



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

TITLE V/STATE OPERATING PERMIT

Issue Date:	January 13, 2022	Effective Date:	October 3, 2024
Revision Date:	October 3, 2024	Expiration Date:	January 12, 2027
Revision Type:	Amendment		

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

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable applicable requirements unless otherwise designated as "State-Only" or "non-applicable" requirements.

TITLE V Permit No: 53-00003

Federal Tax Id - Plant Code: 25-0850705-11

Owner Information

Name: NATL FUEL GAS SUPPLY CORP
Mailing Address: 6363 MAIN ST
WILLIAMSVILLE, NY 14221-5855

Plant Information

Plant: NATL FUEL GAS SUPPLY/ELLISBURG STA
Location: 53 Potter County 53903 Allegany Township
SIC Code: 4922 Trans. & Utilities - Natural Gas Transmission

Responsible Official

Name: STEVEN J GLASS
Title: ASSISTANT VP
Phone: (814) 871 - 8542 Email: GlassS@natfuel.com

Permit Contact Person

Name: EMILY MEMMONS
Title: ENGINEER III
Phone: (716) 857 - 7742 Email: EmmonsE@natfuel.com

[Signature] _____
MUHAMMAD Q. ZAMAN, ENVIRONMENTAL PROGRAM MANAGER, NORTHCENTRAL REGION



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**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
032	PEERLESS BOILER		
033	WEIL MCLAIN BOILERS		
037	PIPELINE HEATERS		
038	WATER HEATERS		
039	SPACE HEATERS		
040	BURNHAM BOILERS		
041	GAS TECH PIPELINE HEATERS		
P105	1000 BHP, I-R 36 KVS ENG #5, SN 36FT480		
P106	2000 BHP, I-R 512 KVS ENG #6, SN 512FT576		
P107	2000 BHP, I-R 512 KVS ENG #7, SN 512FT577		
P108	2850 BHP, DRESSER-RAND 412 KVSE-1 ENG #8, SN 412KVSE102EP		
P109	3000 BHP, COOP-BESS 8Q155JHC2, ENG #9, SN 49802		
P110	3000 BHP, COOP-BES 8Q155JHC2 ENGINE #10, SN 49083		
P111	1300 BHP, COOP-BES GMVH-6C2 ENGINE #11, SN 49104		
P112	1300 BHP, COOP-BES GMVH-6C2 ENGINE #12, SN 49105		
P115	WAUK AUX GENERATOR #3 F1197GU 200 HP		
P117	TEG DEHYDRATION STILL/REBOILER #2		
P118	TEG DEHYDRATION STILL/REBOILER #3		
P119	STORAGE TANKS		
P120	PARTS WASHERS		
P121	PIPELINE EMISSION SOURCES		
P122	MERCAPTAN TANK		
P123	4445 BHP, CAT G3616 ENGINE #1A, SN 4CG00120		
P124	4735 BHP, CAT G3616 ENGINE #14, SN BLB00759		
P125	4735 BHP, CAT G3616 ENGINE #15, SN BLB00761		
P201	CUMMINS EMER GENERATOR GTA38 803 HP		
P202	KOHLER AUX GEN #4 - DOOSAN 684 BHP NG ENG D219TIC		
P501	PNEUMATIC DEVICES		
P601	VENTING/BLOWDOWN OPERATIONS		
P801	PIGGING OPERATIONS		
C124A	OXIDATION CATALYST		
C124B	SELECTIVE CATALYTIC REDUCTION SYSTEM		
C125A	OXIDATION CATALYST		
C125B	SELECTIVE CATALYTIC REDUCTION SYSTEM		
C201	3-WAY CATALYST		
C202	3-WAY CATALYST		
CD101	THERMAL OXIDIZER		
FM01	NATURAL GAS PIPELINE		

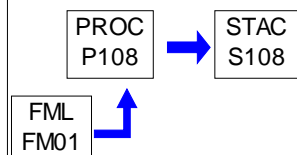
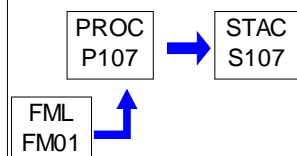
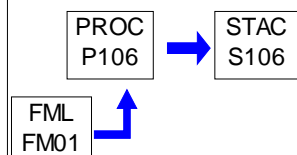
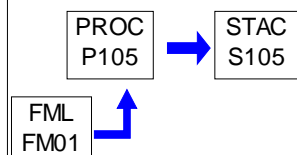
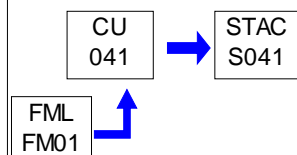
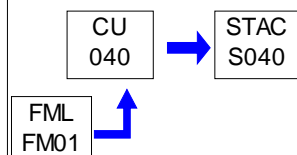
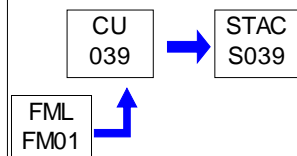
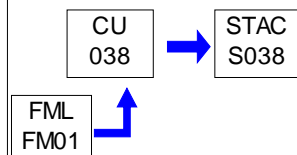
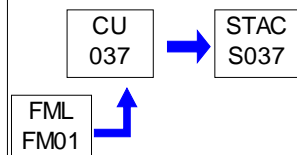
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
S032	BOILER STACK		
S033	BOILER STACK		
S037	PIPELINE HEATER STACK		
S038	WATER HEATER STACKS		
S039	SPACE HEATER STACKS		
S040	BOILER STACKS		
S041	PIPELINE HEATER STACKS		
S105	ENGINE #5 STACK		
S106	ENGINE #6 STACK		
S107	ENGINE #7 STACK		
S108	ENGINE #8 STACK		
S109	ENGINE #9 STACK		
S110	ENGINE #10 STACK		
S111	ENGINE #11 STACK		
S112	ENGINE #12 STACK		
S115	AUX GENERATOR #3 STACK		
S118	DEHYDRATION UNITS/OXIDIZER STACK		
S123	ENGINE #13 STACK		
S124	ENGINE #14 STACK		
S125	ENGINE #15 STACK		
S201	EMER GENERATOR STACK		
S202	STACK		
Z119	STORAGE TANK EMISSIONS		
Z120	PARTS WASHER EMISSIONS		
Z121	PIPELINE EMISSIONS		
Z122	MERCAPTAN EMISSIONS		
Z501	FUGITIVE EMISSIONS		
Z601	FUGITIVE EMISSIONS		
Z801	FUGITIVE EMISSIONS		

PERMIT MAPS

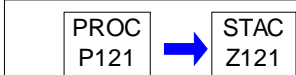
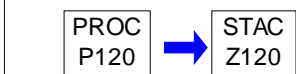
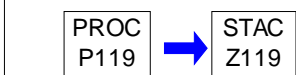
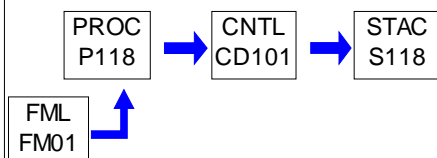
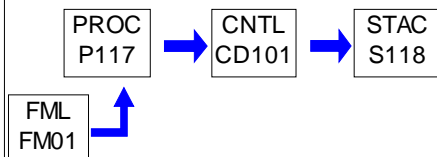
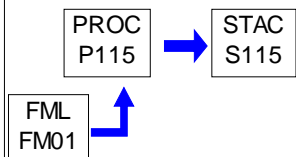
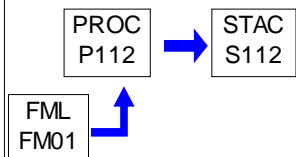
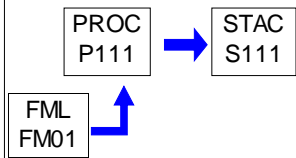
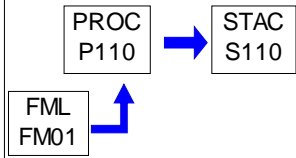
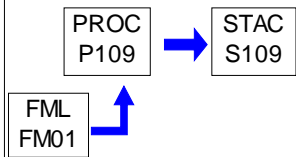


PERMIT MAPS



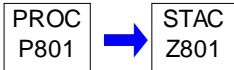
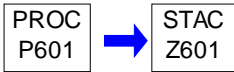
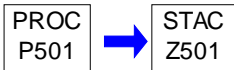
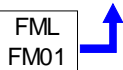
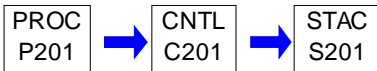
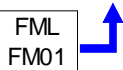
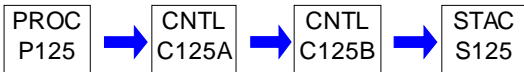
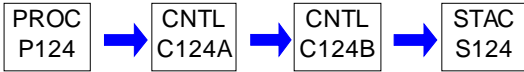
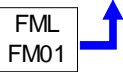
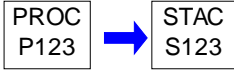
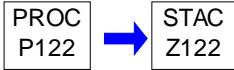


PERMIT MAPS





PERMIT MAPS



**SECTION B. General Title V 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 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 121.7]**Prohibition of Air Pollution**

No person may permit air pollution as that term is defined in the act.

#003 [25 Pa. Code § 127.512(c)(4)]**Property Rights**

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

#004 [25 Pa. Code § 127.446(a) and (c)]**Permit Expiration**

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. The terms and conditions of the expired permit shall automatically continue pending issuance of a new Title V 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. 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.

#005 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446(e), 127.503 & 127.704(b)]**Permit Renewal**

(a) An application for the renewal of the Title V permit shall be submitted to the Department at least six (6) months, and not more than 18 months, before the expiration date of this permit. The renewal application is timely if a complete application is submitted to the Department's Regional Air Manager within the timeframe specified in this permit condition.

(b) The application for permit renewal shall include the current permit number, the appropriate permit renewal fee, a description of any permit revisions and off-permit changes that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. 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.

(c) 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. The application for renewal of the Title V permit shall also include submission of compliance review forms which have been used by the permittee to update information submitted in accordance with either 25 Pa. Code § 127.412(b) or § 127.412(j).

(d) 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 during the permit renewal process. The permittee shall also promptly provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit.

#006 [25 Pa. Code §§ 127.450(a)(4) & 127.464(a)]**Transfer of Ownership or Operational Control**

(a) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership or operational control of the source shall be treated as an administrative amendment if:

- (1) The Department determines that no other change in the permit is necessary;
- (2) 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,
- (3) A compliance review form has been submitted to the Department and the permit transfer has been approved by

**SECTION B. General Title V Requirements**

the Department.

(b) In accordance with 25 Pa. Code § 127.464(a), this permit may not be transferred to another person except in cases of transfer-of-ownership which are documented and approved to the satisfaction of the Department.

#007 [25 Pa. Code § 127.513, 35 P.S. § 4008 and § 114 of the CAA]**Inspection and Entry**

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

- (1) Enter at reasonable times upon the permittee's premises where a Title V 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 or remove, at reasonable times, records that are kept under the conditions of this permit;
- (3) Inspect at reasonable times, 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, 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.

(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.

#008 [25 Pa. Code §§ 127.25, 127.444, & 127.512(c)(1)]**Compliance Requirements**

(a) The permittee shall comply with the conditions of this permit. Noncompliance with this permit constitutes a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one (1) or more of the following:

- (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 to the source are 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 Title V permit.

#009 [25 Pa. Code § 127.512(c)(2)]**Need to Halt or Reduce Activity Not a Defense**

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

**SECTION B. General Title V Requirements****#010 [25 Pa. Code §§ 127.411(d) & 127.512(c)(5)]****Duty to Provide Information**

(a) The permittee shall furnish to the Department, within a reasonable time, information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit.

(b) Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to keep by this permit, or for information claimed to be confidential, the permittee may furnish such records directly to the Administrator of EPA along with a claim of confidentiality.

#011 [25 Pa. Code §§ 127.463, 127.512(c)(3) & 127.542]**Reopening and Revising the Title V Permit for Cause**

(a) This Title V permit may be modified, revoked, reopened and reissued or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay a permit condition.

(b) This permit may be reopened, revised and reissued prior to expiration of the permit under one or more of the following circumstances:

(1) Additional applicable requirements under the Clean Air Act or the Air Pollution Control Act become applicable to a Title V facility with a remaining permit term of three (3) or more years prior to the expiration date of this permit. The Department will revise the permit as expeditiously as practicable but not later than 18 months after promulgation of the applicable standards or regulations. No such revision is required if the effective date of the requirement is later than the expiration date of this permit, unless the original permit or its terms and conditions has been extended.

(2) Additional requirements, including excess emissions requirements, become applicable to an affected source under the acid rain program. Upon approval by the Administrator of EPA, excess emissions offset plans for an affected source shall be incorporated into the permit.

(3) The Department or the EPA determines that this permit contains a material mistake or inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.

(4) The Department or the Administrator of EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

(c) Proceedings to revise this permit shall follow the same procedures which apply to initial permit issuance and shall affect only those parts of this permit for which cause to revise exists. The revision shall be made as expeditiously as practicable.

(d) Regardless of whether a revision is made in accordance with (b)(1) above, the permittee shall meet the applicable standards or regulations promulgated under the Clean Air Act within the time frame required by standards or regulations.

#012 [25 Pa. Code § 127.543]**Reopening a Title V Permit for Cause by EPA**

As required by the Clean Air Act and regulations adopted thereunder, this permit may be modified, reopened and reissued, revoked or terminated for cause by EPA in accordance with procedures specified in 25 Pa. Code § 127.543.

#013 [25 Pa. Code § 127.522(a)]**Operating Permit Application Review by the EPA**

The applicant may be required by the Department to provide a copy of the permit application, including the compliance plan, directly to the Administrator of the EPA. Copies of title V permit applications to EPA, pursuant to 25 PA Code §127.522(a), shall be submitted, if required, to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

**SECTION B. General Title V Requirements****#014 [25 Pa. Code § 127.541]****Significant Operating Permit Modifications**

When permit modifications during the term of this permit do not qualify as minor permit modifications or administrative amendments, the permittee shall submit an application for significant Title V permit modifications in accordance with 25 Pa. Code § 127.541. Notifications to EPA, pursuant to 25 PA Code §127.522(a), if required, shall be submitted, to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

#015 [25 Pa. Code §§ 121.1 & 127.462]**Minor Operating Permit Modifications**

The permittee may make minor operating permit modifications (as defined in 25 Pa. Code §121.1), on an expedited basis, in accordance with 25 Pa. Code §127.462 (relating to minor operating permit modifications). Notifications to EPA, pursuant to 25 PA Code §127.462(c), if required, shall be submitted, to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

#016 [25 Pa. Code § 127.450]**Administrative Operating Permit Amendments**

(a) The permittee may request administrative operating permit amendments, as defined in 25 Pa. Code §127.450(a). Copies of request for administrative permit amendment to EPA, pursuant to 25 PA Code §127.450(c)(1), if required, shall be submitted to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

(b) Upon final action by the Department granting a request for an administrative operating permit amendment covered under §127.450(a)(5), the permit shield provisions in 25 Pa. Code § 127.516 (relating to permit shield) shall apply to administrative permit amendments incorporated in this Title V Permit in accordance with §127.450(c), unless precluded by the Clean Air Act or the regulations thereunder.

#017 [25 Pa. Code § 127.512(b)]**Severability Clause**

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

#018 [25 Pa. Code §§ 127.704, 127.705 & 127.707]**Fee Payment**

(a) The permittee shall pay fees to the Department in accordance with the applicable fee schedules in 25 Pa. Code Chapter 127, Subchapter I (relating to plan approval and operating permit fees). 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.

(b) Emission Fees. The permittee shall, on or before September 1st of each year, pay applicable annual Title V emission fees for emissions occurring in the previous calendar year as specified in 25 Pa. Code § 127.705. The permittee is not required to pay an emission fee for emissions of more than 4,000 tons of each regulated pollutant emitted from the facility.

(c) As used in this permit condition, the term "regulated pollutant" is defined as a VOC, each pollutant regulated under Sections 111 and 112 of the Clean Air Act and each pollutant for which a National Ambient Air Quality Standard has been promulgated, except that carbon monoxide is excluded.

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(d) Late Payment. Late payment of emission fees will subject the permittee to the penalties prescribed in 25 Pa. Code § 127.707 and may result in the suspension or termination of the Title V permit. The permittee shall pay a penalty of fifty percent (50%) of the fee amount, plus interest on the fee amount computed in accordance with 26 U.S.C.A. § 6621(a)(2) from the date the emission fee should have been paid in accordance with the time frame specified in 25 Pa. Code § 127.705(c).

(e) The permittee shall pay an annual operating permit maintenance fee according to the following fee schedule established in 25 Pa. Code § 127.704(d) on or before December 31 of each year for the next calendar year.

(1) Eight thousand dollars (\$8,000) for calendar years 2021—2025.

(2) Ten thousand dollars (\$10,000) for calendar years 2026—2030.

(3) Twelve thousand five hundred dollars (\$12,500) for the calendar years beginning with 2031.

#019 [25 Pa. Code §§ 127.14(b) & 127.449]**Authorization for De Minimis Emission Increases**

(a) This permit authorizes de minimis emission increases from a new or existing source in accordance with 25 Pa. Code §§ 127.14 and 127.449 without the need for a plan approval or prior issuance of a permit modification. The permittee shall provide the Department with seven (7) days prior written notice before commencing any de minimis emissions increase that would result from either: (1) a physical change of minor significance under § 127.14(c)(1); or (2) the construction, installation, modification or reactivation of an air contamination source. 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.

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

(b) Except as provided below in (c) and (d) of this permit condition, the permittee is authorized during the term of this permit 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 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 or 25 Pa. Code Article III.

(c) In accordance with § 127.14, the permittee may install the following minor sources without the need for a plan approval:

(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.

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(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, liquefied petroleum gas 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.

(d) 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 (b)(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 the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.

(4) Changes which are modifications under any provision of Title I of the Clean Air Act and emission increases which would exceed the allowable emissions level (expressed as a rate of emissions or in terms of total emissions) under the Title V permit.

(e) Unless precluded by the Clean Air Act or the regulations thereunder, the permit shield described in 25 Pa. Code § 127.516 (relating to permit shield) shall extend to the changes made under 25 Pa. Code § 127.449 (relating to de minimis emission increases).

(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 allowed under this permit, 25 Pa. Code § 127.449, or sources and physical changes meeting the requirements of 25 Pa. Code § 127.14, the permittee is prohibited from making physical 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.

#020 [25 Pa. Code §§ 127.11a & 127.215]**Reactivation of Sources**

(a) The permittee may reactivate a source at the facility that has been out of operation or production for at least one year, but less than or equal to five (5) years, if the source is reactivated in accordance with the requirements of 25 Pa. Code §§ 127.11a and 127.215. The reactivated source will not be considered a new source.

(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).

#021 [25 Pa. Code §§ 121.9 & 127.216]**Circumvention**

(a) The owner of this Title V facility, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the

**SECTION B. General Title V Requirements**

phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

(b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this permit, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#022 [25 Pa. Code §§ 127.402(d) & 127.513(1)]**Submissions**

(a) 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 on the permit transmittal letter, or otherwise notified)

(b) Any report or notification for the EPA Administrator or EPA Region III should be addressed to:

Enforcement & Compliance Assurance Division
Air, RCRA and Toxics Branch (3ED21)
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, PA 19103-2852

The Title V compliance certification shall be emailed to EPA at R3_APD_Permits@epa.gov.

(c) An application, form, report or compliance certification submitted pursuant to this permit condition shall contain certification by a responsible official as to truth, accuracy, and completeness as required under 25 Pa. Code § 127.402(d). Unless otherwise required by the Clean Air Act or regulations adopted thereunder, this certification and any other certification required pursuant to this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

#023 [25 Pa. Code §§ 127.441(c) & 127.463(e); Chapter 139; & 114(a)(3), 504(b) of the CAA]**Sampling, Testing and Monitoring Procedures**

(a) The permittee shall perform the emissions monitoring and analysis procedures or test methods for applicable requirements of this Title V permit. In addition to the sampling, testing and monitoring procedures specified in this permit, the Permittee shall comply with any additional applicable requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

(b) The sampling, testing and monitoring required under the applicable requirements of this permit, shall be conducted in accordance with the requirements of 25 Pa. Code Chapter 139 unless alternative methodology is required by the Clean Air Act (including §§ 114(a)(3) and 504(b)) and regulations adopted thereunder.

#024 [25 Pa. Code §§ 127.511 & Chapter 135]**Recordkeeping Requirements**

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

- (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.

**SECTION B. General Title V Requirements**

(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 the 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. If direct recordkeeping is not possible or practical, sufficient records shall be kept to provide the needed information by indirect means.

#025 [25 Pa. Code §§ 127.411(d), 127.442, 127.463(e) & 127.511(c)]**Reporting Requirements**

(a) The permittee shall comply with the reporting requirements for the applicable requirements specified in this Title V permit. In addition to the reporting requirements specified herein, the permittee shall comply with any additional applicable reporting requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

(b) Pursuant to 25 Pa. Code § 127.511(c), the permittee shall submit reports of required monitoring at least every six (6) months unless otherwise specified in this permit. Instances of deviations (as defined in 25 Pa. Code § 121.1) from permit requirements shall be clearly identified in the reports. The reporting of deviations shall include the probable cause of the deviations and corrective actions or preventative measures taken, except that sources with continuous emission monitoring systems shall report according to the protocol established and approved by the Department for the source. The required reports shall be certified by a responsible official.

(c) Every report submitted to the Department under this permit condition shall comply with the submission procedures specified in Section B, Condition #022(c) of this permit.

(d) Any records, reports or information obtained by the Department or referred to in a public hearing shall be made available to the public by the Department except for such records, reports or information for which the permittee has shown cause that the documents should be considered confidential and protected from disclosure to the public under Section 4013.2 of the Air Pollution Control Act and consistent with Sections 112(d) and 114(c) of the Clean Air Act and 25 Pa. Code § 127.411(d). The permittee may not request a claim of confidentiality for any emissions data generated for the Title V facility.

#026 [25 Pa. Code § 127.513]**Compliance Certification**

(a) One year after the date of issuance of the Title V permit, and each year thereafter, unless specified elsewhere in the permit, the permittee shall submit to the Department and EPA Region III a certificate of compliance with the terms and conditions in this permit, for the previous year, including the emission limitations, standards or work practices. This certification shall include:

- (1) The identification of each term or condition of the permit that is the basis of the certification.
- (2) The compliance status.
- (3) The methods used for determining the compliance status of the source, currently and over the reporting period.
- (4) Whether compliance was continuous or intermittent.

(b) The compliance certification shall be postmarked or hand-delivered no later than thirty days after each anniversary of the date of issuance of this Title V Operating Permit, or on the submittal date specified elsewhere in the permit, to the Department in accordance with the submission requirements specified in Section B, Condition #022 of this permit. The Title V compliance certification shall be emailed to EPA at R3_APD_Permits@epa.gov.

**SECTION B. General Title V Requirements****#027 [25 Pa. Code § 127.3]****Operational Flexibility**

The permittee is authorized to make changes within the Title V facility in accordance with the following provisions in 25 Pa. Code Chapter 127 which implement the operational flexibility requirements of Section 502(b)(10) of the Clean Air Act and Section 6.1(i) of the Air Pollution Control Act:

- (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)
- (6) Section 127.462 (relating to minor operating permit amendments)
- (7) Subchapter H (relating to general plan approvals and operating permits)

#028 [25 Pa. Code §§ 127.441(d), 127.512(i) and 40 CFR Part 68]**Risk Management**

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

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

(d) If the Title V 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 the Title V facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.

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(e) If the Title V 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 the Title V 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:

(1) The permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.

(2) The permittee fails to submit a compliance schedule or include a statement in the compliance certification required under Section B, Condition #026 of this permit that the Title V facility is in compliance with the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68, and 25 Pa. Code § 127.512(i).

#029 [25 Pa. Code § 127.512(e)]**Approved Economic Incentives and Emission Trading Programs**

No permit revision shall be required under approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this Title V permit.

#030 [25 Pa. Code §§ 127.516, 127.450(d), 127.449(f) & 127.462(g)]**Permit Shield**

(a) The permittee's compliance with the conditions of this permit shall be deemed in compliance with applicable requirements (as defined in 25 Pa. Code § 121.1) as of the date of permit issuance if either of the following applies:

(1) The applicable requirements are included and are specifically identified in this permit.

(2) The Department specifically identifies in the permit other requirements that are not applicable to the permitted facility or source.

(b) Nothing in 25 Pa. Code § 127.516 or the Title V permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act, including the authority of the Administrator of the EPA provided thereunder.

(2) The liability of the permittee for a violation of an applicable requirement prior to the time of permit issuance.

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act.

(4) The ability of the EPA to obtain information from the permittee under Section 114 of the Clean Air Act.

(c) Unless precluded by the Clean Air Act or regulations thereunder, final action by the Department incorporating a significant permit modification in this Title V Permit shall be covered by the permit shield at the time that the permit containing the significant modification is issued.

#031 [25 Pa. Code §135.3]**Reporting**

(a) 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 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.

#032 [25 Pa. Code §135.4]**Report Format**

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 §123.1]****Prohibition of certain fugitive emissions**

The permittee shall not permit the emission of fugitive air contaminants into the outdoor atmosphere 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 emissions from blasting.
- (8) Sources and classes of sources other than those identified above, for which the operator has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (a) The emissions are of minor significance with respect to causing air pollution;
 - (b) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

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

The permittee shall not permit the emission of fugitive particulate matter into the outdoor atmosphere from a source specified in (1) through (8) in condition #001 herein if the emissions are visible at the point the emissions pass outside the permittee's property.

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

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

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

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

The emission limitations of 25 Pa. Code Section 123.41 shall not apply when:

- (1) The presence of uncombined water is the only reason for failure of the emission to meet the limitations.
- (2) The emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- (3) The emission results from sources specified in (1) through (8) in condition #001 herein.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.91]

The total combined potential volatile organic compound emissions from Source 037 and Source 038 shall never exceed 3 pounds per hour, 15 pounds per day or 2.7 tons per year. Should any of these limitations ever be exceeded a detailed RACT analysis which meets the criteria specified in 25 Pa. Code Section 129.92 must be submitted to the Department for each source.

II. TESTING REQUIREMENTS.**# 006 [25 Pa. Code §139.1]****Sampling facilities.**

Upon the request of the Department, the permittee shall provide adequate sampling ports, safe sampling platforms and adequate utilities for the performance by the Department of tests on a source. The Department will set forth, in the request, the time period in which the facilities shall be provided as well as the specifications for such facilities.

**SECTION C. Site Level Requirements****# 007 [25 Pa. Code §139.11]****General requirements.**

- (1) As specified in 25 Pa. Code Section 139.11(1), performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.
- (2) As specified in 25 Pa. Code Section 139.11(2), the Department will consider test results for approval where sufficient information is provided to verify the source conditions existing at the time of the test and where adequate data is available to show the manner in which the test was conducted. Information submitted to the Department shall include, at a minimum, all of the following:
- (a) A thorough source description, including a description of any air cleaning devices and the flue.
 - (b) Process conditions, for example, the charging rate of raw material or rate of production of final product, boiler pressure, oven temperature and other conditions which may effect emissions from the process.
 - (c) The location of sampling ports.
 - (d) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage of CO, CO₂, O₂ and N₂), static and barometric pressures.
 - (e) Sample collection techniques employed, including procedures used, equipment descriptions and data to verify that isokinetic sampling for particulate matter collection occurred and that acceptable test conditions were met.
 - (f) Laboratory procedures and results.
 - (g) Calculated results.

III. MONITORING REQUIREMENTS.**# 008 [25 Pa. Code §123.43]****Measuring techniques**

Visible air contaminants may be measured using either of the following:

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

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

The permittee shall conduct a weekly inspection of the facility during daylight hours while the facility is operating to detect:

- (1) The presence of visible air contaminant emissions.
- (2) The presence of visible fugitive air contaminant emissions.
- (3) The presence of malodorous air contaminant emission beyond the facility's property boundaries.

All detected visible air contaminant emissions, visible fugitive air contaminant emissions or malodorous air contaminant emissions that have the potential to exceed applicable limits shall be reported to the manager of the facility.

IV. RECORDKEEPING REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain accurate and comprehensive records of the calculations used to verify the volatile organic compound emission limitations specified in condition #005 herein. All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

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

The permittee shall maintain a logbook of the weekly inspections performed at this facility and shall record all occurrences of observed visible air contaminant emissions, visible fugitive air contaminant emissions and malodorous air contaminant emissions, the name of the company representative observing these occurrences and the date and time of each such occurrence. The permittee shall also record the corrective action(s) taken to abate each recorded deviation or to prevent future occurrences. All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**SECTION C. Site Level Requirements****# 012 [25 Pa. Code §135.5]****Recordkeeping**

The permittee shall maintain such records including computerized records as may be necessary to comply with 25 Pa. Code Sections 135.3 and 135.21. These 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. All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

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

The permittee shall submit all requested reports in accordance with the Department's suggested format.

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

- (1) The permittee shall report malfunctions, emergencies or incidents of excess emissions to the Department. A malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. An emergency is any situation arising from sudden and reasonably unforeseeable events beyond the control of the owner or operator of a facility which requires immediate corrective action to restore normal operation and which causes the emission source to exceed emissions, due to unavoidable increases in emissions attributable to the situation. An emergency shall not include situations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
- (2) When the malfunction, emergency or incident of excess emissions poses an imminent danger to the public health, safety, welfare, or environment, it shall be reported to the Department and the County Emergency Management Agency by telephone within one (1) hour after the discovery of the malfunction, emergency or incident of excess emissions. The owner or operator shall submit a written or emailed report of instances of such malfunctions, emergencies or incidents of excess emissions to the Department within three (3) business days of the telephone report.
- (3) The report shall describe the following:
- (a) name, permit or authorization number, and location of the facility,
 - (b) nature and cause of the malfunction, emergency or incident,
 - (c) date and time when the malfunction, emergency or incident was first observed,
 - (d) expected duration of excess emissions,
 - (e) estimated rate of emissions,
 - (f) corrective actions or preventative measures taken.
- (4) Any malfunction, emergency or incident of excess emissions that is not subject to the notice requirements of paragraph (2) of this condition shall be reported to the Department by telephone within 24 hours (or by 4:00 PM of the next business day, whichever is later) of discovery and in writing or by e-mail within five (5) business days of discovery. The report shall contain the same information required by paragraph (3), and any permit specific malfunction reporting requirements.
- (5) During an emergency an owner or operator may continue to operate the source at their discretion provided they submit justification for continued operation of a source during the emergency and follow all the notification and reporting requirements in accordance with paragraphs (2) through (4), as applicable, including any permit specific malfunction reporting requirements.
- (6) Reports regarding malfunctions, emergencies or incidents of excess emissions shall be submitted to the appropriate DEP Regional Office Air Program Manager.
- (7) Any emissions resulted from malfunction or emergency are to be reported in the annual emissions inventory report, if the annual emissions inventory report is required by permit or authorization.

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

The permittee shall submit to the Department records of the calculations used to verify compliance with the volatile organic compound emission limitations as specified in condition #005 herein on an annual basis. The annual report shall be submitted to the Department no later than March 1 for the previous year.

**SECTION C. Site Level Requirements****# 016 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

- (1) The permittee shall submit the annual compliance certifications to the Department and EPA Region III, as specified in condition #024 of Section B, General Title V Requirements, no later than September 1 (from July of the previous year through June of the current year).
- (2) The permittee shall submit the semi-annual reports of required monitoring to the Department, as specified in condition #023 of Section B, General Title V Requirements, no later than September 1 (for January through June) and March 1 (for July through December of the previous year).

The following email address shall be used to submit the annual compliance certifications and semi-annual reports to the EPA Region III: R3_APD_Permits@epa.gov

017 [25 Pa. Code §135.21]**Emission statements**

- (1) The permittee shall provide the Department with a statement of each stationary source in a form as prescribed by the Department, showing the actual emissions of oxides of nitrogen and volatile organic compounds (VOCs) from the permitted facility for each reporting period, a description of the method used to calculate the emissions and the time period over which the calculation is based.
- (2) The annual emission statements are due by March 1 for the preceding calendar year and shall contain a certification by a company officer or the plant manager that the information contained in the statement is accurate. The Emission Statement shall provide data consistent with requirements and guidance developed by the EPA.
- (3) The Department may require more frequent submittals if the Department determines that one or more of the following applies:
- (a) A more frequent submission is required by the EPA.
- (b) Analysis of the data on a more frequent basis is necessary to implement the requirements of the Air Pollution Control Act.

018 [25 Pa. Code §135.3]**Reporting**

- (1) A person who owns or operates a source to which 25 Pa. Code Chapter 135 applies, and who has previously been advised by the Department to submit an annual Air Information Management System (AIMS) report, shall submit by March 1 of each year an annual AIMS report for the preceding calendar year. The report shall include information for all previously reported sources, new sources which were first operated during the preceding calendar year and sources modified during the same period which were not previously reported.
- (2) A person who receives initial notification by the Department that an annual AIMS report is necessary, shall submit an initial annual AIMS report within sixty (60) days after receiving the notification or by March 1 of the year following the year for which the report is required, whichever is later.
- (3) A source owner or operator may request an extension of time from the Department for the filing of an annual AIMS report, and the Department may grant the extension for reasonable cause.

VI. WORK PRACTICE REQUIREMENTS.**# 019 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

The permittee shall take all reasonable actions to prevent particulate matter from becoming airborne from any source specified in (1) through (8) in condition #001 herein. These actions shall include, but not be limited to, the following:

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

**SECTION C. Site Level Requirements****VII. ADDITIONAL REQUIREMENTS.****# 020 [25 Pa. Code §121.7]****Prohibition of air pollution.**

The permittee shall not permit air pollution as that term is defined in the Pennsylvania Air Pollution Control Act (35 P.S. Sections 4001 through 4015).

021 [25 Pa. Code §123.31]**Limitations**

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

022 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

This operating permit also serves as a Prevention of Significant Deterioration (PSD) permit issued subsequent to the provisions of 40 CFR 52.21.

023 [25 Pa. Code §129.14]**Open burning operations**

The permittee shall not permit the open burning of material at this facility unless in accordance with 25 Pa. Code Section 129.14.

VIII. COMPLIANCE CERTIFICATION.

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

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

***** Permit Shield In Effect *****

**SECTION D. Source Level Requirements**

Source ID: 032

Source Name: PEERLESS BOILER

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.22]

Combustion units

The permittee shall not permit the emission of sulfur oxides (SO_x), expressed as SO₂, into the outdoor atmosphere from Source 032 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use pipeline quality natural gas as fuel for Source 032.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source 032 is a 0.065 million Btu per hour, natural gas-fired Peerless model PSCII-03 boiler.



SECTION D. Source Level Requirements

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 033

Source Name: WEIL MCLAIN BOILERS

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.22]

Combustion units

The permittee shall not permit the emission of sulfur oxides (SO_x), expressed as SO₂, into the outdoor atmosphere from the boilers incorporated in Source 033 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use pipeline quality natural gas as fuel for the boilers incorporated in Source 033.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The submission of annual or semi-annual reports required by Subpart DDDDD of the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Industrial Boilers and Process Heaters, 40 CFR 63.7480 through 63.7575, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and electronically to the Environmental Protection Agency. The electronic reports must be submitted using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the EPA e-mail address and Administrator postal address listed below.

The submission of all other requests, applications submittals and other communications required by Subpart DDDDD of the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Industrial

**SECTION D. Source Level Requirements**

Boilers and Process Heaters, 40 CFR 63.7480 through 63.7575, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The copies may be sent to:

R3_Air_Apps_and_Notices@epa.gov

And

Pennsylvania Department of Environmental Protection
Air Quality Program Manager
208 W. Third Street, Suite 101
Williamsport, PA 17701

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7550]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

What reports must I submit and when?

The permittee shall submit a 5 year compliance report for Source 033 covering the period beginning January 31, 2016 and ending on December 31, 2020. Each subsequent compliance report shall cover the 5 year reporting period from January 1 through December 31 following the initial reporting period (i.e. January 1, 2021 through December 31, 2025, January 1, 2026 through December 31, 2030, etc.). All compliance reports shall be postmarked or submitted no later than January 31 of the year following the end of each reporting period.

Compliance reports required herein shall contain the following information:

- (1) Company and facility name and address.
- (2) Process unit information, emissions limitations, and operating parameter limitations.
- (3) Date of report and beginning and ending dates of the reporting period.
- (4) The total operating time during the reporting period.
- (5) The date of the most recent tune-up for Source 033. Include the date of the most recent burner inspection if it was not done during the 5 year period and was delayed until the next scheduled or unscheduled unit shutdown.

All reports required pursuant to this condition shall be submitted electronically using CEDRI that is accessed through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this condition is not available in CEDRI at the time that the report is due, the report shall be submitted to the EPA at the address listed herein. At the discretion of the EPA, the permittee shall submit these reports in the format specified by the EPA.

VI. WORK PRACTICE REQUIREMENTS.

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7510]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

What are my initial compliance requirements and by what date must I conduct them?

[Additional authority for the permit condition is also derived from 40 CFR Sections 63.7515 and 63.7540]

The permittee shall tune-up the boilers incorporated in Source 033 every five (5) years in accordance with the procedures specified in condition #006 herein. Each 5-year tune-up shall be conducted no more than 61 months after the previous tune-up. If the boiler is not operating on the required date for a tune-up, the tune-up shall be conducted within 30 days of startup.

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7540]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

How do I demonstrate continuous compliance with the emission limitations, fuel specifications and work practice standards?

The permittee shall conduct a tune-up of the boilers incorporated in Source 033 every 5 years in accordance with the

**SECTION D. Source Level Requirements**

following procedures:

- (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). At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment.
- (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).
- (4) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available.
- (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 Department, an annual report containing the information in subsections (6)(a) and (6)(b) of this condition:
 - (a) 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 or process heater;
 - (b) A description of any corrective actions taken as a part of the tune-up.

VII. ADDITIONAL REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source 033 are two (2) 1.701 million Btu per hour, natural gas-fired Weil McLain model 688 boilers.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7485]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

Am I subject to this subpart?

The boilers incorporated in Source 033 shall comply with all applicable requirements specified in Subpart DDDDD of the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Industrial Boilers and Process Heaters, 40 CFR 63.7480 through 63.7575.

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 037

Source Name: PIPELINE HEATERS

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.22]

Combustion units

The permittee shall not permit the emission of sulfur oxides (SO_x), expressed as SO₂, into the outdoor atmosphere from the pipeline heaters incorporated in Source 037 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use pipeline quality natural gas as fuel for the pipeline heaters incorporated in Source 037.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The submission of annual or semi-annual reports required by Subpart DDDDD of the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Industrial Boilers and Process Heaters, 40 CFR 63.7480 through 63.7575, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and electronically to the Environmental Protection Agency. The electronic reports must be submitted using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the EPA e-mail address and Administrator postal address listed below.

The submission of all other requests, applications submittals and other communications required by Subpart DDDDD of

**SECTION D. Source Level Requirements**

the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Industrial Boilers and Process Heaters, 40 CFR 63.7480 through 63.7575, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The copies may be sent to:

R3_Air_Apps_and_Notices@epa.gov

And

Pennsylvania Department of Environmental Protection
Air Quality Program Manager
208 W. Third Street, Suite 101
Williamsport, PA 17701

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7550]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

What reports must I submit and when?

The permittee shall submit a 5 year compliance report for the pipeline heaters incorporated in Source 037 covering the period beginning January 31, 2016 and ending on December 31, 2020. Each subsequent compliance report shall cover the 5 year reporting period from January 1 through December 31 following the initial reporting period (i.e. January 1, 2021 through December 31, 2025, January 1, 2026 through December 31, 2030, etc.). All compliance reports shall be postmarked or submitted no later than January 31 of the year following the end of each reporting period.

Compliance reports required herein shall contain the following information:

- (1) Company and facility name and address.
- (2) Process unit information, emissions limitations, and operating parameter limitations.
- (3) Date of report and beginning and ending dates of the reporting period.
- (4) The total operating time during the reporting period.
- (5) The date of the most recent tune-up for Source 037. Include the date of the most recent burner inspection if it was not done during the 5 year period and was delayed until the next scheduled or unscheduled unit shutdown.

All reports required pursuant to this condition shall be submitted electronically using CEDRI that is accessed through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this condition is not available in CEDRI at the time that the report is due, the report shall be submitted to the EPA at the address listed herein. At the discretion of the EPA, the permittee shall submit these reports in the format specified by the EPA.

VI. WORK PRACTICE REQUIREMENTS.

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7510]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

What are my initial compliance requirements and by what date must I conduct them?

[Additional authority for the permit condition is also derived from 40 CFR Sections 63.7515 and 63.7540]

The permittee shall tune-up the heaters incorporated in Source 037 every five (5) years in accordance with the procedures specified in condition #006 herein. Each 5-year tune-up shall be conducted no more than 61 months after the previous tune-up. If the boiler is not operating on the required date for a tune-up, the tune-up shall be conducted within 30 days of startup.

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7540]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

How do I demonstrate continuous compliance with the emission limitations, fuel specifications and work practice standards?

**SECTION D. Source Level Requirements**

The permittee shall conduct a tune-up of the pipeline heaters incorporated in Source 037 every 5 years in accordance with the following procedures:

- (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). At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment.
- (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).
- (4) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available.
- (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 Department, an annual report containing the information in subsections (6)(a) and (6)(b) of this condition:
 - (a) 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 or process heater;
 - (b) A description of any corrective actions taken as a part of the tune-up.

VII. ADDITIONAL REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source 037 are two (2) 0.385 million Btu per hour, natural gas-fired CWT pipeline heaters.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7485]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

Am I subject to this subpart?

The pipeline heaters incorporated in Source 037 shall comply with all applicable requirements specified in Subpart DDDDD of the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Industrial Boilers and Process Heaters, 40 CFR 63.7480 through 63.7575.

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 038

Source Name: WATER HEATERS

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.22]

Combustion units

The permittee shall not permit the emission of sulfur oxides (SOx), expressed as SO₂, into the outdoor atmosphere from the water heaters incorporated in Source 038 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use pipeline quality natural gas as fuel for the water heaters incorporated in Source 038.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.****# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Source 038 is comprised of three (3) 0.04 million Btu per hour, natural gas-fired water heaters.

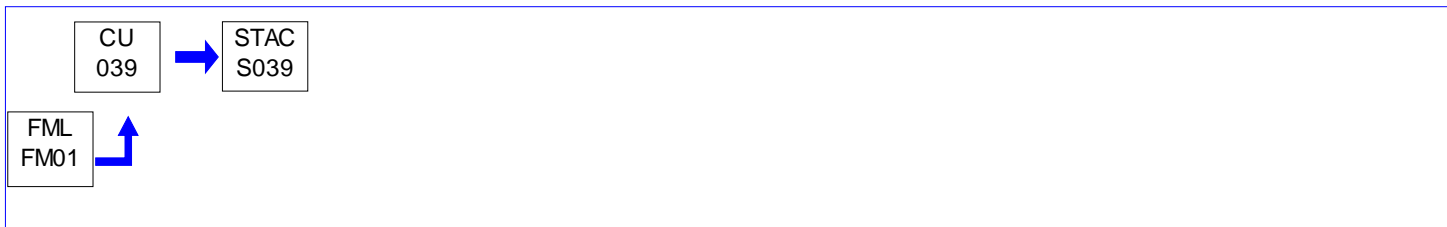
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 039

Source Name: SPACE HEATERS

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.22]

Combustion units

The permittee shall not permit the emission of sulfur oxides (SOx), expressed as SO₂, into the outdoor atmosphere from the space heaters incorporated in Source 039 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use pipeline quality natural gas as fuel for the space heaters incorporated in Source 039.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.****# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Source 039 is comprised of two (2) 0.145 million Btu per hour, natural gas-fired space heaters.

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 040

Source Name: BURNHAM BOILERS

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.22]

Combustion units

The permittee shall not permit the emission of sulfur oxides (SO_x), expressed as SO₂, into the outdoor atmosphere from the boilers incorporated in Source 040 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use pipeline quality natural gas as fuel for the boilers incorporated in Source 040.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source 040 is comprised of two (2) 0.374 million Btu per hour, natural gas-fired Burnham boilers.



SECTION D. Source Level Requirements

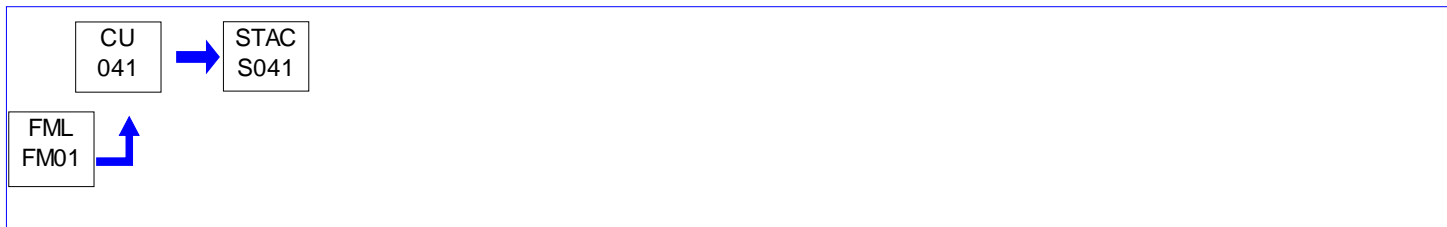
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 041

Source Name: GAS TECH PIPELINE HEATERS

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.11]

Combustion units

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from the pipeline heaters incorporated in Source 041 in excess of 0.4 pounds per million Btu of heat input.

002 [25 Pa. Code §123.22]

Combustion units

The permittee shall not permit the emission of sulfur oxides (SOx), expressed as SO₂, into the outdoor atmosphere from the pipeline heaters incorporated in Source 041 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

Fuel Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use pipeline quality natural gas as fuel for the pipeline heaters incorporated in Source 041.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The submission of annual or semi-annual reports required by Subpart DDDDD of the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Industrial Boilers and Process Heaters, 40 CFR 63.7480 through 63.7575, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and electronically to the Environmental Protection Agency. The electronic reports must be submitted using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange

**SECTION D. Source Level Requirements**

(CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the EPA e-mail address and Administrator postal address listed below.

The submission of all other requests, applications submittals and other communications required by Subpart DDDDD of the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters, 40 CFR 63.7480 through 63.7575, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The copies may be sent to:

R3_Air_Apps_and_Notices@epa.gov

And

Pennsylvania Department of Environmental Protection
Air Quality Program Manager
208 W. Third Street, Suite 101
Williamsport, PA 17701

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7550]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

What reports must I submit and when?

The permittee shall submit a biennial compliance report for each pipeline heater incorporated in Source 041 covering the period beginning January 31, 2016 and ending on December 31, 2017. Each subsequent compliance report shall cover the 2 year reporting period from January 1 through December 31 following the initial reporting period (i.e. January 1, 2018 through December 31, 2019, January 1, 2020 through December 31, 2021, etc.). All compliance reports shall be postmarked or submitted no later than January 31 of the year following the end of each reporting period.

Compliance reports required herein shall contain the following information:

- (1) Company and facility name and address.
- (2) Process unit information, emissions limitations, and operating parameter limitations.
- (3) Date of report and beginning and ending dates of the reporting period.
- (4) The total operating time during the reporting period.
- (5) The date of the most recent tune-up for each pipeline heater incorporated in Source 041. Include the date of the most recent burner inspection for each pipeline heater if it was not done during the 5 year period and was delayed until the next scheduled or unscheduled unit shutdown.

All reports required pursuant to this condition shall be submitted electronically using CEDRI that is accessed through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this condition is not available in CEDRI at the time that the report is due, the report shall be submitted to the EPA at the address listed herein. At the discretion of the EPA, the permittee shall submit these reports in the format specified by the EPA.

VI. WORK PRACTICE REQUIREMENTS.

006 [25 Pa. Code §129.97]

Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.

The pipeline heaters incorporated in Source 041 shall be maintained and operated in accordance with the manufacturer's specifications and with good operating practices.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7510]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

What are my initial compliance requirements and by what date must I conduct them?

[Additional authority for the permit condition is also derived from 40 CFR Sections 63.7515 and 63.7540]

**SECTION D. Source Level Requirements**

By no later than January 31, 2016, the permittee shall complete an initial tune-up of each pipeline heater incorporated in Source 041 in accordance with the procedures specified in condition #008 herein. Thereafter, each biennial tune-up shall be conducted no more than 25 months after the previous tune-up. If the source is not operating on the required date for a tune-up, the tune-up shall be conducted within 30 days of startup.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7540]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

How do I demonstrate continuous compliance with the emission limitations, fuel specifications and work practice standards?

The permittee shall conduct a biennial tune-up of each pipeline heater incorporated in Source 041 in accordance with the following procedures:

- (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). At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment.
- (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).
- (4) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available.
- (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 Department, an annual report containing the information in subsections (6)(a) and (6)(b) of this condition:
 - (a) 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 or process heater;
 - (b) A description of any corrective actions taken as a part of the tune-up.

VII. ADDITIONAL REQUIREMENTS.**# 009 [25 Pa. Code §127.441]**

Operating permit terms and conditions.

Source 041 is comprised of two (2) 7.96 million Btu per hour, natural gas-fired Gas Tech pipeline heaters.

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7485]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

Am I subject to this subpart?

The pipeline heaters incorporated in Source 041 shall comply with all applicable requirements specified in Subpart DDDDD of the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Industrial Boilers and Process Heaters, 40 CFR 63.7480 through 63.7575.

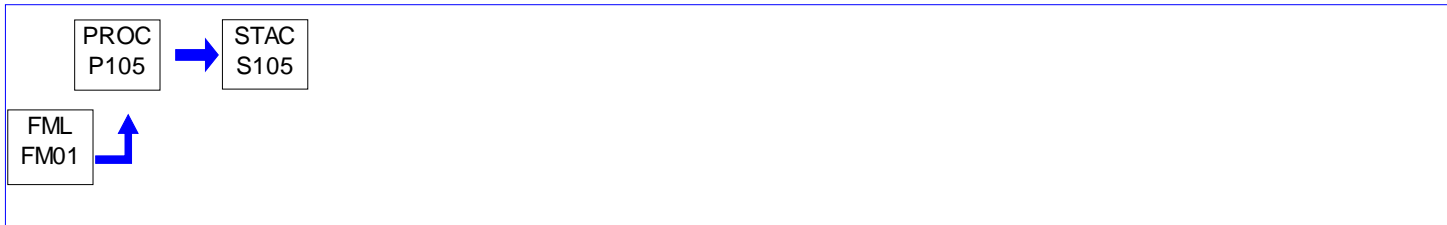
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P105

Source Name: 1000 BHP, I-R 36 KVS ENG #5, SN 36FT480

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.13]

Processes

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P105 in such a manner that the concentration in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

The permittee shall not permit the emission of sulfur oxides (SOx), expressed as SO₂, into the outdoor atmosphere from Source P105 in such a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 129.91 and 129.97]

The emission of nitrogen oxides (NO_x, expressed as NO₂) from Source P105 shall not exceed 3.0 gram per brake-horsepower hour and 6.61 pounds per hour. The emission of volatile organic compounds from Source P105, excluding formaldehyde, shall not exceed 1.0 gram per brake-horsepower hour and 2.20 pounds per hour.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The emission of carbon monoxide from Source P105 shall not exceed 6.60 pounds per hour.

Fuel Restriction(s).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

The permittee shall use only pipeline quality natural gas as fuel for Source P105.

Operation Hours Restriction(s).

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

Source P105 shall not be operated in excess of 6,350 hours in any 12 consecutive month period.

II. TESTING 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 Sections 129.91 and 129.100]

**SECTION D. Source Level Requirements**

(1) By no later than January 1, 2017, and by no later than every five years thereafter (January 1, 2022, January 1, 2027, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform stack testing on Source P105 to determine the nitrogen oxides (NO_x, expressed as NO₂), carbon monoxide and volatile organic compound emission rates from the source using test methods and procedures deemed acceptable by the Department. All testing shall be performed while the source is operating within 70% to 100% of rated torque and at 300 RPM to 330 RPM.

(2) At least 90 days prior to the performance of any testing required herein, the permittee shall submit an electronic copy in pdf format of a pretest protocol to the Northcentral Regional Air Program Manager (RA-EPNCstacktesting@pa.gov) and to the Source Testing Section Program Manager (RA-EPstacktesting@pa.gov) for review. This protocol shall describe the test methods and procedures to be used in the performance of testing and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.

(3) At least 14 days prior to the performance of any testing required herein, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

(1) The permittee shall perform nitrogen oxides (NO_x, expressed as NO₂) and carbon monoxide testing upon Source P105 at six-month intervals using a portable gas analyzer. The test protocol for performing nitrogen oxides and carbon monoxide testing using a portable gas analyzer shall be approved by the Department at least one time.

(2) This testing shall be performed twice per calendar year, once during the time frame from January 1 to June 30 and once during the time frame from July 1 to December 31. The time period between testing shall be no more than 9 months and no less than 4 months.

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain comprehensive and accurate records of the following information for Source P105:

(1) The calculations used to verify compliance with the nitrogen oxides, carbon monoxide, volatile organic compound, particulate matter and sulfur oxides emission limitations for Source P105.

(2) The results of the semi-annual nitrogen oxides and carbon monoxide testing using a portable gas analyzer.

(3) Stack test reports.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to the Department upon request.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.95]

The permittee shall maintain accurate and comprehensive records of the following operating parameters of Source P105 at least once per 8-hour manned shift:

(1) engine speed

(2) spark position

(3) developed torque

**SECTION D. Source Level Requirements**

- (4) fuel manifold pressure
- (5) air manifold pressure
- (6) air manifold temperature

The permittee shall also maintain accurate and comprehensive records of the number of hours Source P105 is operated each month.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to the Department upon request.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

The results of all portable analyzer testing performed on Source P105 shall be submitted to the Department within 30 days of test performance.

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

The permittee shall submit accurate and comprehensive records of the number of hours Source P105 is operated each month to the Department on a semi-annual basis. The semi-annual reports shall be submitted to the Department no later than September 1 and March 1 for the previous 12 consecutive month period.

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

Additional authority for this permit condition is also derived from 25 Pa. Code Sections 129.91 and 129.100]

Within 60 days following the completion of any testing required herein, the permittee shall submit an electronic copy in pdf format of a test report to the Northcentral Regional Air Program Manager (RA-EPNCstacktesting@pa.gov) and the Source Testing Section Program Manager (RA-EPstacktesting@pa.gov) for review. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of all testing shall be expressed in units which will allow direct comparisons to the emissions limitations specified herein.

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

The submission of annual or semi-annual reports required by Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and electronically to the Environmental Protection Agency. The electronic reports must be submitted using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the EPA e-mail address and Administrator postal address listed below.

The submission of all other requests, applications submittals and other communications required by Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The copies may be sent to:

R3_Air_Apps_and_Notices@epa.gov

And

**SECTION D. Source Level Requirements**

Pennsylvania Department of Environmental Protection
 Air Quality Program Manager
 208 W. Third Street, Suite 101
 Williamsport, PA 17701

VI. WORK PRACTICE REQUIREMENTS.

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

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

Source P105 is a 1000 horsepower, four-stroke, lean-burn, natural gas-fired Ingersoll-Rand model 36 KVS internal combustion engine.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

Source P105 shall be equipped with low emission combustion technology.

017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****Am I subject to this subpart?**

Source P105 shall comply with all applicable requirements specified in Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants, 40 CFR 63.6580 through 63.6675.

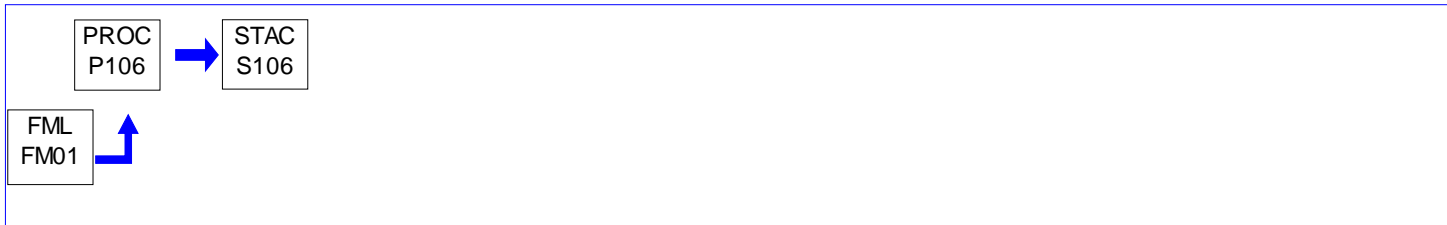
*** **Permit Shield in Effect.** ***

**SECTION D. Source Level Requirements**

Source ID: P106

Source Name: 2000 BHP, I-R 512 KVS ENG #6, SN 512FT576

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.13]

Processes

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P106 in such a manner that the concentration in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

The permittee shall not permit the emission of sulfur oxides (SOx), expressed as SO₂, into the outdoor atmosphere from Source P106 in such a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 129.91 and 129.97]

The emission of nitrogen oxides (NO_x, expressed as NO₂) from Source P106 shall not exceed 3.0 gram per brake-horsepower hour and 13.23 pounds per hour. The emission of volatile organic compounds from Source P106, excluding formaldehyde, shall not exceed 1.0 gram per brake-horsepower hour and 4.41 pounds per hour.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The emission of carbon monoxide from Source P106 shall not exceed 13.20 pounds per hour.

Fuel Restriction(s).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

The permittee shall use only pipeline quality natural gas as fuel for Source P106.

Operation Hours Restriction(s).

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

Source P106 shall not be operated in excess of 6,350 hours in any 12 consecutive month period.

II. TESTING 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 Section 129.91]

**SECTION D. Source Level Requirements**

- (1) The permittee shall perform nitrogen oxides (NO_x, expressed as NO₂) and carbon monoxide testing upon Source P106 at six-month intervals using a portable gas analyzer. The test protocol for performing nitrogen oxides and carbon monoxide testing using a portable gas analyzer shall be approved by the Department at least one time.
- (2) This testing shall be performed twice per calendar year, once during the time frame from January 1 to June 30 and once during the time frame from July 1 to December 31. The time period between testing shall be no more than 9 months and no less than 4 months.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 129.91 and 129.100]

- (1) By no later than January 1, 2017, and by no later than every five years thereafter (January 1, 2022, January 1, 2027, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform stack testing on Source P106 to determine the nitrogen oxides (NO_x, expressed as NO₂), carbon monoxide and volatile organic compound emission rates from the source using test methods and procedures deemed acceptable by the Department. All testing shall be performed while the source is operating within 70% to 100% of rated torque and at 300 RPM to 330 RPM.
- (2) At least 90 days prior to the performance of any testing required herein, the permittee shall submit an electronic copy in pdf format of a pretest protocol to the Northcentral Regional Air Program Manager (RA-EPNCstacktesting@pa.gov) and to the Source Testing Section Program Manager (RA-EPstacktesting@pa.gov) for review. This protocol shall describe the test methods and procedures to be used in the performance of testing and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.
- (3) At least 14 days prior to the performance of any testing required herein, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.95]

The permittee shall maintain accurate and comprehensive records of the following operating parameters of Source P106 at least once per 8-hour manned shift:

- (1) engine speed
- (2) spark position
- (3) developed torque
- (4) fuel manifold pressure
- (5) air manifold pressure
- (6) air manifold temperature

The permittee shall also maintain accurate and comprehensive records of the number of hours Source P106 is operated each month.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to the Department upon request.

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

The permittee shall maintain comprehensive and accurate records of the following information for Source P106:

- (1) The calculations used to verify compliance with the nitrogen oxides, carbon monoxide, volatile organic compound, particulate matter and sulfur oxides emission limitations for Source P106.
- (2) The results of the semi-annual nitrogen oxides and carbon monoxide testing using a portable gas analyzer.
- (3) Stack test reports.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to the Department upon request.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

The results of all portable analyzer testing performed on Source P106 shall be submitted to the Department within 30 days of test performance.

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

The permittee shall submit accurate and comprehensive records of the number of hours Source P106 is operated each month to the Department on a semi-annual basis. The semi-annual reports shall be submitted to the Department no later than September 1 and March 1 for the previous 12 consecutive month period.

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

Additional authority for this permit condition is also derived from 25 Pa. Code Sections 129.91 and 129.100]

Within 60 days following the completion of any testing required herein, the permittee shall submit an electronic copy in pdf format of a test report to the Northcentral Regional Air Program Manager (RA-EPNCstacktesting@pa.gov) and the Source Testing Section Program Manager (RA-EPstacktesting@pa.gov) for review. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of all testing shall be expressed in units which will allow direct comparisons to the emissions limitations specified herein.

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

The submission of annual or semi-annual reports required by Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and electronically to the Environmental Protection Agency. The electronic reports must be submitted using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the EPA e-mail address and Administrator postal address listed below.

The submission of all other requests, applications submittals and other communications required by Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The copies may be sent to:

R3_Air_Apps_and_Notices@epa.gov

**SECTION D. Source Level Requirements**

And

Pennsylvania Department of Environmental Protection
 Air Quality Program Manager
 208 W. Third Street, Suite 101
 Williamsport, PA 17701

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

Source P106 shall be equipped with low emission combustion technology.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source P106 is a 2000 horsepower, four-stroke, lean-burn, natural gas-fired Ingersoll-Rand model 512 KVS internal combustion engine.

017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**Am I subject to this subpart?**

Source P106 shall comply with all applicable requirements specified in Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants, 40 CFR 63.6580 through 63.6675.

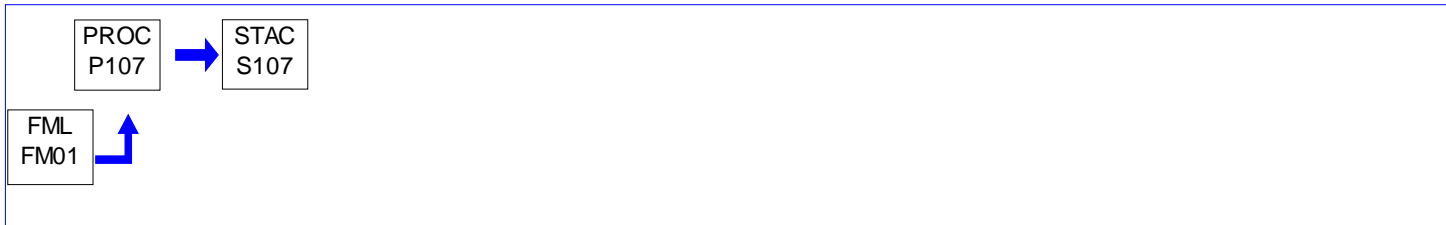
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P107

Source Name: 2000 BHP, I-R 512 KVS ENG #7, SN 512FT577

Source Capacity/Throughput:

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

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P107 in such a manner that the concentration in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

The permittee shall not permit the emission of sulfur oxides (SOx), expressed as SO₂, into the outdoor atmosphere from Source P107 in such a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 129.91 and 129.97]

The emission of nitrogen oxides (NO_x, expressed as NO₂) from Source P107 shall not exceed 3.0 gram per brake-horsepower hour and 13.23 pounds per hour. The emission of volatile organic compounds from Source P107, excluding formaldehyde, shall not exceed 1.0 gram per brake-horsepower hour and 4.41 pounds per hour.

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

The emission of carbon monoxide from Source P107 shall not exceed 13.20 pounds per hour.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

The permittee shall use only pipeline quality natural gas as fuel for Source P107.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

Source P107 shall not be operated in excess of 6,350 hours in any 12 consecutive month period.

II. TESTING 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 Sections 129.91 and 129.100]

**SECTION D. Source Level Requirements**

(1) By no later than January 1, 2017, and by no later than every five years thereafter (January 1, 2022, January 1, 2027, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform stack testing on Source P107 to determine the nitrogen oxides (NO_x, expressed as NO₂), carbon monoxide and volatile organic compound emission rates from the source using test methods and procedures deemed acceptable by the Department. All testing shall be performed while the source is operating within 70% to 100% of rated torque and at 300 RPM to 330 RPM.

(2) At least 90 days prior to the performance of any testing required herein, the permittee shall submit an electronic copy in pdf format of a pretest protocol to the Northcentral Regional Air Program Manager (RA-EPNCstacktesting@pa.gov) and to the Source Testing Section Program Manager (RA-EPstacktesting@pa.gov) for review. This protocol shall describe the test methods and procedures to be used in the performance of testing and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.

(3) At least 14 days prior to the performance of any testing required herein, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

(1) The permittee shall perform nitrogen oxides (NO_x, expressed as NO₂) and carbon monoxide testing upon Source P107 at six-month intervals using a portable gas analyzer. The test protocol for performing nitrogen oxides and carbon monoxide testing using a portable gas analyzer shall be approved by the Department at least one time.

(2) This testing shall be performed twice per calendar year, once during the time frame from January 1 to June 30 and once during the time frame from July 1 to December 31. The time period between testing shall be no more than 9 months and no less than 4 months.

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.95]

The permittee shall maintain accurate and comprehensive records of the following operating parameters of Source P107 at least once per 8-hour manned shift:

- (1) engine speed
- (2) spark position
- (3) developed torque
- (4) fuel manifold pressure
- (5) air manifold pressure
- (6) air manifold temperature

The permittee shall also maintain accurate and comprehensive records of the number of hours Source P107 is operated each month.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to the Department upon request.

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

The permittee shall maintain accurate and comprehensive records of the following information for Source P107:

- (1) The calculations used to verify compliance with the nitrogen oxides, carbon monoxide, volatile organic compound, particulate matter and sulfur oxides emission limitations for Source P107.
- (2) The results of the semi-annual nitrogen oxides and carbon monoxide testing using a portable gas analyzer.
- (3) Stack test reports.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to the Department upon request.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

The results of all portable analyzer testing performed on Source P107 shall be submitted to the Department within 30 days of test performance.

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

The permittee shall submit accurate and comprehensive records of the number of hours Source P107 is operated each month to the Department on a semi-annual basis. The semi-annual reports shall be submitted to the Department no later than September 1 and March 1 for the previous 12 consecutive month period.

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

Additional authority for this permit condition is also derived from 25 Pa. Code Sections 129.91 and 129.100]

Within 60 days following the completion of any testing required herein, the permittee shall submit an electronic copy in pdf format of a test report to the Northcentral Regional Air Program Manager (RA-EPNCstacktesting@pa.gov) and the Source Testing Section Program Manager (RA-EPstacktesting@pa.gov) for review. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of all testing shall be expressed in units which will allow direct comparisons to the emissions limitations specified herein.

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

The submission of annual or semi-annual reports required by Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and electronically to the Environmental Protection Agency. The electronic reports must be submitted using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the EPA e-mail address and Administrator postal address listed below.

The submission of all other requests, applications submittals and other communications required by Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The copies may be sent to:

R3_Air_Apps_and_Notices@epa.gov

**SECTION D. Source Level Requirements**

And

Pennsylvania Department of Environmental Protection
 Air Quality Program Manager
 208 W. Third Street, Suite 101
 Williamsport, PA 17701

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

Source P107 shall be equipped with low emission combustion technology.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source P107 is a 2000 horsepower, four-stroke, lean-burn, natural gas-fired Ingersoll-Rand model 512 KVS internal combustion engine.

017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**Am I subject to this subpart?**

Source P107 shall comply with all applicable requirements specified in Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants, 40 CFR 63.6580 through 63.6675.

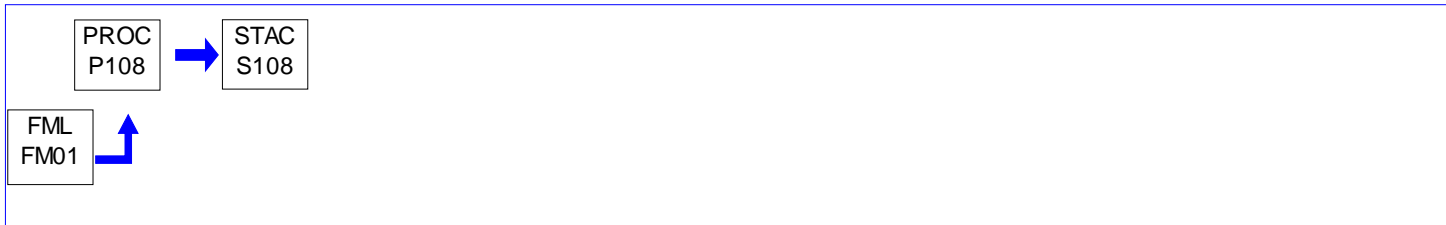
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P108

Source Name: 2850 BHP, DRESSER-RAND 412 KVSE-1 ENG #8, SN 412KVSE102EP

Source Capacity/Throughput:

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

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P108 in such a manner that the concentration in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

The permittee shall not permit the emission of sulfur oxides (SOx), expressed as SO₂, into the outdoor atmosphere from Source P108 in such a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of carbon monoxide from Source P108 shall not exceed 18.83 pounds per hour.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12, 129.91 and 129.97. Additional authority for the nitrogen oxides "pounds per hour" limitation is also derived from 40 CFR Section 52.21]

The emission of nitrogen oxides (NO_x, expressed as NO₂) from Source P108 shall not exceed 3.0 gram per brake-horsepower hour and 18.83 pounds per hour. The emission of volatile organic compounds from Source P108, excluding formaldehyde, shall not exceed 1.0 gram per brake-horsepower hour and 6.28 pounds per hour.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12 and 129.91, as well as 40 CFR Section 52.21]

The permittee shall use only pipeline quality natural gas as fuel for Source P108.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

(1) The permittee shall perform nitrogen oxides (NO_x, expressed as NO₂) carbon monoxide testing upon Source P108 at six-month intervals using a portable gas analyzer. The test protocol for performing nitrogen oxides and carbon monoxide testing using a portable gas analyzer shall be approved by the Department at least one time.

**SECTION D. Source Level Requirements**

(2) This testing shall be performed twice per calendar year, once during the time frame from January 1 to June 30 and once during the time frame from July 1 to December 31. The time period between testing shall be no more than 9 months and no less than 4 months.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Additional authority for this permit condition is also derived from 25 Pa. Code Sections 129.91 and 129.100]

(1) By no later than January 1, 2017, and by no later than every five years thereafter (January 1, 2022, January 1, 2027, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform stack testing on Source P108 to determine the nitrogen oxides (NO_x, expressed as NO₂), carbon monoxide and volatile organic compound emission rates from the source using test methods and procedures deemed acceptable by the Department. All testing shall be performed while the source is operating within 10% of 100% peak (or the highest achievable) load, but not less than 70% of full load.

(2) At least 90 days prior to the performance of any testing required herein, the permittee shall submit an electronic copy in pdf format of a pretest protocol to the Northcentral Regional Air Program Manager (RA-EPNCstacktesting@pa.gov) and to the Source Testing Section Program Manager (RA-EPstacktesting@pa.gov) for review. This protocol shall describe the test methods and procedures to be used in the performance of testing and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.

(3) At least 14 days prior to the performance of any testing required herein, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.95]

The permittee shall maintain accurate and comprehensive records of the following operating parameters of Source P108 at least once per 8-hour manned shift:

- (1) engine speed
- (2) spark position
- (3) developed torque
- (4) fuel manifold pressure
- (5) air manifold pressure
- (6) air manifold temperature

The permittee shall also maintain accurate and comprehensive records of the number of hours Source P108 is operated each month.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to the Department upon request.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain accurate and comprehensive records of the following information for Source P108:

**SECTION D. Source Level Requirements**

- (1) The calculations used to verify compliance with the nitrogen oxides, carbon monoxide, nonmethane hydrocarbon, particulate matter and sulfur oxides emission limitations for Source P108.
- (2) The results of the semi-annual nitrogen oxides and carbon monoxide testing using a portable gas analyzer.
- (3) Stack test reports.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to the Department upon request.

V. REPORTING REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The submission of annual or semi-annual reports required by Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and electronically to the Environmental Protection Agency. The electronic reports must be submitted using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the EPA e-mail address and Administrator postal address listed below.

The submission of all other requests, applications submittals and other communications required by Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The copies may be sent to:

R3_Air_Apps_and_Notices@epa.gov

And

Pennsylvania Department of Environmental Protection
Air Quality Program Manager
208 W. Third Street, Suite 101
Williamsport, PA 17701

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

The results of all portable analyzer testing performed on Source P108 shall be submitted to the Department within 30 days of test performance.

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

The permittee shall submit accurate and comprehensive records of the number of hours Source P108 is operated each month to the Department on a semi-annual basis. The semi-annual reports shall be submitted to the Department no later than September 1 and March 1 for the previous 12 consecutive month period.

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

Additional authority for this permit condition is also derived from 25 Pa. Code Sections 129.91 and 129.100]

Within 60 days following the completion of any testing required herein, the permittee shall submit an electronic copy in pdf format of a test report to the Northcentral Regional Air Program Manager (RA-EPNCstacktesting@pa.gov) and the Source Testing Section Program Manager (RA-EPstacktesting@pa.gov) for review. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations

**SECTION D. Source Level Requirements**

and copies of all process data recorded during testing. The results of all testing shall be expressed in units which will allow direct comparisons to the emissions limitations specified herein.

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12 and 129.91, as well as 40 CFR Section 52.21]

Source P108 is a 2850 horsepower, four-stroke, lean-burn, natural gas-fired Ingersoll-Rand model 412 KVSE-1 internal combustion engine.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

Source P108 shall be equipped with low emission combustion technology.

016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**Am I subject to this subpart?**

Source P108 shall comply with all applicable requirements specified in Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants, 40 CFR 63.6580 through 63.6675.

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P109

Source Name: 3000 BHP, COOP-BESS 8Q155JHC2, ENG #9, SN 49802

Source Capacity/Throughput:

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

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P109 in such a manner that the concentration in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

The permittee shall not permit the emission of sulfur oxides (SOx), expressed as SO₂, into the outdoor atmosphere from Source P109 in such a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12, 129.91 and 129.97. Additional authority for the nitrogen oxides "pounds per hour" and "tons in any 12 consecutive month period" limitations are also derived from 40 CFR Section 52.21]

The emission of nitrogen oxides (NO_x, expressed as NO₂) from Source P109 shall not exceed 3.0 gram per brake-horsepower hour and 13.20 pounds per hour. The emission of volatile organic compounds from Source P109, excluding formaldehyde, shall not exceed 1.0 gram per brake-horsepower hour and 4.95 pounds per hour.

The total combined emission of nitrogen oxides (NO_x, expressed as NO₂) from Sources P109 and P110 shall not exceed 83.30 tons in any 12 consecutive month period. The total combined emission of volatile organic compounds from Sources P109 and P110 shall not exceed 31.20 tons in any 12 consecutive month period.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of air contaminants from Source P109 shall not exceed the following limitations:

- (1) carbon monoxide - 15.2 pounds per hour
- (2) particulate matter – 0.20 pounds per hour
- (3) sulfur oxides (SO_x, expressed as SO₂) – 0.012 pounds per hour

The total combined emission of carbon monoxide from Sources P109 and P110 shall not exceed 95.7 tons in any 12 consecutive month period.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12 and 129.91, as well as 40 CFR Section 52.21]

**SECTION D. Source Level Requirements**

The permittee shall use only pipeline quality natural gas as fuel for Source P109.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12 and 129.91, as well as 40 CFR Section 52.21]

Sources P109 and P110 shall not be operated in excess of a combined total of 12,600 hours in any 12 consecutive month period.

II. TESTING 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 Section 129.91]

- (1) The permittee shall perform nitrogen oxides (NO_x, expressed as NO₂) and carbon monoxide testing upon Source P109 at six-month intervals using a portable gas analyzer. The test protocol for performing nitrogen oxides and carbon monoxide and testing using a portable gas analyzer shall be approved by the Department at least one time.
- (2) This testing shall be performed twice per calendar year, once during the time frame from January 1 to June 30 and once during the time frame from July 1 to December 31. The time period between testing shall be no more than 9 months and no less than 4 months.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 129.91 and 129.100]

- (1) By no later than January 1, 2017, and by no later than every five years thereafter (January 1, 2022, January 1, 2027, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform stack testing on Source P109 to determine the nitrogen oxides (NO_x, expressed as NO₂), carbon monoxide and volatile organic compound emission rates from the source using test methods and procedures deemed acceptable by the Department. All testing shall be performed while the source is operating within 10% of 100% peak (or the highest achievable) load, but not less than 70% of full load.
- (2) At least 90 days prior to the performance of any testing required herein, the permittee shall submit an electronic copy in pdf format of a pretest protocol to the Northcentral Regional Air Program Manager (RA-EPNCstacktesting@pa.gov) and to the Source Testing Section Program Manager (RA-EPstacktesting@pa.gov) for review. This protocol shall describe the test methods and procedures to be used in the performance of testing and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.
- (3) At least 14 days prior to the performance of any testing required herein, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

III. MONITORING REQUIREMENTS.

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

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.95]

The permittee shall maintain accurate and comprehensive records of the following operating parameters of Source P109 at least once per 8-hour manned shift:

- (1) engine speed
- (2) spark position
- (3) developed torque
- (4) fuel manifold pressure
- (5) air manifold pressure
- (6) air manifold temperature

The permittee shall also maintain accurate and comprehensive records of the number of hours Source P109 is operated each month.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to the Department upon request.

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

The permittee shall maintain accurate and comprehensive records of the following information for Source P109:

- (1) The calculations used to verify compliance with the nitrogen oxides, carbon monoxide, nonmethane hydrocarbon, particulate matter and sulfur oxides emission limitations for Source P109.
- (2) The results of the semi-annual nitrogen oxides and carbon monoxide testing using a portable gas analyzer.
- (3) Stack test reports.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to the Department upon request.

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

Additional authority for this permit condition is also derived from 25 Pa. Code Sections 129.91 and 129.100]

Within 60 days following the completion of any testing required herein, the permittee shall submit an electronic copy in pdf format of a test report to the Northcentral Regional Air Program Manager (RA-EPNCstacktesting@pa.gov) and the Source Testing Section Program Manager (RA-EPstacktesting@pa.gov) for review. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of all testing shall be expressed in units which will allow direct comparisons to the emissions limitations specified herein.

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

The permittee shall submit semi-annual reports to the Department of the following:

- (1) The calculations used to verify compliance with the 12 consecutive month period nitrogen oxides, carbon monoxide and nonmethane hydrocarbon emission limitations for Sources P109 and P110 for each month during the respective semi-annual period.
- (2) The number of hours Source P109 is operated each month during the respective semi-annual period.

The semi-annual reports shall be submitted to the Department no later than September 1 and March 1 for the previous 12 consecutive month period.

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

Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

The results of all portable analyzer testing performed on Source P109 shall be submitted to the Department within 30 days of test performance.

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

The submission of annual or semi-annual reports required by Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and electronically to the Environmental Protection Agency. The electronic reports must be submitted using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the EPA e-mail address and Administrator postal address listed below.

The submission of all other requests, applications submittals and other communications required by Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The copies may be sent to:

R3_Air_Apps_and_Notices@epa.gov

And

Pennsylvania Department of Environmental Protection
Air Quality Program Manager
208 W. Third Street, Suite 101
Williamsport, PA 17701

VI. WORK PRACTICE REQUIREMENTS.

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

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

Source P109 shall be equipped with low emission combustion technology.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12 and 129.91, as well as 40 CFR Section 52.21]

Source P109 is a 3000 horsepower, two-stroke, lean-burn, natural gas-fired Cooper-Bessemer model 8Q 155 JHC2 internal combustion engine.

**SECTION D. Source Level Requirements**

017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Am I subject to this subpart?

Source P109 shall comply with all applicable requirements specified in Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants, 40 CFR 63.6580 through 63.6675.

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P110

Source Name: 3000 BHP, COOP-BES 8Q155JHC2 ENGINE #10, SN 49083

Source Capacity/Throughput:

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

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P110 in such a manner that the concentration in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

The permittee shall not permit the emission of sulfur oxides (SO_x), expressed as SO₂, into the outdoor atmosphere from Source P110 in such a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of air contaminants from Source P110 shall not exceed the following limitations:

- (1) carbon monoxide - 15.2 pounds per hour
- (2) particulate matter – 0.20 pounds per hour
- (3) sulfur oxides (SO_x, expressed as SO₂) – 0.012 pounds per hour

The total combined emission of carbon monoxide from Sources P109 and P110 shall not exceed 95.7 tons in any 12 consecutive month period.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12, 129.91 and 129.97. Additional authority for the nitrogen oxides "pounds per hour" and "tons in any 12 consecutive month period" limitations are also derived from 40 CFR Section 52.21]

The emission of nitrogen oxides (NO_x, expressed as NO₂) from Source P110 shall not exceed 3.0 gram per brake-horsepower hour and 13.20 pounds per hour. The emission of volatile organic compounds from Source P110, excluding formaldehyde, shall not exceed 1.0 gram per brake-horsepower hour and 4.95 pounds per hour.

The total combined emission of nitrogen oxides (NO_x, expressed as NO₂) from Sources P109 and P110 shall not exceed 83.30 tons in any 12 consecutive month period. The total combined emission of volatile organic compounds from Sources P109 and P110 shall not exceed 31.20 tons in any 12 consecutive month period.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12 and 129.91, as well as 40 CFR Section 52.21]

**SECTION D. Source Level Requirements**

The permittee shall use only pipeline quality natural gas as fuel for Source P110.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12 and 129.91, as well as 40 CFR Section 52.21]

Sources P109 and P110 shall not be operated in excess of a combined total of 12,600 hours in any 12 consecutive month period.

II. TESTING 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 Section 129.91]

- (1) The permittee shall perform nitrogen oxides (NO_x, expressed as NO₂) and carbon monoxide testing upon Source P110 at six-month intervals using a portable gas analyzer. The test protocol for performing nitrogen oxides and carbon monoxide testing using a portable gas analyzer shall be approved by the Department at least one time.
- (2) This testing shall be performed twice per calendar year, once during the time frame from January 1 to June 30 and once during the time frame from July 1 to December 31. The time period between testing shall be no more than 9 months and no less than 4 months.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 129.91 and 129.100]

- (1) By no later than January 1, 2017, and by no later than every five years thereafter (January 1, 2022, January 1, 2027, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform stack testing on Source P110 to determine the nitrogen oxides (NO_x, expressed as NO₂), carbon monoxide and volatile organic compound emission rates from the source using test methods and procedures deemed acceptable by the Department. All testing shall be performed while the source is operating within 10% of 100% peak (or the highest achievable) load, but not less than 70% of full load.
- (2) At least 90 days prior to the performance of any testing required herein, the permittee shall submit an electronic copy in pdf format of a pretest protocol to the Northcentral Regional Air Program Manager (RA-EPNCstacktesting@pa.gov) and to the Source Testing Section Program Manager (RA-EPstacktesting@pa.gov) for review. This protocol shall describe the test methods and procedures to be used in the performance of testing and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.
- (3) At least 14 days prior to the performance of any testing required herein, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

III. MONITORING REQUIREMENTS.

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

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.95]

The permittee shall maintain accurate and comprehensive records the following operating parameters of Source P110 at least once per 8-hour manned shift:

- (1) engine speed
- (2) spark position
- (3) developed torque
- (4) fuel manifold pressure
- (5) air manifold pressure
- (6) air manifold temperature

The permittee shall also maintain accurate and comprehensive records of the number of hours Source P110 is operated each month.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to the Department upon request.

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

The permittee shall maintain accurate and comprehensive records of the following information for Source P110:

- (1) The calculations used to verify compliance with the nitrogen oxides, carbon monoxide, nonmethane hydrocarbon, particulate matter and sulfur oxides emission limitations for Source P110.
- (2) The results of the semi-annual nitrogen oxides and carbon monoxide testing using a portable gas analyzer.
- (3) Stack test reports.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to the Department upon request.

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

The submission of annual or semi-annual reports required by Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and electronically to the Environmental Protection Agency. The electronic reports must be submitted using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the EPA e-mail address and Administrator postal address listed below.

The submission of all other requests, applications submittals and other communications required by Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The copies may be sent to:

R3_Air_Apps_and_Notices@epa.gov

And

Pennsylvania Department of Environmental Protection

**SECTION D. Source Level Requirements**

Air Quality Program Manager
208 W. Third Street, Suite 101
Williamsport, PA 17701

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

The permittee shall submit semi-annual reports to the Department of the following:

(a) The calculations used to verify compliance with the 12 consecutive month period nitrogen oxides, carbon monoxide and nonmethane hydrocarbon emission limitations for Sources P109 and P110 for each month during the respective semi-annual period.

(b) The number of hours Source P110 is operated each month during the respective semi-annual period.

The semi-annual reports shall be submitted to the Department no later than September 1 and March 1 for the previous 12 consecutive month period.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

The results of all portable analyzer testing performed on Source P110 shall be submitted to the Department within 30 days of test performance.

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

Additional authority for this permit condition is also derived from 25 Pa. Code Sections 129.91 and 129.100]

Within 60 days following the completion of any testing required herein, the permittee shall submit an electronic copy in pdf format of a test report to the Northcentral Regional Air Program Manager (RA-EPNCstacktesting@pa.gov) and the Source Testing Section Program Manager (RA-EPstacktesting@pa.gov) for review. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of all testing shall be expressed in units which will allow direct comparisons to the emissions limitations specified herein.

VI. WORK PRACTICE REQUIREMENTS.

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

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12 and 129.91, as well as 40 CFR Section 52.21]

Source P110 is a 3000 horsepower, two-stroke, lean-burn, natural gas-fired Cooper-Bessemer model 8Q 155 JHC2 internal combustion engine.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

Source P110 shall be equipped with low emission combustion technology.

**SECTION D. Source Level Requirements**

017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Am I subject to this subpart?

Source P110 shall comply with all applicable requirements specified in Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants, 40 CFR 63.6580 through 63.6675.

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P111

Source Name: 1300 BHP, COOP-BES GMVH-6C2 ENGINE #11, SN 49104

Source Capacity/Throughput:

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

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P111 in such a manner that the concentration in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

The permittee shall not permit the emission of sulfur oxides (SO_x), expressed as SO₂, into the outdoor atmosphere from Source P111 in such a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of air contaminants from Source P111 shall not exceed the following limitations:

- (1) carbon monoxide – 6.59 pounds per hour
- (2) particulate matter – 0.177 pounds per hour
- (3) sulfur oxides (SO_x, expressed as SO₂) – 0.023 pounds per hour

The total combined emission of carbon monoxide from Sources P111 and P112 shall not exceed 57.7 tons in any 12 consecutive month period.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12, 129.91 and 129.97. Additional authority for the nitrogen oxides “pounds per hour” and “tons in any 12 consecutive month period” limitations are also derived from 40 CFR Section 52.21]

The emission of nitrogen oxides (NO_x, expressed as NO₂) from Source P111 shall not exceed 3.0 gram per brake-horsepower hour and 5.73 pounds per hour. The emission of volatile organic compounds from Source P111, excluding formaldehyde, shall not exceed 1.0 gram per brake-horsepower hour and 2.15 pounds per hour.

The total combined emission of nitrogen oxides (NO_x, expressed as NO₂) from Sources P111 and P112 shall not exceed 50.20 tons in any 12 consecutive month period. The total combined emission of volatile organic compounds from Sources P111 and P112 shall not exceed 18.8 tons in any 12 consecutive month period.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12 and 129.91, as well as 40 CFR Section 52.21]

**SECTION D. Source Level Requirements**

The permittee shall use only pipeline quality natural gas as fuel for Source P111.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 129.91 and 129.100]

(1) By no later than January 1, 2017, and by no later than every five years thereafter (January 1, 2022, January 1, 2027, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform stack testing on Source P111 to determine the nitrogen oxides (NO_x, expressed as NO₂), carbon monoxide and volatile organic compound emission rates from the source using test methods and procedures deemed acceptable by the Department. All testing shall be performed while the source is operating within 10% of 100% peak (or the highest achievable) load, but not less than 70% of full load.

(2) At least 90 days prior to the performance of any testing required herein, the permittee shall submit an electronic copy in pdf format of a pretest protocol to the Northcentral Regional Air Program Manager (RA-EPNCstacktesting@pa.gov) and to the Source Testing Section Program Manager (RA-EPstacktesting@pa.gov) for review. This protocol shall describe the test methods and procedures to be used in the performance of testing and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.

(3) At least 14 days prior to the performance of any testing required herein, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

(1) The permittee shall perform nitrogen oxides (NO_x, expressed as NO₂) and carbon monoxide testing upon Source P111 at six-month intervals using a portable gas analyzer. The test protocol for performing nitrogen oxides and carbon monoxide testing using a portable gas analyzer shall be approved by the Department at least one time.

(2) This testing shall be performed twice per calendar year, once during the time frame from January 1 to June 30 and once during the time frame from July 1 to December 31. The time period between testing shall be no more than 9 months and no less than 4 months.

III. MONITORING REQUIREMENTS.

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

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

The permittee shall maintain accurate and comprehensive records of the following information for Source P111:

(1) The calculations used to verify compliance with the nitrogen oxides, carbon monoxide, nonmethane hydrocarbon, particulate matter and sulfur oxides emission limitations for Source P111.

(2) The results of the semi-annual nitrogen oxides and carbon monoxide testing using a portable gas analyzer.

(3) Stack test reports.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to

**SECTION D. Source Level Requirements**

the Department upon request.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.95]

The permittee shall maintain accurate and comprehensive records the following operating parameters of Source P111 at least once per 8-hour manned shift:

- (1) engine speed
- (2) spark position
- (3) developed torque
- (4) fuel manifold pressure
- (5) air manifold pressure
- (6) air manifold temperature

The permittee shall also maintain accurate and comprehensive records of the number of hours Source P111 is operated each month.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to the Department upon request.

V. REPORTING REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Additional authority for this permit condition is also derived from 25 Pa. Code Sections 129.91 and 129.100]

Within 60 days following the completion of any testing required herein, the permittee shall submit an electronic copy in pdf format of a test report to the Northcentral Regional Air Program Manager (RA-EPNCstacktesting@pa.gov) and the Source Testing Section Program Manager (RA-EPstacktesting@pa.gov) for review. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of all testing shall be expressed in units which will allow direct comparisons to the emissions limitations specified herein.

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

The submission of annual or semi-annual reports required by Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and electronically to the Environmental Protection Agency. The electronic reports must be submitted using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the EPA e-mail address and Administrator postal address listed below.

The submission of all other requests, applications submittals and other communications required by Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The copies may be sent to:

R3_Air_Apps_and_Notices@epa.gov

**SECTION D. Source Level Requirements**

And

Pennsylvania Department of Environmental Protection
Air Quality Program Manager
208 W. Third Street, Suite 101
Williamsport, PA 17701

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

The permittee shall submit semi-annual reports to the Department of the following:

- (1) The calculations used to verify compliance with the 12 consecutive month period nitrogen oxides, carbon monoxide and nonmethane hydrocarbon emission limitations for Sources P111 and P112 for each month during the respective semi-annual period.
- (2) The number of hours Source P111 is operated each month during the respective semi-annual period.

The semi-annual reports shall be submitted to the Department no later than September 1 and March 1 for the previous 12 consecutive month period.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

The results of all portable analyzer testing performed on Source P111 shall be submitted to the Department within 30 days of test performance.

VI. WORK PRACTICE REQUIREMENTS.

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

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12 and 129.91, as well as 40 CFR Section 52.21]

Source P111 is a 1300 horsepower, two-stroke, lean-burn, natural gas-fired Cooper-Bessemer model GMVH-6C2 internal combustion engine.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

Source P111 shall be equipped with low emission combustion technology.

016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****Am I subject to this subpart?**

Source P111 shall comply with all applicable requirements specified in Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants, 40 CFR 63.6580 through 63.6675.

*** **Permit Shield in Effect.** ***

**SECTION D. Source Level Requirements**

Source ID: P112

Source Name: 1300 BHP, COOP-BES GMVH-6C2 ENGINE #12, SN 49105

Source Capacity/Throughput:

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

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P112 in such a manner that the concentration in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

The permittee shall not permit the emission of sulfur oxides (SO_x), expressed as SO₂, into the outdoor atmosphere from Source P112 in such a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of air contaminants from Source P112 shall not exceed the following limitations:

- (1) carbon monoxide – 6.59 pounds per hour
- (2) particulate matter – 0.177 pounds per hour
- (3) sulfur oxides (SO_x, expressed as SO₂) – 0.023 pounds per hour

The total combined emission of carbon monoxide from Sources P111 and P112 shall not exceed 57.7 tons in any 12 consecutive month period.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12, 129.91 and 129.97. Additional authority for the nitrogen oxides “pounds per hour” and “tons in any 12 consecutive month period” limitations are also derived from 40 CFR Section 52.21]

The emission of nitrogen oxides (NO_x, expressed as NO₂) from Source P112 shall not exceed 3.0 gram per brake-horsepower hour and 5.73 pounds per hour. The emission of volatile organic compounds from Source P112, excluding formaldehyde, shall not exceed 1.0 gram per brake-horsepower hour and 2.15 pounds per hour.

The total combined emission of nitrogen oxides (NO_x, expressed as NO₂) from Sources P112 and P112 shall not exceed 50.20 tons in any 12 consecutive month period. The total combined emission of volatile organic compounds from Sources P111 and P112 shall not exceed 18.8 tons in any 12 consecutive month period.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12 and 129.91, as well as 40 CFR Section 52.21]

**SECTION D. Source Level Requirements**

The permittee shall use only pipeline quality natural gas as fuel for Source P112.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 129.91 and 129.100]

(1) By no later than January 1, 2017, and by no later than every five years thereafter (January 1, 2022, January 1, 2027, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform stack testing on Source P112 to determine the nitrogen oxides (NO_x, expressed as NO₂), carbon monoxide and volatile organic compound emission rates from the source using test methods and procedures deemed acceptable by the Department. All testing shall be performed while the source is operating within 10% of 100% peak (or the highest achievable) load, but not less than 70% of full load.

(2) At least 90 days prior to the performance of any testing required herein, the permittee shall submit an electronic copy in pdf format of a pretest protocol to the Northcentral Regional Air Program Manager (RA-EPNCstacktesting@pa.gov) and to the Source Testing Section Program Manager (RA-EPstacktesting@pa.gov) for review. This protocol shall describe the test methods and procedures to be used in the performance of testing and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.

(3) At least 14 days prior to the performance of any testing required herein, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

(1) The permittee shall perform nitrogen oxides (NO_x, expressed as NO₂) and carbon monoxide testing upon Source P112 at six-month intervals using a portable gas analyzer. The test protocol for performing nitrogen oxides and carbon monoxide testing using a portable gas analyzer shall be approved by the Department at least one time.

(2) This testing shall be performed twice per calendar year, once during the time frame from January 1 to June 30 and once during the time frame from July 1 to December 31. The time period between testing shall be no more than 9 months and no less than 4 months.

III. MONITORING REQUIREMENTS.

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

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.95]

The permittee shall maintain accurate and comprehensive records of the following operating parameters of Source P112 at least once per 8-hour manned shift:

- (1) engine speed
- (2) spark position
- (3) developed torque

**SECTION D. Source Level Requirements**

- (4) fuel manifold pressure
- (5) air manifold pressure
- (6) air manifold temperature

The permittee shall also maintain accurate and comprehensive records of the number of hours Source P112 is operated each month.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to the Department upon request.

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

The permittee shall maintain accurate and comprehensive records of the following information for Source P112:

- (1) The calculations used to verify compliance with the nitrogen oxides, carbon monoxide, nonmethane hydrocarbon, particulate matter and sulfur oxides emission limitations for Source P112.
- (2) The results of the semi-annual nitrogen oxides and carbon monoxide testing using a portable gas analyzer.
- (3) Stack test reports.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to the Department upon request.

V. REPORTING REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

The results of all portable analyzer testing performed on Source P112 shall be submitted to the Department within 30 days of test performance.

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

The permittee shall submit semi-annual reports to the Department of the following:

- (1) The calculations used to verify compliance with the 12 consecutive month period nitrogen oxides, carbon monoxide and nonmethane hydrocarbon emission limitations for Sources P111 and P112 for each month during the respective semi-annual period.
- (2) The number of hours Source P112 is operated each month during the respective semi-annual period.

The semi-annual reports shall be submitted to the Department no later than September 1 and March 1 for the previous 12 consecutive month period.

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

Additional authority for this permit condition is also derived from 25 Pa. Code Sections 129.91 and 129.100]

Within 60 days following the completion of any testing required herein, the permittee shall submit an electronic copy in pdf format of a test report to the Northcentral Regional Air Program Manager (RA-EPNCstacktesting@pa.gov) and the Source Testing Section Program Manager (RA-EPstacktesting@pa.gov) for review. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of all testing shall be expressed in units which will allow direct comparisons to the emissions limitations specified herein.

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

The submission of annual or semi-annual reports required by Subpart ZZZZ of the National Emission Standards for

**SECTION D. Source Level Requirements**

Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and electronically to the Environmental Protection Agency. The electronic reports must be submitted using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the EPA e-mail address and Administrator postal address listed below.

The submission of all other requests, applications submittals and other communications required by Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The copies may be sent to:

R3_Air_Apps_and_Notices@epa.gov

And

Pennsylvania Department of Environmental Protection
Air Quality Program Manager
208 W. Third Street, Suite 101
Williamsport, PA 17701

VI. WORK PRACTICE REQUIREMENTS.

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

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12 and 129.91, as well as 40 CFR Section 52.21]

Source P112 is a 1300 horsepower, two-stroke, lean-burn, natural gas-fired Cooper-Bessemer model GMVH-6C2 internal combustion engine.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.95]

Source P112 shall be equipped with low emission combustion technology.

016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]**Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****Am I subject to this subpart?**

Source P112 shall comply with all applicable requirements specified in Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants, 40 CFR 63.6580 through 63.6675.

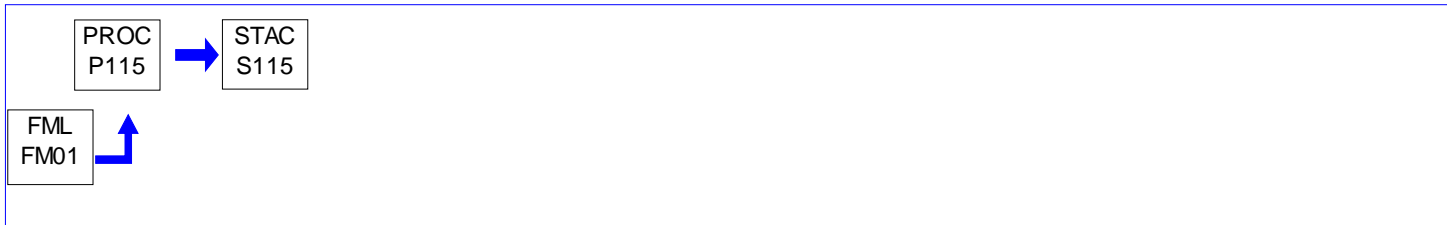
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P115

Source Name: WAUK AUX GENERATOR #3 F1197GU 200 HP

Source Capacity/Throughput:

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

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P115 in such a manner that the concentration in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

The permittee shall not permit the emission of sulfur oxides (SOx), expressed as SO₂, into the outdoor atmosphere from Source P115 in such a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

The permittee shall use only pipeline quality natural gas as fuel for Source P115.

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

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

Source P115 shall not be operated in excess of 500 hours in any 12 consecutive month period.

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?**

Any operation of Source P115, other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in subsections (1) through (3), is prohibited.

(1) With respect to demonstrating compliance with this condition, there is no time limit on the use of Source P115 in emergency situations.

(2) The permittee may operate Source P115 for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor or the insurance company associated with the source, for a maximum of 100 hours per calendar year. The permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of Source P115 beyond 100 hours per calendar year. Any operation for non-emergency situations as allowed by subsection (3) of this condition counts as part of the 100 hours per calendar year allowed by this subsection.

(3) Source P115 may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing

**SECTION D. Source Level Requirements**

provided in subsection (2) of this condition.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

The permittee shall maintain accurate and comprehensive records of the following information for Source P115:

- (1) The calculations used to verify compliance with the particulate matter and sulfur oxides emission limitations for Source P115.
- (2) Source P115's "standard" ignition timing
- (3) The number of hours Source P115 is operated each month

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to the Department upon request.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What records must I keep?**

The permittee shall keep monthly records of the hours of operation of Source P115 that is recorded through the nonresettable hour meter. The permittee shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What records must I keep?**

The permittee shall keep records of the maintenance conducted on Source P115 in order to demonstrate the source was operated and maintained according to the permittee's own maintenance plan. All records generated pursuant to this condition shall be retained for a minimum of five (5) years following the date of each maintenance action and shall be made available to the Department upon request.

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

The permittee shall submit annual reports to the Department of the number of hours Source P115 was operated each month during the year. The annual report shall be submitted to the Department no later than March 1 for the previous year.

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

The submission of all requests, reports, applications submittals and other communications required by Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The copies may be sent to:

Associate Director
Office of Air Enforcement and Compliance Assistance (3AP20)
Air Protection Division
U.S. Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029

And

Pennsylvania Department of Environmental Protection
Air Quality Program Manager
208 W. Third Street, Suite 101
Williamsport, PA 17701

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?**

The permittee shall report each instance in which Source P115 was not operated or maintained according to the manufacturer's emission-related written instructions or the source specific maintenance plan developed for the source which provides to the extent practicable for the maintenance and operation of Source P115 in a manner consistent with good air pollution control practice for minimizing emissions. These instances are deviations from the emission and operating limitations in Subpart ZZZZ. The report submitted for these deviations shall contain the following information:

- (1) Company name and address.
- (2) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.
- (3) Date of report.
- (4) The total operating time of Source P115 at which the deviation occurred.
- (5) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.

All reports generated pursuant to this condition shall be retained for a minimum of five (5) years following the date of each reportable instance and shall be made available to the Department upon request.

Compliance with this condition also ensures compliance with 40 CFR Section 63.6650.

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 25 Pa. Code Section 129.93]

Source P115 shall be maintained and operated in accordance with the manufacturer's specifications and good air pollution control practices.

**SECTION D. Source Level Requirements****# 013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6602]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What emission limitations must I meet if I own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions?**

The permittee shall perform the following work practices for Source P115 as prescribed herein:

- (1) Change oil and filter every 500 hours of operation or annually, whichever comes first.
- (2) Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.
- (3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6605]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my general requirements for complying with this subpart?**

At all times the permittee shall operate and maintain Source P115, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Department which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

The permittee shall operate and maintain Source P115 according to the manufacturer's emission-related written instructions or develop a source specific maintenance plan which must provide to the extent practicable for the maintenance and operation of Source P115 in a manner consistent with good air pollution control practice for minimizing emissions.

Compliance with this condition also ensures compliance with 40 CFR Section 63.6640(a).

016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

Source P115 shall be equipped with a non-resettable hour meter.

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

The permittee shall minimize Source P115's time spent at idle during startup and minimize the source's startup time to a period needed for appropriate and safe loading of the source, not to exceed 30 minutes.

VII. ADDITIONAL REQUIREMENTS.**# 018 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Source P115 is a 200 horsepower, four-stroke, rich-burn, natural gas-fired Waukesha model F1197GU emergency generator.

**SECTION D. Source Level Requirements**

019 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Am I subject to this subpart?

Source P115 shall comply with all applicable requirements specified in Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants, 40 CFR 63.6580 through 63.6675.

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P117

Source Name: TEG DEHYDRATION STILL/REBOILER #2

Source Capacity/Throughput:

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

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P117 in such a manner that the concentration in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

The permittee shall not permit the emission of sulfur oxides (SOx), expressed as SO₂, into the outdoor atmosphere from Source P117 in such a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1275]**Subpart HHH - National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities****Glycol dehydration unit process vent standards.**

[Additional authority for this permit condition is also derived from 40 CFR Section 63.1274]

The emission of BTEX (benzene, toluene, ethyl benzene and xylene) from Source P117 shall not equal or exceed the emission limitation calculated using the following equation:

$$EL(btex) = 3.10 \times 10^{-4} * \text{Throughput} * C_i(btex) * 365 \text{ days/year} * 1(\text{Mg}/1 \times 10^6 \text{ grams})$$

Where:

EL(btex) = unit-specific BTEX emission limit, megagrams per year

3.10×10^{-4} = BTEX emission limit, grams BTEX/standard cubic meter-ppmv

Throughput = annual average daily natural gas throughput, standard cubic meters per day

$C_i(btex)$ = annual average BTEX concentration of the natural gas at the inlet to the glycol dehydration unit, ppmv

The permittee shall determine the maximum values for other parameters used to calculate potential emissions as the maximum over the same period for which maximum throughput is determined as specified in the above equation. These parameters shall be based on an annual average or the highest single measured value. For estimating maximum potential emissions from Source P117, the glycol circulation rate used in the calculation shall be the unit's maximum rate under its physical and operational design consistent with the definition of potential to emit in 40 CFR Section 63.2.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall use only pipeline quality natural gas as fuel for Source P117.

**SECTION D. Source Level Requirements****II. TESTING REQUIREMENTS.**

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

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Control Device CD101 shall be equipped with instrumentation to continuously monitor and record the combustion chamber temperature of the device.

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1282]**Subpart HHH - National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities****Test methods, compliance procedures, and compliance demonstrations.**

[Additional authority for this permit condition is also derived from 40 CRF Section 63.1284]

The permittee shall determine the actual flowrate of natural gas to Source P117 using the procedures of either subsection (1) or (2) of this condition.

- (1) The permittee shall install and operate a monitoring instrument that directly measures natural gas flowrate to Source P117 with an accuracy of plus or minus 2 percent or better. The permittee shall convert the annual natural gas flowrate to a daily average by dividing the annual flowrate by the number of days per year that Source P117 processed natural gas.
- (2) The permittee shall document, to the Department's satisfaction, the actual annual average natural gas flowrate to Source P117.

All records generated pursuant to this condition shall be retained in accordance with condition #011 herein.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1282]**Subpart HHH - National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities****Test methods, compliance procedures, and compliance demonstrations.**

[Additional authority for this permit condition is also derived from 40 CRF Section 63.1284]

The permittee shall determine the actual average BTEX emissions from Source P117 using the procedures of either subsection (1) or (2) of this condition. Emissions shall be determined either uncontrolled or with federally enforceable controls in place. Compliance is demonstrated if the BTEX emissions determined as specified in subsections (1) or (2) are less than the emission limit calculated using the equation in condition #003 herein.

- (1) The permittee shall determine actual average benzene or BTEX emissions using the model GRI-GLYCalcTM, Version 3.0 or higher, and the procedures presented in the associated GRI-GLYCalcTM Technical Reference Manual. Inputs to the model shall be representative of actual operating conditions of the glycol dehydration unit and may be determined using the procedures documented in the Gas Research Institute (GRI) report entitled "Atmospheric Rich/Lean Method for Determining Glycol Dehydrator Emissions" (GRI-95/0368.1); or
- (2) The permittee shall determine an average mass rate of benzene or BTEX emissions in kilograms per hour through direct measurement by performing three runs of Method 18 in 40 CFR part 60, appendix A; or ASTM D6420-99 (Reapproved 2004) (incorporated by reference as specified in Section 63.14), as specified in Section 63.772(a)(1)(ii); or an equivalent method; and averaging the results of the three runs. Annual emissions in kilograms per year shall be determined by multiplying the mass rate by the number of hours Source P117 is operated per year. This result shall be converted to megagrams per year.

When the BTEX mass rate is calculated for glycol dehydration units using the model GRI-GLYCalcTM, all BTEX measured by Method 18, 40 CFR part 60, appendix A, shall be summed.

All records generated pursuant to this condition shall be retained in accordance with condition #011 herein.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall maintain accurate and comprehensive records of the following information for Source P117:

- (1) The calculations used to verify compliance with the particulate matter and sulfur oxides emission limitations for Source P117.
- (2) All temperature records generated by the temperature monitoring and recording instrumentation associated with Control Device CD101.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to the Department upon request.

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1270]**Subpart HHH - National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities****Applicability and designation of affected source.**

The permittee shall maintain records of the annual facility natural gas throughput each year and upon request, submit such records to the Department. If the facility annual natural gas throughput increases above the maximum natural gas throughput previously calculated using the following equation, the maximum natural gas throughput must be recalculated using the higher throughput multiplied by a factor of 1.2.

$$\text{Throughput} = 8,760 / ((1/\text{IRmax}) + (\text{WRmax}))$$

Where:

Throughput = maximum annual facilitywide natural gas throughput in cubic meters per year

8,760 = maximum hours of operation per year

IRmax = maximum facility injection rate in cubic meters per hour

WRmax = maximum facility withdrawal rate in cubic meters per hour

The permittee shall determine the maximum values for other parameters used to calculate potential emissions as the maximum over the same period for which maximum throughput is determined as specified in the above equation. These parameters shall be based on an annual average or the highest single measured value. For estimating maximum potential emissions from Source P117, the glycol circulation rate used in the calculation shall be the unit's maximum rate under its physical and operational design consistent with the definition of potential to emit in 40 CFR Section 63.2.

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1281]**Subpart HHH - National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities****Control equipment requirements.**

[Additional authority for this permit condition is also derived from 40 CFR Sections 63.1275 and 63.1284]

(1) The permittee shall determine the glycol dehydration unit baseline operations for Source P117. "Glycol dehydration unit baseline operations means operations representative of the glycol dehydration unit's operations as of August 23, 2011. For the purposes of this condition, for determining the percentage of overall hazardous air pollutant emission reduction attributable to process modifications, glycol dehydration unit baseline operations shall be parameter values (including, but not limited to, glycol circulation rate or glycol-HAP absorbency) that represent actual long-term conditions (i.e., at least 1 year). Glycol dehydration units in operation for less than 1 year shall document that the parameter values represent expected long-term operating conditions had process modifications not been made." Records of baseline operations generated pursuant to this condition shall be retained in accordance with condition #011 herein and shall be made available to the Department upon request.

(2) The permittee shall document, to the Department's satisfaction, the conditions for which the baseline operations for Source P117 shall be modified to achieve the BTEX limit determined in condition #003 herein either through process

**SECTION D. Source Level Requirements**

modifications or through a combination of process modifications and one or more control devices. If a combination of process modifications and one or more control devices are used, the permittee shall also establish the emission reduction to be achieved by the control device to achieve the BTEX limit determined in condition #003 herein. Only modifications in Source P117 operations directly related to process changes, including but not limited to changes in glycol circulation rate or glycol-HAP absorbency, shall be allowed. Changes in the inlet gas characteristics or natural gas throughput rate shall not be considered in determining the overall emission reduction due to process modifications.

(3) The permittee shall maintain records, in accordance with condition #011 herein, that Source P117 continues to operate in accordance with the conditions specified in subsection (2) of this condition.

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1284]**Subpart HHH - National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities****Recordkeeping requirements.**

The permittee shall maintain records of all information (including all reports and notifications) required pursuant to Subpart HHH of the National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities, 40 CFR 63.1270 through 63.1287. All records shall be maintained as follows:

- (1) All applicable records shall be maintained in such a manner that they can be readily accessed.
- (2) The most recent 12 months of records shall be retained on site or shall be accessible from a central location by computer or other means that provides access within 2 hours after a request.
- (3) The remaining 4 years of records may be retained offsite.
- (4) Records may be maintained in hard copy or computer-readable form including, but not limited to, on paper, microfilm, computer, floppy disk, magnetic tape, or microfiche.

All records generated pursuant to this condition shall be retained for at least five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report or period.

012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1284]**Subpart HHH - National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities****Recordkeeping requirements.**

The permittee shall maintain records of the occurrence and duration of each malfunction of operation of Source P117 or the air pollution control equipment and monitoring equipment. The permittee shall maintain records of actions taken during periods of malfunction to minimize emissions as required pursuant to condition #023 herein, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

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

The submission of annual or semi-annual reports required by Subpart HHH of the National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities, 40 CFR 63.1270 through 63.1287, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and electronically to the Environmental Protection Agency. The electronic reports must be submitted using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the EPA e-mail address and Administrator postal address listed below.

The submission of all other requests, applications submittals and other communications required by Subpart HHH of the National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities, 40 CFR 63.1270 through 63.1287, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The copies may be sent to:

**SECTION D. Source Level Requirements**

R3_Air_Apps_and_Notices@epa.gov

And

Pennsylvania Department of Environmental Protection
Air Quality Program Manager
208 W. Third Street, Suite 101
Williamsport, PA 17701

VI. WORK PRACTICE REQUIREMENTS.**# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Control Device CD101 shall be maintained and operated in accordance with the manufacturer's specifications and good air pollution control practices.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Control Device CD101 shall be maintained at a minimum temperature of 1,400 degrees Fahrenheit at all times Source P117 is in operation.

VII. ADDITIONAL REQUIREMENTS.**# 016 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P117 shall not be operated without the simultaneous operation of Control Device CD101.

017 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P117 is a 133 million dry standard cubic feet of natural gas per day FLOCO triethylene glycol dehydration unit, the volatile organic compound emissions from which shall be controlled by a natural gas-fired FLOCO thermal oxidizer (Control Device CD101). Source P117 also incorporates a 0.50 million Btu per hour, natural gas-fired reboiler.

018 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1270]**Subpart HHH - National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities****Applicability and designation of affected source.**

Source P117 shall comply with all applicable requirements specified in Subpart HHH of the National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities, 40 CFR 63.1270 through 63.1287.

019 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1274]**Subpart HHH - National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities****General standards.**

At all times, the permittee shall operate and maintain Source P117, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Department which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.



SECTION D. Source Level Requirements

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P118

Source Name: TEG DEHYDRATION STILL/REBOILER #3

Source Capacity/Throughput:

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

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P118 in such a manner that the concentration in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

The permittee shall not permit the emission of sulfur oxides (SOx), expressed as SO₂, into the outdoor atmosphere from Source P118 in such a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1275]**Subpart HHH - National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities****Glycol dehydration unit process vent standards.**

[Additional authority for this permit condition is also derived from 40 CFR Section 63.1274]

The emission of BTEX (benzene, toluene, ethyl benzene and xylene) from Source P118 shall not equal or exceed the emission limitation calculated using the following equation:

$$EL(\text{btex}) = 3.10 \times 10^{-4} * \text{Throughput} * C_i(\text{btex}) * 365 \text{ days/year} * 1(\text{Mg}/1 \times 10^6 \text{ grams})$$

Where:

EL(btex) = unit-specific BTEX emission limit, megagrams per year

3.10×10^{-4} = BTEX emission limit, grams BTEX/standard cubic meter-ppmv

Throughput = annual average daily natural gas throughput, standard cubic meters per day

$C_i(\text{btex})$ = annual average BTEX concentration of the natural gas at the inlet to the glycol dehydration unit, ppmv

The permittee shall determine the maximum values for other parameters used to calculate potential emissions as the maximum over the same period for which maximum throughput is determined as specified in the above equation. These parameters shall be based on an annual average or the highest single measured value. For estimating maximum potential emissions from Source P118, the glycol circulation rate used in the calculation shall be the unit's maximum rate under its physical and operational design consistent with the definition of potential to emit in 40 CFR Section 63.2.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall use only pipeline quality natural gas as fuel for Source P118.

**SECTION D. Source Level Requirements****II. TESTING REQUIREMENTS.**

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

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Control Device CD101 shall be equipped with instrumentation to continuously monitor and record the combustion chamber temperature of the device.

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1282]**Subpart HHH - National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities****Test methods, compliance procedures, and compliance demonstrations.**

[Additional authority for this permit condition is also derived from 40 CRF Section 63.1284]

The permittee shall determine the actual flowrate of natural gas to Source P118 using the procedures of either subsection (1) or (2) of this condition.

(1) The permittee shall install and operate a monitoring instrument that directly measures natural gas flowrate to Source P118 with an accuracy of plus or minus 2 percent or better. The permittee shall convert the annual natural gas flowrate to a daily average by dividing the annual flowrate by the number of days per year that Source P118 processed natural gas.

(2) The permittee shall document, to the Department's satisfaction, the actual annual average natural gas flowrate to Source P118.

All records generated pursuant to this condition shall be retained in accordance with condition #011 herein.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1282]**Subpart HHH - National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities****Test methods, compliance procedures, and compliance demonstrations.**

[Additional authority for this permit condition is also derived from 40 CRF Section 63.1284]

The permittee shall determine the actual average BTEX emissions from Source P118 using the procedures of either subsection (1) or (2) of this condition. Emissions shall be determined either uncontrolled or with federally enforceable controls in place. Compliance is demonstrated if the BTEX emissions determined as specified in subsections (1) or (2) are less than the emission limit calculated using the equation in condition #003 herein.

(1) The permittee shall determine actual average benzene or BTEX emissions using the model GRI-GLYCalcTM, Version 3.0 or higher, and the procedures presented in the associated GRI-GLYCalcTM Technical Reference Manual. Inputs to the model shall be representative of actual operating conditions of the glycol dehydration unit and may be determined using the procedures documented in the Gas Research Institute (GRI) report entitled "Atmospheric Rich/Lean Method for Determining Glycol Dehydrator Emissions" (GRI-95/0368.1); or

(2) The permittee shall determine an average mass rate of benzene or BTEX emissions in kilograms per hour through direct measurement by performing three runs of Method 18 in 40 CFR part 60, appendix A; or ASTM D6420-99 (Reapproved 2004) (incorporated by reference as specified in Section 63.14), as specified in Section 63.772(a)(1)(ii); or an equivalent method; and averaging the results of the three runs. Annual emissions in kilograms per year shall be determined by multiplying the mass rate by the number of hours Source P118 is operated per year. This result shall be converted to megagrams per year.

When the BTEX mass rate is calculated for glycol dehydration units using the model GRI-GLYCalcTM, all BTEX measured by Method 18, 40 CFR part 60, appendix A, shall be summed.

All records generated pursuant to this condition shall be retained in accordance with condition #011 herein.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall maintain accurate and comprehensive records of the following information for Source P118:

- (1) The calculations used to verify compliance with the particulate matter and sulfur oxides emission limitations for Source P118.
- (2) All temperature records generated by the temperature monitoring and recording instrumentation associated with Control Device CD101.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to the Department upon request.

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1270]**Subpart HHH - National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities****Applicability and designation of affected source.**

The permittee shall maintain records of the annual facility natural gas throughput each year and upon request, submit such records to the Department. If the facility annual natural gas throughput increases above the maximum natural gas throughput previously calculated using the following equation, the maximum natural gas throughput must be recalculated using the higher throughput multiplied by a factor of 1.2.

$$\text{Throughput} = 8,760 / ((1/\text{IRmax}) + (\text{WRmax}))$$

Where:

Throughput = maximum annual facilitywide natural gas throughput in cubic meters per year

8,760 = maximum hours of operation per year

IRmax = maximum facility injection rate in cubic meters per hour

WRmax = maximum facility withdrawal rate in cubic meters per hour

The permittee shall determine the maximum values for other parameters used to calculate potential emissions as the maximum over the same period for which maximum throughput is determined as specified in the above equation. These parameters shall be based on an annual average or the highest single measured value. For estimating maximum potential emissions from Source P118, the glycol circulation rate used in the calculation shall be the unit's maximum rate under its physical and operational design consistent with the definition of potential to emit in 40 CFR Section 63.2.

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1281]**Subpart HHH - National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities****Control equipment requirements.**

[Additional authority for this permit condition is also derived from 40 CFR Sections 63.1275 and 63.1284]

(1) The permittee shall determine the glycol dehydration unit baseline operations for Source P118. "Glycol dehydration unit baseline operations means operations representative of the glycol dehydration unit's operations as of August 23, 2011. For the purposes of this condition, for determining the percentage of overall hazardous air pollutant emission reduction attributable to process modifications, glycol dehydration unit baseline operations shall be parameter values (including, but not limited to, glycol circulation rate or glycol-HAP absorbency) that represent actual long-term conditions (i.e., at least 1 year). Glycol dehydration units in operation for less than 1 year shall document that the parameter values represent expected long-term operating conditions had process modifications not been made." Records of baseline operations generated pursuant to this condition shall be retained in accordance with condition #011 herein and shall be made available to the Department upon request.

(2) The permittee shall document, to the Department's satisfaction, the conditions for which the baseline operations for Source P118 shall be modified to achieve the BTEX limit determined in condition #003 herein either through process

**SECTION D. Source Level Requirements**

modifications or through a combination of process modifications and one or more control devices. If a combination of process modifications and one or more control devices are used, the permittee shall also establish the emission reduction to be achieved by the control device to achieve the BTEX limit determined in condition #003 herein. Only modifications in Source P118 operations directly related to process changes, including but not limited to changes in glycol circulation rate or glycol-HAP absorbency, shall be allowed. Changes in the inlet gas characteristics or natural gas throughput rate shall not be considered in determining the overall emission reduction due to process modifications.

(3) The permittee shall maintain records, in accordance with condition #011 herein, that Source P118 continues to operate in accordance with the conditions specified in subsection (2) of this condition.

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1284]**Subpart HHH - National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities****Recordkeeping requirements.**

The permittee shall maintain records of all information (including all reports and notifications) required pursuant to Subpart HHH of the National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities, 40 CFR 63.1270 through 63.1287. All records shall be maintained as follows:

- (1) All applicable records shall be maintained in such a manner that they can be readily accessed.
- (2) The most recent 12 months of records shall be retained on site or shall be accessible from a central location by computer or other means that provides access within 2 hours after a request.
- (3) The remaining 4 years of records may be retained offsite.
- (4) Records may be maintained in hard copy or computer-readable form including, but not limited to, on paper, microfilm, computer, floppy disk, magnetic tape, or microfiche.

All records generated pursuant to this condition shall be retained for at least five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report or period.

012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1284]**Subpart HHH - National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities****Recordkeeping requirements.**

The permittee shall maintain records of the occurrence and duration of each malfunction of operation of Source P118 or the air pollution control equipment and monitoring equipment. The permittee shall maintain records of actions taken during periods of malfunction to minimize emissions as required pursuant to condition #023 herein, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

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

The submission of annual or semi-annual reports required by Subpart HHH of the National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities, 40 CFR 63.1270 through 63.1287, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and electronically to the Environmental Protection Agency. The electronic reports must be submitted using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the EPA e-mail address and Administrator postal address listed below.

The submission of all other requests, applications submittals and other communications required by Subpart HHH of the National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities, 40 CFR 63.1270 through 63.1287, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The copies may be sent to:

**SECTION D. Source Level Requirements**

R3_Air_Apps_and_Notices@epa.gov

And

Pennsylvania Department of Environmental Protection
Air Quality Program Manager
208 W. Third Street, Suite 101
Williamsport, PA 17701

VI. WORK PRACTICE REQUIREMENTS.**# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Control Device CD101 shall be maintained and operated in accordance with the manufacturer's specifications and good air pollution control practices.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Control Device CD101 shall be maintained at a minimum temperature of 1,400 degrees Fahrenheit at all times Source P118 is in operation.

VII. ADDITIONAL REQUIREMENTS.**# 016 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P118 shall not be operated without the simultaneous operation of Control Device CD101.

017 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P118 is a 133 million dry standard cubic feet of natural gas per day FLOCO triethylene glycol dehydration unit, the volatile organic compound emissions from which shall be controlled by a natural gas-fired FLOCO thermal oxidizer (Control Device CD101). Source P118 also incorporates a 0.50 million Btu per hour, natural gas-fired reboiler.

018 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1270]**Subpart HHH - National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities****Applicability and designation of affected source.**

Source P118 shall comply with all applicable requirements specified in Subpart HHH of the National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities, 40 CFR 63.1270 through 63.1287.

019 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1274]**Subpart HHH - National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities****General standards.**

At all times, the permittee shall operate and maintain Source P118, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Department which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.



SECTION D. Source Level Requirements

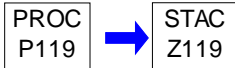
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P119

Source Name: STORAGE TANKS

Source Capacity/Throughput:

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

The potential to emit volatile organic compounds from the storage tanks identified in (1) through (22) in condition #005 herein for Source P119 shall not exceed 3 pounds per hour, 15 pounds per day or 2.7 tons in any 12 consecutive month period (as determined by the Department). Should any of these limitations ever be exceeded a detailed RACT analysis which meets the criteria specified in 25 Pa. Code Section 129.92 must be submitted to the Department.

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

The permittee shall not permit the placing, storing or holding of volatile organic compound containing materials, with a vapor pressure greater than 1.5 psia (10.5 kilopascals) under actual storage conditions, in any tank incorporated in Source P119 with a capacity greater than 2,000 gallons.

Compliance with this permit condition also ensures compliance with 25 Pa. Code Section 129.57.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

The permittee shall maintain accurate and comprehensive records to verify compliance with the vapor pressure limitation for storage tanks incorporated in Source P119 with a capacity greater than 2,000 gallons. All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to the Department upon request.

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

The permittee shall maintain accurate and comprehensive records of the amount of fugitive volatile organic compounds and fugitive volatile hazardous air pollutants emitted from the storage tanks incorporated in Source P119 during each 12 consecutive month period. All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request. These records shall include all background information and calculations used in the derivation of the reported values.

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The records generated during each calendar year pursuant to Condition #004 herein shall be submitted to the Department by March 1 of the following calendar year.

VI. WORK PRACTICE REQUIREMENTS.**# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

The storage tanks identified in (1) through (22) in condition #007 for Source P119 shall be maintained and operated in accordance with the manufacturer's specifications and good air pollution control practices.

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

Source P119 is comprised of the following above ground storage tanks:

- (1) 2,000 gallon tri-ethylene glycol tank (T-2)
- (2) 1,000 gallon gasoline tank (T-3)
- (3) 6,000 gallon new lube oil tank (T-5)
- (4) 266 gallon generator ethylene glycol surge tank (T-8)
- (5) 725 gallon Unit #6 ethylene glycol surge tank (T-11)
- (6) 725 gallon Unit #7 ethylene glycol surge tank (T-12)
- (7) 679 gallon Unit #8 ethylene glycol surge tank (T-13)
- (8) 421 gallon Unit #9 ethylene glycol surge tank (T-14)
- (9) 417 gallon Unit #10 ethylene glycol surge tank (T-15)
- (10) 417 gallon Unit #11 ethylene glycol surge tank (T-16)
- (11) 417 gallon Unit #12 ethylene glycol surge tank (T-17)
- (12) 85 gallon methanol tank (T-20)
- (13) 277 gallon Unit #5 (T-21)
- (14) 4,000 gallon drip fluid tank (T-22)
- (15) 8,000 gallon ethylene glycol tank (T-24)
- (16) 4,000 gallon used lube oil tank (T-25)
- (17) 4,000 gallon new lube oil tank (T-26)
- (18) 4,000 gallon ethylene glycol tank (T-27)
- (19) 3,000 gallon ethylene glycol tank (T-28)
- (20) 3,000 gallon lube oil tank (T-30)
- (21) 3,000 gallon ethylene glycol tank (T-31)
- (22) 6,650 gallon urea tank (T-32)
- (23) 1,000 gallon hydrocarbons (condensate) tank (T-961)
- (24) two (2) 570 gallon waste oil tanks
- (25) 1,260 gallon condensate tank (Rose Lake)
- (26) 1,000 gallon waste fluid tank

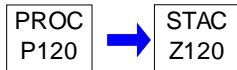
*** **Permit Shield in Effect.** ***

**SECTION D. Source Level Requirements**

Source ID: P120

Source Name: PARTS WASHERS

Source Capacity/Throughput:

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

The permittee shall maintain accurate and comprehensive records of the amount of fugitive volatile organic compounds and fugitive volatile hazardous air pollutants emitted from the parts washers incorporated in Source P120 during each 12 consecutive month period. All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request. These records shall include all background information and calculations used in the derivation of the reported values.

002 [25 Pa. Code §129.63]**Degreasing operations**

The permittee shall maintain accurate and comprehensive records of the following:

- (1) The name and address of the solvent supplier.
- (2) The type of solvent including the product or vendor identification number.
- (3) The vapor pressure of the solvent measured in mm Hg at 20°C (68°F).

All records generated pursuant to this condition shall be retained at least two (2) years and shall be made available to the Department upon request. An invoice, bill of sale, certificate that corresponds to a number of sales, Material Safety Data Sheet (MSDS), or other appropriate documentation acceptable to the Department may be used to comply with this section.

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

The records generated during each calendar year pursuant to Condition #001 herein shall be submitted to the Department by March 1 of the following calendar year.

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

Solvents containing hazardous air pollutants shall not be used in the parts washers incorporated in Source P120.

**SECTION D. Source Level Requirements****# 005 [25 Pa. Code §129.63]****Degreasing operations**

The parts washers incorporated in Source P120 shall be equipped with a cover(s) that shall be closed at all times except during the cleaning of parts or the addition or removal of solvent. A perforated drain with a diameter of not more than 6 inches shall constitute an acceptable cover.

006 [25 Pa. Code §129.63]**Degreasing operations**

Solvents with a vapor pressure of 1.0 millimeter of mercury (mm Hg) or greater, measured at 20°C (68°F), shall not be used in the parts washers incorporated in Source P120.

007 [25 Pa. Code §129.63]**Degreasing operations**

The parts washers incorporated in Source ID P120 shall be operated in accordance with the following procedures:

- (1) Waste solvent shall be collected and stored in closed containers. The closed containers may contain a device that allows pressure relief, but does not allow liquid solvent to drain from the container.
- (2) Flushing of parts using a flexible hose or other flushing device shall be performed only within the cold cleaning machine. The solvent spray shall be a solid fluid stream, not an atomized or shower spray.
- (3) Sponges, fabric, wood, leather, paper products and other absorbent materials may not be cleaned in the cold cleaning machine.
- (4) Air agitated solvent baths may not be used.
- (5) Spills during solvent transfer and use of the cold cleaning machine shall be cleaned up immediately.

008 [25 Pa. Code §129.63]**Degreasing operations**

The parts washers incorporated in Source P120 shall have a permanent, conspicuous label summarizing the operating requirements specified in condition #005 herein. In addition, the label shall also list the following discretionary good operating practices:

- (1) Cleaned parts should be drained at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining. During the draining, tipping or rotating, the parts should be positioned so that solvent drains directly back to the cold cleaning machine.
- (2) When a pump-agitated solvent bath is used, the agitator should be operated to produce a rolling motion of the solvent with no observable splashing of the solvent against the tank walls or the parts being cleaned.
- (3) Work area fans should be located and positioned so that they do not blow across the opening of the degreaser unit.

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

Source P120 is comprised of two (2) Pure Wash and one (1) Safety Kleen remote reservoir parts washers.

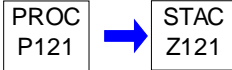
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P121

Source Name: PIPELINE EMISSION SOURCES

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

The permittee shall not permit the emission into the outdoor atmosphere of fugitive air contaminants from a source other than those for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:

- (1) The emissions are of minor significance with respect to causing air pollution,
- (2) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

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

The fugitive emission of volatile organic compounds and volatile hazardous air pollutants from Source P121 shall not exceed 2.70 tons and 1.00 tons, respectively, in any 12 consecutive month period.

Compliance with this condition also ensures compliance with the 10.25 tons of volatile organic compounds in any 12 consecutive month period limitation established pursuant to 25 Pa. Code Section 129.91.

II. TESTING REQUIREMENTS.

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

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

The permittee shall perform monthly Audio, Visual and Olfactory (AVO) inspections of the facility to determine the presence of fugitive volatile organic compound/volatile hazardous air pollutant emissions from Source P121 and shall take corrective action, as necessary, to eliminate any fugitive emissions detected during these inspections.

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

The permittee shall maintain an accurate and comprehensive logbook of the following:

- (1) The amount of fugitive volatile organic compounds and fugitive volatile hazardous air pollutants emitted from Source P121 during each 12 consecutive month period.
- (2) AVO inspection reports, which shall include the following information:
 - (a) Date of each inspection
 - (b) Initials or name(s) of the person(s) conducting each inspection
 - (c) Date each leak is detected
 - (d) Specific location of the leak
 - (e) Repair performed to eliminate the leak
 - (f) Date the leak is repaired,

**SECTION D. Source Level Requirements**

- (g) Action/inspection taken to determine that the leak is repaired
(h) Initials or name(s) of the person(s) repairing the leak

The logbook generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request. These records shall include all background information and calculations used in the derivation of reported values.

V. REPORTING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The records generated during each calendar year pursuant to Condition #004 herein shall be submitted to the Department by March 1 of the following calendar year.

VI. WORK PRACTICE REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91]

Source P121 shall be maintained and operated in accordance with good air pollution control practices and in such a way as to minimize the fugitive emission of volatile organic compounds.

VII. ADDITIONAL REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source P121 consists of any component that has the potential to emit fugitive emissions of volatile organic compounds or hazardous air pollutants, but not limited to valves, connectors, pressure relief devices, open-ended lines, flanges, compressors, instruments, meters, covers and closed vent systems. Devices that vent as part of normal operations are not considered fugitive sources unless the emission originates from a place other than a vent.

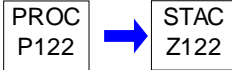
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P122

Source Name: MERCAPTAN TANK

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §129.57]****Storage tanks less than or equal to 40,000 gallons capacity containing VOCs**

Source P122 shall have a pressure relief valve which is maintained in good operating condition and which is set to release at no less than 0.7 psig (4.8 kilopascals) of pressure or 0.3 psig (2.1 kilopascals) of vacuum or the highest possible pressure and vacuum in accordance with state or local fire codes or the National Fire Prevention Association guidelines or other national consensus standards acceptable to the Department.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

The permittee shall maintain accurate and comprehensive records of the amount of fugitive volatile organic compounds and fugitive volatile hazardous air pollutants emitted from Source P122 during each 12 consecutive month period. All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request. These records shall include all background information and calculations used in the derivation of the reported values.

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

The records generated during each calendar year pursuant to Condition #002 herein shall be submitted to the Department by March 1 of the following calendar year.

VI. WORK PRACTICE REQUIREMENTS.

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

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

Source P122 is a 2,500 gallon, above ground mercaptan storage tank.

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P123

Source Name: 4445 BHP, CAT G3616 ENGINE #1A, SN 4CG00120

Source Capacity/Throughput:

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

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P123 in such a manner that the concentration in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

The permittee shall not permit the emission of sulfur oxides (SOx), expressed as SO₂, into the outdoor atmosphere from Source P123 in such a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of air contaminants from Source P123 shall not exceed the following limitations:

- (1) carbon monoxide – 22.5 pounds per hour and 98.55 tons in any 12 consecutive month period
- (2) formaldehyde – 1.67 pounds per hour and 7.32 tons in any 12 consecutive month period
- (3) hazardous air pollutants (total combined) – 2.27 pounds per hour and 9.94 tons in any 12 consecutive month period

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12 and 129.97.

Additional authority for the nitrogen oxides “pounds per hour” and “tons in any 12 consecutive month period” limitations are also derived from 40 CFR Section 52.21]

The emission of nitrogen oxides (NO_x, expressed as NO₂) from Source P123 shall not exceed 3.0 gram per brake-horsepower hour, 15.7 pounds per hour and 68.77 tons in any 12 consecutive month period. The emission of volatile organic compounds from Source P123, excluding formaldehyde, shall not exceed 1.0 gram per brake-horsepower hour, 8.8 pounds per hour and 38.54 tons in any 12 consecutive month period.

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

[Additional authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall use only pipeline quality natural gas as fuel for Source P123.

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

**SECTION D. Source Level Requirements**

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.100]

(1) By no later than January 1, 2017, and by no later than every five years thereafter (January 1, 2022, January 1, 2017, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform stack testing on Source P123 to determine the nitrogen oxides (NO_x, expressed as NO₂), carbon monoxide, volatile organic compound and formaldehyde emission rates from the source using test methods and procedures deemed acceptable by the Department. All testing shall be performed while the source is operating within 10% of 100% peak (or the highest achievable) load, but not less than 70% of full load.

(2) At least 90 days prior to the performance of any testing required herein, the permittee shall submit an electronic copy in pdf format of a pretest protocol to the Northcentral Regional Air Program Manager (RA-EPNCstacktesting@pa.gov) and to the Source Testing Section Program Manager (RA-EPstacktesting@pa.gov) for review. This protocol shall describe the test methods and procedures to be used in the performance of testing and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.

(3) At least 14 days prior to the performance of any testing required herein, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

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

1) The permittee shall perform nitrogen oxides (NO_x, expressed as NO₂) and carbon monoxide testing upon Source P123 at six-month intervals using a portable gas analyzer. The test protocol for performing nitrogen oxides and carbon monoxide testing using a portable gas analyzer shall be approved by the Department at least one time.

(2) This testing shall be performed twice per calendar year, once during the time frame from January 1 to June 30 and once during the time frame from July 1 to December 31. The time period between testing shall be no more than 9 months and no less than 4 months.

III. MONITORING REQUIREMENTS.

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

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

The permittee shall maintain comprehensive and accurate records of the following information for Source P123:

(1) The calculations used to verify compliance with the nitrogen oxides, carbon monoxide, volatile organic compounds and formaldehyde emission limitations for Source P123.

(2) The results of the semi-annual nitrogen oxides and carbon monoxide testing using a portable gas analyzer.

(3) Stack test reports.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to the Department upon request.

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

The permittee shall maintain accurate and comprehensive records of the following operating parameters of Source P123 at least once per 8-hour manned shift:

(1) engine speed

(2) spark position

(3) developed torque

(4) fuel manifold pressure

**SECTION D. Source Level Requirements**

- (5) air manifold pressure
 (6) air manifold temperature

The permittee shall also maintain accurate and comprehensive records of the number of hours Source P123 is operated each month.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to the Department upon request.

V. REPORTING REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.100]

Within 60 days following the completion of any testing required herein, the permittee shall submit an electronic copy in pdf format of a test report to the Northcentral Regional Air Program Manager (RA-EPNCstacktesting@pa.gov) and the Source Testing Section Program Manager (RA-EPstacktesting@pa.gov) for review. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of all testing shall be expressed in units which will allow direct comparisons to the emissions limitations specified herein.

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

The submission of annual or semi-annual reports required by Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and electronically to the Environmental Protection Agency. The electronic reports must be submitted using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the EPA e-mail address and Administrator postal address listed below.

The submission of all other requests, applications submittals and other communications required by Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The copies may be sent to:

R3_Air_Apps_and_Notices@epa.gov

And

Pennsylvania Department of Environmental Protection
 Air Quality Program Manager
 208 W. Third Street, Suite 101
 Williamsport, PA 17701

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

The results of all portable analyzer testing performed on Source P123 shall be submitted to the Department within 30 days of test performance.

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

The permittee shall submit semi-annual reports to the Department of the following:

**SECTION D. Source Level Requirements**

- (1) The calculations used to verify compliance with the 12 consecutive month period nitrogen oxides, carbon monoxide, volatile organic compound and formaldehyde emission limitations for Source P123 for each month during the respective semi-annual period.
- (2) The number of hours Source P123 is operated each month during the respective semi-annual period.

The semi-annual reports shall be submitted to the Department no later than September 1 and March 1 for the previous 12 consecutive month period.

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P123 is a 4445 brake horsepower, four-stroke, lean-burn, natural gas-fired Caterpillar model G3616 internal combustion engine.

015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**Am I subject to this subpart?**

Source P123 shall comply with all applicable requirements specified in Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants, 40 CFR 63.6580 through 63.6675.

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P124

Source Name: 4735 BHP, CAT G3616 ENGINE #14, SN BLB00759

Source Capacity/Throughput:

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

[Additional authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The air contaminant emissions from Source P124 shall not exceed the following limitations:

- (1) nitrogen oxides (NO_x, expressed as NO₂) - 0.15 grams per brake horsepower-hour and 6.88 tons in any 12 consecutive month period.
- (2) carbon monoxide - 0.19 grams per brake horsepower-hour and 8.80 tons in any 12 consecutive month period.
- (3) volatile organic compounds - 0.23 grams per brake horsepower-hour and 10.47 tons in any 12 consecutive month period.
- (4) sulfur oxides (SO_x, expressed as SO₂) - 0.001 pounds per million Btu and 0.10 tons in any 12 consecutive month period.
- (5) particulate matter - 0.01 grains per dry standard cubic foot of exhaust gas, 0.01 pounds per million Btu and 1.71 tons in any 12 consecutive month period.
- (6) nonmethane, nonethane hydrocarbons - 0.19 grams per brake horsepower-hour and 8.63 tons in any 12 consecutive month period.
- (7) formaldehyde - 0.04 grams per brake horsepower-hour and 1.84 tons in any 12 consecutive month period.

[Compliance with this condition also ensures compliance with 25 Pa. Code Sections 123.13 and 129.97, as well as 40 CFR Section 60.4233]

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**The permittee shall not permit the emission of sulfur oxides, expressed as SO₂, into the outdoor atmosphere from Source P124 in a manner that the concentration of the sulfur oxides in the effluent gas exceeds 2 parts per million, by volume, dry basis.

[Compliance with this condition also ensures compliance with the requirements of 25 Pa. Code Section 123.21]

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

[Additional authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall only use natural gas as fuel for Source P124.

Operation Hours Restriction(s).**# 004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6600]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What emission limitations and operating limitations must I meet if I own or operate a stationary RICE with a site rating of**

The permittee shall minimize the time Source P124 spends at idle and minimize the source's startup time at startup to a

**SECTION D. Source Level Requirements**

period needed for appropriate and safe loading of the source, not to exceed 30 minutes, after which time the requirement to reduce the emission of carbon monoxide from Source P124 by 93% or more applies.

[Compliance with this condition also ensures compliance with 40 CFR Section 63.6625]

Control Device Efficiency Restriction(s).

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6600]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What emission limitations and operating limitations must I meet if I own or operate a stationary RICE with a site rating of

Control Device C124A shall reduce the emission of carbon monoxide from Source P124 by 93% or more at all times, except during periods of startup.

II. TESTING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.100]

(1) By no later than January 1, 2017, and by no later than every five years thereafter (January 1, 2022, January 1, 2027, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform stack testing on Source P124 to determine the nitrogen oxides (NO_x, expressed as NO₂), carbon monoxide and volatile organic compound emission rates from the source using test methods and procedures deemed acceptable by the Department. All testing shall be performed while the source is operating within 10% of 100% peak (or the highest achievable) load, but not less than 70% of full load.

(2) At least 90 days prior to the performance of any testing required herein, the permittee shall submit an electronic copy in pdf format of a pretest protocol to the Northcentral Regional Air Program Manager (RA-EPNCstacktesting@pa.gov) and to the Source Testing Section Program Manager (RA-EPstacktesting@pa.gov) for review. This protocol shall describe the test methods and procedures to be used in the performance of testing and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.

(3) At least 14 days prior to the performance of any testing required herein, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(1) The permittee shall perform nitrogen oxides (NO_x, expressed as NO₂) and carbon monoxide testing upon Source P124 at six-month intervals using a portable gas analyzer. The test protocol for performing nitrogen oxides and carbon monoxide testing using a portable gas analyzer shall be approved by the Department at least one time.

(2) This testing shall be performed twice per calendar year, once during the time frame from January 1 to June 30 and once during the time frame from July 1 to December 31. The time period between testing shall be no more than 9 months and no less than 4 months. Testing shall be performed during normal maximum operating conditions.

(3) The Department may require EPA reference method stack testing on Source P124 based on results of any portable gas analyzer testing.

(4) Carbon monoxide testing performed on Source P124 using a portable gas analyzer is not required if the permittee performs carbon monoxide testing using EPA reference methods during that six-month testing interval and the permittee simultaneously performs nitrogen oxides testing using either a portable gas analyzer or EPA reference methods.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6615]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

When must I conduct subsequent performance tests?

Following the initial performance testing required pursuant to Subpart ZZZZ of 40 CFR part 63, the permittee shall perform

**SECTION D. Source Level Requirements**

semiannual stack testing on Source P124 to demonstrate compliance with the minimum 93% carbon monoxide reduction percentage required for Control Device C124A. The performance testing shall be conducted in accordance with the requirements specified in Condition #008 herein.

After demonstrating compliance for two consecutive tests, the permittee may reduce the frequency of subsequent performance tests to annually. If the results of any subsequent annual performance test indicate that Source P124 is not operating in compliance with the carbon monoxide emission limitation, or the permittee deviates from any operating limitations, the permittee shall resume semiannual performance tests.

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6620]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What performance tests and other procedures must I use?**

(1) All semiannual/annual stack testing and all stack testing required following the catalyst replacement of Control Device C124A shall be performed using test methods and procedures prescribed by 40 CFR Section 63.6620 and deemed acceptable by the Department. All testing shall be performed while Source P124 is operating within plus or minus 10% of 100 percent load.

(2) At least 90 days prior to the performance of any testing required herein, the permittee shall submit an electronic copy in pdf format of a pretest protocol to the Northcentral Regional Air Program Manager (RA-EPNCstacktesting@pa.gov) and to the Source Testing Section Program Manager (RA-EPstacktesting@pa.gov) for review. This protocol shall describe the test methods and procedures to be used in the performance of testing and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.

(3) At least 14 days prior to the performance of any testing required herein, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

[Additional authority for the permit condition is also derived from 40 CFR Section 63.6640]

III. MONITORING REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is also derived from 25 Pa. Code Sections 127.1, 127.12 and 40 CFR Section 63.6625]

Control Devices C124A and C124B shall be equipped with instrumentation to continuously monitor the differential pressure across each device. In addition, Control Device C124A shall be equipped with instrumentation to continuously monitor and record the inlet temperature of the device.

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

The permittee shall install, operate, and maintain each continuous parameter monitoring system (CPMS) associated with Control Device C124A according to the requirements in subsections (1) through (6) herein.

(1) The permittee shall prepare a site-specific monitoring plan that addresses the monitoring system design, data collection, and the quality assurance and quality control elements outlined in subsections (1)(a) through (e) herein.

(a) The performance criteria and design specifications for the monitoring system equipment, including the sample interface, detector signal analyzer, and data acquisition and calculations;

(b) Sampling interface (e.g., thermocouple) location such that the monitoring system will provide representative measurements;

(c) Equipment performance evaluations, system accuracy audits, or other audit procedures;

(d) Ongoing operation and maintenance procedures in accordance with provisions in 40 CFR Part 63; and

**SECTION D. Source Level Requirements**

(e) Ongoing reporting and recordkeeping procedures in accordance with provisions in 40 CFR Part 63.

(2) The permittee shall install, operate, and maintain each CPMS in continuous operation according to the procedures in your site-specific monitoring plan.

(3) The CPMS must collect data at least once every 15 minutes.

(4) For a CPMS for measuring temperature range, the temperature sensor must have a minimum tolerance of 2.8 degrees Celsius (5 degrees Fahrenheit) or 1% of the measurement range, whichever is larger.

(5) The permittee shall conduct the CPMS equipment performance evaluation, system accuracy audits, or other audit procedures specified in your site-specific monitoring plan at least annually.

(6) The permittee shall conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.

012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6635]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

How do I monitor and collect data to demonstrate continuous compliance?

Except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities, the permittee shall continuously monitor each continuous parameter monitoring system (CPMS) associated with Control Device C124A at all times that Source P124 is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. The permittee shall not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. The permittee shall, however, use all the valid data collected during all other periods.

IV. RECORDKEEPING REQUIREMENTS.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain comprehensive and accurate records of the following information for Source P124:

(1) The calculations used to verify compliance with the nitrogen oxides, carbon monoxide, volatile organic compounds and formaldehyde emission limitations for each month for Source P124 in any 12 consecutive month period.

(2) The results of the semi-annual nitrogen oxides and carbon monoxide testing using a portable gas analyzer.

(3) The differential pressure across Control Devices C124A and C124B, recorded on a daily basis, and the inlet temperature of Control Device C124B, which shall be computed as an hourly average.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to the Department upon request.

014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4245]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary SI internal combustion engine?

The permittee shall keep records of the maintenance conducted on Source P124 and documentation from the manufacturer that Source P124 is certified to meet the emission standards and information as required in Subpart JJJJ of 40 CFR Part 60. All records generated pursuant to this condition shall be retained for a minimum of five (5) years following the date of each maintenance action and shall be made available to the Department upon request.

015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What records must I keep?

The permittee shall maintain accurate and comprehensive records of the following:

(1) A copy of each notification and report submitted to comply with Subpart ZZZZ of 40 CFR Part 63, including all

**SECTION D. Source Level Requirements**

documentation supporting any Initial Notification or Notification of Compliance Status submitted.

(2) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.

(3) Records of performance tests and performance evaluations.

(4) Records of all required maintenance performed on the air pollution control and monitoring equipment.

(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with Condition #021 herein, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report or record and shall be made available to the Department upon request.

016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What records must I keep?

The permittee shall collect the inlet temperature data for Control Device C124A in accordance with Condition #010 and reduce this data to 4-hour rolling averages. The 4-hour rolling averages shall be maintained within the operating limitations specified for the inlet temperature for Control Device C124A. The permittee shall also measure the pressure drop across Control Device C124A once per month to demonstrate that the pressure drop across Control Device C124A is operating within the operating limitations specified for the pressure drop for Control Device C124A.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report or record and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.100]

Within 60 days following the completion of any testing required herein, the permittee shall submit an electronic copy in pdf format of a test report to the Northcentral Regional Air Program Manager (RA-EPNCstacktesting@pa.gov) and the Source Testing Section Program Manager (RA-EPstacktesting@pa.gov) for review. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of all testing shall be expressed in units which will allow direct comparisons to the emissions limitations specified herein.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The results of all portable analyzer and EPA reference method testing performed on Source P124 shall be submitted to the Department within 30 days and 60 days, respectively, of test performance.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall submit semi-annual reports to the Department of the calculations used to verify compliance with the 12 consecutive month period nitrogen oxides, carbon monoxide, volatile organic compound and formaldehyde emission limitations for Source P124 for each month during the respective semi-annual period. The semi-annual reports shall be submitted to the Department no later than September 1 and March 1 for the previous 12 consecutive month period.

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The submission of annual or semi-annual reports required by Subpart JJJJ of the federal Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, 40 CFR 60.4230 through 60.4248, Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for

**SECTION D. Source Level Requirements**

Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and electronically to the Environmental Protection Agency. The electronic reports must be submitted using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the EPA e-mail address and Administrator postal address listed below.

The submission of all other requests, applications submittals and other communications required by Subpart JJJJ of the federal Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, 40 CFR 60.4230 through 60.4248, Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The copies may be sent to:

R3_Air_Apps_and_Notices@epa.gov

And

Pennsylvania Department of Environmental Protection
Air Quality Program Manager
208 W. Third Street, Suite 101
Williamsport, PA 17701

021 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6650]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What reports must I submit and when?**

The permittee shall submit semiannual compliance reports to the Department which contain the following information:

- (1) Company name and address.
- (2) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.
- (3) Date of report and beginning and ending dates of the reporting period.
- (4) If a malfunction occurred during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with Condition #021 herein, including actions taken to correct a malfunction.
- (5) If there are no deviations from any emission or operating limitations that apply, a statement that there were no deviations from the emission or operating limitations during the reporting period.
- (6) If there were no periods during which the continuous parameter monitoring system (CPMS) was out-of-control, a statement that there were no periods during which the CPMS was out-of-control during the reporting period. A CPMS is out of control if the zero (low-level), mid-level (if applicable), or high-level calibration drift (CD) exceeds two times the applicable CD specification in the applicable performance specification or in the relevant standard or the CPMS fails a performance test audit (e.g., cylinder gas audit), relative accuracy audit, relative accuracy test audit, or linearity test audit. When the CPMS is out of control, the permittee shall take the necessary corrective action and shall repeat all necessary tests which indicate that the system is out of control. The permittee shall take corrective action and conduct retesting until the performance requirements are below the applicable limits. The beginning of the out-of-control period is the hour the permittee conducts a performance check (e.g., calibration drift) that indicates an exceedance of the performance requirements established under this part. The end of the out-of-control period is the hour following the completion of corrective action and successful demonstration that the system is within the allowable limits. During the period the CPMS is out of control, recorded data shall not be used in data averages and calculations, or to meet any data availability requirement established under this part.
- (7) For each deviation from an emission or operating limitation occurring for Source P124, the permittee shall include the following information in the semiannual compliance report:
 - (a) The date and time that each malfunction started and stopped.

**SECTION D. Source Level Requirements**

- (b) The date, time, and duration that each CPMS was inoperative, except for zero (low-level) and high-level checks.
- (c) The date, time, and duration that each CPMS was out-of-control, including the information concerning out-of-control periods, including start and end dates and hours and descriptions of corrective actions taken.
- (d) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period.
- (e) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.
- (f) A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes.
- (g) A summary of the total duration of CPMS downtime during the reporting period, and the total duration of CPMS downtime as a percent of the total operating time of Source P124 at which the CPMS downtime occurred during that reporting period.
- (h) An identification of each parameter and pollutant that was monitored at Source P124.
- (i) A brief description of the Source P124.
- (j) A brief description of the CPMS.
- (k) The date of the latest CPMS certification or audit.
- (l) A description of any changes in CPMS, processes, or controls since the last reporting period.

Semiannual compliance reports shall be postmarked or delivered no later than July 31 for the semiannual reporting period from January 1 through June 30 and postmarked or delivered no later than January 31 for the semiannual reporting period from July 1 through December 31.

VI. WORK PRACTICE REQUIREMENTS.**# 022 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6600]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What emission limitations and operating limitations must I meet if I own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions?**

The permittee shall operate Source P124 such that the pressure drop across the Control Device C124A does not change by more than 2 inches of water at 100% load plus or minus 10% from the pressure drop across the control device that was measured during the initial performance test; and maintain the temperature of Source P124 such that the inlet temperature of Control Device C124A is greater than or equal to 450°F and less than or equal to 1350°F.

Whenever the catalyst incorporated in Control Device C124A is changed, the permittee shall reestablish the values of these operating parameters when conducting performance testing to demonstrate the replacement catalyst in Control Device C124A is reducing the emission of carbon monoxide from Source P124 by 93% or more. These performance tests shall be conducted within 180 days following replacement of the catalyst in Control device C124A and in accordance with the requirements specified in Condition #008 herein.

[Compliance with this condition also ensures compliance with 40 CFR Section 63.6640]

023 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6605]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my general requirements for complying with this subpart?**

At all times the permittee shall operate and maintain Source P124, including Control Device C124A and associated monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Department which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.****# 024 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P124 is a 4735 brake horsepower, four-stroke, lean-burn, natural gas-fired Caterpillar model G3616 internal combustion engine equipped with low NOx electronic control technology, the air contaminant emissions from which are controlled by a Johnson Matthey model 3035 oxidation catalyst (Control Device C124A) and a Johnson Matthey model SINOx SW40 selective catalytic reduction (SCR) system (Control Device C124B) connected in series.

025 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall not operate Source IP124 at any time without the simultaneous operation of Control Devices C124A and C124B.

026 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4230]**Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****Am I subject to this subpart?**

Source P124 shall comply with all applicable requirements specified in Subpart JJJJ of the federal Standards of Performance, 40 CFR 60.4230 through 60.4248.

027 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****Am I subject to this subpart?**

Source P124 shall comply with all applicable requirements specified in Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants, 40 CFR 63.6580 through 63.6675.

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P125

Source Name: 4735 BHP, CAT G3616 ENGINE #15, SN BLB00761

Source Capacity/Throughput:

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

[Additional authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The air contaminant emissions from Source P125 shall not exceed the following limitations:

- (1) nitrogen oxides (NO_x, expressed as NO₂) - 0.15 grams per brake horsepower-hour and 6.88 tons in any 12 consecutive month period.
- (2) carbon monoxide - 0.19 grams per brake horsepower-hour and 8.80 tons in any 12 consecutive month period.
- (3) total combined volatile organic compounds - 0.23 grams per brake horsepower-hour and 10.47 tons in any 12 consecutive month period.
- (4) sulfur oxides (SO_x, expressed as SO₂) - 0.001 pounds per million Btu and 0.10 tons in any 12 consecutive month period.
- (5) particulate matter - 0.01 grains per dry standard cubic foot of exhaust gas, 0.01 pounds per million Btu and 1.71 tons in any 12 consecutive month period.
- (6) nonmethane, nonethane hydrocarbons - 0.19 grams per brake horsepower-hour and 8.63 tons in any 12 consecutive month period.
- (7) formaldehyde - 0.04 grams per brake horsepower-hour and 1.84 tons in any 12 consecutive month period.

[Compliance with this condition also ensures compliance with 25 Pa. Code Sections 123.13 and 129.97, as well as 40 CFR Section 60.4233]

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**The permittee shall not permit the emission of sulfur oxides, expressed as SO₂, into the outdoor atmosphere from Source P125 in a manner that the concentration of the sulfur oxides in the effluent gas exceeds 2 parts per million, by volume, dry basis.

[Compliance with this condition also ensures compliance with the requirements of 25 Pa. Code Section 123.21]

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

[Additional authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall only use natural gas as fuel for Source P125.

Operation Hours Restriction(s).**# 004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6600]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What emission limitations and operating limitations must I meet if I own or operate a stationary RICE with a site rating of**

The permittee shall minimize the time Source P125 spends at idle and minimize the source's startup time at startup to a

**SECTION D. Source Level Requirements**

period needed for appropriate and safe loading of the source, not to exceed 30 minutes, after which time the requirement to reduce the emission of carbon monoxide from Source P125 by 93% or more applies.

[Compliance with this condition also ensures compliance with 40 CFR Section 63.6625]

Control Device Efficiency Restriction(s).

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6600]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What emission limitations and operating limitations must I meet if I own or operate a stationary RICE with a site rating of

Control Device C125A shall reduce the emission of carbon monoxide from Source P125 by 93% or more at all times, except during periods of startup.

II. TESTING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.100]

(1) By no later than January 1, 2017, and by no later than every five years thereafter (January 1, 2022, January 1, 2027, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform stack testing on Source P125 to determine the nitrogen oxides (NO_x, expressed as NO₂), carbon monoxide and volatile organic compound emission rates from the source using test methods and procedures deemed acceptable by the Department. All testing shall be performed while the source is operating within 10% of 100% peak (or the highest achievable) load, but not less than 70% of full load.

(2) At least 90 days prior to the performance of any testing required herein, the permittee shall submit an electronic copy in pdf format of a pretest protocol to the Northcentral Regional Air Program Manager (RA-EPNCstacktesting@pa.gov) and to the Source Testing Section Program Manager (RA-EPstacktesting@pa.gov) for review. This protocol shall describe the test methods and procedures to be used in the performance of testing and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.

(3) At least 14 days prior to the performance of any testing required herein, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(1) The permittee shall perform nitrogen oxides (NO_x, expressed as NO₂) and carbon monoxide testing upon Source P125 at six-month intervals using a portable gas analyzer. The test protocol for performing nitrogen oxides and carbon monoxide testing using a portable gas analyzer shall be approved by the Department at least one time.

(2) This testing shall be performed twice per calendar year, once during the time frame from January 1 to June 30 and once during the time frame from July 1 to December 31. The time period between testing shall be no more than 9 months and no less than 4 months. Testing shall be performed during normal maximum operating conditions.

(3) The Department may require EPA reference method stack testing on Source P125 based on results of any portable gas analyzer testing.

(4) Carbon monoxide testing performed on Source P125 using a portable gas analyzer is not required if the permittee performs carbon monoxide testing using EPA reference methods during that six-month testing interval and the permittee simultaneously performs nitrogen oxides testing using either a portable gas analyzer or EPA reference methods.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6615]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

When must I conduct subsequent performance tests?

Following the initial performance testing required pursuant to Subpart ZZZZ of 40 CFR part 63, the permittee shall perform

**SECTION D. Source Level Requirements**

semiannual stack testing on Source P125 to demonstrate compliance with the minimum 93% carbon monoxide reduction percentage required for Control Device C125A. The performance testing shall be conducted in accordance with the requirements specified in Condition #008 herein.

After demonstrating compliance for two consecutive tests, the permittee may reduce the frequency of subsequent performance tests to annually. If the results of any subsequent annual performance test indicate that Source P125 is not operating in compliance with the carbon monoxide emission limitation, or the permittee deviates from any operating limitations, the permittee shall resume semiannual performance tests.

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6620]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What performance tests and other procedures must I use?**

(1) All semiannual/annual stack testing and all stack testing required following the catalyst replacement of Control Device C125A shall be performed using test methods and procedures prescribed by 40 CFR Section 63.6620 and deemed acceptable by the Department. All testing shall be performed while Source P125 is operating within plus or minus 10% of 100 percent load.

(2) At least 90 days prior to the performance of any testing required herein, the permittee shall submit an electronic copy in pdf format of a pretest protocol to the Northcentral Regional Air Program Manager (RA-EPNCstacktesting@pa.gov) and to the Source Testing Section Program Manager (RA-EPstacktesting@pa.gov) for review. This protocol shall describe the test methods and procedures to be used in the performance of testing and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.

(3) At least 14 days prior to the performance of any testing required herein, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

[Additional authority for the permit condition is also derived from 40 CFR Section 63.6640]

III. MONITORING REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is also derived from 25 Pa. Code Sections 127.1, 127.12 and 40 CFR Section 63.6625]

Control Devices C125A and C125B shall be equipped with instrumentation to continuously monitor the differential pressure across each device. In addition, Control Device C125A shall be equipped with instrumentation to continuously monitor and record the inlet temperature of the device.

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

The permittee shall install, operate, and maintain each continuous parameter monitoring system (CPMS) associated with Control Device C125A according to the requirements in subsections (1) through (6) herein.

(1) The permittee shall prepare a site-specific monitoring plan that addresses the monitoring system design, data collection, and the quality assurance and quality control elements outlined in subsections (1)(a) through (e) herein.

(a) The performance criteria and design specifications for the monitoring system equipment, including the sample interface, detector signal analyzer, and data acquisition and calculations;

(b) Sampling interface (e.g., thermocouple) location such that the monitoring system will provide representative measurements;

(c) Equipment performance evaluations, system accuracy audits, or other audit procedures;

(d) Ongoing operation and maintenance procedures in accordance with provisions in 40 CFR Part 63; and

**SECTION D. Source Level Requirements**

(e) Ongoing reporting and recordkeeping procedures in accordance with provisions in 40 CFR Part 63.

(2) The permittee shall install, operate, and maintain each CPMS in continuous operation according to the procedures in your site-specific monitoring plan.

(3) The CPMS must collect data at least once every 15 minutes.

(4) For a CPMS for measuring temperature range, the temperature sensor must have a minimum tolerance of 2.8 degrees Celsius (5 degrees Fahrenheit) or 1% of the measurement range, whichever is larger.

(5) The permittee shall conduct the CPMS equipment performance evaluation, system accuracy audits, or other audit procedures specified in your site-specific monitoring plan at least annually.

(6) The permittee shall conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.

012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6635]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

How do I monitor and collect data to demonstrate continuous compliance?

Except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities, the permittee shall continuously monitor each continuous parameter monitoring system (CPMS) associated with Control Device C125A at all times that Source P125 is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. The permittee shall not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. The permittee shall, however, use all the valid data collected during all other periods.

IV. RECORDKEEPING REQUIREMENTS.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain comprehensive and accurate records of the following information for Source P125:

(1) The calculations used to verify compliance with the nitrogen oxides, carbon monoxide, volatile organic compounds and formaldehyde emission limitations for each month for Source P125 in any 12 consecutive month period.

(2) The results of the semi-annual nitrogen oxides and carbon monoxide testing using a portable gas analyzer.

(3) The differential pressure across Control Devices C125A and C125B, recorded on a daily basis, and the inlet temperature of Control Device C125B, which shall be computed as an hourly average.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to the Department upon request.

014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4245]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary SI internal combustion engine?

The permittee shall keep records of the maintenance conducted on Source P125 and documentation from the manufacturer that Source P125 is certified to meet the emission standards and information as required in Subpart JJJJ of 40 CFR Part 60. All records generated pursuant to this condition shall be retained for a minimum of five (5) years following the date of each maintenance action and shall be made available to the Department upon request.

015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What records must I keep?

The permittee shall maintain accurate and comprehensive records of the following:

(1) A copy of each notification and report submitted to comply with Subpart ZZZZ of 40 CFR Part 63, including all

**SECTION D. Source Level Requirements**

documentation supporting any Initial Notification or Notification of Compliance Status submitted.

(2) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.

(3) Records of performance tests and performance evaluations.

(4) Records of all required maintenance performed on the air pollution control and monitoring equipment.

(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with Condition #021 herein, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report or record and shall be made available to the Department upon request.

016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What records must I keep?

The permittee shall collect the inlet temperature data for Control Device C125A in accordance with Condition #010 and reduce this data to 4-hour rolling averages. The 4-hour rolling averages shall be maintained within the operating limitations specified for the inlet temperature for Control Device C125A. The permittee shall also measure the pressure drop across Control Device C125A once per month to demonstrate that the pressure drop across Control Device C125A is operating within the operating limitations specified for the pressure drop for Control Device C125A.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report or record and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.100]

Within 60 days following the completion of any testing required herein, the permittee shall submit an electronic copy in pdf format of a test report to the Northcentral Regional Air Program Manager (RA-EPNCstacktesting@pa.gov) and the Source Testing Section Program Manager (RA-EPstacktesting@pa.gov) for review. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of all testing shall be expressed in units which will allow direct comparisons to the emissions limitations specified herein.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The results of all portable analyzer and EPA reference method testing performed on Source P125 shall be submitted to the Department within 30 days and 60 days, respectively, of test performance.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall submit semi-annual reports to the Department of the calculations used to verify compliance with the 12 consecutive month period nitrogen oxides, carbon monoxide, volatile organic compound and formaldehyde emission limitations for Source P125 for each month during the respective semi-annual period. The semi-annual reports shall be submitted to the Department no later than September 1 and March 1 for the previous 12 consecutive month period.

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The submission of annual or semi-annual reports required by Subpart JJJJ of the federal Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, 40 CFR 60.4230 through 60.4248, Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR

**SECTION D. Source Level Requirements**

63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and electronically to the Environmental Protection Agency. The electronic reports must be submitted using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the EPA e-mail address and Administrator postal address listed below.

The submission of all other requests, applications submittals and other communications required by Subpart JJJJ of the federal Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, 40 CFR 60.4230 through 60.4248, Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The copies may be sent to:

R3_Air_Apps_and_Notices@epa.gov

And

Pennsylvania Department of Environmental Protection
Air Quality Program Manager
208 W. Third Street, Suite 101
Williamsport, PA 17701

021 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6650]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What reports must I submit and when?**

The permittee shall submit semiannual compliance reports to the Department which contain the following information:

- (1) Company name and address.
- (2) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.
- (3) Date of report and beginning and ending dates of the reporting period.
- (4) If a malfunction occurred during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with Condition #021 herein, including actions taken to correct a malfunction.
- (5) If there are no deviations from any emission or operating limitations that apply, a statement that there were no deviations from the emission or operating limitations during the reporting period.
- (6) If there were no periods during which the continuous parameter monitoring system (CPMS) was out-of-control, a statement that there were no periods during which the CPMS was out-of-control during the reporting period. A CPMS is out of control if the zero (low-level), mid-level (if applicable), or high-level calibration drift (CD) exceeds two times the applicable CD specification in the applicable performance specification or in the relevant standard or the CPMS fails a performance test audit (e.g., cylinder gas audit), relative accuracy audit, relative accuracy test audit, or linearity test audit. When the CPMS is out of control, the permittee shall take the necessary corrective action and shall repeat all necessary tests which indicate that the system is out of control. The permittee shall take corrective action and conduct retesting until the performance requirements are below the applicable limits. The beginning of the out-of-control period is the hour the permittee conducts a performance check (e.g., calibration drift) that indicates an exceedance of the performance requirements established under this part. The end of the out-of-control period is the hour following the completion of corrective action and successful demonstration that the system is within the allowable limits. During the period the CPMS is out of control, recorded data shall not be used in data averages and calculations, or to meet any data availability requirement established under this part.
- (7) For each deviation from an emission or operating limitation occurring for Source P125, the permittee shall include the following information in the semiannual compliance report:

**SECTION D. Source Level Requirements**

- (a) The date and time that each malfunction started and stopped.
- (b) The date, time, and duration that each CPMS was inoperative, except for zero (low-level) and high-level checks.
- (c) The date, time, and duration that each CPMS was out-of-control, including the information concerning out-of-control periods, including start and end dates and hours and descriptions of corrective actions taken.
- (d) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period.
- (e) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.
- (f) A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes.
- (g) A summary of the total duration of CPMS downtime during the reporting period, and the total duration of CPMS downtime as a percent of the total operating time of Source P125 at which the CPMS downtime occurred during that reporting period.
- (h) An identification of each parameter and pollutant that was monitored at Source P125.
- (i) A brief description of the Source P125.
- (j) A brief description of the CPMS.
- (k) The date of the latest CPMS certification or audit.
- (l) A description of any changes in CPMS, processes, or controls since the last reporting period.

Semiannual compliance reports shall be postmarked or delivered no later than July 31 for the semiannual reporting period from January 1 through June 30 and postmarked or delivered no later than January 31 for the semiannual reporting period from July 1 through December 31.

VI. WORK PRACTICE REQUIREMENTS.**# 022 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6600]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What emission limitations and operating limitations must I meet if I own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions?**

The permittee shall operate Source P125 such that the pressure drop across the Control Device C125A does not change by more than 2 inches of water at 100% load plus or minus 10% from the pressure drop across the control device that was measured during the initial performance test; and maintain the temperature of Source P125 such that the inlet temperature of Control Device C125A is greater than or equal to 450°F and less than or equal to 1350°F.

Whenever the catalyst incorporated in Control Device C125A is changed, the permittee shall reestablish the values of these operating parameters when conducting performance testing to demonstrate the replacement catalyst in Control Device C125A is reducing the emission of carbon monoxide from Source P125 by 93% or more. These performance tests shall be conducted within 180 days following replacement of the catalyst in Control device C125A and in accordance with the requirements specified in Condition #008 herein.

[Compliance with this condition also ensures compliance with 40 CFR Section 63.6640]

023 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6605]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my general requirements for complying with this subpart?**

At all times the permittee shall operate and maintain Source P125, including Control Device C125A and associated monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Department which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.****# 024 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P125 is a 4735 brake-horsepower, four-stroke, lean-burn, natural gas-fired, Caterpillar model G3616 internal combustion engine equipped with low NOx electronic control technology, the air contaminant emission from which shall be controlled by a Johnson Matthey model 3035 oxidation catalyst (Control Device C125A) and a Johnson Matthey model SINOx SW40 selective catalytic reduction (SCR) system (Control Device C125B) connected in series.

025 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall not operate Source P125 at any time without the simultaneous operation of Control Devices C125A and C125B.

026 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4230]**Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****Am I subject to this subpart?**

Source P125 shall comply with all applicable requirements specified in Subpart JJJJ of the federal Standards of Performance, 40 CFR 60.4230 through 60.4248.

027 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****Am I subject to this subpart?**

Source P125 shall comply with all applicable requirements specified in Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants, 40 CFR 63.6580 through 63.6675.

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P201

Source Name: CUMMINS EMER GENERATOR GTA38 803 HP

Source Capacity/Throughput:

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

[Additional authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The air contaminant emissions from Source P201 shall not exceed the following limitations:

- (1) nitrogen oxides (NO_x, expressed as NO₂) - 0.50 grams per brake horsepower-hour and 0.24 tons in any 12 consecutive month period.
- (2) carbon monoxide - 0.50 grams per brake horsepower-hour and 0.24 tons in any 12 consecutive month period.
- (3) volatile organic compound - 0.20 grams per brake horsepower-hour and 0.09 tons in any 12 consecutive month period.
- (4) sulfur oxides (SO_x, expressed as SO₂) - 0.001 pounds per million Btu and 0.002 tons in any 12 consecutive month period.
- (5) particulate matter - 0.01 grains per dry standard cubic foot of exhaust gas, 0.01 pounds per million Btu and 0.02 tons in any 12 consecutive month period.

[Compliance with this condition also ensures compliance with 25 Pa. Code Sections 123.13, 123.21 and 40 CFR Section 60.4233.]

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

[Additional authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P201 shall be operated no more than or equal to 500 hours in any 12 consecutive month period.

003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4243]**Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary SI internal combustion engine?**

Any operation of Source P201, other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in subsections (1) through (3), is prohibited.

- (1) With respect to demonstrating compliance with this condition, there is no time limit on the use of Source P201 in emergency situations.
- (2) The permittee may operate Source P201 for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor or the insurance company associated with this source, for a maximum of 100 hours per calendar year. The permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of Source P201 beyond 100 hours per calendar year. Any operation for non-emergency situations as allowed by subsection (3) of this condition counts as part of the 100 hours per calendar year allowed by this subsection.
- (3) Source P201 may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in subsection (2) of this condition.

**SECTION D. Source Level Requirements****II. TESTING REQUIREMENTS.**

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

III. MONITORING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this condition is also derived from 25 Pa. Code Sections 127.1, 127.12 and 40 CFR Section 60.4237]

Source P201 shall be equipped with a non-resettable hour meter to monitor the number of hours that the engine is operated.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Control Device C201 shall be equipped with instrumentation to continuously monitor the differential pressure across the device and the inlet gas temperature of the device.

IV. RECORDKEEPING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain accurate and comprehensive records of the following information for Source P201:

- (1) The calculations used to verify compliance with the nitrogen oxides, carbon monoxide, volatile organic compounds and formaldehyde emission limitations for each month for Source P201 in any 12 consecutive month period.
- (2) The number of hours Source P201 is operated each month.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to the Department upon request.

007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4245]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines**What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary SI internal combustion engine?**

The permittee shall keep records of the maintenance conducted on Source P201 and documentation from the manufacturer that Source P201 is certified to meet the emission standards and information as required in Subpart JJJJ of 40 CFR Part 60. All records generated pursuant to this condition shall be retained for a minimum of five (5) years following the date of each maintenance action and shall be made available to the Department upon request.

008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4245]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines**What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary SI internal combustion engine?**

The permittee shall keep monthly records of the hours of operation of Source P201 that is recorded through the nonresettable hour meter. The permittee shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall submit annual reports to the Department of the number of hours Source P201 was operated each

**SECTION D. Source Level Requirements**

month during the year. The annual report shall be submitted to the Department no later than March 1 for the previous year.

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

The submission of annual or semi-annual reports required by Subpart JJJJ of the federal Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, 40 CFR 60.4230 through 60.4248, Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and electronically to the Environmental Protection Agency. The electronic reports must be submitted using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the EPA e-mail address and Administrator postal address listed below.

The submission of all other requests, applications submittals and other communications required by Subpart JJJJ of the federal Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, 40 CFR 60.4230 through 60.4248, Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The copies may be sent to:

R3_Air_Apps_and_Notices@epa.gov

And

Pennsylvania Department of Environmental Protection
Air Quality Program Manager
208 W. Third Street, Suite 101
Williamsport, PA 17701

VI. WORK PRACTICE REQUIREMENTS.**# 011 [25 Pa. Code §129.97]****Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.**

Source P201 shall be maintained and operated in accordance with the manufacturer's specifications and with good operating practices.

VII. ADDITIONAL REQUIREMENTS.**# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P201 is an 803 brake horsepower, four-stroke, rich-burn, natural gas-fired Cummins model GTA 38 emergency generator, the air contaminant emissions from which shall be controlled by a Miratech model IQ-18-10-EC2 non-selective catalytic reduction (NSCR) system (Control Device C201).

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

[Additional authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall not operate Source P201 at any time without the simultaneous operation of Control Device C201.

**SECTION D. Source Level Requirements****# 014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4230]****Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****Am I subject to this subpart?**

Source P201 shall comply with all applicable requirements of specified in Subpart JJJJ of the federal Standards of Performance, 40 CFR 60.4230 through 60.4248.

015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****Am I subject to this subpart?**

Source P201 shall comply with all applicable requirements specified in Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants, 40 CFR 63.6580 through 63.6675.

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P202

Source Name: KOHLER AUX GEN #4 - DOOSAN 684 BHP NG ENG D219TIC

Source Capacity/Throughput:

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

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P202 in such a manner that the concentration in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

The permittee shall not permit the emission of sulfur oxides (SOx), expressed as SO₂, into the outdoor atmosphere from Source P202 in such a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

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

The air contaminant emissions from Source P202 shall not exceed the following limitations:

- (1) nitrogen oxides (NO_x, expressed as NO₂) - 0.06 grams per brake horsepower-hour.
- (2) carbon monoxide - 0.10 grams per brake horsepower-hour.
- (3) nonmethane hydrocarbons - 0.01 grams per brake horsepower-hour.

[Compliance with this condition also ensures compliance with 40 CFR Section 60.4233.]

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****Am I subject to this subpart?**

Source P202 shall comply with all applicable requirements specified in Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants, 40 CFR 63.6580 through 63.6675.

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

Source P202 shall only be fired on pipeline quality natural gas.

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

Source P202 shall be operated no more than or equal to 500 hours in any 12 consecutive month period.

007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4243]**Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary SI internal combustion engine?**

Any operation of Source P202, other than emergency operation, maintenance and testing, and operation in non-emergency

**SECTION D. Source Level Requirements**

situations for 50 hours per year, as described in subsections (1) through (3), is prohibited.

(1) With respect to demonstrating compliance with this condition, there is no time limit on the use of Source P202 in emergency situations.

(2) The permittee may operate Source P202 for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor or the insurance company associated with this source, for a maximum of 100 hours per calendar year. The permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of Source P202 beyond 100 hours per calendar year. Any operation for non-emergency situations as allowed by subsection (3) of this condition counts as part of the 100 hours per calendar year allowed by this subsection.

(3) Source P202 may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in subsection (2) of this condition.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4237]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

What are the monitoring requirements if I am an owner or operator of an emergency stationary SI internal combustion engine?

Source P202 shall be equipped with a non-resettable hour meter to monitor the number of hours that the engine is operated.

IV. RECORDKEEPING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain accurate and comprehensive records of the following:

(1) The number of hours Source P202 is operated each month.

(2) The calculations used to determine the nitrogen oxides (NO_x, expressed as NO₂), carbon monoxide, volatile organic compounds, sulfur oxides (SO_x, expressed as SO₂) and particulate matter emissions from Source P202 for each month.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and be made available to the Department upon request.

010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4245]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary SI internal combustion engine?

The permittee shall keep records of the maintenance conducted on Source P202 and documentation from the manufacturer that Source P202 is certified to meet the emission standards and information as required in Subpart JJJJ of 40 CFR Part 60. All records generated pursuant to this condition shall be retained for a minimum of five (5) years following the date of each maintenance action and shall be made available to the Department upon request.

011 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4245]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary SI internal combustion engine?

The permittee shall keep monthly records of the hours of operation of Source P202 that is recorded through the

**SECTION D. Source Level Requirements**

nonresettable hour meter. The permittee shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.**# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall submit annual reports to the Department of the following:

- (1) The number of hours Source P202 was operated each month during the calendar year.
- (2) The calculations used to determine the nitrogen oxides (NO_x, expressed as NO₂), carbon monoxide, volatile organic compounds, sulfur oxides (SO_x, expressed as SO₂) and particulate matter emissions from Source P202 for each month during the calendar year.

The annual report shall be submitted to the Department no later than March 1 for the previous year.

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

The submission of annual or semi-annual reports required by Subpart JJJJ of the federal Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, 40 CFR 60.4230 through 60.4248, Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and electronically to the Environmental Protection Agency. The electronic reports must be submitted using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the EPA e-mail address and Administrator postal address listed below.

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And

Pennsylvania Department of Environmental Protection
Air Quality Program Manager
208 W. Third Street, Suite 101
Williamsport, PA 17701

VI. WORK PRACTICE REQUIREMENTS.

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

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

Source P202 is a 450 kilowatt Kohler model 450REZXB emergency generator equipped with a 684 brake horsepower, four-

**SECTION D. Source Level Requirements**

stroke, rich-burn, natural gas-fired Doosan model D219TIC engine, the air contaminant emission from which shall be controlled by an NSCR three-way catalyst (Control Device C202).

**# 015 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4230]
Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
Am I subject to this subpart?**

Source P202 shall comply with all applicable requirements of specified in Subpart JJJJ of the federal Standards of Performance, 40 CFR 60.4230 through 60.4248.

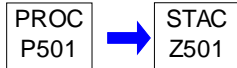
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P501

Source Name: PNEUMATIC DEVICES

Source Capacity/Throughput:

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

The permittee shall maintain accurate and comprehensive records of the amount of fugitive volatile organic compounds and fugitive volatile hazardous air pollutants emitted from Source P501 during each 12 consecutive month period. All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request. These records shall include all background information and calculations used in the derivation of the reported values.

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

The records generated during each calendar year pursuant to Condition #001 herein shall be submitted to the Department by March 1 of the following calendar year.

VI. WORK PRACTICE REQUIREMENTS.

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

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

Source P501 consists of all bleed-type pneumatic (gas actuated) controllers located at this facility.

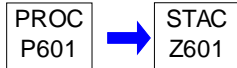
*** Permit Shield in Effect. ***

**SECTION D. Source Level Requirements**

Source ID: P601

Source Name: VENTING/BLOWDOWN OPERATIONS

Source Capacity/Throughput:

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

The permittee shall maintain accurate and comprehensive records of the amount of fugitive volatile organic compounds and fugitive volatile hazardous air pollutants emitted from venting and blowdowns during each 12 consecutive month period. All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request. These records shall include all background information and calculations used in the derivation of the reported values.

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

The records generated during each calendar year pursuant to Condition #001 herein shall be submitted to the Department by March 1 of the following calendar year.

VI. WORK PRACTICE REQUIREMENTS.**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall employ good operational practices for each planned venting and blowdown event to minimize the amount of fugitive emissions.

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

Source P601 consists of all planned venting and blowdown events at this facility, whether from an individual component, or source, or a facility-wide event.

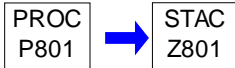
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P801

Source Name: PIGGING OPERATIONS

Source Capacity/Throughput:

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

The permittee shall maintain accurate and comprehensive records of the amount of fugitive volatile organic compounds and fugitive volatile hazardous air pollutants emitted from pigging operations during each 12 consecutive month period. All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request. These records shall include all background information and calculations used in the derivation of the reported values.

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

The records generated during each calendar year pursuant to Condition #001 herein shall be submitted to the Department by March 1 of the following calendar year.

VI. WORK PRACTICE REQUIREMENTS.**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall employ good operational practices for each pigging event to minimize the amount of fugitive emissions.

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

Source P801 is comprised of a pig launcher.

***** Permit Shield in Effect. *****



SECTION E. Source Group Restrictions.

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Title V facility.

**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.

**SECTION H. Miscellaneous.**

The following air contaminant sources are considered to be insignificant in regards to air contaminant emissions and have been determined by the Department to be exempt from permitting requirements. However, this determination does not exempt the sources from compliance with all applicable State and Federal regulations and all applicable air quality regulations specified in 25 Pa. Code Chapters 121-143:

- (1) 0.018 million Btu per hour, natural gas-fired Daikin HVAC unit
- (2) two 0.0015 million Btu per hour, natural gas-fired Catco catalytic heaters
- (3) 0.008 million Btu per hour, natural gas-fired Bruest catalytic heater
- (4) 0.073 million Btu per hour, natural gas-fired Global Power Technologies thermoelectric generator

As per a request made by National Fuel Gas Supply Corporation, the Department recognizes Jeffery J. Kittka, Vice President, to be a certified "alternate" responsible official charged with authenticating official documents submitted to the Department on behalf of National Fuel Gas Supply Corporation's Ellisburg Compressor Station.



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