



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date: November 28, 2022

Effective Date: May 11, 2026

Revision Date: April 29, 2026

Expiration Date: November 6, 2026

Revision Type: Extension

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 construct, install, modify or reactivate the air emission source(s) more fully described in the site inventory list. This Facility is subject to all terms and conditions specified in this plan approval. Nothing in this plan approval 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 plan approval condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated as "State-Only" requirements.

Plan Approval No. 46-0031G

Federal Tax Id - Plant Code: 23-2809002

Owner Information

Name: GLAXOSMITHKLINE LLC

Mailing Address: 1250 S COLLEGEVILLE RD
COLLEGEVILLE, PA 19426-2990

Plant Information

Plant: GLAXO SMITHKLINE/UPPER PROVIDENCE

Location: 46 Montgomery County 46957 Upper Providence Township

SIC Code: 2834 Manufacturing - Pharmaceutical Preparations

Responsible Official

Name: STU GOLD

Title: HEAD OF FACILITIES & ENG

Phone: (610) 637 - 8359

Email: stu.j.gold@gsk.com

Plan Approval Contact Person

Name: JULIA PERRY

Title: ENVIRONMENTAL MGR

Phone: (215) 518 - 8487

Email: julia.x.perry@gsk.com

[Signature] _____

JILLIAN A. GALLAGHER, SOUTHEAST REGION AIR PROGRAM MANAGER



Plan Approval Description

A plan approval for the installation of a selective catalytic reduction (SCR) unit with urea as the reducing agent, an oxidation catalyst, and a diesel particulate filter (DPF) to the exhaust of an existing 2,000 kW diesel-fired electric generator engine to meet requirements for non-emergency use.



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

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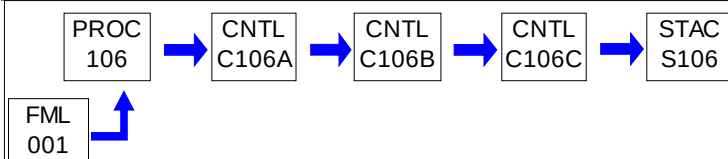
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**SECTION A. Plan Approval Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
106	BLDG 7, 2000 KW ER EGEN	138.000 Gal/HR	Diesel Fuel
C106A	OXIDATION CATALYST		
C106B	DIESEL PARTICULATE FILTER (DPF)		
C106C	SELECTIVE CATALYTIC REDUCTION (SCR)		
001	#2 FUEL OIL		
S106	BLDG 7, 2000 KW ER EGEN STACK		

PERMIT MAPS

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

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

#002 [25 Pa. Code § 127.12b (a) (b)]**Future Adoption of Requirements**

The issuance of this plan approval does not prevent the future adoption by the Department of any rules, regulations or standards, or the issuance of orders necessary to comply with the requirements of the Federal Clean Air Act or the Pennsylvania Air Pollution Control Act, or to achieve or maintain ambient air quality standards. The issuance of this plan approval shall not be construed to limit the Department's enforcement authority.

#003 [25 Pa. Code § 127.12b]**Plan Approval Temporary Operation**

This plan approval authorizes temporary operation of the source(s) covered by this plan approval provided the following conditions are met.

(a) When construction, installation, modification, or reactivation is being conducted, the permittee shall provide written notice to the Department of the completion of the activity approved by this plan approval and the permittee's intent to commence operation at least five (5) working days prior to the completion of said activity. The notice shall state when the activity will be completed and when the permittee expects to commence operation. When the activity involves multiple sources on different time schedules, notice is required for the commencement of operation of each source.

(b) Pursuant to 25 Pa. Code § 127.12b (d), temporary operation of the source(s) is authorized to facilitate the shakedown of sources and air cleaning devices, to permit operations pending the issuance of a permit under 25 Pa. Code Chapter 127, Subchapter F (relating to operating permits) or Subchapter G (relating to Title V operating permits) or to permit the evaluation of the air contaminant aspects of the source.

(c) This plan approval authorizes a temporary operation period not to exceed 180 days from the date of commencement of operation, provided the Department receives notice from the permittee pursuant to paragraph (a), above.

(d) The permittee may request an extension of the 180-day shakedown period if further evaluation of the air contamination aspects of the source(s) is necessary. The request for an extension shall be submitted, in writing, to the Department at least 30 days prior to the end of the initial 180-day shakedown period and shall provide a description of the compliance status of the source, a detailed schedule for establishing compliance, and the reasons compliance has not been established. This temporary operation period will be valid for a limited time and may be extended for additional limited periods, each not to exceed 180 days.

(e) The notice submitted by the permittee pursuant to subpart (a) above, prior to the expiration of the plan approval, shall modify the plan approval expiration date on Page 1 of this plan approval. The new plan approval expiration date shall be 180 days from the date of commencement of operation.

#004 [25 Pa. Code § 127.12(a) (10)]**Content of Applications**

The permittee shall maintain and operate the sources and associated air cleaning devices in accordance with good engineering practice as described in the plan approval application submitted to the Department.

#005 [25 Pa. Code §§ 127.12(c) and (d) & 35 P.S. § 4013.2]**Public Records and Confidential Information**

(a) The records, reports or information obtained by the Department or referred to at public hearings shall be available to the public, except as provided in paragraph (b) of this condition.

(b) Upon cause shown by the permittee that the records, reports or information, or a particular portion thereof, but not emission data, to which the Department has access under the act, if made public, would divulge production or sales figures or methods, processes or production unique to that person or would otherwise tend to affect adversely the

**SECTION B. General Plan Approval Requirements**

competitive position of that person by revealing trade secrets, including intellectual property rights, the Department will consider the record, report or information, or particular portion thereof confidential in the administration of the act. The Department will implement this section consistent with sections 112(d) and 114(c) of the Clean Air Act (42 U.S.C.A. § 7412(d) and 7414(c)). Nothing in this section prevents disclosure of the report, record or information to Federal, State or local representatives as necessary for purposes of administration of Federal, State or local air pollution control laws, or when relevant in a proceeding under the act.

#006 [25 Pa. Code § 127.12b]**Plan Approval Terms and Conditions**

[Additional authority for this condition is derived from 25 Pa. Code Section 127.13]

(a) This plan approval will be valid for a limited time, as specified by the expiration date contained on Page 1 of this plan approval. Except as provided in § 127.11a and 127.215 (relating to reactivation of sources; and reactivation), at the end of the time, if the construction, modification, reactivation or installation has not been completed, a new plan approval application or an extension of the previous approval will be required.

(b) If construction has commenced, but cannot be completed before the expiration of this plan approval, an extension of the plan approval must be obtained to continue construction. To allow adequate time for departmental action, a request for the extension shall be postmarked at least thirty (30) days prior to the expiration date. The request for an extension shall include the following:

- (i) A justification for the extension,
- (ii) A schedule for the completion of the construction

If construction has not commenced before the expiration of this plan approval, then a new plan approval application must be submitted and approval obtained before construction can commence.

(c) If the construction, modification or installation is not commenced within 18 months of the issuance of this plan approval or if there is more than an 18-month lapse in construction, modification or installation, a new plan approval application that meets the requirements of 25 Pa. Code Chapter 127, Subchapter B (related to plan approval requirements), Subchapter D (related to prevention of significant deterioration of air quality), and Subchapter E (related to new source review) shall be submitted. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified.

#007 [25 Pa. Code § 127.32]**Transfer of Plan Approvals**

(a) This plan approval may not be transferred from one person to another except when a change of ownership is demonstrated to the satisfaction of the Department and the Department approves the transfer of the plan approval in writing.

(b) Section 127.12a (relating to compliance review) applies to a request for transfer of a plan approval. A compliance review form shall accompany the request.

(c) This plan approval is valid only for the specific source and the specific location of the source as described in the application.

#008 [25 Pa. Code § 127.12(a)(4) & 35 P.S. § 4008 & § 114 of the CAA]**Inspection and Entry**

(a) 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.

(b) The permittee shall also allow the Department to have access at reasonable times to said sources and associated air cleaning devices with such measuring and recording equipment, including equipment recording visual observations, as the Department deems necessary and proper for performing its duties and for the effective enforcement of the Air Pollution Control Act and regulations adopted under the act.

**SECTION B. General Plan Approval Requirements**

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

#009 [25 Pa. Code 127.13a]**Plan Approval Changes for Cause**

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

(a) The permittee constructs or operates the source subject to the plan approval in violation of the act, the Clean Air Act, the regulations promulgated under the act or the Clean Air Act, a plan approval or permit or in a manner that causes air pollution.

(b) 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.

(c) The permittee fails to submit a report required by this plan approval.

(d) The Environmental Protection Agency determines that this plan approval is not in compliance with the Clean Air Act or the regulations thereunder.

#010 [25 Pa. Code §§ 121.9 & 127.216]**Circumvention**

(a) The permittee, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

(b) 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 this plan approval, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#011 [25 Pa. Code § 127.12c]**Submissions**

Reports, test data, monitoring data, notifications shall be submitted to the:

Regional Air Program Manager

PA Department of Environmental Protection

(At the address given on the plan approval transmittal letter or otherwise notified)

#012 [25 Pa. Code § 127.12(a)(9) & 40 CFR Part 68]**Risk Management**

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

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

(1) The permittee shall submit the first RMP to a central point specified by the Environmental Protection Agency no later than the latest of the following:

**SECTION B. General Plan Approval Requirements**

- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

(2) The permittee shall submit any additional relevant information requested by the Department or the Environmental Protection Agency concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

(c) As used in this plan approval condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

#013 [25 Pa. Code § 121.7]**Prohibition of Air Pollution**

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

#014 [25 Pa. Code § 127.25]**Compliance Requirement**

A person may not cause or permit the operation of a source subject to § 127.11 (relating to plan approval requirements), unless the source and air cleaning devices identified in the application for the plan approval and the plan approval issued to the source, are operated and maintained in accordance with specifications in the application and conditions in the plan approval issued by the Department. A person may not cause or permit the operation of an air contamination source subject to this chapter in a manner inconsistent with good operating practices.



SECTION C. Site Level Plan Approval Requirements

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

V. REPORTING REQUIREMENTS.

001 [25 Pa. Code §127.12b]

Plan approval 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:

- (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.

**SECTION C. Site Level Plan Approval Requirements**

(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.

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VII. ADDITIONAL REQUIREMENTS.

002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall continue to comply with all existing requirements of Title V Operating Permit 46-00031, unless specifically revised by this Plan Approval. The provisions in this Plan Approval shall be construed to supersede any contrary provisions in any previous plan approval, operating permit, or general permit.

VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this plan approval including Section B (relating to Plan Approval General Requirements).

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

**SECTION D. Source Level Plan Approval Requirements**

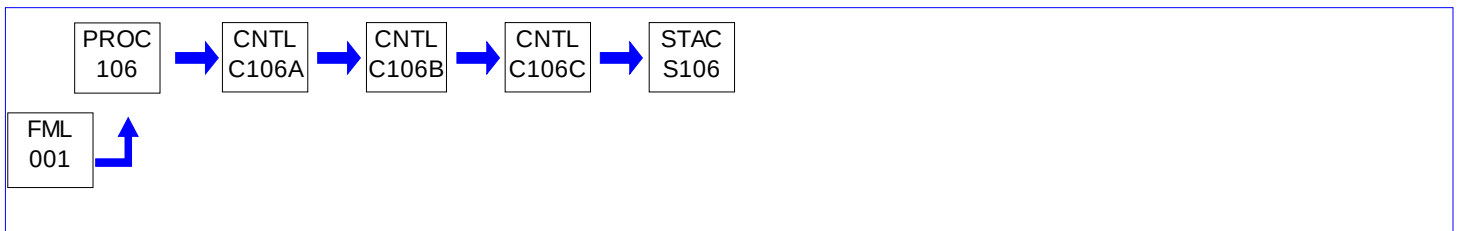
Source ID: 106

Source Name: BLDG 7, 2000 KW ER EGEN

Source Capacity/Throughput:

138.000 Gal/HR

Diesel Fuel

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

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

002 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

[Compliance with the above emission standard assures compliance with 25 Pa. Code § 123.13(c)(1)(i).]

003 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall limit emissions of the following pollutants from this source, when operating:

(a) Nitrogen Oxides (NO_x):

- (i) 0.67 g/kW-hr, or 0.50 g/bhp-hr
- (ii) 2.95 pounds/hr; and
- (iii) 0.59 tons per year calculated as a 12-month rolling sum.

(b) Carbon Monoxide (CO):

- (i) 2.68 g/kW-hr, or 2.0 g/bhp-hr
- (ii) 11.82 pounds/hr; and
- (iii) 2.36 tons per year calculated as a 12-month rolling sum.

(c) Volatile Organic Compounds (NMHC):

- (i) 0.19 g/kW-hr, or 0.14 g/bhp-hr
- (ii) 0.84 pounds/hr; and
- (iii) 0.17 tons per year calculated as a 12-month rolling sum.

(d) Particulate Matter (PM-10):

- (i) 0.03 g/kW-hr, or 0.02 g/bhp-hr
- (ii) 0.13 pounds/hr; and
- (iii) 0.026 tons per year calculated as a 12-month rolling sum.

[Compliance with the above emission standards assures compliance with the emission standards specified by 40 CFR §§ 60.4204(b), 60.4201(a), and Table 1 of 40 CFR § 1039.101.]

**SECTION D. Source Level Plan Approval Requirements****# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The ammonia concentration in the exhaust gas stream shall not exceed 10 ppmvd @ 15% oxygen.

005 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

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

Fuel Restriction(s).**# 006 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

- (a) The permittee shall only use diesel fuel for this source.
- (b) The diesel fuel shall comply with the following per-gallon standards:
 - (1) Sulfur Content: 15 ppm maximum.
 - (2) Cetane index or aromatic content, as follows:
 - (i) A minimum cetane index of 40; or
 - (ii) A maximum aromatic content of 35 volume percent.

[Compliance with the above fuel standards assures compliance with the standards specified in 40 CFR § 60.4207(b).]

Throughput Restriction(s).**# 007 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall limit the fuel usage for this source to less than 55,200 gallons per year calculated on a 12-month rolling sum.

II. TESTING REQUIREMENTS.**# 008 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall perform a stack test using the Department-approved procedures, to show compliance with the emission limits set for the source. The source test shall be performed within 180 days after startup of the source and/or control device. Source testing shall be performed for the following pollutants: NO_x, CO, NMHC, and PM-10, in units of g/kW-hr and lb/hr, and for ammonia in ppmvd corrected to 15% oxygen. Performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.

(b) The stack test shall, at a minimum, test for the NO_x, CO, NMHC, filterable and condensable PM-10, and ammonia. Tests shall be conducted in accordance with the following provisions, or other Department approved methodology, and 25 Pa. Code Chapter 139:

- NO_x, Method 7E (preferred) or Method 320

**SECTION D. Source Level Plan Approval Requirements**

- CO, Method 10 (preferred) or Method 320
- NMHC, ALT-106 (preferred), or Methods 25A and 18, or Method 320
- PM-10 (filterable and condensable), Methods 5 and 202, or Methods 201A and 202
- Ammonia slip, CTM-027 or Method 320

(c) At least ninety (90) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.

(d) At least thirty (30) days prior to the test, the Regional Air Quality Manager, shall be informed of the date and time of the test.

(e) Within sixty (60) days after the source test(s) (unless a more stringent regulatory requirement applies), one paper copy plus an electronic copy of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

(f) In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in writing and include a justification for the extension. The Department may grant an extension for a reasonable cause.

[Compliance with the above testing requirements assures compliance with testing requirements specified in 40 CFR §60.4211(g)(3).]

009 [25 Pa. Code §139.16]**Sulfur in fuel oil.**

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

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

(2) Test methods and procedures for the determination of viscosity shall be that specified in 25 Pa. Code § 139.4(11) (relating to references). The viscosity shall be determined at 100°F.

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

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

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

III. MONITORING REQUIREMENTS.**# 010 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall monitor the following for this source on a daily, monthly, and 12-month rolling basis:

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

(b) The permittee shall monitor the following parameters of the emission control system, when operating:

- (1) Temperature of the SCR catalyst bed, on a continual basis (at least once every 15 minutes, and at least once during

**SECTION D. Source Level Plan Approval Requirements**

any period of operation less than 15 minutes).

(2) Urea injection rate on a continual basis (at least once every 15 minutes, and at least once during any period of operation less than 15 minutes).

(3) Pressure drop across the diesel particulate filter, on a daily basis.

(4) Pressure drop across the oxidation catalyst, on a daily basis.

(5) Pressure drop across the entire emission control system, on a daily basis.

[Compliance with the requirement in paragraph (b)(5) above assures compliance with the requirement specified in 40 CFR § 60.4209(b).]

IV. RECORDKEEPING REQUIREMENTS.**# 011 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall maintain records of the following for this source on a daily, monthly, and 12-month rolling basis:

(1) Fuel usage.

(2) Hours of operation.

(b) The permittee shall maintain records of the following parameters of the emission control system, when operating:

(1) Temperature of the SCR catalyst bed, on a continual basis (at least once every 15 minutes, and at least once during any period of operation less than 15 minutes).

(2) Urea injection rate on a continual basis (at least once every 15 minutes, and at least once during any period of operation less than 15 minutes).

(3) Pressure drop across the diesel particulate filter, on a daily basis.

(4) Pressure drop across the oxidation catalyst, on a daily basis.

(5) Pressure drop across the entire emission control system, on a daily basis.

[Compliance with the requirement in paragraph (b)(3) above assures compliance with the requirement specified in 40 CFR § 60.4214(c).]

012 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall calculate and maintain records of NO_x, CO, VOC, and PM emissions on a monthly, and 12-month rolling basis.

013 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall keep a maintenance plan and records of all inspections, maintenance, deficiencies, and/or corrective actions performed on the control devices (SCR, oxidation catalyst, and DPF).

[Compliance with the above condition assures compliance with requirements specified in 40 CFR § 60.4211(g)(3).]

**SECTION D. Source Level Plan Approval Requirements****V. REPORTING REQUIREMENTS.****# 014 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

This electric generator engine is subject to Subpart IIII of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart. In accordance with 40 C.F.R. Part 60 § 60.4, copies of all requests, reports, applications, submittals, and other communications are required to be submitted to both the EPA and the Department. The EPA copies shall be forwarded to:

Office of Air and Radiation Division - Permit Branch (3AD10)
United States Environmental Protection Agency
Region 3
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, PA 19103-2852

VI. WORK PRACTICE REQUIREMENTS.**# 015 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall comply with the following work practice standards when operating:

- (a) Urea injection to the SCR shall be initiated when the exhaust gas from the engine is equal to or greater than 600 °F.
- (b) The temperature of the SCR catalyst shall be maintained between 572 °F and 977 °F.
- (c) The urea injection rate shall be calibrated to various engine load conditions and established during the stack test.
- (d) The urea injection rate shall not exceed 10.8 gallons per hour.
- (e) The pressure drop range across the diesel particulate filter shall be established after the stack test and during the shakedown period.
- (f) The pressure drop range across the oxidation catalyst shall be established after the stack test and during the shakedown period.
- (g) The pressure drop across the entire emission control system shall be maintained below 17" w.c.

016 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall:

- (a) Operate and maintain the stationary CI internal combustion engine and control devices according to the manufacturer's emission-related written instructions and in a manner consistent with good air pollution control practices.
- (b) Change only those emission-related settings that are permitted by the manufacturer.
- (c) The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in § 60.4211(g).

[Compliance with the above work practice standards assures compliance with requirements specified in 40 CFR §§ 60.4211(a) and (c). and 25 Pa. Code § 129.97(c) and proposed § 129.112(c).]

017 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall operate the emission control system whenever the source is in operation. The source shall not be

**SECTION D. Source Level Plan Approval Requirements**

operated if any component of the emission control system is out of order or not functioning properly, or would cause any of the emission limits to be exceeded.

018 [25 Pa. Code §129.203]**Stationary internal combustion engines.**

(a) The owner or operator of a stationary internal combustion engine rated at greater than 1,000 horsepower and located in Bucks, Chester, Delaware, Montgomery or Philadelphia County shall comply with 25 Pa. Code §§ 129.203 and 129.204 (relating to emission accountability).

(b) By October 31, 2005, and each year thereafter, the owner or operator of the stationary internal combustion engine shall calculate the difference between the actual emissions from the unit during the period from May 1 through September 30 and the allowable emissions for that period.

(c) The owner or operator shall calculate allowable emissions by multiplying the cumulative hours of operations for the unit for the period by the horsepower rating of the unit and by the applicable emission rate set forth as follows:

For a compression ignition stationary internal combustion engine firing diesel fuel, 2.3 grams of NO_x per brake horsepower-hour.

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

(a) The owner or operator shall determine actual emissions in accordance with one of the following:

(i) The highest rate determined by use of the emission factor for the unit class contained in the most up-to-date version of the EPA publication, "AP-42 Compilation of Air Pollution Emission Factors."

(ii) The highest rate determined by use of the emission factor for the unit class contained in the most up-to-date version of EPA's "Factor Information Retrieval (FIRE)" data system.

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

(c) By November 1, 2005, and by November 1 of each year thereafter, an owner or operator of a unit subject to this section shall surrender the required NO_x allowances to the Department's designated NO_x allowance tracking system account and provide to the Department, in writing, the following:

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

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

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

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

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

**SECTION D. Source Level Plan Approval Requirements**

unit demonstrates that a lesser number of days should be considered.

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

VII. ADDITIONAL REQUIREMENTS.

020 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

This source consists of:

(a) One (1) Caterpillar 3516C diesel-fired electric generator engine rated at 2,950 bhp (2,000 ekW), and having a total engine displacement of 69 liters with 16 cylinders, and a fuel throughput of 138.0 gallons per hour. 2017 model year.

(b) One (1) Miratech, Mira-Cube packaged emission control system, consisting of a diesel particulate filter (DPF), selective catalytic reduction system (SCR), and oxidation catalyst. Urea is the reducing agent used for the SCR.



SECTION E. Source Group Plan Approval Restrictions.

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Plan Approval facility.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description			
106	BLDG 7, 2000 KW ER EGEN			
Emission Limit			Pollutant	
10.000	PPMV	dry basis, 15% O2	Ammonia	
2.360	Tons/Yr	12-month rolling basis	CO	
2.680	GRAMS/KW-Hr		CO	
11.820	Lbs/Hr		CO	
0.170	Tons/Yr	12-month rolling basis	NMHC	
0.190	GRAMS/KW-Hr		NMHC	
0.840	Lbs/Hr		NMHC	
0.590	Tons/Yr	12-month rolling basis	NOX	
0.670	GRAMS/KW-Hr		NOX	
2.950	Lbs/Hr		NOX	
0.020	gr/DRY FT3		PM10	
0.026	Tons/Yr	12-month rolling basis	PM10	
0.030	GRAMS/KW-Hr		PM10	
0.130	Lbs/Hr		PM10	
500.000	PPMV	dry basis	SO2	

Site Emission Restriction Summary

Emission Limit	Pollutant
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SECTION H. Miscellaneous.



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