COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date: November 3, 2026 Effective Date: November 3, 2026

Expiration Date: April 30, 2028

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. 54-00073A

Federal Tax Id - Plant Code: 05-0565958-2

Owner Information

Name: INGENCO WHOLESALE POWER LLC
Mailing Address: 201 HELIOS WAY
HOUSTON, TX 77079-2678

Plant Information

Plant: INGENCO WHOLESALE POWER LLC/PINE GROVE TWP
Location: 54 Schuylkill County 54948 Pine Grove Township
SIC Code: 4931 Trans. & Utilities - Electric And Other Services Combined

Responsible Official

Name: STEVEN BOOR
Title: SR VP OPERATIONS
Phone: (970) 749 - 9287 Email: Sboor@archaea.energy

Plan Approval Contact Person

Name: STEVEN BOOR
Title: SR VP OPERATIONS
Phone: (970) 749 - 9287 Email: Sboor@archaea.energy

[Signature] _____

MARK J. WEJKSZNER, NORTHEAST REGION AIR PROGRAM MANAGER

Plan Approval Description

This Plan Approval is for limiting the type of fuel fired to only biodiesel and diesel fuel for the engines and the installation of three (3) oxidation catalysts at the existing INGENCO engine plant facility located in Pine Grove Borough, Schuylkill County, Pennsylvania. The engines at Ingenco were currently permitted to combust a combination of landfill gas (LFG), biodiesel, and diesel to generate electricity.

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

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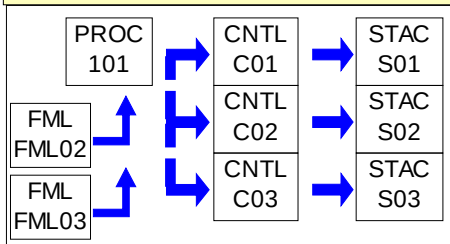
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SECTION A. Plan Approval Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
101	18 ENGINES - 477 BHP EACH	3.600 MMBTU/HR	
C01	OXIDATION CATALYST		
C02	OXIDATION CATALYST		
C03	OXIDATION CATALYST		
FML02	# 2 FUEL OIL		
FML03	BIODIESEL FUEL		
S01	STACK - 6 ENGINES		
S02	STACK - 6 ENGINES		
S03	STACK - 6 ENGINES		

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

Each source shall submit reports to the Department containing the information the Department may prescribe relative to the operation and maintenance of the source.

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:

SECTION B. General Plan Approval 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:

(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

The permittee may not permit the emission into the outdoor atmosphere of a 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.
(g) Sources and classes of sources other than those identified in paragraphs (a)-(f), for which the operator 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

The permittee may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in Site Level Condition #001 (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

MALODOR EMISSIONS

The permittee 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

VISIBLE EMISSIONS

(a) 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:

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

(b) The limitations of section (a) shall not apply to a visible emission in any of the following instances:

(1) When the presence of uncombined water is the only reason for failure of the emission to meet the limitations.
(2) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emission.
(3) When the emission results from sources specified in Site Level Condition #001 (relating to prohibition of certain fugitive emissions).

 # 005 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The permittee shall limit the emissions from the facility during any consecutive 12-month period to the following:

(1) Particulate - 99.9 tons/year.
(2) Nitrogen Oxides (NOx) as NO2 - 99.9 tons/year.

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(3) Sulfur Dioxide (SOx) - 99.9 tons/year.
(4) Carbon Monoxide (CO) - 99.9 tons/year.
(5) Volatile Organic Compounds (VOC) - 49.9 tons/year.
(6) Hazardous Air Pollutants (Single HAP) - 9.9 tons/year.
(7) Hazardous Air Pollutants (Combined HAP's) - 24.9 tons/year.

II. TESTING REQUIREMENTS.

 # 006 [25 Pa. Code §123.43]

Measuring techniques

Visible emissions may be measured using either of the following:

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

(2) Observers, trained and qualified to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

 # 007 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

If at any time the Department has cause to believe that air contaminant missions from the aforementioned source(s) may be in excess of the limitations specified in, or established pursuant to, any applicable rule or regulation contained in Article III of the Rules and Regulations of the Department of Environmental Protection, the company shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s). Such testing shall be conducted in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection, where applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notified the company that testing is required.

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

 # 008 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

a) Any changes in the location of any sources, or changes in the process or control equipment would be considered a modification and would require the submittal of an amended application for plan approval in accordance with the provisions of 25 Pa. Code Section 127.11 and 127.12.

b) Any notification as a result of any condition herein should be directed to:

Air Quality Program Manager
2 Public Square
Wilkes-Barre, PA 18711-0790

 # 009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee, within one (1) hour of discovery of an occurrence, shall notify the Department (either by phone at 570-826-2511(Wilkes_Barre) or e-mail (to the Regional Air Manager)) of any malfunction, recordkeeping or reporting errors, or other possible non-compliance issues, which reasonably is believed to either result in or possibly result in, the emission of air

SECTION C. Site Level Plan Approval Requirements

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.

A written report shall be submitted to the Department within five working days following the initial notification describing the incident and the corrective actions taken or to be taken. The Department may take enforcement action for any violations of the applicable standards.

 # 010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any notification required by the Department required as a result of any condition herein should be directed to:

Mark J Wejkszner
Program Manager
Department of Environmental Protection
Air Quality Program
2 Public Square
Wilkes-Barre, PA 18711-0790

and

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

VI. WORK PRACTICE REQUIREMENTS.

 # 011 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

The permittee 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 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, oil, water or suitable chemicals on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
(c) Paving and maintenance of roadways.
(d) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

 # 012 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The sources within this plan approval may only be operated as long as the associated air pollution control device(s) are operated and maintained in accordance with the specifications set forth in the respective plan approval(s), and the application(s) submitted for said plan approval(s) (as approved by the Department), and in accordance with any conditions set forth herein.

 # 013 [25 Pa. Code §129.14]

Open burning operations

(a) Air basins. No person may permit the open burning of material in an air basin.

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

(1) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.

SECTION C. Site Level Plan Approval Requirements

(2) A fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
(3) A fire set for the prevention and control of disease or pests, when approved by the Department.
(4) A fire set in conjunction with the production of agricultural commodities in their mnmanufactured state on the premises of the farm operation.
(5) A fire set for the purpose of burning domestic refuse, when the fire is on the premises of a structure occupied solely as a dwelling by two families or less and when the refuse results from the normal occupancy of such structure.
(6) A fire set solely for recreational or ceremonial purposes.
(7) A fire set solely for cooking food.

(c) Clearing and grubbing wastes. The following is applicable to clearing and grubbing wastes:

(1) As used in this subsection the following terms shall have the following meanings:

Air curtain destructor -- A mechanical device which forcefully projects a curtain of air across a pit in which open burning is being conducted so that combustion efficiency is increased and smoke and other particulate matter are contained.

Clearing and grubbing wastes -- Trees, shrubs, and other native vegetation which are cleared from land during or prior to the process of construction. The term does not include demolition wastes and dirt laden roots.

(2) Subsection (a) notwithstanding, clearing and grubbing wastes may be burned in a basin subject to the following requirements:

(i) Air curtain destructors shall be used when burning clearing and grubbing wastes.
(ii) Each proposed use of air curtain destructors shall be reviewed and approved by the Department in writing with respect to equipment arrangement, design and existing environmental conditions prior to commencement of burning. Proposals approved under this subparagraph need not obtain plan approval or operating permits under 25 Pa. Code, Chapter 127 (relating to construction modification, reactivation and operation of sources).
(iii) Approval for use of an air curtain destructor at one site may be granted for a specified period not to exceed 3 months, but may be extended for additional limited periods upon further approval by the Department.
(iv) The Department reserves the right to rescind approval granted if a determination by the Department indicates that an air pollution problem exists.

(3) During an air pollution episode, open burning is limited by 25 Pa. Code, Chapter 137 (relating to air pollution episodes) and shall cease as specified in such chapter.

VII. ADDITIONAL REQUIREMENTS.

 # 014 [25 Pa. Code §127.12b]
Plan approval terms and conditions.
The company shall maintain and operate the sources in accordance with good engineering practices.

 # 015 [25 Pa. Code §127.12b]
Plan approval terms and conditions.
The company shall not impose conditions upon or otherwise restrict the Department's access to the sources and/or any asociated air cleaning device(s) and shall allow the Department to have access at any time to the sources and associated air cleaning device(s) 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.

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: 101 Source Name: 18 ENGINES - 477 BHP EACH

Source Capacity/Throughput: 3.600 MMBTU/HR



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The facility shall only be operated with the engines operating in the following mode:

(1) Mode A - .One of more engines shall be operating at maximum production on No. 2 fuel oil (Diesel) or biodiesel fuel

(2) Mode B – One or more engines operating at less than maximum or normal operating load, as necessary to satisfy facility electrical demand or other operational requirements on No. 2 fuel oil (Diesel) or biodiesel fuel

 # 002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The permittee shall limit the emissions from the engines to the following:

(1) Particulate - 0.31 pounds per MMBtu.

(2) Nitrogen Oxides (NOx) as NO2 - 2.3 pounds per MMBtu.

(3) Sulfur Dioxide (SOx) - 0.29 pounds per MMBtu.

(4) Carbon Monoxide (CO) - 3.1 pounds per MMBtu.

(5) Volatile Organic Compounds (VOC) - 0.3 pounds per MMBtu.

 # 003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The permittee shall limit the emissions into the outdoor atmosphere of the visible air contaminants in such a manner that the opacity of the emissions is either of the following:

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

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

SECTION D. Source Level Plan Approval Requirements

 # 004 [25 Pa. Code §127.12b]
Plan approval terms and conditions.

The SOURCE ID 101 engines are subject to 40 CFR Part 63 Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Source Categories (NESHAP) and shall comply with all applicable requirements of this Subpart including the applicable portions of the General Provisions as described in 40 CFR Part 63 Subpart A.

All notifications, requests, reports and other communications required under the Subpart shall be sent to both the Deparment and EPA. The EPA copies shall be forwarded to:

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

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

Each engine shall be limited to a maximum annual heat input of 5,350 MMBtu/year, equivalent to 1,486 hours of operation per year based on a maximum heat input rate of 3.600 MMBtu/hour. Compliance with this limitation may be demonstrated using either the annual heat-input limit or the corresponding annual operating-hour limit, as applicable.

 # 006 [25 Pa. Code §127.12b]
Plan approval terms and conditions.

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

 # 007 [25 Pa. Code §127.12b]
Plan approval terms and conditions.

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.1, the permittee shall not allow the emission into the outdoor atmosphere of total particulate matter (TPM) from engines in a manner that the concentration of TPM in the effluent gas exceeds 0.02 grain per dry standard cubic foot.

Fuel Restriction(s).

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

(a) The permittee is permitted to fire only the following fuels:

(1) No. 2 Fuel Oil.

(2) Biodiesel.

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

A fuel analysis certification shall be obtained for each delivery of liquid fuel intended for use by the electrical generating facility.

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

The permittee shall not combust fuel with a sulfur content in excess of 0.0015% by weight (15 ppm)

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Throughput Restriction(s).

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

The permittee shall operate the engines within the defined modes of operation at all times except during periods of start-up, shutdown and malfunction. An engine's start-ups and/or shutdowns shall not last longer than 30 minutes at any one time. If the permittee cannot correct a malfunction within 30 minutes of the start, the engine shall be shutdown. The permittee shall determine the emissions during these periods. These emissions shall be included in source, facility, and combined totals.

II. TESTING REQUIREMENTS.

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

(a) At least 60 days prior to testing, the permittee shall submit to the Department for approval, the procedure for the testing and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.

(b) At least 30 days prior to testing, the Regional Air Quality Program Manager or representative shall be informed of the date and time of the testing.

(c) At least 60 days after source testing, two (2) copies of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Program Manager or representative for approval.

(d) The permittee shall conduct a stack test for emissions utilizing methodology outlined in 25 Pa. Code Section 139 and the Department's Source Testing Manual or by other means approved by the Department. The source testing shall be performed while the applicable engines are operating at the maximum achievable operating rate under normal operating conditions, representative of the maximum permitted operating conditions. One set of engines will be tested in Mode A. Visible emissions evaluations will be conducted concurrently with emissions testing on the set of engines group being tested in Mode A. The source test shall be for:

(1) Visible emissions.

(2) Nitrogen Oxides (NOx) as NO2.

(3) Carbon Monoxide (CO).

(4) Volatile Organic Compounds (VOC).

(5) Formaldehyde.

(6) Hazardous Air Pollutants (HAP).

(e) Visible emissions evaluations will be conducted concurrently with emissions testing on the set of engines being tested.

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

1. Within 180 days of initial start-up, a stack test shall be performed in accordance with the provision of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection & 40 CFR part 60, Subpart IIII, to demonstrate the compliance with the emission limitations set by the conditions above for each engine for NOx, CO, VOC and formaldehyde emissions. The stack tests shall be performed while the aforementioned sources are operating at the maximum rated capacity as stated on the application. If testing is performed at a rate of less than full production, operation is restricted to the process-input rate of testing at such level until a subsequent compliance test is performed at a full production.

2. At least ninety (90) calendar days prior to commencing an emission testing program required by this permit, a test

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protocol shall be submitted to the Department's Division of Source Testing and Monitoring and the Regional Office for review and approval. The test protocol shall meet all applicable requirements specified in the most current version of the Department's
Source Testing Manual.

3. At least fifteen (15) calendar days prior to commencing an emission testing program required by this permit, written notification of the date and time of testing shall be provided to the Department's appropriate Regional Office. Written notification shall also be sent to the Department's Bureau of Air Quality, Division of Source Testing and Monitoring. The notification shall not be made without prior receipt of a protocol acceptance letter from the Department. The Department is under no obligation to accept the results of any testing performed without adequate advance written notice to the Department of such testing. In addition, the emissions testing shall not commence prior to receipt of a protocol acceptance letter from the Department.

4. A complete test report shall be submitted to the Department no later than sixty (60) calendar days after completion of the on-site testing portion of an emission test program.

5. A complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or non-compliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:

a. A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings;

b. Permit number(s) and condition(s) which are the basis for the evaluation;

c. Summary of results with respect to each applicable permit condition; and

d. Statement of compliance or non-compliance with each applicable permit condition.

 # 014 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Actions Related to Noncompliance Demonstrated by a Stack Test:

(a) If the results of a stack test, performed as required by this approval, exceed the level specified in any condition of this approval, the Permitee shall take appropriate corrective actions. Within 30 days of the Permitee receiving the stack test results, a written description of the corrective actions shall be submitted to the Department. The Permitee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. The Department shall notify the permittee within 30 days, if the corrective actions taken are deficient. Within 30 days of receipt of the notice of deficiency, the Permitee shall submit a description of additional corrective actions to the Department. The Department reserves the authority to use enforcement activities to resolve noncompliant stack tests.

(b) If the results of the required stack test exceed any limit defined in this plan approval, the test was not performed in accordance with the stack test protocol or the source and/or air cleaning device was not operated in accordance with the plan approval, then another stack test shall be performed to determine compliance. Within 120 days of the Permitee receiving the original stack test results, a retest shall be performed. The Department may extend the retesting deadline if the Permitee demonstrates, to the Department's satisfaction, that retesting within 120 days is not practicable. Failure of the second test to demonstrate compliance with the limits in the plan approval, not performing the test in accordance with the stack test protocol or not operating the source and/or air cleaning device in accordance with the plan approval may be grounds for immediate revocation of the plan approval to operate the affected source.

 # 015 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

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

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III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

 # 016 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The permittee shall record the following:

(1) Monthly amount of each fuel fired in the engines.

(2) Fuel analysis and certifications for sulfur.

(3) 12-month rolling total amount of each fuel fired in the engines.

(4) Monthly hours of operation.

(5) Monthly emissions of particulate, NOx, SOx, CO, VOC and HAPs including formaldehyde.

(6) 12-month rolling total emissions of particulate, NOx, SOx, CO, VOC and HAPs including formaldehyde.

 # 017 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall calculate the emissions from the engines using the rates found in the application, or as approved by the Department. The emission rates may be reviewed after results of testing are approved by the Department. Emission rates from approved test results shall be used to calculate emissions once approved.

 # 018 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall record each start-up, shutdown and malfunction of the engines. The permittee shall also maintain records on all tune-ups, maintenance, and/or adjustments performed on the engines.

The records shall include the date, time, duration and type of event.

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).

VI. WORK PRACTICE REQUIREMENTS.

 # 019 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The permittee shall perform an annual adjustment and/or tune-up on each unit which shall include the following:

(1) Inspection, adjustment, cleaning or replacement of combustion equipment, including stationary and moving parts necessary for proper operation as specified by the manufacturer.

(2) Performance and documentation of annual maintenance or inspections necessary to ensure proper operations to minimize emissions of NOx, and to the extent practicable minimize emissions of CO.

(3) Sampling of the final NOx and CO emission rates. This sampling shall be conducted with portable metering equipment in accordance with applicable manufacturer's calibrating and operating procedures.

SECTION D. Source Level Plan Approval Requirements

(4) Verification and documentation that the Engine Control Modules are set correctly and /or the software is programmed.

VII. ADDITIONAL REQUIREMENTS.

 # 020 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

These engines are DETROIT DIESEL SERIES 60 compression ignition engines with a 477 bhp rating.

 # 021 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The Department may require the permittee to determine the ambient impact of any HAP's found in excess of their detection level in the exhaust from the engines. This determination shall be conducted in accordance with the Department's guidelines.

 # 022 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The Diesel fired fire engines are subject to 40 CFR, Part 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines and the permittee shall comply with all applicable requirements of the subpart.

 # 023 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The diesel engines shall comply with all applicable requirements as specified in National Emission Standards for Hazardous Air Pollutants, 40 CFR Part 63, Subpart ZZZZ.

SECTION E. Source Group Plan Approval Restrictions.

SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this Plan Approval facility.

SECTION G. Emission Restriction Summary.

No emission restrictions listed in this section of the permit.

SECTION H. Miscellaneous.

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