



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date: January 7, 2026

Effective Date: January 7, 2026

Expiration Date: July 6, 2027

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. 40-00158B

Federal Tax Id - Plant Code: 387053

Owner Information

Name: AMAZON DATA SERVICES INC
Mailing Address: 13200 WOODLAND PARK RD
HERNDON, VA 20171-3025

Plant Information

Plant: AMAZON DATA SERVICES INC/PHL100/SALEM TWP
Location: 40 Luzerne County 40964 Salem Township
SIC Code: 7374 Services - Data Processing Services

Responsible Official

Name: ROBB TRUEDINGER
Title: GLOBAL ENV DIR
Phone: (724) 674 - 4033 Email: cangeyac@amazon.com

Plan Approval Contact Person

Name: ANDREW CANGEY
Title: SR AIR QUALITY ENGR
Phone: (724) 674 - 4033 Email: cangeyac@amazon.com

[Signature] _____
MARK J. WEJKSZNER, NORTHEAST REGION AIR PROGRAM MANAGER



Plan Approval Description

This plan approval is for the installation and operation of an additional 53 emergency generators in addition to the existing 56 emergency generators and 2 fire pump engines. The 101 critical emergency generators and 7 house emergency generators will each be driven by a Tier II stationary diesel fuel-fired reciprocating internal combustion engine (RICE) and controlled by Selective Catalytic Reduction (SCR), Diesel Oxidation Catalysts (DOC), and Diesel Particulate Filters (DPF). Additional sources include one (1) Tier III 398 BHP auxiliary emergency engine and two (2) Tier III 300 BHP maximum fire-pump engines. The emergency engines at the facility include:

One-hundred and one (101) CAT 3516E 2.75 MW (4,043 BHP) critical emergency engines

[53 existing, 48 new]

One (1) CAT C32 1.00 MW (1,483 BHP) house emergency engine

[1 existing]

Six (6) CAT C18 0.75 MW (1,112 BHP) house emergency engines

[2 existing, 4 new]

One (1) CAT C9 0.25 MW (398 BHP) auxiliary emergency engine

[1 new]

Two (2) 300 BHP (maximum) fire pump engines

[2 existing]



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

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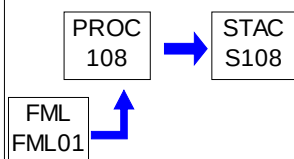
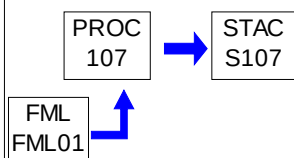
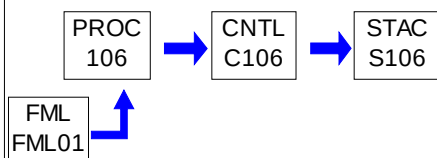
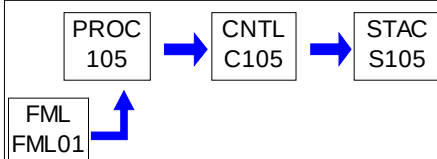
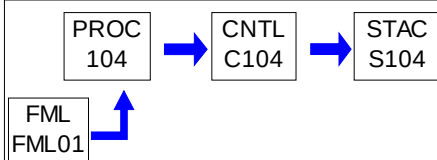
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Source ID	Source Name	Capacity/Throughput	Fuel/Material
104	101-4043 HP CAT 3516E CRITICAL EGENS (CEG1-CEG101)	192.900 Gal/HR	Diesel Fuel
105	1-1483 HP CAT C32 HOUSE EGEN (HG1)	71.500 Gal/HR	Diesel Fuel
106	6-1112 HP CAT C18 HOUSE EGENS (HG2 - HG7)	53.600 Gal/HR	Diesel Fuel
107	2-300 BHP FIRE PUMP ENGINES	35.000 Gal/HR	Diesel Fuel
108	1-398 BHP CAT C9 AUXILIARY EGEN (ACB1)	19.100 Gal/HR	Diesel Fuel
C104	SCR/DOC/DPF		
C105	SCR/DOC/DPF		
C106	SCR/DOC/DPF		
FML01	DIESEL/RENEWABLE DIESEL FUEL OIL		
S104	CAT 3516E STACKS		
S105	CAT C32 STACK		
S106	CAT C18 STACKS		
S107	FIRE PUMP ENGINE STACKS		
S108	CAT C9 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.****Emission Restriction(s).****# 001 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

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

- (a) Construction or demolition of buildings or structures;
- (b) Grading, paving and maintenance of roads and streets;
- (c) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets;
- (d) Clearing of land;
- (e) Stockpiling of materials;
- (f) Open burning operations, as specified in 25 Pa. Code § 129.14;
- (g) Sources and classes of sources other than those identified in (a)-(f) above, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (1) The emissions are of minor significance with respect to causing air pollution; and
 - (2) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

002 [25 Pa. Code §123.2]**Fugitive particulate matter**

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

003 [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.

004 [25 Pa. Code §123.41]**Limitations**

The following opacity limitations apply to all air contaminant sources at the facility, except where more stringent limitations are imposed on specific sources (i.e. Group 01, Emission Restriction, opacity condition). 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.
- (b) Equal to or greater than 60% at any time.

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

The opacity limitations shall not apply to a visible emission in any of the following instances:

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

**SECTION C. Site Level Plan Approval Requirements****# 006 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

- (1) The permittee shall limit facility-wide NOx emissions to less than 99 tons per year, based on a 12-month rolling sum.
- (2) The permittee shall not exceed the following facility-wide emission limits:
 - (a) 100 TPY of each pollutant: carbon monoxide (CO), sulfur oxides (SOx), particulate matter (PM10), and particulate matter (PM2.5).
 - (b) 50 TPY of volatile organic compounds (VOC)
 - (c) 10 TPY of any individual hazardous air pollutant (HAP)
 - (d) 25 TPY of aggregate HAPs
- (2) The permittee shall comply with the facility-wide emission limits at all times including during periods of startup, shutdown, and malfunction.

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

No person may permit the open burning of material in an area outside of air basins in a manner that:

- (1) The emissions are visible, at any time, at the point such emissions pass outside the property of the person on whose land the open burning is being conducted.
- (2) Malodorous air contaminants from the open burning are detectable outside the property of the person on whose land the open burning is being conducted.
- (3) The emissions interfere with the reasonable enjoyment of life or property.
- (4) The emissions cause damage to vegetation or property.
- (5) The emissions are or may be deleterious to human or animal health.

II. TESTING REQUIREMENTS.**# 008 [25 Pa. Code §127.12b]****Plan approval 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 plan approval may be in excess of the limitations specified in this plan approval, 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.

009 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The Department reserves the right to require exhaust stack testing of any source(s) as necessary to verify emissions for purposes including determining whether a malfunction has occurred or determining compliance with any applicable regulation.

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

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

Northeast Region
RA-EPNEstacktesting@pa.gov

Central Office
RA-EPstacktesting@pa.gov

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

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

(1) Test Date(s)

- (i) For protocols, provide the proposed date on which testing will commence or "TBD"
- (ii) For reports, provide the first and last day of testing

(2) Primary Facility Identification Number (PF ID 849626): For test programs that were conducted under a multi-site protocol, also include the PF ID under which the protocol was stored in PSIMS, as indicated in the protocol response letter.

(3) Source ID(s) for the applicable source(s) and air pollution control device(s): The term Source ID is used in the permit but "Other Id" is used in DEP electronic systems. They are the same number and must also be listed for control equipment.

(4) Testing Requirements (all that apply):

- (i) Plan approval number(s)
- (ii) Applicable federal subpart(s) (i.e. 40 C.F.R. 60, Subpart IIII)

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

III. MONITORING REQUIREMENTS.**# 011 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

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

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

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

- (1) Odors which may be objectionable (as per 25 Pa. Code § 123.31).
- (2) Visible Emissions (as per 25 Pa. Code §§ 123.41 and 123.42; and Group 01 Condition #005) and; (3) Fugitive Particulate Matter (as per 25 Pa. Code §§ 123.1 and 123.2) using EPA Method 22.

(b) If visible emissions are identified using Method 22, the facility shall conduct a Method 9 reading to confirm the presence of visible emissions.

(c) 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.

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

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

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

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

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

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

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

014 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

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

015 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

(a) The permittee shall maintain records of facility-wide NO_x, CO, SO_x, VOC, and PM (total, PM₁₀, and PM_{2.5}) emissions on a monthly and 12-month rolling sum.

(b) Facility-wide emissions include emissions from the sources listed in this plan approval as well as insignificant or miscellaneous sources exempt from plan approval requirements.

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

(a) The company, within one hour of discovery of occurrence, shall notify the Department, at 570-826-2511, of any malfunction, recordkeeping and reporting errors, or other possible non-compliance issues, which result in, or may possibly be resulting in, the emission of air contaminants in excess of the limitations specified in, or established pursuant to, any applicable rule or regulations contained in Article III of the Rules and Regulations of the Department of Environmental Protection.

(b) Malfunction(s) which occur at this facility, and pose(s) an imminent danger to public health, safety, welfare and the environment, and would violate plan approval conditions if the source were to continue to operate after the malfunction, shall immediately be reported to the Department by telephone at the above number.

(c) A written report shall be submitted to the Department within five working days following the incident describing the malfunction, record keeping, and reporting error or other non-compliance issue and the corrective actions being taken. The Department may take enforcement action for any violations of the applicable standards.

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

(a) Prior to increasing the quantity or changing the type of materials specified in the application or limited by this permit, the permittee shall submit a request to DEP for review and approval.

(b) Total replacement of an existing engine type and/or generator set is allowable, provided the following conditions are met:

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

- (1) The permittee shall provide thirty (30) days written notification to DEP of a planned replacement, or within seven (7) days after an unplanned replacement is commenced.
- (2) The equipment being installed shall meet the current applicable BAT Compliance Requirements.
- (3) The engine and/or generator set to be installed, or which has been installed, shall be an identical unit or lower emitting unit.
- (4) The written notice shall identify the location, the manufacturer, model, serial number, and rated capacity of the engine and generator set, and the manufacturer, model, serial number, and rated capacity of the engine and generator set to be installed, or which has been installed, and the air contaminant emission rates which will exist following engine and/or generator replacement, including NOx and CO.
- (5) The written notice shall include a certification from the permittee, signed by a responsible official, that the equipment will meet all applicable terms and conditions of this plan approval.
- (6) The notice shall be accompanied by a vendor-provided guarantee of the achievable air contaminant emission rates of the new unit. If such a guarantee is not available, the notice shall include certification that the permittee attempted to obtain such guarantee and an explanation as to why the vendor will not provide such a guarantee.
- (7) All certifications shall be signed by a responsible official as the term is defined in 25 Pa. Code § 121.1 and shall acknowledge that the certifying party is aware of the penalties for unsworn falsification to governmental authorities as established under 18 Pa.C.S. § 4904. The certification shall also state that based on information and belief formed after reasonable inquiry, that the information in the notice is true, accurate and complete.
- (8) After an engine or generator set has been replaced, the permittee shall perform NOx and CO emissions testing for the respective unit(s) within one-hundred twenty (120) days of completing the replacement. Stack testing shall be performed in accordance 25 Pa. Code Title 25, Chapter 139.
- (9) The fixed capital cost of engine replacement shall not exceed 50% of the fixed capital cost that would be required to construct a comparable entirely new generator set; fixed capital cost means the capital needed to provide the depreciable components.

018 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

- (a) The permittee shall submit to DEP an annual certification of compliance with the terms and conditions of this plan approval for the previous year, including the emission limitations, standards, or work practices.
- (b) The reporting period specified by the permittee shall be no later than one year from the start of operations of the facility, unless otherwise approved by DEP. The initial and subsequent annual reports shall be submitted within 60 days of the end of the reporting periods.
- (c) During the commissioning period for each engine and prior to the engine(s) commencing operation after commissioning, any operating parameter terms and conditions shall be considered Best Management Practices (BMPs) and not subject to the certification of compliance. However, emissions generated during the commissioning period shall be reported in accordance with applicable regulatory requirements. Once the engine(s) become operational, the engine(s) shall be included in the annual compliance certification in accordance with the terms and conditions herein.
- (d) General information required on each annual certification of compliance reports includes:
 - (1) PF ID Name (Amazon Data Services, Inc.)
 - (2) Plan Approval No. 40-00158B,
 - (3) Address of the site,
 - (4) The beginning and ending dates of the reporting period,
 - (5) The statement: "Based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete."

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

- (6) The signature of the certifying Responsible Official,
(7) Identification of each source included in the report (i.e. CEG1, HG1, etc.), and serial number,
(8) The identification of each term or condition of the plan approval that is the basis of the certification, the compliance status, and the methods used for determining the compliance status of the source over the reporting period.
(9) The records of the facility's emissions, including emissions occurring during the commissioning period, to demonstrate compliance with facility-wide emission limits in Section C of this plan approval.

019 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall report to DEP within 15 days following the month of any occurrence meeting or exceeding 99 tons of facility-wide NOx emissions per 12-month rolling period.

020 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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.

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.**# 021 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

A person responsible for any source specified in Condition #002 shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

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

022 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall immediately, upon discovery, implement measures which may include the application for the installation of 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 plan approval 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.

023 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall ensure that all sources are operated and maintained in accordance with manufacturer's specifications and good operating practices.

024 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The sources listed in this plan approval shall be installed and operated in accordance with the plans submitted with the plan approval application (as approved herein).

**SECTION C. Site Level Plan Approval Requirements****VII. ADDITIONAL REQUIREMENTS.****# 025 [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).

026 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

(a) Upon determination by the permittee that the air contamination sources and air cleaning devices covered by this plan approval are in compliance with all conditions of the plan approval, the permittee shall contact the Department's technical reviewer and schedule the Initial Operating Permit Inspection.

(b) Upon completion of the Initial Operating Permit Inspection and determination by the Department that the permittee is in compliance with all conditions of the plan approval, the permittee shall submit an Operating Permit (OP) application for this Facility within 120 days.

027 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

All future expansion projects under common control by the permittee, with the same SIC Code, constructed on contiguous or adjacent properties shall be aggregated with all previously issued plan approvals as one source for major source permitting purposes and with respect to the Title V and NSR permitting process.

028 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The requirements of this plan approval supersede all previously issued plan approvals for the specific sources and/or operations authorized herein.

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: 104

Source Name: 101-4043 HP CAT 3516E CRITICAL EGENS (CEG1-CEG101)

Source Capacity/Throughput:

192.900 Gal/HR

Diesel Fuel

Conditions for this source occur in the following groups: GROUP 01

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.12(a)(5).]

The permittee shall comply with the following emission standards, which serve as Best Available Technology (BAT) for each diesel-fired emergency engine rated at 2750 kW (4043 bhp):

- (a) NO_x - less than 0.50 gram/hp-hr,
- (b) VOC - less than 0.06 gram/hp-hr,
- (c) CO - less than 0.35 gram/hp-hr,
- (d) PM - less than 0.02 gram/hp-hr,
- (e) Ammonia Slip - less than 10 ppm at 15% oxygen.

[Initial compliance with the NO_x and CO emission standards and the ammonia slip limit of this condition will be verified through initial source testing. Compliance with the VOC and PM emission standards of this condition will be demonstrated through proper operation of the add-on control system as approved herein.]

[The BAT emission standards of this condition are more stringent and streamline compliance with the NO_x + NMHC, CO, and PM emission standards of 40 C.F.R. Part 60 Subpart IIII and 40 C.F.R. Part 1039 applicable to this engine.]

[The particulate matter BAT emission standard of this condition is more stringent and streamlines compliance with the PM emission standard of 25 Pa. Code § 123.13(c)(1)(i).]

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

- (a) The permittee shall limit post-control NO_x emissions from each diesel-fired emergency engine listed in Source ID 104 to 4.44 lb/hr.

- (b) The permittee shall limit post-control CO emissions from each diesel-fired emergency engine listed in Source ID 104 to 3.10 lb/hr.

[Initial compliance with the pound per hour limits will be determined through initial source testing; ongoing compliance will be verified through proper operation and maintenance of each engine and control systems according to manufacturer specifications as approved herein.]

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) and/or Section E (Source Group Restrictions).



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

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) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

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

Source ID: 105

Source Name: 1-1483 HP CAT C32 HOUSE EGEN (HG1)

Source Capacity/Throughput:

71.500 Gal/HR

Diesel Fuel

Conditions for this source occur in the following groups: GROUP 01

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.12(a)(5).]

The permittee shall comply with the following emission standards, which serve as Best Available Technology (BAT) for Source ID 105:

- (a) NO_x - less than 0.50 gram/hp-hr,
- (b) VOC - less than 0.03 gram/hp-hr,
- (c) CO - less than 0.13 gram/hp-hr,
- (d) PM - less than 0.02 gram/hp-hr,
- (e) Ammonia Slip - less than 10 ppm at 15% oxygen.

[Initial compliance with the NO_x and CO emission standards and the ammonia slip limit of this condition will be verified through initial source testing. Compliance with the VOC and PM emission standards of this condition will be demonstrated through proper operation of the add-on control system as approved herein.]

[The BAT emission standards of this condition are more stringent and streamline compliance with the NO_x + NMHC, CO, and PM emission standards of 40 C.F.R. Part 60 Subpart IIII and 40 C.F.R. Part 1039 applicable to this engine.]

[The particulate matter BAT emission standard of this condition is more stringent and streamlines compliance with the PM emission standard of 25 Pa. Code § 123.13(c)(1)(i).]

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

- (a) The permittee shall limit post-control NO_x emissions from each diesel-fired emergency engine listed in Source ID 105 to 1.64 lb/hr.

- (b) The permittee shall limit post-control CO emissions from each diesel-fired emergency engine listed in Source ID 105 to 1.51 lb/hr.

[Initial compliance with the pound per hour limits will be determined through initial source testing; ongoing compliance will be verified through proper operation and maintenance of each engine and control systems according to manufacturer specifications as approved herein.]

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) and/or Section E (Source Group Restrictions).



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

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) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

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

Source ID: 106

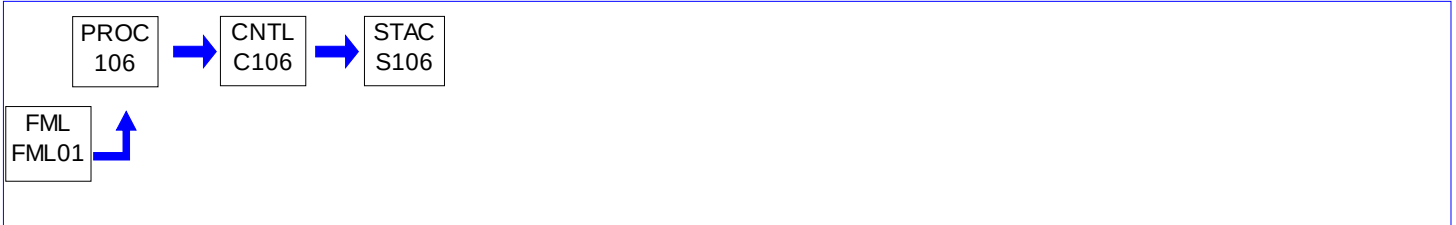
Source Name: 6-1112 HP CAT C18 HOUSE EGENS (HG2 - HG7)

Source Capacity/Throughput:

53.600 Gal/HR

Diesel Fuel

Conditions for this source occur in the following groups: GROUP 01

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.12(a)(5).]

The permittee shall comply with the following emission standards, which serve as Best Available Technology (BAT) for Source ID 106:

- (a) NO_x - less than 0.50 gram/hp-hr,
- (b) VOC - less than 0.04 gram/hp-hr,
- (c) CO - less than 0.08 gram/hp-hr,
- (d) PM - less than 0.02 gram/hp-hr,
- (e) Ammonia Slip - less than 10 ppm at 15% oxygen.

[Initial compliance with the NO_x and CO emission standards and the ammonia slip limit of this condition will be verified through initial source testing. Compliance with the VOC and PM emission standards of this condition will be demonstrated through proper operation of the add-on control system as approved herein.]

[The BAT emission standards of this condition are more stringent and streamline compliance with the NO_x + NMHC, CO, and PM emission standards of 40 C.F.R. Part 60 Subpart IIII and 40 C.F.R. Part 1039 applicable to this engine.]

[The particulate matter BAT emission standard of this condition is more stringent and streamlines compliance with the PM emission standard of 25 Pa. Code § 123.13(c)(1)(i).]

Control Device Efficiency Restriction(s).**# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

- (a) The permittee shall limit post-control NO_x emissions from each diesel-fired emergency engine listed in Source ID 106 to 1.22 lb/hr.

- (b) The permittee shall limit post-control CO emissions from each diesel-fired emergency engine listed in Source ID 106 to 0.95 lb/hr.

[Initial compliance with the pound per hour limits will be determined through initial source testing; ongoing compliance will be verified through proper operation and maintenance of each engine and control systems according to manufacturer specifications as approved herein.]



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

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) and/or Section E (Source Group Restrictions).

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) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

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

Source ID: 107

Source Name: 2-300 BHP FIRE PUMP ENGINES

Source Capacity/Throughput:

35.000 Gal/HR

Diesel Fuel

Conditions for this source occur in the following groups: GROUP 01

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

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

Source ID: 108

Source Name: 1-398 BHP CAT C9 AUXILIARY EGEN (ACB1)

Source Capacity/Throughput:

19.100 Gal/HR

Diesel Fuel

Conditions for this source occur in the following groups: GROUP 01

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**SECTION E. Source Group Plan Approval Restrictions.**

Group Name: GROUP 01

Group Description: Emergency Engines

Sources included in this group

ID	Name
104	101-4043 HP CAT 3516E CRITICAL EGENS (CEG1-CEG101)
105	1-1483 HP CAT C32 HOUSE EGEN (HG1)
106	6-1112 HP CAT C18 HOUSE EGENS (HG2 - HG7)
107	2-300 BHP FIRE PUMP ENGINES
108	1-398 BHP CAT C9 AUXILIARY EGEN (ACB1)

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

No person may permit the emission into the outdoor atmosphere of particulate matter from this source in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot, pursuant to 25 Pa. Code § 123.13(c)(1)(i).

[Compliance with the PM emission standards of §40 CFR 60.4205 assures compliance with 25 Pa. Code § 123.13.]

002 [25 Pa. Code §123.21]**General**

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

[Compliance with this condition is streamlined in 40 C.F.R. § 60.4207(b) and § 1090.305, by using diesel fuel oil with a sulfur content of 15ppm maximum.]

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

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.12(a)(5):

For Source ID 107 and 108:

(a) The emission rate from each fire pump (Source ID 107) and auxiliary emergency engine (Source ID 108) shall not exceed any of the following:

1. NO_x + NMHC = 4.0 g/kW-hr = 3.0 g/hp-hr
2. PM = 0.20 g/kW-hr = 0.15 g/hp-hr

(b) The facility shall maintain the fire pumps and auxiliary engine's certificates of conformity indicating the engines are certified to meet the applicable emissions standards in Table 4 of 40 CFR 60.4205(c) and 40 CFR Part 1039, Appendix I, respectively. The facility shall operate and maintain the fire pumps and auxiliary emergency engine according to the manufacturer's emission-related instructions and only change those emission-related settings that are permitted by the manufacturer.

[Compliance with the emission standards of 40 C.F.R. Part 60 Subpart IIII and 40 C.F.R. Part 1039 is demonstrated through the Tier 3 engine certification for NO_x + NMHC and PM emissions.]

[The PM emission standard of 40 C.F.R. Part 60 Subpart IIII and 40 C.F.R. Part 1039 is more stringent and streamlines compliance with the PM emission standard of 25 Pa. Code § 123.13(c)(1)(i).]

**SECTION E. Source Group Plan Approval Restrictions.****# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

For Source ID 107 and 108:

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.12(a)(5) and the CO emission standard of BAQ-GPA/GP-9, Condition No. 7(b)(iii) for diesel-fired engines.]

The permittee shall comply with the CO emission standard of 2.0 grams/bhp-hr (2.7 grams/kW-hr).

[Compliance with the BAT emission standard of this condition for CO emissions shall be demonstrated through information provided by the manufacturer of the diesel engine emergency generator set.]

[The CO emission standard of this condition is more stringent and streamlines compliance with the CO emission standard of 40 C.F.R. Part 60 Subpart IIII and 40 C.F.R. Part 1039 applicable to this engine.]

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

Visible emissions from diesel engine(s) stacks shall not exceed the following limitations:

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

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Chapter 122, 40 C.F.R. §§ 60.4207(b), and 40 C.F.R. § 1090.305.]

(a) The permittee shall use only diesel fuel oil in each diesel engine.

(b) Diesel fuel oil is defined as ultra-low sulfur diesel fuel oil (ULSD), renewable diesel, or a blend of these fuels, and shall meet the specifications below:

(1) Does not exceed the American Society for Testing and Materials (ASTM) specification, D975, for grade ultra-low sulfur 1-D S15 or grade 2-D S15, or

(2) Has a maximum sulfur content not to exceed 0.0015% by weight (15 ppm), and either a minimum cetane number of forty or maximum aromatic content of thirty-five volume percent.

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

Operating time shall be limited to the following:

500 hours in any 12 consecutive month period for each engine.

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

(a) Any operation of the unit (that involves fuel combustion) for scheduled maintenance checks and readiness testing, source testing, or operational training between the hours of 7 am to 5 pm any day during the ozone season shall only occur if the forecast Air Quality index (AQI) for ozone as published on the AirNow website for Salem Township, PA for that day is less than or equal to 100.

(b) In the event that AirNow-EnviroFlash issues an Air Alert for Salem Township, PA for a day which the forecasted AQI for ozone was less than or equal to 100, operation of each unit (which involves fuel combustion) shall be minimized to the

**SECTION E. Source Group Plan Approval Restrictions.**

maximum extent practical.

Throughput Restriction(s).**# 009 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall limit the annual amount of diesel fuel usage as follows:

$(\text{Group 1 Fuel Usage}/8,110,168 \text{ gallons}) + (\text{Group 2 Fuel Usage}/673,144 \text{ gallons}) + (\text{Group 3 Fuel Usage}/8,375,562 \text{ gallons}) + (\text{Group 4 Fuel Usage}/703,547 \text{ gallons}) + (\text{Group 5 Fuel Usage}/8,444,771 \text{ gallons}) + (\text{Group 6 Fuel Usage}/717,806 \text{ gallons}) + (\text{Group 7 Fuel Usage}/722,806 \text{ gallons}) + (\text{Group 8 Fuel Usage}/1,331,445 \text{ gallons})$ is less than or equal to 1.0

Where:

Group 1 = Source ID 104 engines while the SCR is operating

Group 2 = Source ID 104 engines while the SCR is not operating

Group 3 = Source ID 105 engines while the SCR is operating

Group 4 = Source ID 105 engines while the SCR is not operating

Group 5 = Source ID 106 engines while the SCR is operating

Group 6 = Source ID 106 engines while the SCR is not operating

Group 7 = Source ID 107 engines operating at any time

Group 8 = Source ID 108 engines operating at any time

[Aggregate fuel used by all engines per group, on a 12-month rolling sum basis.]

[DEP reserves the right to revise the denominator values in the above equation, based on the manufacturer's emission data per final engine models selected and installed.]

Control Device Efficiency Restriction(s).**# 010 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

For Source IDs 104, 105, and 106:

- (a) Each engine shall be installed with a CO Oxidation Catalyst control device.
- (b) Each engine shall be installed with Selective Catalytic Reduction control device.
- (c) The permittee shall limit the exhaust ammonia slip at 10 ppmvd, or less corrected at 15% O₂.
- (d) Each engine shall be installed with a Diesel Particulate Filter (DPF).

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

For Source IDs 104, 105, and 106:

(a) Initial compliance with the NO_x, CO, ammonia slip, and opacity emission limits shall be demonstrated through source testing using methods approved by the DEP's Division of Source Testing and Monitoring. Within 180 calendar days of initial operation, no less than 10 percent of the diesel engine generator sets installed of the same manufacturer, model, and engine power rating with the same control device manufacturer will require a source test to demonstrate initial compliance. For Source ID 104, the permittee shall conduct an initial source test on the first two (2) engines to consume renewable diesel fuel oil. The Department reserves the right to require additional stack testing based upon the results of the initial stack test reports.

(b) Compliance testing shall only occur if the forecast Air Quality Index (AQI) for ozone as published on the AirNow website for Salem Township, PA for that day is less than or equal to 100 unless prior approval has been given by DEP.

**SECTION E. Source Group Plan Approval Restrictions.**

- (c) The source test shall be conducted with the diesel engine generator set operating at a minimum of 90% rated capacity.
- (d) During each source test, the permittee shall monitor and record the following information, at a minimum:
- (1) Generator load or kilowatt output,
 - (2) Fuel consumption,
 - (3) Post-control NO_x concentration,
 - (4) Exhaust temperature at the outlet of the SCR control system,
 - (5) Differential pressure drop across the SCR control system,
 - (6) Urea solution injection rate.
- (e) In addition to the specific performance testing requirements included in this permit, DEP may require the permittee to conduct a source test if it is determined that the air contaminant emissions from a source operating under this permit are, or may be, in excess of an applicable air contaminant emission limitation.
- (f) In accordance with 25 Pa. Code § 139.1, the permittee shall provide adequate sampling ports, safe sampling platforms, and adequate utilities for the performance by DEP of tests on the source.
- (g) All testing shall be performed in accordance with any applicable federal regulations, 25 Pa. Code, Chapter 139, the most current version of DEP's Source Testing Manual, or an alternative test method as approved by DEP, and DEP's Source Testing FAQs available at: <https://www.pa.gov/services/dep/air/request-independent-audit-of-source-testing-and-emission-compliance>
- (h) All submittals shall meet the applicable requirements specified in 25 Pa. Code, Chapter 139, the most current version of DEP's Source Testing Manual, and DEP's Source Testing FAQs available at: <https://www.pa.gov/services/dep/air/request-independent-audit-of-source-testing-and-emission-compliance>
- (i) An electronic copy of all reports and protocols shall be submitted to the Air Program Manager of the appropriate DEP Regional Office and to the Pennsylvania Source Test Information Management System (PSIMS) Administrator in DEP's Central Office. Electronic copies should be sent to the appropriate email addresses which can be found at the DEP website.
- (j) At least 90 calendar days prior to commencing a required performance test, a test protocol shall be submitted in accordance with (g), (h) and (i) above for review and approval. The protocol shall clearly state the engine identification and serial number for each diesel engine generator set to be included in the source test.
- (k) At least 30 calendar days prior to commencing a required performance test, notification of the date and time of testing shall be provided to the appropriate DEP Regional Office and the appropriate test protocol reviewer who approved the test plan so that an observer may be present. DEP is under no obligation to accept the results of any testing performed without adequate advance notice to DEP of such testing.
- (l) A complete test report shall be received in accordance with (h) above no later than 60 calendar days after completion of the on site testing portion of a required performance test. The complete test report shall clearly state the engine identification and serial number for each diesel engine generator set included in the source test. The complete test report shall include a summary at the beginning of the report which includes:
- (1) A statement conforming to the requirements of Section 2.1.2.6 of DEP's Source Testing Manual that the owner or operator has reviewed the report from the emissions testing company and agrees with the findings;
 - (2) The conditions that are the basis for the evaluation;
 - (3) A summary of results with respect to each applicable permit condition; and
 - (4) A statement of compliance or non compliance with each applicable permit condition.

012 [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

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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) shall be waived in the event that each time a fuel oil delivery is made, a fuel supplier certification is obtained, and includes the name of the fuel oil supplier and the sulfur content or maximum sulfur content of the fuel oil.

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

[Additional authority for this permit condition is also derived from 40 C.F.R. § 60.4209(a) and 25 Pa. Code Chapter 122.]

The permittee shall install a non-resettable hour meter prior to startup of each engine.

014 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

If you are an owner or operator of a stationary CI internal combustion engine equipped with a diesel particulate filter, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.

015 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

For Source IDs 104, 105, and 106:

(a) The permittee shall continuously monitor the following information, while each diesel-fired engine is in operation:

- (1) SCR catalyst bed temperature,
- (2) Total system differential pressure across the aftertreatment system, inclusive of the DOC, DPF, and SCR,
- (3) NOx concentration measured after the SCR catalyst, expressed in ppm,
- (4) SCR urea dosing rate.

(b) The permittee shall monitor the DPF backpressure while each diesel-fired engine is in operation through the use of an alarm system, notifying the operator when the high backpressure limit of the engine is approached.

(c) The permittee shall monitor the diesel exhaust fluid level of each urea tank through the use of a level sensing alarm system, indicating if the diesel exhaust fluid is approaching a low level.

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

(a) The permittee shall equip each unit with a device to continuously measure and record individual fuel consumption (in gallons) for each diesel engine generator set.

(b) For the engines listed in Source IDs 104, 105, and 106, the permittee shall monitor the fuel usage such that the gallons per hour can be correlated to the SCR reaching minimum operating temperature of 572 degrees Fahrenheit.

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

The permittee shall calculate monthly NOx, CO, SOx, VOC, and particulate matter (total, PM10, and PM2.5) emissions in tons per year from each engine using the following method:

(a) The total monthly fuel usage rate measured by the fuel flow meter in gallons per month multiplied by each pollutant's

**SECTION E. Source Group Plan Approval Restrictions.**

installed model's worst-case emissions factor (in pounds of pollutant per gallon of fuel consumed).

(b) For the engines listed in Source IDs 104, 105, and 106, all post-control emissions factors shall be adjusted based on control efficiencies guaranteed by the control system manufacturer.

(c) For the engines listed in Source IDs 104, 105, and 106, post-control NO_x emission calculations shall be based on the amount of fuel consumed correlating to the SCR reaching a minimum operating temperature of 572 degrees Fahrenheit. NO_x emissions are considered uncontrolled until the catalyst bed of the SCR reaches a temperature that will effectively control emissions (572 degrees Fahrenheit).

IV. RECORDKEEPING REQUIREMENTS.**# 018 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall retain the following records:

(a) fuel oil supplier receipts that indicate the:

- (1) maximum sulfur content; and
- (2) minimum cetane index or maximum aromatic content.

or

(b) fuel oil test results indicating the above if it is not provided with each delivery by the fuel oil supplier.

019 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall maintain records of the description of testing methods, results, all engine operating data collected during the tests and a copy of the calculations performed to determine compliance with emission standards.

020 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

- i. The number of hours per calendar year that each engine or piece of equipment operated using non-resettable hour meter.
- ii. The amount of fuel used per calendar year in each engine or piece of equipment.

021 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

022 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall maintain records of all maintenance (i.e., routine/preventative maintenance, repairs, parts replacement, tune-ups, etc.) performed on the engines or generators. These records shall contain, at a minimum, the following:

- (a) The date of the maintenance.
- (b) Any routine/preventative maintenance performed.
- (c) Any problems or defects.
- (d) Any corrective action(s) taken.

023 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

For Source IDs 104, 105, and 106:

(a) The permittee shall record the following information, on a continuous basis, while each diesel-fired engine is in operation:

- (1) SCR catalyst bed temperature,
- (2) Total system differential pressure across the aftertreatment system, inclusive of the DOC, DPF, and SCR,
- (3) NO_x concentration measured after the SCR catalyst, expressed in ppm,
- (4) SCR urea dosing rate.

**SECTION E. Source Group Plan Approval Restrictions.**

[For continuous recordkeeping, the information shall be recorded at a minimum frequency of once every fifteen minutes and shall be correlated to run date and engine operating hours.]

(b) The permittee shall maintain records of any urea level alarms triggered, including the unit identification, date and time, and the corrective action taken.

024 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall maintain on site copies of all vendor literature and manufacturer recommended operating and maintenance procedures for each control system associated with each engine.

025 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall keep records on site to demonstrate compliance that each engine is EPA certified (i.e. certificate of conformity or Tier certification, etc.) and in compliance with the applicable emission standards as required by 40 C.F.R. § Part 60 Subpart IIII and 40 C.F.R. Part 1039 for the model year and size.

026 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

(a) The permittee shall record the individual fuel consumption (in gallons) for each diesel engine generator set on a monthly and 12-month rolling sum basis.

(b) The permittee shall record the aggregate fuel usage (in gallons) for each engine group, calculated on a 12-month rolling sum basis for the purposes of the compliance demonstration with the diesel fuel throughput limit equation, where:

Group 1 = Source ID 104 engines while the SCR is operating (SCR temperature at least 572 degrees Fahrenheit)

Group 2 = Source ID 104 engines while the SCR is not operating (SCR temperature less than 572 degrees Fahrenheit)

Group 3 = Source ID 105 engine while the SCR is operating (SCR temperature at least 572 degrees Fahrenheit)

Group 4 = Source ID 105 engine while the SCR is not operating (SCR temperature less than 572 degrees Fahrenheit)

Group 5 = Source ID 106 engines while the SCR is operating (SCR temperature at least 572 degrees Fahrenheit)

Group 6 = Source ID 106 engines while the SCR is not operating (SCR temperature less than 572 degrees Fahrenheit)

Group 7 = Source ID 107 engines operating at any time

Group 8 = Source ID 108 engine operating at any time

(c) The permittee shall record the hours of operation of each engine on a monthly an 12-month rolling sum, including the purpose of operation.

027 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

(a) The permittee shall maintain on site copies of all vendor literature and manufacturer recommended operating and maintenance procedures for each engine.

(b) The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

028 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall maintain records of monthly NO_x, CO, SO_x, VOC, and particulate matter (total, PM₁₀, and PM_{2.5}) emissions in tons per year from each engine, including 12-month rolling sums.

029 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall maintain records of all planned non-emergency operation per generator to include:

(a) Purpose of operation,

(b) Duration of operation,

(c) Date of operation,

(d) Frequency of each type of operation per calendar quarter and per calendar year,

(e) Total number of hours of each type of operation per calendar year.

**SECTION E. Source Group Plan Approval Restrictions.****# 030 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

To verify compliance with the operation restrictions of each engine during ozone season, the permittee shall maintain records of the following information:

- (a) The forecasted AQI, as determined by the AirNow website for Salem Township, PA no earlier than 5pm two (2) days prior to planned operation, for ozone for the day(s) that a diesel engine generator set operated during scheduled maintenance checks and readiness testing, stack testing, or operational training,
- (b) The measured AQI, as determined by the AirNow website for Salem Township, PA, for ozone for the day(s) that the diesel engine generator set operated during scheduled maintenance checks and readiness testing, stack testing, or operational training,
- (c) Documentation recording any Air Alerts issued for the operating day, as determined by AirNow-EnviroFlash, and
- (d) Details of scheduled maintenance checks and readiness testing, stack testing, or operational training activities, to include, but not limited to, clock hours and duration.

031 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4209]**Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are the monitoring requirements if I am an owner or operator of a stationary CI internal combustion engine?**

[Additional authority for this permit condition is also derived from 25 Pa. Code Chapter 122.]

The permittee shall maintain records of any corrective action taken after the backpressure monitor has notified the permittee that the high backpressure limit of any diesel-fired engine equipped with a DPF is approached.

V. REPORTING REQUIREMENTS.**# 032 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

- (a) The permittee shall maintain reports of the following:
 - ii. Copies of the report that demonstrates that the engines were operating at rated brake horsepower and rated speed conditions during performance testing.
 - iii. Submittal of reports in accordance with the requirements and schedules outlined in this plan approval.
- (b) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request. The Department reserves the right to expand the list contained in this condition as it may reasonably prescribe pursuant to the provisions of Section 4 of the Pennsylvania Air Pollution Control Act (35 P. S. §§4004), and as it may deem necessary to determine compliance with any condition contained herein.

033 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Upon receipt of the first shipment of renewable diesel or a blend of renewable diesel and ULSD, the permittee shall furnish written notification the following information to DEP:

- (a) The actual date on which the shipment was received within thirty (30) days after such date,
- (b) Name and address of the permittee,
- (c) Engine generator sets (with Source ID and unit reference numbers) utilizing the fuel in the shipment, and
- (d) Fuel certification.

034 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4214]**Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?**

The permittee shall comply with all applicable conditions pursuant to 40 CFR §60.4214.

**SECTION E. Source Group Plan Approval Restrictions.****VI. WORK PRACTICE REQUIREMENTS.****# 035 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

All emergency stationary ICE shall comply with the following requirements:

(1) The stationary ICE is operated to provide electrical power or mechanical work during an emergency situation. Examples include stationary ICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary ICE used to pump water in the case of fire or flood, etc.

(2) The stationary ICE is operated under limited circumstances for situations not included in paragraph (1) of this definition, as specified in § 60.4211(f).

(3) The stationary ICE operates as part of a financial arrangement with another entity in situations not included in paragraph (1) of this definition only as allowed in § 60.4211(f)(3)(i).

036 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Each stationary CI internal combustion engine must have a permanent label stating that the engine is for stationary emergency use only.

037 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards over the entire life of the engine(s).

038 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall operate the following control devices in accordance with written manufacturer specifications when the engine is in operation for any reason:

- (a) Selective Catalytic Reduction (SCR) control device,
- (b) Diesel Particulate Filter (DPF) control device,
- (c) Diesel Oxidation Catalyst (DOC) control device.

039 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

For Source IDs 104, 105, and 106:

The permittee shall treat the engine exhaust gas with urea when the catalyst bed exhaust temperature reaches 572°F.

[DEP reserves the right to revise the minimum temperature value of this condition, based on the manufacturer's specifications per final control system make and models selected and installed.]

040 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

For Source IDs 104, 105, and 106:

- (a) The permittee shall install, maintain, calibrate, and operate each control system monitoring device in accordance with approved procedures which shall include, at a minimum, the manufacturer's written requirements or recommendations.
- (b) The permittee shall provide adequate access to each monitoring device for inspection.
- (c) The permittee shall operate each monitoring device when the SCR, DOC, and DPF are operating.
- (d) Each monitoring device shall be equipped with a mechanism to detect parameters that are outside of the manufacturer's recommended operating conditions for proper operation and trigger an alarm to notify the operator with the emergency generator or control device is not operating within manufacturer's recommended operating conditions.

**SECTION E. Source Group Plan Approval Restrictions.****# 041 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

For Source IDs 104, 105, and 106:

(a) The permittee shall maintain the urea concentration in the diesel exhaust fluid storage tank for each SCR control device within the range recommended by the SCR control device manufacturer for proper operation.

(b) The permittee shall dilute or replenish the diesel exhaust fluid as needed to maintain the urea concentration within the manufacturer's recommended range.

042 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

(a) The permittee shall install, maintain, calibrate, and operate the fuel flow and hour meter monitoring devices in accordance with the manufacturer's written requirements or recommendations.

(b) The permittee shall provide adequate access to each monitoring device for inspection, and shall operate each monitoring device when the source is in operation.

043 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall obtain a certification from the fuel supplier with each shipment of diesel fuel oil. Each fuel supplier certification shall include the following:

- (a) The name of the fuel supplier,
- (b) The date on which the diesel fuel oil was received,
- (c) The quantity of diesel fuel oil delivered in the shipment, and
- (d) A statement that the diesel fuel oil complies with the requirements specified in the Fuel Restriction Condition listed in this permit.

044 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall clearly label and identify each emergency generator set in accordance with the source identification and nomenclature specified in this permit (i.e. CEG1, HG1, etc.). Labels must be durable, legible, and permanently affixed to each engine. Identification shall also include the designated Source ID as provided in Section A of this permit to ensure proper compliance tracking and regulatory oversight.

045 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall take measures in order to minimize the duration and frequency of excess emissions, including the following:

- (a) Develop a maintenance schedule and maintain records of all scheduled and nonscheduled maintenance.
- (b) Maintain an inventory of spare parts.
- (c) Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
- (d) Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures, prior to their first operation of such equipment.

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

- (1) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;
- (2) Change only those emission-related settings that are permitted by the manufacturer; and

**SECTION E. Source Group Plan Approval Restrictions.**

(3) Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you.

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

(f) If you own or operate an emergency stationary ICE, you must operate the emergency stationary ICE according to the requirements in paragraphs (f)(1) through (3) of this section. In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (3), is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (3), the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

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

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

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

(ii)–(iii) [Reserved]

(3) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in paragraph (f)(2) of this section. Except as provided in paragraph (f)(3)(i) of this section, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

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

- (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.

(ii) [Reserved]

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

**SECTION E. Source Group Plan Approval Restrictions.**

(1) If you are an owner or operator of a stationary CI internal combustion engine with maximum engine power less than 100 HP, you must keep a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, if you do not install and configure the engine and control device according to the manufacturer's emission-related written instructions, or you change the emission-related settings in a way that is not permitted by the manufacturer, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of such action.

(2) If you are an owner or operator of a stationary CI internal combustion engine greater than or equal to 100 HP and less than or equal to 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer.

(3) If you are an owner or operator of a stationary CI internal combustion engine greater than 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. You must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

VII. ADDITIONAL REQUIREMENTS.**# 047 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The engines contained in this Group are subject to the Standards of Performance for New Stationary Sources Subpart IIII and shall comply with all applicable requirements of this Subpart. In accordance with 40 C.F.R. § 60.4, copies of all requests, reports, applications, submittals, and other communications are required to be submitted to both the EPA (NSPS reports may be submitted electronically to EPA's Central Data Exchange: <https://cdx.epa.gov/>) and to DEP via Greenport (<https://greenport.pa.gov/ePermitPublicAccess/PublicSubmission/ValidatePublicSubmission>).

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Plan Approval facility.

**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.

**SECTION H. Miscellaneous.**

Additional sources of minor significance according to 25 Pa. Code 127.14(a)(8) include;

- One-hundred and nine (109) diesel/renewable diesel belly storage tanks
- Four (4) 12,000-gallon above ground diesel/renewable diesel storage tanks

General Permits include:

GP11-40-043 for temporary nonroad standby generators.



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