtu/hr Cleaver Brooks package boilers, model number CB (LE)-400.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each of these boilers shall be operated using low NO_x burners and FGR.

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION D. Source Level Requirements**

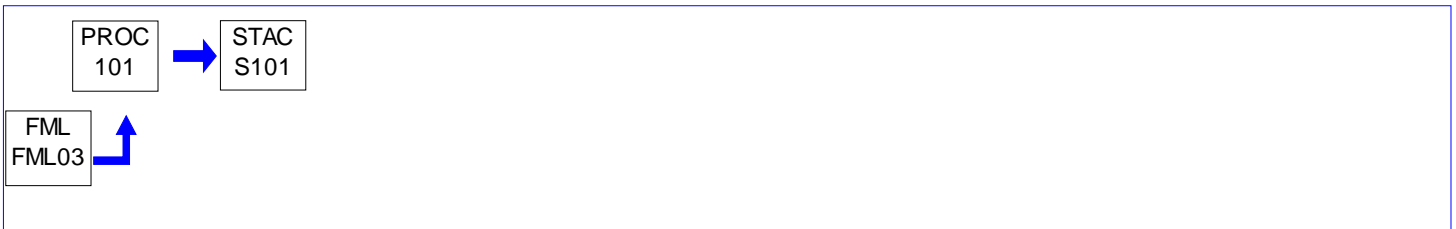
Source ID: 101

Source Name: DIESEL-FIRED EMERGENCY GENERATOR

Source Capacity/Throughput:

21.200 Gal/HR

Diesel Fuel

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

Emissions from this emergency generator shall not exceed any of the following:

- (a) NO_x - 10.14 lbs/hr and 2.54 tons in any 12 consecutive month period.
- (b) CO - 5.29 lbs/hr and 1.32 tons in any 12 consecutive month period.
- (c) VOC - 0.09 lbs/hr and 0.02 tons in any 12 consecutive month period.

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

Only No. 2 fuel oil fuel with a sulfur content, of less than 0.3%, by weight, shall be burned in this emergency generator. No reclaimed, waste oil, or other waste material shall be added to this fuel oil.

[Compliance with this streamlined permit condition assures compliance with 25 Pa. Code § 123.21, and previous permit 15-302-084, Condition 4.B.3.]

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

Beginning January 1, 2015, if this source operates or is contractually obligated to be available for more than 15 hours per calendar year for emergency demand response [as described under 40 CFR § 63.6640(f)(2)(ii)] or periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency, or this source is used to supply power as part of a financial arrangement with another entity (as approved herein this operating permit), the permittee must use diesel fuel that meets the following specifications, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted:

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

[Compliance with this streamlined permit condition assures compliance with 25 Pa. Code § 123.21, and previous permit 15-302-084, Condition 4.B.3.]

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

The hours of operation for this emergency generator shall not exceed 500 in any 12 consecutive month period.

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

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

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?**

The permittee shall operate this source according to the requirements in paragraphs (a) through (c) of this condition. In order for the engine to be considered an emergency stationary RICE under 40 CFR Part 63, Subpart ZZZZ, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (a) through (c) of this condition, is prohibited.

(a) There is no time limit on the use of source in emergency situations, for the purposes of enforcement of 40 CFR Part 63, Subpart ZZZZ.

(b) The permittee may operate this source for any combination of the purposes specified in paragraphs (b)(1) through (3) of this condition for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs (c) of this condition counts as part of the 100 hours per calendar year allowed by this paragraph (b).

(1) This source may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the EPA for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of this source beyond 100 hours per calendar year.

(2) This source may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see 40 CFR § 63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.

(3) This source may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

(c) This source may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (b) of this section. Except as provided in paragraphs (c)(1) and (2) of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(1) Prior to May 3, 2014, the 50 hours per year for non-emergency situations can be used for peak shaving or non-emergency demand response to generate income for a facility, or to otherwise supply power as part of a financial arrangement with another entity if the engine is operated as part of a peak shaving (load management program) with the local distribution system operator and the power is provided only to the facility itself or to

**SECTION D. Source Level Requirements**

support the local distribution system.

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

- (i) The engine is dispatched by the local balancing authority or local transmission and distribution system operator.
- (ii) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
- (iii) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.
- (iv) The power is provided only to the facility itself or to support the local transmission and distribution system.
- (v) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

Throughput Restriction(s).

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The amount of No. 2 fuel oil supplied to the generator shall not exceed 10,600 gallons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall monitor the following on a monthly basis and on a 12-month rolling basis:

- (1) Fuel usage.
- (2) Hours of operation.

(b) The permittee shall, upon Department request, provide fuel analyses, or fuel samples, of the fuel used in this diesel generator set in accordance with 25 Pa. Code, Chapter 139. Fuel delivery receipts shall be maintained to track fuel usage.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR § 63.6625]

An elapsed non-resettable time meter shall be maintained on the generator to indicate cumulative time operated.

IV. RECORDKEEPING REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The run time shall be tracked on a monthly basis, using a Department approved method, and a new 12 consecutive month total calculated each month.

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

The permittee shall record the amount of No. 2 fuel oil used by this generator each month and calculate the 12-consecutive month total.

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

The permittee shall calculate and record emissions of NO_x, CO, and VOC on a monthly basis and as a 12-month rolling sum.

013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What records must I keep?**

(a) The permittee must keep the following records:

- (1) A copy of each report that is submitted to comply with 40 CFR Part 63, Subpart ZZZZ.
- (2) Records of the occurrence and duration of each malfunction of operation (i.e., oil changes, etc.).
- (3) Records of actions taken during periods of malfunction to minimize emissions, including corrective actions to restore malfunctioning process to its normal or usual manner of operation.

(b) The permittee must keep records of the manufacturer's emission-related operation and maintenance instructions or the permittee's own maintenance plan, which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

(c) If the permittee operates and maintains this source per the permittee's own maintenance plan, the permittee must keep records of the maintenance conducted on this source.

(d) The permittee must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for emergency demand response [as described under 40 CFR § 63.6640(f)(2)(ii)] or periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency, or this source is used to supply power as part of a financial arrangement with another entity (as approved herein this operating permit), the permittee must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes.

014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6660]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****In what form and how long must I keep my records?**

[Additional authority for this permit condition is also derived from 40 CFR § 63.10(b)(1)]

(a) The permittee must maintain records be in a form suitable and readily available for expeditious review.

(b) The permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) The permittee must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record.

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.****# 015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6650]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What reports must I submit and when?**

If this source operates or is contractually obligated to be available for more than 15 hours per year for emergency demand response [as described under 40 CFR § 63.6640(f)(2)(ii)] or periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency, or this source is used to supply power as part of a financial arrangement with another entity (as approved herein this operating permit), the permittee must submit annual reports, as follows:

(a) The report must contain the following information:

- (1) Company name and address where the engine is located.
- (2) Date of the report and beginning and ending dates of the reporting period.
- (3) Engine site rating and model year.
- (4) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.
- (5) Hours operated for emergency demand response or voltage/frequency deviations, including the date, start time, and end time for engine operation for those purposes.
- (6) Number of hours the engine is contractually obligated to be available for emergency demand response or voltage/frequency deviations.
- (7) Hours spent for operation for the purpose of supplying power as part of a financial arrangement with another entity, including the date, start time, and end time for engine operation for this purpose. The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.
- (8) If there were no deviations from the fuel requirements in 40 CFR § 63.6604 (as reflected herein this operating permit) that apply to the engine, a statement that there were no deviations from the fuel requirements during the reporting period.
- (9) If there were deviations from the fuel requirements in 40 CFR § 63.6604 (as reflected herein this operating permit) that apply to the engine, information on the number, duration, and cause of deviations, and the corrective action taken.

(b) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.

(c) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in 40 CFR § 63.13.

VI. WORK PRACTICE REQUIREMENTS.**# 016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6605]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my general requirements for complying with this subpart?**

At all times the permittee must operate and maintain this source in a manner consistent with safety and good air pollution control practices for minimizing emissions.

**SECTION D. Source Level Requirements****# 017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

The permittee must operate and maintain this source according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

018 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?**

[Additional authority for this permit condition is also derived from 40 CFR § 63.6625]

(a) The following requirements apply to this source:

- (1) The permittee shall change the oil and filter in each unit every 500 hours of operation or annually, whichever comes first;
- (2) The permittee shall inspect the air cleaner in each unit every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and,
- (3) The permittee shall inspect all hoses and belts in each unit every 500 hours of operation or annually, whichever comes first, and replace as necessary.

(b) The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirements in paragraph (a) above. The oil analysis must be performed at the same frequency specified for changing the oil. The analysis program must at a minimum analyze the following, such that the oil meets the following parameters:

- (1) Total Base Number, such that it is greater than or equal to 30% of the Total Base Number of the oil when new;
- (2) Viscosity, such that it has not changed more than 20% from the viscosity of the oil when new; and,
- (3) Percent water content (by volume), such that it is not greater than 0.5.

(c) If the permittee complies with all applicable parameters in paragraph (b) above, the permittee is not required to change the oil. If any of the parameters are exceeded, the permittee must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the permittee must change the oil within 2 business days or before commencing operation, whichever is later.

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

(a) This source is a 250 KW diesel-fired emergency generator manufactured by Detroit Diesel, Model No. 8063-7405, with a rated engine capacity of 2.97 MMBtu/hr (approximately 424 hp).

(b) This source was approved under Plan Approval No. PA-15-0112.

**SECTION D. Source Level Requirements**

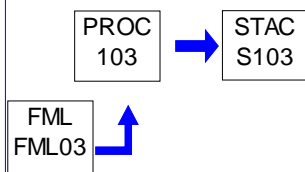
Source ID: 103

Source Name: MTU EMERGENCY DIESEL GENERATOR

Source Capacity/Throughput:

71.000 Gal/HR

Diesel Fuel

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

(a) 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).

(b) The above requirement only applies to filterable PM.

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.**

Combined NO_x emissions from Source IDs 103 and 104 shall not exceed any of the following:

- (a) 100 lbs/hr;
- (b) 1,000 lbs/day;
- (c) 2.75 tons per ozone season; and
- (d) 6.6 tons in any 12 consecutive month period.

004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4205]**Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal co**

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

The MTU emergency diesel generator shall be certified to meet the following emission rates:

- | | |
|--|--------------|
| (a) Non-methane Hydrocarbons (NMHC) + Nitrogen Oxides (NO _x) - | 6.4 g/kW-hr |
| (b) Carbon Monoxide (CO) - | 3.5 g/kW-hr |
| (c) Particulate Matter (PM) - | 0.20 g/kW-hr |

Fuel Restriction(s).**# 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4207]****Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject to**

The permittee shall only use diesel fuel in the MTU emergency diesel generator that meets the following parameters:

- (a) Sulfur content. 15 ppm maximum.
- (b) Cetane index or aromatic content, as follows:

**SECTION D. Source Level Requirements**

- (1) A minimum cetane index of 40; or
- (2) A maximum aromatic content of 35 volume percent

Operation Hours Restriction(s).**# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Hours of operation of this source shall be restricted to 435 hours per 12-month rolling period.

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

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

- (1) Install, configure, operate, and maintain the MTU emergency diesel generator according to the manufacturer's emission-related written instructions;
- (2) Change only those emission-related settings that are permitted by the manufacturer; and

(b) In order for the MTU emergency diesel generator to be considered an emergency stationary ICE under 40 CFR Part 60, Subpart III, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (b)(1) and (b)(2) of this condition, is prohibited.

(1) The permittee may operate the MTU emergency diesel generator for any combination of the purposes specified in paragraphs (b)(1)(i) through (iii) of this condition for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (b)(2) of this condition counts as part of the 100 hours per calendar year allowed by this paragraph (b)(1).

(i) The MTU emergency diesel generator may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the DEP for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of the MTU emergency diesel generator beyond 100 hours per calendar year.

(ii) The MTU emergency diesel generator may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see 40 CFR § 60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.

(iii) The MTU emergency diesel generator may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

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

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

**SECTION D. Source Level Requirements**

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

- (A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator;
- (B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
- (C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.
- (D) The power is provided only to the facility itself or to support the local transmission and distribution system.
- (E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

(c) If the permittee does not install, configure, operate, and maintain the MTU emergency diesel generator according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the must demonstrate compliance as follows:

- (1) The permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.
- (2) The permittee must conduct performance test as described under Testing Requirements.

II. TESTING REQUIREMENTS.

**# 008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4205]
Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal combustion engine?**

[Additional authority for this permit condition is also derived from 40 CFR § 60.4212]

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

**# 009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]
Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?**

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

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

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

[Additional authority for this permit condition is also derived from 40 CFR § 60.4214]

The MTU emergency diesel generator shall be equipped with a non-resettable hour meter to monitor hours of operation.

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

[Additional authority for this permit condition is also derived from 40 CFR § 60.4211]

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

(a) Keep a maintenance plan and records of conducted maintenance.

(b) Maintain records and reports of performance testing conducted on the MTU emergency diesel generator, as would be required per 40 CFR § 60.4211.

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

[Additional authority for this permit condition is also derived from 40 CFR § 60.4214]

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

(b) Hours of operation shall be summarized on a monthly basis and as a 12-month rolling sum.

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

(a) The permittee shall maintain all necessary documents and data to demonstrate compliance with all applicable emission limits identified herein this operating permit.

(b) The permittee shall maintain all necessary documents and data to demonstrate compliance with the requirements of 25 Pa. Code §129.203 [refer to Additional Requirements]

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

[Additional authority for this permit condition is also derived from 40 CFR § 60.4211]

The permittee shall maintain the necessary documents to demonstrate that the MTU emergency diesel generator was purchased as a certified engine meeting Tier 2 emission standards.

V. REPORTING REQUIREMENTS.**# 015 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4214]****Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?**

If the permittee operates or is contractually obligated to be available for more than 15 hours per calendar year for emergency demand response [as described under 40 CFR § 60.4211(f)(2)(ii)] or periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency, or the MTU emergency diesel generator is used to

**SECTION D. Source Level Requirements**

supply power as part of a financial arrangement with another entity (as approved herein this operating permit), the permittee must submit an annual report according to the following conditions:

(a) The report must contain the following information:

- (1) Company name and address where the engine is located.
- (2) Date of the report and beginning and ending dates of the reporting period.
- (3) Engine site rating and model year.
- (4) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.
- (5) Hours operated for emergency demand response or periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency, including the date, start time, and end time for engine operation for those purposes.
- (6) Number of hours the engine is contractually obligated to be available for emergency demand response or periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
- (7) Hours spent for operation where the MTU emergency diesel generator is used to supply power as part of a financial arrangement with another, including the date, start time, and end time for engine operation for that purpose. The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.

(b) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.

(c) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the DEP and EPA at the appropriate address listed in 40 CFR § 60.4.

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source is a 1,000 kW diesel-fired emergency generator manufactured by MTU Onsite Energy, Model #1000RXC6DT2, with a rated engine capacity of 1495 hp.

017 [25 Pa. Code §129.203]

Stationary internal combustion engines.

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

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

**SECTION D. Source Level Requirements****# 018 [25 Pa. Code §129.204]****Emission accountability.**

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

- (a) The 1-year average emission rate calculated from the most recent permit emission limit compliance demonstration test data for nitrogen oxides, or;
- (b) The maximum hourly allowable nitrogen oxide emission rate contained in the permit or the higher of the following:
 - (1) The highest rate determined by use of the emission factor for the unit class contained in the most up-to-date version of the EPA publication "AP-42 Compilation of Air Pollution Emission Factors."
 - (2) The highest rate determined by use of the emission factor for the unit class contained in the most up-to-date version of EPA's "Factor Information Retrieval (FIRE)" data system.
- (c) An alternate calculation and recordkeeping procedure based upon emissions testing and correlations with operating parameters. The permittee shall demonstrate that the alternate procedure does not underestimate actual emission throughout the allowable range of operating conditions. The alternate calculation and recordkeeping procedures must be approved by the Department, in writing, prior to implementation.

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

- (a) The owner or operator of the source shall surrender to the Department on nitrogen oxide allowance, as defined in 25 Pa. Code § 145.2 (related to definitions), for each ton of nitrogen oxides by which the combined actual emissions exceed the allowable emissions of this source from May 1 to September 30. The surrendered nitrogen oxide allowances shall be of the 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 0.5 tons is deemed to equal 1 ton and any fraction of a ton less than 0.50 tons is deemed to equal zero tons.
- (b) If the combined allowable emissions from units subject to 25 Pa. Code § 129.204 at this facility from May 1 through September 30 exceed the combined actual emissions from units subject to 25 Pa. Code § 129.204 at the facility during this same period, the owner or operator may deduct the difference or any portion of the difference from the amount of actual emission from units subject to 25 Pa. Code § 129.204 at the owner or operator's other facilities.
- (c) By November 1 of each year, an owner or operator of a unit subject to 25 Pa. Code § 129.204 shall surrender the required nitrogen oxide allowances to the Department's designated nitrogen oxide allowance tracking system account and provide to the Department, in writing, the following:
 - (1) The serial number of each nitrogen oxide allowance surrendered.
 - (2) The calculations used to determine the quantity of nitrogen oxide allowances required to be surrendered.
- (d) If an owner or operator fails to comply with paragraph (c) above, the owner or operator shall by December 31 surrender three nitrogen oxide allowances of the current or later year vintage for each nitrogen oxide allowance that was required to be surrendered by November 1 of that year.
- (e) The surrender of nitrogen oxide allowances in paragraph (d) above does not affect the liability of the owner or operator of the unit for any fine, penalty or assessment, or an obligation to comply with any other remedy for the same violation, under the Clean Air Act or the Air Pollution Control Act.
 - (1) For the purposes of determining the number of days of violation, if a facility has excess emission for the period May 1 through September 30, each day in that period (153 days) constitutes a day in violation unless the owner or operator of the unit demonstrates that a lesser number of days should be considered.

**SECTION D. Source Level Requirements**

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

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

**SECTION D. Source Level Requirements**

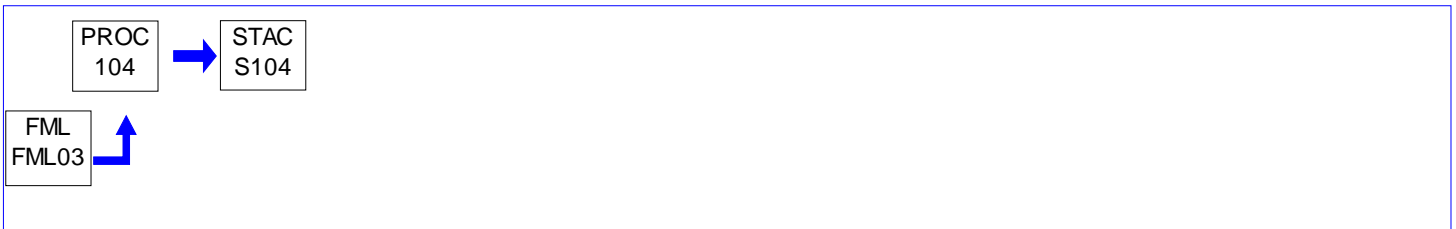
Source ID: 104

Source Name: BLUE STAR EMERG. DIESEL GEN.

Source Capacity/Throughput: 9.919 MMBTU/HR

72.400 Gal/HR

Diesel Fuel

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

(a) 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).

(b) The above requirement only applies to filterable PM.

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.**

Combined NO_x emissions from Source IDs 103 and 104 shall not exceed any of the following:

- (a) 100 lbs/hr;
- (b) 1,000 lbs/day;
- (c) 2.75 tons per ozone season; and
- (d) 6.6 tons in any 12 consecutive month period.

004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4205]**Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal co**

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

The Blue Star emergency diesel generator shall be certified to meet the following emission rates:

- | | |
|--|--------------|
| (a) Non-methane Hydrocarbons (NMHC) + Nitrogen Oxides (NO _x) - | 6.4 g/kW-hr |
| (b) Carbon Monoxide (CO) - | 3.5 g/kW-hr |
| (c) Particulate Matter (PM) - | 0.20 g/kW-hr |

Fuel Restriction(s).**# 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4207]****Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject to**

The permittee shall only use diesel fuel in the Blue Star emergency diesel generator that meets the following parameters:

- (a) Sulfur content. 15 ppm maximum.
- (b) Cetane index or aromatic content, as follows:

**SECTION D. Source Level Requirements**

- (1) A minimum cetane index of 40; or
- (2) A maximum aromatic content of 35 volume percent

Operation Hours Restriction(s).**# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Hours of operation of this source shall be restricted to 435 hours per 12-month rolling period.

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

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

- (1) Install, configure, operate, and maintain the Blue Star emergency diesel generator according to the manufacturer's emission-related written instructions;
- (2) Change only those emission-related settings that are permitted by the manufacturer; and

(b) In order for the Blue Star emergency diesel generator to be considered an emergency stationary ICE under 40 CFR Part 60, Subpart III, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (b)(1) and (b)(2) of this condition, is prohibited.

(1) The permittee may operate the Blue Star emergency diesel generator for any combination of the purposes specified in paragraphs (b)(1)(i) through (iii) of this condition for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (b)(2) of this condition counts as part of the 100 hours per calendar year allowed by this paragraph (b)(1).

(i) The Blue Star emergency diesel generator may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the DEP for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of the Blue Star emergency diesel generator beyond 100 hours per calendar year.

(ii) The Blue Star emergency diesel generator may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see 40 CFR § 60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.

(iii) The Blue Star emergency diesel generator may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

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

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

**SECTION D. Source Level Requirements**

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

- (A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator;
- (B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
- (C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.
- (D) The power is provided only to the facility itself or to support the local transmission and distribution system.
- (E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

(c) If the permittee does not install, configure, operate, and maintain the Blue Star emergency diesel generator according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the must demonstrate compliance as follows:

- (1) The permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.
- (2) The permittee must conduct performance test as described under Testing Requirements.

II. TESTING REQUIREMENTS.

**# 008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4205]
Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal combustion engine?**

[Additional authority for this permit condition is also derived from 40 CFR § 60.4212]

If performance testing is conducted on the Blue Star emergency diesel generator, performance testing shall be conducted in accordance with 40 CFR § 60.4212, and the permittee shall meet the not-to-exceed (NTE) standards as indicated in § 60.4212.

**# 009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]
Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?**

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

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

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

[Additional authority for this permit condition is also derived from 40 CFR § 60.4214]

The Blue Star emergency diesel generator shall be equipped with a non-resettable hour meter to monitor hours of operation.

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

[Additional authority for this permit condition is also derived from 40 CFR § 60.4211]

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

- (a) Keep a maintenance plan and records of conducted maintenance.
- (b) Maintain records and reports of performance testing conducted on the Blue Star emergency diesel generator, as would be required per 40 CFR § 60.4211.

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

[Additional authority for this permit condition is also derived from 40 CFR § 60.4214]

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

(b) Hours of operation shall be summarized on a monthly basis and as a 12-month rolling sum.

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

(a) The permittee shall maintain all necessary documents and data to demonstrate compliance with all applicable emission limits identified herein this operating permit.

(b) The permittee shall maintain all necessary documents and data to demonstrate compliance with the requirements of 25 Pa. Code §129.203 [refer to Additional Requirements]

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

[Additional authority for this permit condition is also derived from 40 CFR § 60.4211]

The permittee shall maintain the necessary documents to demonstrate that the Blue Star emergency diesel generator was purchased as a certified engine meeting Tier 2 emission standards.

V. REPORTING REQUIREMENTS.**# 015 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4214]****Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?**

If the permittee operates or is contractually obligated to be available for more than 15 hours per calendar year for emergency demand response [as described under 40 CFR § 60.4211(f)(2)(ii)] or periods where there is a deviation of voltage or

**SECTION D. Source Level Requirements**

frequency of 5 percent or greater below standard voltage or frequency, or the Blue Star emergency diesel generator is used to supply power as part of a financial arrangement with another entity (as approved herein this operating permit), the permittee must submit an annual report according to the following conditions:

(a) The report must contain the following information:

- (1) Company name and address where the engine is located.
- (2) Date of the report and beginning and ending dates of the reporting period.
- (3) Engine site rating and model year.
- (4) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.
- (5) Hours operated for emergency demand response or periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency, including the date, start time, and end time for engine operation for those purposes.
- (6) Number of hours the engine is contractually obligated to be available for emergency demand response or periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
- (7) Hours spent for operation where the Blue Star emergency diesel generator is used to supply power as part of a financial arrangement with another, including the date, start time, and end time for engine operation for that purpose. The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.

(b) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.

(c) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the DEP and EPA at the appropriate address listed in 40 CFR § 60.4.

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source is a 1,000 kW diesel-fired emergency generator manufactured by Blue Star Power Systems, with a Mitsubishi engine, Model No. S12H-Y2PTAW-1, with a rated engine capacity of 1,528 hp.

017 [25 Pa. Code §129.203]

Stationary internal combustion engines.

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

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

**SECTION D. Source Level Requirements****# 018 [25 Pa. Code §129.204]****Emission accountability.**

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

- (a) The 1-year average emission rate calculated from the most recent permit emission limit compliance demonstration test data for nitrogen oxides, or;
- (b) The maximum hourly allowable nitrogen oxide emission rate contained in the permit or the higher of the following:
 - (1) The highest rate determined by use of the emission factor for the unit class contained in the most up-to-date version of the EPA publication "AP-42 Compilation of Air Pollution Emission Factors."
 - (2) The highest rate determined by use of the emission factor for the unit class contained in the most up-to-date version of EPA's "Factor Information Retrieval (FIRE)" data system.
- (c) An alternate calculation and recordkeeping procedure based upon emissions testing and correlations with operating parameters. The permittee shall demonstrate that the alternate procedure does not underestimate actual emission throughout the allowable range of operating conditions. The alternate calculation and recordkeeping procedures must be approved by the Department, in writing, prior to implementation.

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

- (a) The owner or operator of the source shall surrender to the Department on nitrogen oxide allowance, as defined in 25 Pa. Code § 145.2 (related to definitions), for each ton of nitrogen oxides by which the combined actual emissions exceed the allowable emissions of this source from May 1 to September 30. The surrendered nitrogen oxide allowances shall be of the 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 0.5 tons is deemed to equal 1 ton and any fraction of a ton less than 0.50 tons is deemed to equal zero tons.
- (b) If the combined allowable emissions from units subject to 25 Pa. Code § 129.204 at this facility from May 1 through September 30 exceed the combined actual emissions from units subject to 25 Pa. Code § 129.204 at the facility during this same period, the owner or operator may deduct the difference or any portion of the difference from the amount of actual emission from units subject to 25 Pa. Code § 129.204 at the owner or operator's other facilities.
- (c) By November 1 of each year, an owner or operator of a unit subject to 25 Pa. Code § 129.204 shall surrender the required nitrogen oxide allowances to the Department's designated nitrogen oxide allowance tracking system account and provide to the Department, in writing, the following:
 - (1) The serial number of each nitrogen oxide allowance surrendered.
 - (2) The calculations used to determine the quantity of nitrogen oxide allowances required to be surrendered.
- (d) If an owner or operator fails to comply with paragraph (c) above, the owner or operator shall by December 31 surrender three nitrogen oxide allowances of the current or later year vintage for each nitrogen oxide allowance that was required to be surrendered by November 1 of that year.
- (e) The surrender of nitrogen oxide allowances in paragraph (d) above does not affect the liability of the owner or operator of the unit for any fine, penalty or assessment, or an obligation to comply with any other remedy for the same violation, under the Clean Air Act or the Air Pollution Control Act.
 - (1) For the purposes of determining the number of days of violation, if a facility has excess emission for the period May 1 through September 30, each day in that period (153 days) constitutes a day in violation unless the owner or operator of the unit demonstrates that a lesser number of days should be considered.

**SECTION D. Source Level Requirements**

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

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

**SECTION D. Source Level Requirements**

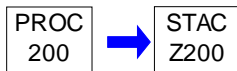
Source ID: 200

Source Name: SOLVENT USAGE

Source Capacity/Throughput:

N/A

SOLVENT

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Emissions of VOC from solvent usage at the facility shall remain below 2.7 tons per 12-month rolling period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor solvent usage from all aspects of the facility operations, on a monthly basis.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall record solvent usage from all aspects of the facility operations, on a monthly basis.

(b) The permittee shall calculate emissions of VOC on a monthly basis and as a 12-month rolling sum.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Solvents used in processes and used for cleaning/disinfecting shall be stored in closed containers at all times, except during use.

(b) Rags and wipes shall be kept in closed containers after use.

VII. ADDITIONAL REQUIREMENTS.

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



SECTION E. Source Group Restrictions.

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this State Only facility.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Descriptor		
031	NATURAL GAS-FIRED BOILERS (2)		
Emission Limit			Pollutant
1.020	Lbs/Hr		CO
4.470	Tons/Yr		CO
0.035	Lbs/MMBTU		NOX
0.610	Lbs/Hr		NOX
2.660	Tons/Yr		NOX
30.000	PPMV	3% oxygen	NOX
0.010	Lbs/Hr		SOX
0.040	Tons/Yr		SOX
0.230	Lbs/Hr	Particulate Matter	TSP
0.400	Lbs/MMBTU		TSP
1.010	Tons/Yr	Particulate Matter	TSP
0.050	Lbs/Hr		VOC
0.210	Tons/Yr		VOC
101	DIESEL-FIRED EMERGENCY GENERATOR		
Emission Limit			Pollutant
1.320	Tons/Yr		CO
5.290	Lbs/Hr		CO
2.540	Tons/Yr		NOX
10.140	Lbs/Hr		NOX
0.020	Tons/Yr		VOC
0.090	Lbs/Hr		VOC
103	MTU EMERGENCY DIESEL GENERATOR		
Emission Limit			Pollutant
3.500	GRAMS/KW-Hr		CO
2.750	Tons/OZNESEAS	Combined with Source 104	NOX
6.600	Tons/Yr	Combined with Source 104; Determined on a 12-month rolling basis	NOX
100.000	Lbs/Hr	Combined with Source 104	NOX
1,000.000	Lbs/Day	Combined with Source 104	NOX
6.400	GRAMS/KW-Hr		NOx+NMHC
500.000	PPMV	On a dry basis	SOX
0.040	gr/DRY FT3	Applies to filterable PM only	TSP
0.200	GRAMS/KW-Hr		TSP
104	BLUE STAR EMERG. DIESEL GEN.		
Emission Limit			Pollutant
3.500	GRAMS/KW-Hr		CO
2.750	Tons/OZNESEAS	Combined with Source 103	NOX
6.600	Tons/Yr	Combined with Source 103; Determined on a 12-month rolling period	NOX
100.000	Lbs/Hr	Combined with Source 103	NOX
1,000.000	Lbs/Day	Combined with Source 103	NOX
6.400	GRAMS/KW-Hr		NOx+NMHC

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
0.200	GRAMS/KW-Hr		PM10
500.000	PPMV	On a dry basis	SOX
0.040	gr/DRY FT3	Applies to filterable PM only	TSP
200	SOLVENT USAGE		
Emission Limit			Pollutant
2.700	Tons/Yr	Determined on a 12-month rolling period	VOC

Site Emission Restriction Summary

Emission Limit	Pollutant
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**SECTION H. Miscellaneous.**

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

- research laboratory operations

The following operating permit serves as a basis for certain conditions found in this operating permit:

- 15-302-084

February 2009. APS: 667720, AUTH: 760632. The Department renewed the operating permit for this facility.

- One new source added, Source 102, rental caterpillar emergency generator, installed in 2005, and addressed in RFD # 15-A01-1141. No plan approval was required.
- Change of Ownership (effective January 21, 2009) from Merck and Co. Inc, federal tax ID 22-1109110-6, to PPD Vaccines & Biologics LLC, federal tax ID 26-3748896-7.

May 2014. APS: 837534, AUTH: 1017441. The Department renewed the operating permit for this facility. This permit renewal also incorporates RFD #2092.

- Source 102 has been removed and replaced by Source 103, an MTU Emergency Diesel Generator, with a rated capacity of 1,000 kW (1,495 hp).
- 40 CFR Part 63, Subpart ZZZZ has been incorporated under Source ID 101.
- 40 CFR Part 60, Subpart IIII has been incorporated under Source ID 103.
- Change of Ownership (effective December 20, 2013) from PPD Vaccines & Biologics, LLC, federal tax ID 26-3748896, to Merck Sharp & Dohme Corp., federal tax ID 22-1261880. Facility name remains as PPD Vaccines & Biologics, LLC.

July 2016. APS: 887847, AUTH: 1102549. The Department amended the operating permit for this facility, to reflect a "Change of Ownership" (change of operator) from PPD Vaccines & Biologics, LLC, to Merck Sharp & Dohme Corporation. The federal tax ID remains as 22-1261880. The Facility name is now Merck Sharp & Dohme Corporation.

July 2017. APS: 923688, AUTH: 1152502. The Department amended the operating permit for this facility, to reflect a "Change of Ownership" (change of operator) from Merck Sharp & Dohme Corporation to MH Devon Park, LLC. The new federal tax ID is 81-2769339.

July 2019. APS: 923688, AUTH: 1253780. The Department renewed the operating permit for this facility.

April 2023. APS: 1082196, AUTH: 1429001. Administrative Amendment for Change of Ownership and Change of Responsible Official.

August 2024. APS: 1082196, AUTH: 1464020. The Department renewed the operating permit for this facility. This permit renewal reflects the following:

- The installation of an additional emergency generator (Source 104).
- The creation of Source 200, to track solvent usage.



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