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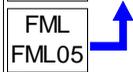
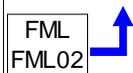
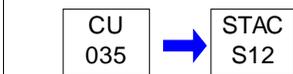
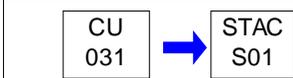
- F-I: Restrictions
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**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
031	BLDG 5 C-B BOILERS 1 & 2	16.800 MMBTU/HR	
		16,324.000 MMCF/HR	Natural Gas
035	BLDG 4 C-B BOILER 08 WITH LNB AND FGR	16.700 MMBTU/HR	
		16,735.000 MMCF/HR	Natural Gas
		31.970 Gal/HR	#2 Oil
036	BLDG 4 C-B BOILER 09 WITH LNB AND FGR	20.900 MMBTU/HR	
		20,924.000 MMCF/HR	Natural Gas
		40.070 Gal/HR	#2 Oil
100	EXEMPT EMERGENCY GENERATORS	N/A	#2 Oil
		N/A	Natural Gas
107	BLDG 4 GENERATOR (CATERPILLAR)	135.500 Gal/HR	#2 Oil
109	BLDG 4, 2MW, 78D	138.400 Gal/HR	#2 Oil
114	BLDG 10 EMERGENCY ELECTRIC GENERATOR, 750 KW	52.700 Gal/HR	#2 Oil
C107	OXIDATION CATALYST		
C109	OXIDATION CATALYST		
FML01	#2 FUEL OIL TANKS		
FML02	ABOVEGROUND #2 FUEL OIL TANK		
FML05	NATURAL GAS SUPPLY		
S01	BLDG 5 BOILER STACK		
S10	BLDG 4 CATERPILLAR EG STACK		
S100	EXEMPT EMERGENCY GENERATORS STACKS		
S109	BLDG 4 DETROIT ELEC GEN STACK		
S114	BLDG 10, 750 KW ELECTRIC GENERATOR STACK		
S12	BLDG 4 C-B BOILER STACK		

PERMIT MAPS

PERMIT MAPS

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

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

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

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

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

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

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

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

SECTION B. General State Only Requirements

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

SECTION B. General State Only Requirements

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(1) Section 127.14 (relating to exemptions)

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The permittee shall not permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. Section 4003).

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

(a) The permittee shall not permit the emission into the outdoor atmosphere of fugitive air contaminant from a source other than the following:

- (1) Construction or demolition of buildings or structures.
- (2) Grading, paving and maintenance of roads and streets.
- (3) 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.
- (4) Clearing of land.
- (5) Stockpiling of materials.
- (6) Open burning operations.
- (7) Blasting in open pit mines. Emissions from drilling are not considered as emissions from blasting.
- (8) Coke oven batteries, provided the fugitive air contaminants emitted from any coke oven battery comply with the standards for visible fugitive emissions in § § 123.44 and 129.15 (relating to limitations of visible fugitive air contaminants from operation of any coke oven battery; and coke pushing operations).
- (9) Sources and classes of sources other than those identified in paragraphs (1)-(8), for which the operator has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (i) the emissions are of minor significance with respect to causing air pollution; and
 - (ii) the emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

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

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

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

{MALODOR EMISSIONS}

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

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

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

**SECTION C. Site Level Requirements**

(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.

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

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

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

(b) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.

(c) When the emission results from the sources specified in 25 Pa. Code § 123.1(a)(1)-(9) (relating to prohibition of certain fugitive emissions).

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

The permittee shall limit the total facility wide emissions to less than the following calculated on a 12-month rolling sum:

NOx - less than 24.90 tons per year

SOx - less than 17.00 tons per year

PM - less than 3.97 tons per year

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

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

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

(b) Any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.

(c) A fire set solely for cooking food.

(d) A fire set solely for recreational or ceremonial purposes.

(e) A fire set for the prevention and control of disease or pests, when approved by the Department.

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

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

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

**SECTION C. Site Level Requirements****III. MONITORING REQUIREMENTS.****# 010 [25 Pa. Code §123.43]****Measuring techniques**

{VISIBLE EMISSION MONITORING}

The permittee shall measure visible emissions 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.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.511]

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

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

The permittee shall calculate the total facility wide NO_x, SO_x and PM emissions monthly and on a 12-month rolling sum.

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

The permittee shall keep records of the total facility wide NO_x, SO_x and PM emissions monthly and on a 12-month rolling sum.

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

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

**SECTION C. Site Level Requirements**

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

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

- (a) The permittee shall notify the Department at 484-250-5920 within two (2) hours of discovery of the occurrence of any malfunction of the sources or associated air pollution control devices which results in or may possibly result in the emission of air contaminants in excess of the limitations specified in this permit or of a regulation contained in 25 Pa. Code Article III.
- (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 permit 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 two (2) working days following the notification of the incident, and shall describe the following:
 - (1) The malfunction(s).
 - (2) The emission(s).
 - (3) The duration.
 - (4) Any corrective action taken.

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

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

- (a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).
- (b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the threshold quantity at a facility. The permittee shall submit the RMP to the federal Environmental Protection Agency according to the following schedule and requirements:
 - (1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:
 - (i) Three years after the date on which a regulated substance is first listed under 40 CFR § 68.130; or,
 - (ii) The date on which a regulated substance is first present above a threshold quantity in a process.
 - (2) The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.
 - (3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.
- (c) As used in this permit condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

**SECTION C. Site Level Requirements**

(d) If this facility is subject to 40 CFR Part 68, as part of the certification required under this permit, the permittee shall:

(1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,

(2) Certify that this facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.

(e) If this facility is subject to 40 CFR Part 68, the permittee shall maintain records supporting the implementation of an accidental release program for five (5) years in accordance with 40 CFR § 68.200.

(f) When this facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and 40 CFR Part 68, appropriate enforcement action will be taken by the Department if the permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.

VI. WORK PRACTICE REQUIREMENTS.**# 017 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

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

(a) use, where possible, of water or suitable chemicals, for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land;

(b) application of asphalt, water, or other suitable chemicals, on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts;

(c) paving and maintenance of roadways; 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.

018 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

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

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

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

VII. ADDITIONAL REQUIREMENTS.

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

VIII. COMPLIANCE CERTIFICATION.

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

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

SECTION D. Source Level Requirements

Source ID: 031

Source Name: BLDG 5 C-B BOILERS 1 & 2

Source Capacity/Throughput: 16.800 MMBTU/HR

16,324.000 MMCF/HR Natural Gas

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.22]****Combustion units**

The permittee shall not permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from each boiler listed under this Source ID, in excess of 1.2 pounds per million Btu of heat input.

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

The permittee shall not exceed the following emission limits:

- (a) Nitrogen Oxide (NO_x) emissions for each boiler shall not exceed 0.1 lb/MMBtu heat input.
- (b) Total combined NO_x emissions for both boilers shall not exceed 6.99 tons per year, calculated on a 12-month rolling sum.
- (c) Total combined Carbon Monoxide (CO) emissions for both boilers shall not exceed 5.87 tons per year, calculated on a 12-month rolling sum.
- (d) Particulate Matter (PM) emissions from each boiler shall not exceed 0.005 lb/MMBtu heat input.
- (e) There shall be no increase in steam output of the Building 5 boilers, beyond the output corresponding to one boiler operating at its maximum capacity. One or both boilers may be operated to meet the steam demand, provided that the short term (lbs/hr) emissions do not exceed the equivalent emissions of one boiler operating at its maximum capacity.

[Compliance with paragraph (d) above demonstrates compliance with 25 Pa. Code § 123.11]

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

- (a). The permittee shall only use natural gas as fuel for the two boilers listed under this Source ID.
- (b). The permittee shall limit the total combined natural gas usage for the two boilers listed under this Source ID to less than 143 MMCF per year, calculated on a 12-month rolling sum.

II. TESTING REQUIREMENTS.

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

SECTION D. Source Level Requirements**III. MONITORING REQUIREMENTS.****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the following on a monthly basis for each boiler listed under this Source ID:

- (a) the total combined fuel usage,
- (b) the hours of operation,
- (c) The amount of steam demand on the Building 5 boilers in pounds of steam.

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

The permittee shall keep records of the following:

- (a) the total combined fuel usage for both boilers on a monthly basis,
- (b) hours of operation for each boiler on a monthly basis,
- (c) The total combined NO_x and CO emissions for both boilers, calculated monthly and on a 12-month rolling sum.
- (d) The amount of steam demand on the building 5 boilers in pounds of steam.

[Compliance with paragraph (a) above, demonstrates compliance with 40 C.F.R. § 60.48c(g)(2)]

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

[Additional Authority for this permit condition is also derived from 40 C.F.R. Part 60, Subpart Dc]

a. Pursuant to 40 C.F.R. Section 60.4, the permittee shall submit copies of all requests, reports, applications, submittals, and other communications to both EPA and the appropriate Regional Office of the Department. The EPA copies shall be forwarded to:

Director Air, Toxics and Radiation Division
U.S. EPA, Region III
1650 Arch Street
Philadelphia, PA 19103-2029

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.**# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.93.]

The permittee shall operate and maintain each boiler listed under this Source ID in accordance with manufacturer's specifications.

**SECTION D. Source Level Requirements****# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee has the option to operate one boiler or both boilers simultaneously.

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

This Source ID (031), consists of two identical boilers, located in building 5, manufactured by Cleaver Brooks, Model No. CB 700-400 with a maximum rated heat input of 16.8 MMBTU/HR, burning natural gas and installed April 1, 1990.

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

If the permittee intends to switch fuels from natural gas to No. 2 fuel oil or any other fuel which may result in the applicability of 40 C.F.R. 63 Subpart JJJJJJ, the permittee must provide 30 days prior notice of the date upon which the fuel switch will occur. The notification must identify:

- (a) The name of the owner or operator of the affected source, the location of the source, the boiler(s) that will switch fuels, and the date of the notice.
- (b) The currently applicable subcategory under this subpart.
- (c) The date on which the permittee becomes subject to the currently applicable standards.
- (d) The date upon which the permittee will commence the fuel switch.

[Compliance with this condition assures compliance with 40 C.F.R. 63.11225(g)]

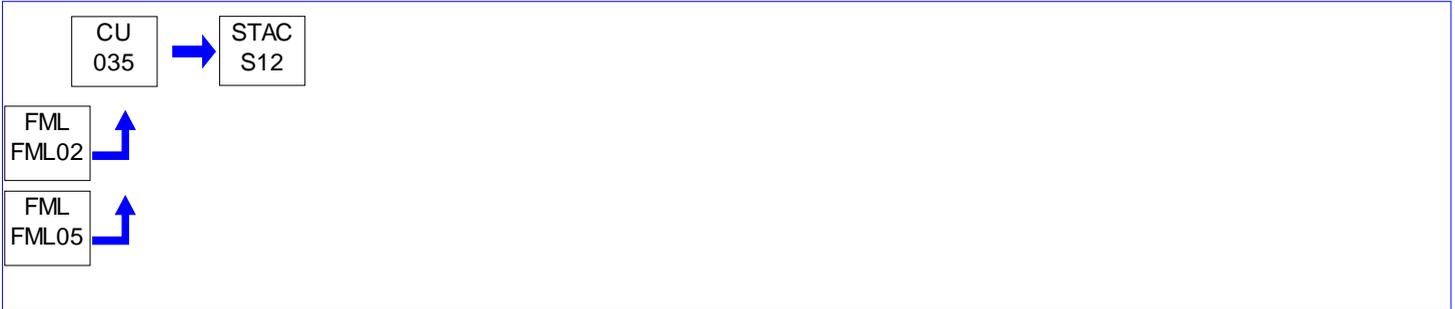
SECTION D. Source Level Requirements

Source ID: 035

Source Name: BLDG 4 C-B BOILER 08 WITH LNB AND FGR

Source Capacity/Throughput:	16.700	MMBTU/HR	
	16,735.000	MMCF/HR	Natural Gas
	31.970	Gal/HR	#2 Oil

Conditions for this source occur in the following groups: 3
4
5

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall limit the natural gas fuel usage to less than 146.6 million cubic feet (MMCF) per year and 104,244 gallons or less of No. 2 fuel oil per year calculated on a 12-month rolling sum.

(b) By complying with the No.2 fuel oil limit of 104,244 gallons or less per year calculated on a 12-month rolling sum, the permittee is complying with the requirements for "Limited Use Boilers" as specified under 40 C.F.R. Part 63 Subpart JJJJJJ. The No.2 fuel oil limit is an annual capacity factor of not more than 10% of the liquid fuel that the boiler is capable of burning.

II. TESTING REQUIREMENTS.

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

SECTION D. Source Level Requirements**VI. WORK PRACTICE REQUIREMENTS.****# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall operate and maintain the boiler and the associated control devices in accordance with manufacturer's specifications and good air pollution control practices.

[Compliance with this condition assures compliance with 40 C.F.R. § 63.11205(a)]

VII. ADDITIONAL REQUIREMENTS.**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

This Source ID (035) consists of a Cleaver Brook boiler, model number CBI-700-400-150, equipped with and shall use a low NOx burner and flue gas recirculation, maximum rated heat input of 16.74 MM Btu/hr.

In accordance with 40 C.F.R. §63.11237, this boiler is considered a Limited-use boiler which means any boiler that burns any amount of solid or liquid fuels and has a federally enforceable average annual capacity factor of no more than 10 percent.

SECTION D. Source Level Requirements**VI. WORK PRACTICE REQUIREMENTS.****# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall operate and maintain this boiler and the associated control devices in accordance with manufacturer's specifications and good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

This Source ID (036), consist of a Cleaver-Brook boiler, model number CBI-700-400-150, with a maximum rated heat input of 20.92 MM Btu/hr, equiped with and shall use a low NOx burner and flue gas recirculation.

**SECTION D. Source Level Requirements**

Source ID: 100

Source Name: EXEMPT EMERGENCY GENERATORS

Source Capacity/Throughput:

N/A

#2 Oil

N/A

Natural Gas

Conditions for this source occur in the following groups: GENERATORS

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit the total combined NO_x emissions from all the generators associated with this source ID to less than the following:

100 lb/hr (averaged daily)

1000 lb/day

2.75 tons per ozone season (May 1st through September 30th of each year)

6.6 tons per year calculated on a 12-month rolling sum

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use No. 2 fuel oil as fuel for the generators that make up this source ID, except for the 125 kW natural gas emergency generator listed as Source ID 116 under additional conditions for this Source ID 100.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall calculate the total combined NO_x emissions from all the generators that make-up this Source ID to demonstrate compliance with the lb/hr, lbs/day, tons per ozone season and tons per year limits.

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the total combined NO_x emissions for all the generators that make-up this Source ID, to demonstrate compliance with the lb/hr (averaged daily), lbs/day, tons per ozone season and tons per year emission limits.

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

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

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

Under this Source ID 100, the following Sources are subject to the requirements of 25 Pa. Code Section 129.203 and Section 129.204:

- Source 111, 750 kW emergency diesel fired generator, Bldg 2; No. 2 fuel oil
- Source 117, 1500 kW emergency diesel fired generator, Bldg 9; No. 2 fuel oil

The permittee shall comply with all applicable requirements of 25 Pa. Code Section 129.203 and Section 129.204 for the above listed source.

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

Under this Source ID 100, the following source shall keep records of the actual and allowable NOx emissions during the period of May 1st through September 30th each year:

- Souce 117, 1500 kW emergency diesel fired generator, Bldg 9; No. 2 fuel oil

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

Source ID 100 (Exempt Emergency Generators) consists of the following individual source ID's:

- (i) Source 101, 500 kW emergency electric generator, Bldg 1; No. 2 fuel oil
- (ii) Source 111, 750 kW emergency electric generator, Bldg 2; No. 2 fuel oil
- (iii) Source 102, 285 kW emergency electric generator, Bldg 2; No. 2 fuel oil
- (iv) Source 103, 50 kW emergency electric generator, Bldg 3; No. 2 fuel oil
- (v) Source 104, 400 kW emergency electric generator, Bldg 5; No. 2 fuel oil
- (vi) Source 112, 600 kW emergency electric generator, Bldg 9; No. 2 fuel oil
- (vii) Source 116, 125 kW emergency electric generator, Bldg 4; natural gas
- (viii) Souce 117, 1500 kW emergency diesel fired generator, Bldg 9; No. 2 fuel oil

(Source 117 was approved thru RFD # 7213 August 14, 2018)

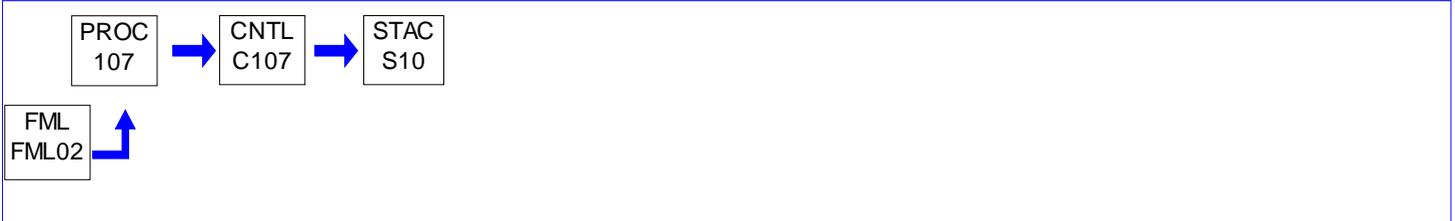
SECTION D. Source Level Requirements

Source ID: 107

Source Name: BLDG 4 GENERATOR (CATERPILLAR)

Source Capacity/Throughput: 135.500 Gal/HR #2 Oil

Conditions for this source occur in the following groups: ADDITIONAL NOX

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

The permittee shall not 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.

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

The permittee shall limit the CO emissions from this source ID to less than the following:

- a. Limit concentration of CO in the stationary RICE exhaust to 23 ppmvd at 15 percent O₂; or
- b. Reduce CO emissions by 70 percent or more.

[Compliance with this condition assures compliance with 40 C.F.R. Section 63.6603(a)]

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

The permittee shall limit the NO_x emissions from this generator to less than 4.07 tons per year calculated on a 12-month rolling sum.

Fuel Restriction(s).**# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

- a. The permittee shall only use No. 2 fuel oil as fuel for this generator.
- b. The permittee shall limit the fuel usage to less than 16,260 gallons per year of No. 2 fuel oil, calculated on a 12-month rolling sum.

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

[Additional Authority for this permit condition is also derived from 40 C.F.R. 63 § 63.6595(c) and 40 C.F.R. 63 § 63.6645]

- (a). The permittee shall perform an initial performance test in accordance with 40 C.F.R. 63 Subpart ZZZZ, Table 4.
- (b). Subsequent performance testing in accordance with 40 C.F.R. Subpart ZZZZ, Table 3 (Item 4) shall be performed every

SECTION D. Source Level Requirements

8760 operating hours or three (3) years, whichever comes first.

006 [25 Pa. Code §139.16]**Sulfur in fuel oil.**

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

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

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

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

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

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

The permittee shall monitor the fuel usage and operating hours for this generator monthly and on a 12-month rolling sum.

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

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

b. The permittee shall keep records of all maintenance conducted on the generator(s) associated with this source.

[Compliance with this condition assures compliance with 40 C.F.R. § 63.6655(a)(2) and § 63.6655(e)]

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

The permittee shall obtain from the fuel oil supplier, a delivery receipt that certifies the percentage of sulfur, by weight, is less than or equal to the applicable sulfur content limit, each time a delivery is made.

In the event that a delivery is made, and no receipt is obtained, the permittee shall perform testing in accordance with 25 Pa. Code § 139.16

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

The permittee shall keep records of the following:

a. A copy of the manufacturer's specifications for the operation and maintenance of the generator, and any associated control devices.

b. The NO_x emissions monthly and on a 12-month rolling sum.

c. The amount of fuel consumed by this generator monthly and on a 12-month rolling sum.

SECTION D. Source Level Requirements

d. Any tune-ups, repairs, parts replacements and other maintenance performed in accordance with manufacturer's specifications.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional Authority for this permit condition is also derived from 40 C.F.R. § 63.6625(h)]

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

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this condition is also derived from 40 C.F.R. § 63.6625(f)]

The permittee shall operate and maintain a non-resettable hour meter on this generator(s) associated with this source ID.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate and maintain the generator and the associated control devices in accordance with manufacturer's specifications and good air pollution control practices.

[Compliance with this condition assures compliance with 40 C.F.R. Section 63.6605]

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

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

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate and maintain a fuel meter on this generator at all times.

VII. ADDITIONAL REQUIREMENTS.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This Source ID consists of a 2MW (2682 hp) Caterpillar Generator, Model No. 3516B. The generator may operate for emergency power generation, maintenance, routine readiness testing, demand response and in island mode.

SECTION D. Source Level Requirements

Source ID: 109

Source Name: BLDG 4, 2MW, 78D

Source Capacity/Throughput: 138.400 Gal/HR #2 Oil

Conditions for this source occur in the following groups: ADDITIONAL NOX

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

The permittee shall not 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.

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

The permittee shall limit the CO emissions from this source ID to less than the following:

- a. Limit concentration of CO in the stationary RICE exhaust to 23 ppmvd at 15 percent O₂; or
- b. Reduce CO emissions by 70 percent or more.

[Compliance with this condition assures compliance with 40 C.F.R. Section 63.6603(a)]

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

The permittee shall limit the NO_x emissions from this generator to less than 5.26 tpy, calculated on a 12-month rolling sum.

The permittee shall limit the NO_x brake horsepower hour rating of this generator to 6.5 grams or less.

Throughput Restriction(s).**# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(1). The permittee shall only use No. 2 fuel oil as fuel for this source.

(2). The permittee shall limit the total No. 2 fuel oil usage for this source to less than 35,475 gallons per year, calculated on a 12-month rolling sum.

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

Additional Authority for this permit condition is also derived from 40 C.F.R. 63 § 63.6595(c) and 40 C.F.R. 63 § 63.6645]

(a). The permittee shall perform an initial performance test in accordance with 40 C.F.R. 63 Subpart ZZZZ, Table 4.

**SECTION D. Source Level Requirements**

(b).Subsequent performance testing in accordance with 40 C.F.R. Subpart ZZZZ, Table 3 (Item 4) shall be performed every 8760 operating hours or three (3) years, whichever comes first.

006 [25 Pa. Code §139.16]**Sulfur in fuel oil.**

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

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

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

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

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

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

The permittee shall monitor the following:

- a. The hours of operation, monthly and on a 12-month rolling sum
- b. The amount of No. 2 fuel oil used monthly and on a 12-month rolling sum
- c. Calculate the NOx emissions monthly and on a 12-month rolling sum

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

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

b. The permittee shall keep records of all maintenance conducted on the generator(s) associated with this source.

[Compliance with this condition assures compliance with 40 C.F.R. § 63.6655(a)(2) and § 63.6655(e)]

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

The permittee shall keep records of the following:

- a. A copy of the manufacturer's specifications for the operation and maintenance of the generator.
- b. The NOx emissions monthly and on a 12-month rolling sum
- c. The amount of fuel consumed monthly and on a 12-month rolling sum

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

The permittee shall obtain from the fuel oil supplier, a delivery receipt that certifies the percentage of sulfur, by weight, is less than or equal to the applicable sulfur content limit, each time a delivery is made.

SECTION D. Source Level Requirements

In the event that a delivery is made, and no receipt is obtained, the permittee shall perform testing in accordance with 25 Pa. Code § 139.16.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

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

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional Authority for this permit condition is also derived from 40 C.F.R. § 63.6625(h)]

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

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this condition is also derived from 40 C.F.R. § 63.6625(f)]

The permittee shall operate and maintain a non-resettable hour meter on this generator(s) associated with this source ID.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). The permittee shall operate, and maintain the 2 MW electric generator manufactured by Detroit Diesel, Model No. 2000DSEB, in accordance with manufacturer's specification and good air pollution control practices.

(b). The permittee shall operate a non-resettable fuel meter on the generator at all times.

[Compliance with condition (a) above, assures compliance with 40 C.F.R. Section 63.6605]

VII. ADDITIONAL REQUIREMENTS.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This Source ID consists of a 2MW (2682 hp) Detroit Diesel Generator, Model No. 2000 DSEB.

**SECTION D. Source Level Requirements**

Source ID: 114

Source Name: BLDG 10 EMERGENCY ELECTRIC GENERATOR, 750 KW

Source Capacity/Throughput: 52.700 Gal/HR #2 Oil

Conditions for this source occur in the following groups: ADDITIONAL NOX

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

The permittee shall not 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.

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

[Additional Authority for this permit condition is derived from 40 C.F.R. § 60.4204]

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

(1). Nitrogen Oxides (NO_x):

- (i). 3.53 tons per year calculated on a 12-month rolling sum; and
- (ii). 5.81 grams per brake horsepower hour.

(2). Hydrocarbons (HC): 1.0 grams per horsepower hour (g/HP-hr);

(3). Carbon Monoxide (CO): 8.5 g/HP-hr; and

(4). Particulate Matter (PM): 0.4 g/HP-hr.

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

(1). The permittee shall only use No. 2 fuel oil as fuel for this generator.

(2). The permittee shall limit the No. 2 fuel oil usage to less than 26,350 gallons per year, calculated on a 12-month rolling sum.

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

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

(a). The permittee shall only use No.2 fuel for this source that complies with the following per-gallon standards:

SECTION D. Source Level Requirements

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

Operation Hours Restriction(s).**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

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

This source shall not be used for peak shaving or to generate income for the facility to supply power to an electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity.

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

II. TESTING REQUIREMENTS.**# 006 [25 Pa. Code §139.16]****Sulfur in fuel oil.**

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

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

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

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

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

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

The permittee shall monitor the following monthly:

(a). Calculate the NO_x emissions monthly and on a 12-month rolling sum.

(b). The hours of operation on a monthly basis

(c). The fuel usage monthly and on a 12-month rolling sum

SECTION D. Source Level Requirements**IV. RECORDKEEPING REQUIREMENTS.****# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep records of the following:

- (1). The fuel usage monthly and on a 12-month rolling sum.
- (2). The NOx emissions monthly and on a 12-month rolling sum
- (3). The permittee shall keep and maintain on site, a copy of the manufacturers' specifications for the operation and maintenance of the engine and any associated control devices.
- (4). Records of tune-ups, repairs, parts replacements and other maintenance performed in accordance with manufacturers' specifications.
- (5). The hours of operation for this generator monthly and on a 12-month rolling sum.

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

The permittee shall keep records of the engine manufacturer data (grams/hp-hr) indicating compliance with the standards specified in 40 C.F.R. Seciton 60.4204(a).

[Compliance with this condition assures compliance with 40 C.F.R. Section 60.4211(b)(3)].

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

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

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

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

U.S. EPA, Region III
Director, Air & Radiation Division
Mail Code 3AD10
1650 Arch Street
Philadelphia, PA 19103-2029

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

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

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

**SECTION D. Source Level Requirements****# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall operate and maintain a non-resettable fuel meter on the generator at all times.

VII. ADDITIONAL REQUIREMENTS.**# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

This Source ID consists of the following emergency generator:

750 kW emergency electric generator, manufactured by Cummins, Model No. DQFAA, installed in 2010, burning No. 2 fuel oil only.

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

This source is subject to the applicable regulations in accordance with 40 C.F.R. Part 60 Subpart IIII.

**SECTION E. Source Group Restrictions.**

Group Name: 3

Group Description: NSPS boilers

Sources included in this group

ID	Name
035	BLDG 4 C-B BOILER 08 WITH LNB AND FGR
036	BLDG 4 C-B BOILER 09 WITH LNB AND FGR

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

001 [25 Pa. Code §123.11]

Combustion units

The permittee shall limit the PM emissions from this boiler to less than 0.03 pound per million Btu of heat input.

002 [25 Pa. Code §123.22]

Combustion units

The permittee shall limit the SO_x emissions from this boiler to less than 0.35 pound per million Btu of heat input.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

- (a). 30 ppm_{dv} NO_x at 3 percent O₂ when firing gas;
- (b). 140 ppm_{dv} NO_x at 3 percent O₂ when firing No. 2 fuel oil; and
- (c). 400 ppm_{dv} CO at 3 percent O₂.

Fuel Restriction(s).

004 [25 Pa. Code §123.22]

Combustion units

No person shall, at any time, offer for sale, deliver for use, exchange in trade or permit the use of commercial fuel oil for use in combustion units in the Southeast Pennsylvania air basin which contains sulfur in excess of 0.05% by weight, pursuant to 25 Pa. Code § 123.22(e)(2).

II. TESTING REQUIREMENTS.

005 [25 Pa. Code §139.16]

Sulfur in fuel oil.

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

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

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

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

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

SECTION E. Source Group Restrictions.**III. MONITORING REQUIREMENTS.****# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the following:

- (a). The amount and type of fuel used monthly
- (b). The permittee shall calculate the NO_x, SO_x and CO emissions monthly and on a 12-month rolling sum.

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

The permittee shall keep records of the following on site and made available to the Department upon request:

- (a). A copy of the manufacturer's specifications for the operation and maintenance of this boiler and any associated air pollution control devices.
- (b). The NO_x, SO_x and CO emissions monthly and on a 12-month rolling sum
- (c). The amount and type of fuel used monthly and on a 12-month rolling sum
- (d). Records of tune-ups, repairs, parts replacements and other maintenance performed in accordance with manufacturer's specifications.
 - (i). Records of the tune-ups must identify each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned.

[Compliance with this condition assures compliance with 40 C.F.R. § 60.48c(g)(2) and 40 C.F.R. § 63.11225(c)]

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

The permittee shall obtain from the fuel oil supplier, a delivery receipt that certifies the percentage of sulfur, by weight, is less than or equal to the applicable sulfur content limit, each time a delivery is made.

In the event that a delivery is made, and no receipt is obtained, the permittee shall perform testing in accordance with 25 Pa. Code § 139.16.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall operate and maintain a non-resettable fuel meter on the boiler at all times.

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

[Additional authority for this permit condition is derived from 40 C.F.R. § 63.11223]

This boiler is defined as a "Limited-use boiler" according to 40 C.F.R. § 63.11237. The boiler must conduct a tune-up every 5 years as specified in paragraphs(1) through (7) of this condition. Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up

(1) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection).

**SECTION E. Source Group Restrictions.**

- (2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
- (3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection).
- (4) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject.
- (5) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.
- (6) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (b)(6)(i) through (iii) of this section.
 - (i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler.
 - (ii) A description of any corrective actions taken as a part of the tune-up of the boiler.
 - (iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.
- (7) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup.

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION E. Source Group Restrictions.**

Group Name: 4

Group Description: Subpart JJJJJJ

Sources included in this group

ID	Name
035	BLDG 4 C-B BOILER 08 WITH LNB AND FGR
036	BLDG 4 C-B BOILER 09 WITH LNB AND FGR

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

- (a) The permittee shall use natural gas as the primary fuel for this boiler.
- (b). The permittee shall only burn No. 2 fuel oil during periods of gas curtailment, gas emergencies, or periodic testing of liquid fuel.
- (c). The permittee shall limit the burning of No. 2 fuel oil for periodic testing of liquid fuels to less than 48 hours during any calendar year.

[Compliance with conditions (b) and (c) above, ensures that this source is considered a gas fired boiler for the purposes of 40 C.F.R. Part 63 Subpart JJJJJJ]

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

If the permittee intends to switch fuels, and this fuel switch may result in the applicability of a different subcategory or a switch out of subpart JJJJJJ due to a switch to 100 percent natural gas, the permittee must provide 30 days prior notice of the date upon which the fuel switch will occur. The notification must identify:

- (a) The name of the owner or operator of the affected source, the location of the source, the boiler(s) that will switch fuels, and the date of the notice.
- (b) The currently applicable subcategory under this subpart.
- (c) The date on which the permittee becomes subject to the currently applicable standards.
- (d) The date upon which the permittee will commence the fuel switch.

[Compliance with this condition assures compliance with 40 C.F.R. 63.11225(g)(1-4)]



SECTION E. Source Group Restrictions.

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION E. Source Group Restrictions.**

Group Name: 5

Group Description: Subpart Dc

Sources included in this group

ID	Name
035	BLDG 4 C-B BOILER 08 WITH LNB AND FGR
036	BLDG 4 C-B BOILER 09 WITH LNB AND FGR

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.**# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional Authority for this permit condition is also derived from 40 C.F.R. Part 60, Subpart Dc]

a. Pursuant to 40 C.F.R. Section 60.4, the permittee shall submit copies of all requests, reports, applications, submittals, and other communications to both EPA and the appropriate Regional Office of the Department. The EPA copies shall be forwarded to:

Director Air, Toxics and Radiation Division
 U.S. EPA, Region III
 1650 Arch Street
 Philadelphia, PA 19103-2029

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION E. Source Group Restrictions.

Group Name: ADDITIONAL NOX

Group Description: 129.203 and 129.204

Sources included in this group

ID	Name
107	BLDG 4 GENERATOR (CATERPILLAR)
109	BLDG 4, 2MW, 78D
114	BLDG 10 EMERGENCY ELECTRIC GENERATOR, 750 KW

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.**# 001 [25 Pa. Code §129.203]****Stationary internal combustion engines.**

(a) The owner or operator of a stationary internal combustion engine rated at greater than 1,000 horsepower and located in Bucks, Chester, Delaware, Montgomery or Philadelphia County shall comply with this section and § 129.204 (relating to emission accountability). This section does not apply to naval marine combustion units operated by the United States Navy for the purposes of testing and operational training or to stationary internal combustion engines regulated under Chapter 145, Subchapter B (relating to emissions of NOx from stationary internal combustion engines).

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

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

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

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

(d) Emissions from a stationary internal combustion engine that has been or is replaced by an electric motor may be counted as allowable emissions for purposes of this section and § 129.204, as follows:

(1) For a replaced spark-ignited engine, 3.0 grams of NOx per brake horsepower-hour of the replacement motor, less 1.5 pounds of NOx per MWH of electricity consumed by the replacement motor.

(2) For a replaced compression ignition stationary internal combustion engine that fired diesel fuel or a combination of diesel fuel and natural gas, 2.3 grams of NOx per brake horsepower-hour, less 1.5 pounds of NOx per MWH of electricity consumed by the replacement motor.

002 [25 Pa. Code §129.204]**Emission accountability.**

(a) This section applies to units described in §§ 129.201--129.203 (relating to boilers; stationary combustion turbines; and stationary internal combustion engines).

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

(1) If the owner or operator of the unit is required to monitor NOx emissions with a CEMS operated and maintained in accordance with a permit or State or Federal regulation, the CEMS data reported to the Department to comply with the

**SECTION E. Source Group Restrictions.**

monitoring and reporting requirements of this article shall be used. Any data invalidated under Chapter 139 (relating to sampling and testing) shall be substituted with data calculated using the potential emission rate for the unit or, if approved by the Department in writing, an alternative amount of emissions that is more representative of actual emissions that occurred during the period of invalid data.

(2) If the owner or operator of the unit is not required to monitor NO_x emissions with a CEMS, one of the following shall be used to determine actual emissions NO_x:

(i) The 1-year average emission rate calculated from the most recent permit emission limit compliance demonstration test data for NO_x.

(ii) The maximum hourly allowable NO_x emission rate contained in the permit or the higher of the following:

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

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

(iii) CEMS data, if the owner or operator elects to monitor NO_x emissions with a CEMS. The owner or operator shall monitor emissions and report the data from the CEMS in accordance with Chapter 139 or Chapter 145 (relating to interstate pollution transport reduction). Any data invalidated under Chapter 139 shall be substituted with data calculated using the potential emission rate for the unit or, if approved by the Department in writing, an alternative amount of emissions that is more representative of actual emissions that occurred during the period of invalid data.

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

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

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

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

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

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

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

SECTION E. Source Group Restrictions.

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

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

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

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION E. Source Group Restrictions.**

Group Name: GENERATORS

Group Description: Subpart ZZZZ

Sources included in this group

ID	Name
100	EXEMPT EMERGENCY GENERATORS

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.**# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

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

[Compliance with this condition assures compliance with 40 C.F.R. § 63.6655]

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

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

b. The permittee shall keep records of all maintenance conducted on the generator(s) associated with this source.

[Compliance with this condition assures compliance with 40 C.F.R. § 63.6655(a)(2) and § 63.6655(e)]

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

The permittee shall keep records of the hours of operation for each generator(s) associated with this source ID. The hours of operation shall be recorded through the non-resettable hour meter.

The permittee shall keep records of how many hours are spent for emergency operation and how many hours are spent for non-emergency operation including Demand Response.

V. REPORTING REQUIREMENTS.

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

**SECTION E. Source Group Restrictions.****VI. WORK PRACTICE REQUIREMENTS.****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

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

[Compliance with this condition assures compliance with 40 C.F.R. 63 § 63.6603(a)]

005 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

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

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

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

[Additional Authority for this permit condition is also derived from 40 C.F.R. § 63.6625(h)]

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

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

[Additional authority for this condition is also derived from 40 C.F.R. § 63.6625(f)]

The permittee shall operate and maintain a non-resettable hour meter on this generator(s) associated with this source ID.

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

This Source ID is subject to any applicable requirement found in 40 C.F.R. Part 63 Subpart ZZZZ.



SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this State Only facility.

SECTION G. Emission Restriction Summary.

Source Id	Source Description		
031	BLDG 5 C-B BOILERS 1 & 2		
Emission Limit		Pollutant	
5.870	Tons/Yr	Combined total calculated 12-month rolling sum	CO
0.100	Lbs/MMBTU	each boiler	NOX
6.990	Tons/Yr	Combined total calculated 12-month rolling sum	NOX
1.200	Lbs/MMBTU		SOX
0.005	Lbs/MMBTU	each boiler	TSP
035	BLDG 4 C-B BOILER 08 WITH LNB AND FGR		
Emission Limit		Pollutant	
400.000	PPMV	at 3% oxygen	CO
30.000	PPMV	at 3% oxygen when on natural gas	NOX
140.000	PPMV	at 3% oxygen when on No. 2 fuel oil	NOX
0.350	Lbs/MMBTU		SOX
0.030	Lbs/MMBTU		TSP
036	BLDG 4 C-B BOILER 09 WITH LNB AND FGR		
Emission Limit		Pollutant	
400.000	PPMV	at 3% oxygen	CO
30.000	PPMV	at 3% oxygen when on natural gas	NOX
140.000	PPMV	at 3% oxygen when on No. 2 fuel oil	NOX
0.350	Lbs/MMBTU		SOX
0.030	Lbs/MMBTU		TSP
100	EXEMPT EMERGENCY GENERATORS		
Emission Limit		Pollutant	
2.750	Tons/OZNESEAS	combined total of all generators; May 1st through September 30th each year	NOX
6.600	Tons/Yr	combined total of all generators;calculated on a 12-month rolling sum	NOX
100.000	Lbs/Hr	combined total of all generators, averaged daily	NOX
1,000.000	Lbs/Day	combined total of all generators	NOX
107	BLDG 4 GENERATOR (CATERPILLAR)		
Emission Limit		Pollutant	
23.000	PPMV	at 15% O2 or reduce CO emissions by 70%	CO
4.070	Tons/Yr	12 month rolling	NOX
500.000	PPMV		SOX
0.040	gr/DRY FT3		TSP
109	BLDG 4, 2MW, 78D		
Emission Limit		Pollutant	
23.000	PPMV	at 15% O2 or reduce CO emissions by 70%	CO
5.260	Tons/Yr	calculated on 12-month rolling sum	NOX
6.500	GRAMS/HP-Hr		NOX

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
500.000	PPMV		SO2
0.040	gr/DRY FT3		TSP
114	BLDG 10 EMERGENCY ELECTRIC GENERATOR, 750 KW		
Emission Limit		Pollutant	
8.500	GRAMS/HP-Hr		CO
1.000	GRAMS/HP-Hr		NMHC
3.530	Tons/Yr	calculated on a 12-month rolling sum	NOX
5.810	GRAMS/HP-Hr		NOX
500.000	PPMV		SO2
0.040	gr/DRY FT3		TSP
0.400	GRAMS/HP-Hr		TSP

Site Emission Restriction Summary

Emission Limit		Pollutant
24.900 Tons/Yr	12 month rolling sum	NOX
3.900 Tons/Yr	12 month rolling sum	VOC
17.000 Tons/Yr	12 month rolling sum	SOX
3.970 Tons/Yr	12 month rolling sum	TSP

**SECTION H. Miscellaneous.**

APS 346901
AUTH 355707

The following previously issued approvals serves as a basis for certain conditions in this operating permit:

OP-15-0078; boilers, water heaters, space heaters and emergency generator;

PA-15-0078B; 16.74 MM Btu/hr Boiler, Source Id 035 and 20.92 MM Btu/hr Boiler, Source Id 036; this plan approval replaced following general operating permits 15-302-088GP and 15-302-089GP;

15-0078C; 2MW Electric Generator, Source Id 107; this plan approval replaced plan approval no. PA-0078;

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

(a) Miscellaneous activities approved under RACT OP-15-0078:

(i) Source 032: Bldg. 3 Hot Water Heaters

- (1) Bryan Hot Water Heater, with rated capacity of 2.0 MMBtu/hr
- (2) Weil McLean Boilers (2), with rated capacity of 1.63 MMBtu/hr each

(ii) Source 033: Bldg. 2 Hot Water Heaters

- (1) PVI Water Heater, with rated capacity of 1.0 MMBtu/hr
- (2) A. O. Smith Water Heater, with rated capacity of 0.15 MMBtu/hr

(iii) Source 105, Propane Space Heaters (2), each having a rated capacity of 115,000 Btu/hr

(iv) Source 106, Natural Gas Space Heater (5), each having a rated capacity of 250,000 Btu/hr

(b) Miscellaneous activities approved under RFD No. 15-A01-1057; All exempt engines at the facility:

- (i) Source 101, 315 kW emergency electric generator, Bldg 1;
- (ii) Source 111, 750 kW emergency electric generator, Bldg 2;
- (iii) Source 102, 287 kW emergency electric generator, Bldg 2;
- (iv) Source 103, 87 kW emergency electric generator, Bldg 3;
- (v) Source 104, 400 kW emergency electric generator, Bldg 5;
- (vi) Source 112, 600 kW emergency electric generator, Bldg 9;

(c) Miscellaneous activities approved under this amended operating permit application:

(i) Source 115, Natural gas-fired Water Heaters (5), each having a rated capacity of 180,000 Btu/hr, Bldg 5.

APS: 346901
AUTH: 804938

Amending new permit, issued on March 14, 2009, under an settlement agreement of the appeal.

APS: 346901
AUTH: 831370

Amending permit to incorporate:

2 MW electric generator, Id 109, under plan approval 15-0078D and
750 kW electric generator, Id 114, under plan approval 15-0078E.

May 2010

APS: 346901
AUTH: 909571

**SECTION H. Miscellaneous.**

Amending permit to incorporate:

Modification of two existing 16.8 MMBtu/hr boilers, Source Id 031, as permittee has requested to operate two existing boilers simultaneously, under plan approval 15-0078F.

APS: 346901 AUTH: 996841

This operating permit has been renewed.

The miscellaneous activities approved under RFD No. 15-A01-1057; which consisted of the following emergency generators, have been placed in Section D of the permit listed under Source ID 100 (Exempt Emergency Generators):

- (i) Source 101, 315 kW emergency electric generator, Bldg 1;
- (ii) Source 111, 750 kW emergency electric generator, Bldg 2;
- (iii) Source 102, 287 kW emergency electric generator, Bldg 2;
- (iv) Source 103, 87 kW emergency electric generator, Bldg 3;
- (v) Source 104, 400 kW emergency electric generator, Bldg 5;
- (vi) Source 112, 600 kW emergency electric

Source ID 116 (Bldg 4, 150 kW emergency electric generator burning natural gas) was also listed under Source ID 100.

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

- Bldg 10 Bryan natural gas hot water heater, 1.2 MMBTU/HR and
- Bldg 9 natural gas hot water heater, 1.2 MMBTU/HR

The renewal included applicable Federal regulations that were added to applicable sources. The Federal regulations that have been included or addressed in this permit renewal are:

- 40 C.F.R. 63 Subpart ZZZZ
- 40 C.F.R. 63 Subpart JJJJJJ
- 40 C.F.R. 60 Subpart IIII
- 40 C.F.R. 60 Subpart Dc

APS: 346901 AUTH: 1148260

This Operating Permit has been modified for the following reason:

Allow an increase use of No.2 fuel oil in Boilers 8 and 9 (source Id 035 & 036). The boilers serve building 4 and this action changes their status from "gas-fired boilers" to "limited use boilers" as defined in 40 C.F.R. 63 Subpart JJJJJJ. No new construction or physical changes occurred for this modification.

APS: 346901 AUTH: 1269612 May 2019

This operating permit has been modified for the following reason:

Source ID 107 & 109 (Generators 1 & 2) are being retrofitted with a diesel oxidation catalyst (DOC) system so the generators can comply with 40 C.F.R. 63 Subpart ZZZZ in order to be used for Demand Response. The DOC will reduce the CO emissions by 70% or reduce the CO concentration to less than 23 ppmvd at 15% oxygen. The change was approved through RFD # 7592 on March 20, 2019.

APS: 346901 AUTH: 1272547

This operating permit has been renewed.

Source ID 100 (Exempt Emergency Generators) the list of exempt generators was revised to reflect the proper size of the generators. the following generators listed under Source ID 100 were revised:

- Source 101: was revised from 315 kW to 500 kW
- Source 102: was revised from 287 kW to 285 kW
- Source 103: was revised from 87 kW to 50 kW
- Source 116: was revised from 150 kW to 125 kW



SECTION H. Miscellaneous.

- Source 117 was added to the list of exempt generators, 1500 kW generator approved thru RFD # 7213 on Aug 14, 2018.



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

