



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AIR QUALITY PROGRAM

STATE ONLY OPERATING PERMIT

Issue Date: March 29, 2021

Effective Date: March 29, 2021

Expiration Date: March 28, 2026

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 unless otherwise designated.

State Only Permit No: 08-00036

Synthetic Minor

Federal Tax Id - Plant Code: 98-0381749-9

Owner Information

Name: REPSOL OIL & GAS USA LLC  
Mailing Address: 337 DANIEL ZENKER DR  
HORSEHEADS, NY 14845-1008

Plant Information

Plant: REPSOL OIL & GAS USA LLC/PUTNAM COMP STA  
Location: 08 Bradford County 08906 Armenia Township  
SIC Code: 1311 Mining - Crude Petroleum And Natural Gas

Responsible Official

Name: SHELDON LILLICO  
Title: DIR MARCELLUS BUS UNIT  
Phone: (607) 562 - 4000

Permit Contact Person

Name: KRIS PERRITT  
Title: SR ENV SPVR  
Phone: (607) 731 - 4882

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



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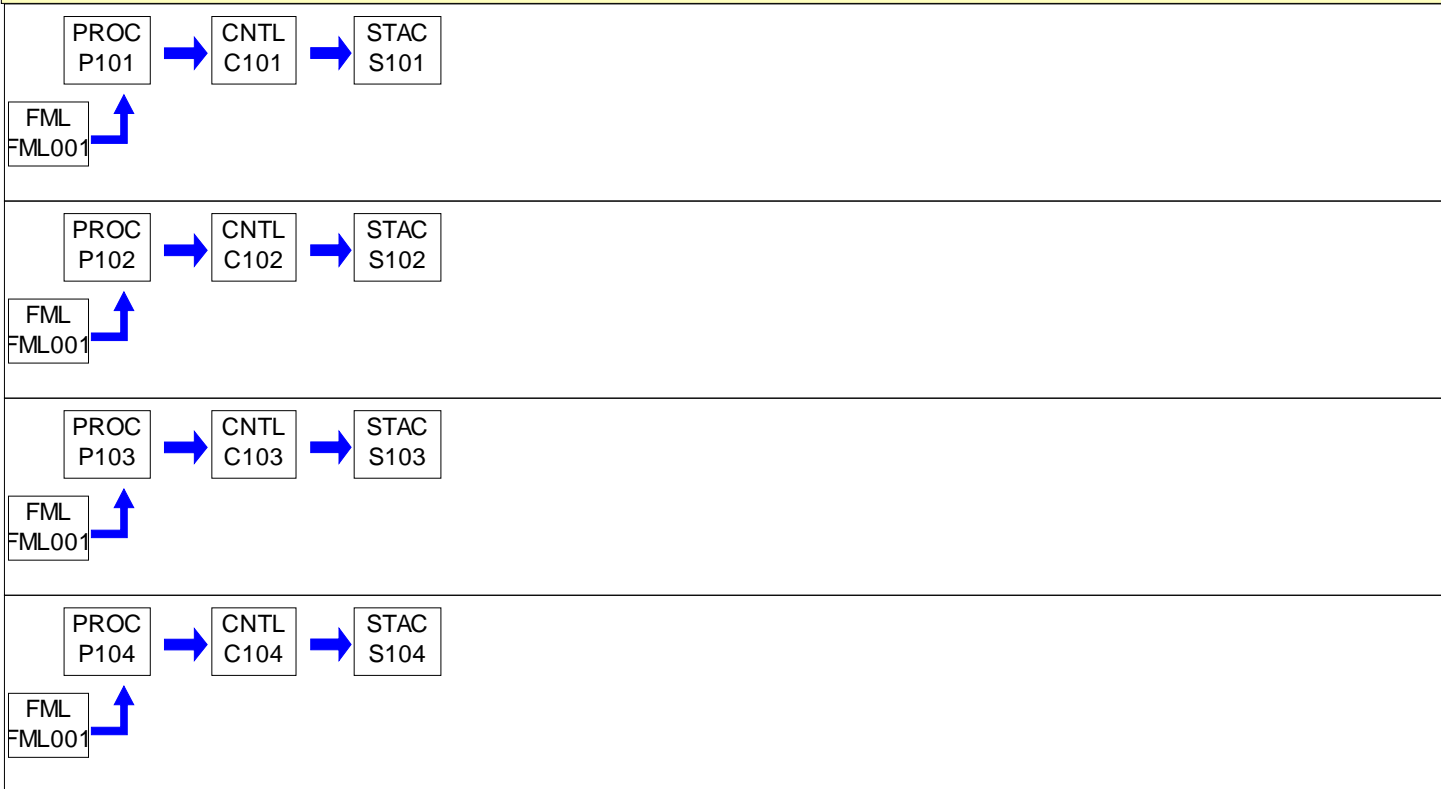
Source ID	Source Name	Capacity/Throughput	Fuel/Material
P101	NATURAL GAS-FIRED COMPRESSOR ENGINE (K1104)		
P102	NATURAL GAS-FIRED COMPRESSOR ENGINE (K1204)		
P103	NATURAL GAS-FIRED COMPRESSOR ENGINE (K1304)		
P104	NATURAL GAS-FIRED COMPRESSOR ENGINE (K1404)		
P105	NATURAL GAS-FIRED COMPRESSOR ENGINE (K1504)		
P106	NATURAL GAS-FIRED COMPRESSOR ENGINE (K1604)		
P107	NATURAL GAS-FIRED COMPRESSOR ENGINE (K2104)		
P108	NATURAL GAS-FIRED COMPRESSOR ENGINE (K2204)		
P109	NATURAL GAS-FIRED COMPRESSOR ENGINE (K2304)		
P110	NATURAL GAS-FIRED COMPRESSOR ENGINE (K2404)		
P111	NATURAL GAS-FIRED COMPRESSOR ENGINE (K2504)		
P112	NATURAL GAS-FIRED COMPRESSOR ENGINE (K2604)		
P201	GLYCOL DEHYDRATOR RATED AT 60 MMSCF/DAY (V-1600)		
P202	GLYCOL DEHYDRATOR RATED AT 60 MMSCF/DAY (V-2600)		
P301	TANKS/VESSELS		
P401	HEATERS/REBOILERS UNIT 1		
P402	HEATERS/REBOILERS UNIT 2		
P601	VENTING/BLOWDOWNS		
P701	FUGITIVES		
P801	PIGGING OPERATIONS		
C101	CATALYST FOR K1104		
C102	CATALYST FOR K1204		
C103	CATALYST FOR K1304		
C104	CATALYST FOR K1404		
C105	CATALYST FOR K1504		
C106	CATALYST FOR K1604		
C107	CATALYST FOR K2104		
C108	CATALYST FOR K2204		
C109	CATALYST FOR K2304		
C110	CATALYST FOR K2404		
C111	CATALYST FOR K2504		
C112	CATALYST FOR K2604		
FML001	NATURAL GAS FUEL		
S101	STACK K1104		
S102	STACK K1204		



**SECTION A. Site Inventory List**

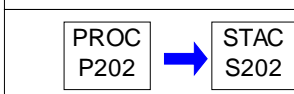
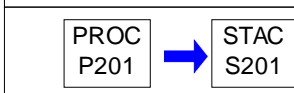
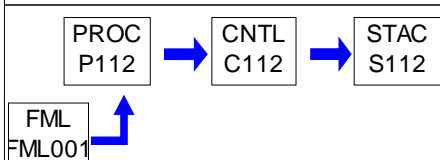
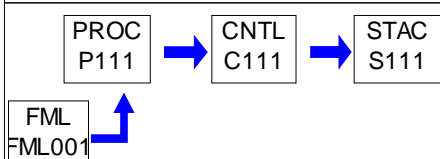
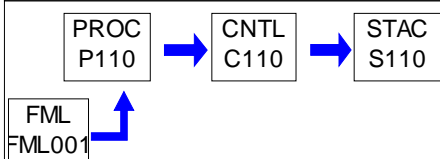
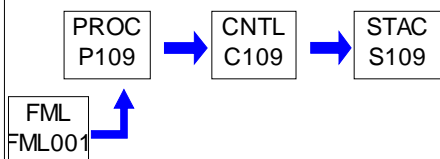
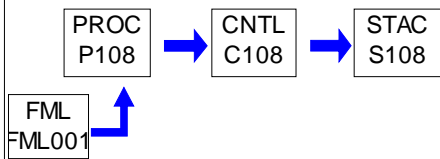
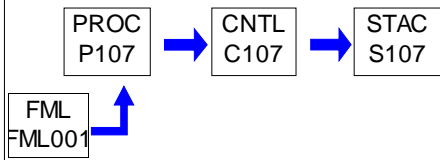
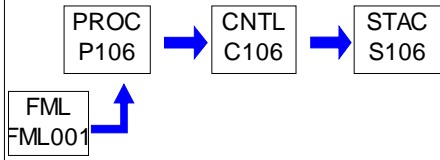
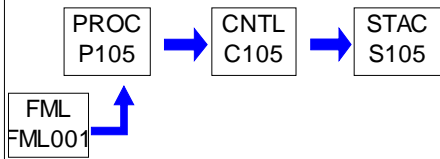
Source ID	Source Name	Capacity/Throughput	Fuel/Material
S103	STACK K1304		
S104	STACK K1404		
S105	STACK K1504		
S106	STACK K1604		
S107	STACK K2104		
S108	STACK K2204		
S109	STACK K2304		
S110	STACK K2404		
S111	STACK K2504		
S112	STACK K2604		
S201	STILL VENT STACK V-1600		
S202	STILL VENT STACK V-2600		
S401	HEATERS/REBOILERS UNIT 1 STACK		
S402	HEATERS/REBOILERS UNIT 2 STACK		
Z301	TANKS/VESSELS STACK		
Z601	VENTING/BLOWDOWNS STACK		
Z701	FUGITIVES STACK		
Z801	PIGGING OPERATIONS STACK		

**PERMIT MAPS**





PERMIT MAPS



**PERMIT MAPS**

PROC P301 → STAC Z301

PROC P401 → STAC S401

FML FML001 ↗

PROC P402 → STAC S402

FML FML001 ↗

PROC P601 → STAC Z601

PROC P701 → STAC Z701

PROC P801 → STAC Z801

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

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

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

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

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

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

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

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



**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

(2) One ton of NO<sub>x</sub> from a single source during the term of the permit and 5 tons of NO<sub>x</sub> 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 PM<sub>10</sub> from a single source during the term of the permit and 3.0 tons of PM<sub>10</sub> at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act, the regulations thereunder or 25 Pa. Code Article III.

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(1) Section 127.14 (relating to exemptions)

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION C. Site Level Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §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 as emissions from blasting.
- (8) Sources and classes of sources other than those identified above, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:

- (a) the emissions are of minor significance with respect to causing air pollution; and
- (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 fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in (1) through (8) in condition #001 above 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 25 Pa. Code Sections 123.1(a)(1) through (9).

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

[Additional authority for this permit condition is derived from the permittee requesting this elective restriction.]

- (a) The combined nitrogen oxides (expressed as NO<sub>2</sub>) emissions, from all sources at the facility, shall not equal or exceed 100 tons in any 12 consecutive month period.
- (b) The combined carbon monoxide emissions, from all sources at the facility, shall not equal or exceed 100 tons in any 12 consecutive month period.
- (c) The combined sulfur oxides (expressed as SO<sub>2</sub>) emissions, from all sources at the facility, shall not equal or exceed 100 tons in any 12 consecutive month period.
- (d) The combined particulate matter less than 10 microns in diameter (PM<sub>10</sub>) emissions, from all sources at the facility, shall not equal or exceed 100 tons in any 12 consecutive month period.
- (e) The combined particulate matter less than 2.5 microns in diameter (PM<sub>2.5</sub>) emissions, from all sources at the facility, shall not equal or exceed 100 tons in any 12 consecutive month period.



**SECTION C. Site Level Requirements**

- (f) The combined volatile organic compounds emissions, from all sources at the facility, shall not equal or exceed 50 tons in any 12 consecutive month period.
- (g) The emission of any single hazardous air pollutant, from all sources at the facility, shall not equal or exceed 10 tons in any 12 consecutive month period.
- (h) The emissions of any combination of hazardous air pollutants, from all sources at the facility, shall not equal or exceed 25 tons in any 12 consecutive month period.

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

- (a) Pursuant to 25 Pa. Code § 139.3, at least 90 calendar days prior to commencing a EPA reference method testing program, a test protocol shall be submitted to the Department for review and approval. One hardcopy and one electronic copy shall be sent to the Northcentral Regional Office Air Quality Program Manager and one hardcopy and one electronic copy shall be sent to the PSIMS Administrator in Central Office. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.
- (b) Pursuant to 25 Pa. Code § 139.3, at least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the Northcentral Regional Office. Notification shall also be sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.
- (c) If applicable, pursuant to 40 CFR § 60.8(a), 40 CFR § 61.13(f) and 40 CFR § 63.7(g), complete test reports shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an EPA reference method test program.
- (d) Pursuant to 25 Pa. Code § 139.53(b) a complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or noncompliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:
1. A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.
  2. Permit number(s) and condition(s) which are the basis for the evaluation.
  3. Summary of results with respect to each applicable permit condition.
  4. Statement of compliance or non-compliance with each applicable permit condition.
- (e) Pursuant to 25 Pa. Code § 139.3, all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.
- (f) All testing shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection.
- (g) Pursuant to 25 Pa. Code §§ 139.53(a)(1) and 139.53(a)(3), one electronic copy and one hard copy of all submittals, besides notifications, shall be sent to the Northcentral Regional Office Air Quality Program Manager, with deadlines verified by postmark. In addition, one electronic copy and one hard copy shall be sent to the PSIMS Administrator in Central Office. Mail and email addresses are provided on the PA DEP website.
- (h) The permittee shall insure all federal reporting requirements contained in the applicable subpart of 40 CFR are followed, including timelines more stringent than those contained herein. In the event of an inconsistency or any conflicting requirements between state and the federal, the most stringent provision, term, condition, method or rule shall be used by default.

**# 007 [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 such 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.

**# 008 [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

**SECTION C. Site Level Requirements**

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, as 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 the rate of production of final product, boiler pressure, oven temperature and other conditions which may affect emissions from the process.
- (c) The location of the sampling ports.
- (d) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage CO, CO<sub>2</sub>, O<sub>2</sub> and N<sub>2</sub>), 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.****# 009 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

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

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

[Additional authority for this permit condition is derived from the General Plan Approval and/or General Operating Permit (BAQ-GPA/GP 5) for Natural Gas Compression and/or Processing Facilities, GP5-08-315A, authorized on May 30, 2014.]

- (a) The permittee shall, at a minimum, on a monthly basis perform a leak detection and repair program that includes audible, visual, and olfactory ("AVO") inspections.
- (b) Within 180 calendar days after the issuance of this permit, the owner or operator of the facility shall at a minimum, on a quarterly basis, use forward looking infrared ("FLIR") cameras or other leak detection monitoring devices approved by the Department for the detection of fugitive leaks. The Department may grant an extension for use of a FLIR camera upon receipt of a written request from the owner or operator of the facility documenting the justification for the requested extension.
- (c) If any leak is detected, the owner or operator of the facility shall repair the leak as expeditiously as practicable, but no later than fifteen (15) calendar days after the leak is detected, except as provided in 40 CFR §§ 60.482- 60.489. The owner or operator shall record each leak detected and the associated repair activity. The records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

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

The owner or operator of the facility shall maintain records that clearly demonstrate to the Department that the facility is not a Title V facility. In addition, the owner or operator of the facility shall keep records to verify compliance with the facility-wide emission limitations. The records shall be maintained at a minimum on a monthly basis and the emissions shall be calculated on a 12-month rolling sum. The records shall be retained for a minimum of five (5) years and shall be made available to the Department, upon request. The Department reserves the right to request additional information necessary to determine compliance.

**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 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.**

[Additional authority for this permit condition is derived from the General Plan Approval and/or General Operating Permit (BAQ-GPA/GP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

The owner or operator of the facility shall annually submit to the Department a certification of compliance with the GP-5 terms and conditions incorporated into this operating permit, for the previous year, including the applicable emission limitations, standards or work practices. The Compliance Certification Form provided by DEP shall be signed by a Responsible Official (as defined in Pa. Code §121.1). The Compliance Certification Form submitted to the DEP shall contain a certification as to truth, accuracy, and completeness consistent with the requirements of 25 Pa. Code §127.402(d). The Compliance Certification Form must be postmarked or hand-delivered to the appropriate DEP Regional Office, no later than March 1st each year for the previous calendar year. The Compliance Certification Form shall include:

- (i) The identification of each term or condition that is the basis of the certification.
- (ii) The compliance status.
- (iii) The methods used for determining the compliance status of the source, currently and over the reporting period.

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

[Additional authority for this permit condition is derived from the General Plan Approval and/or General Operating Permit (BAQ-GPA/GP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

In accordance with 25 Pa. Code § 135.3, the permittee shall submit to the Department, by March 1st each year, a source report for the preceding calendar year. The report shall include all emissions information for all previously reported sources and new sources which were first operated during the preceding calendar year. Emissions data including, but not limited to the following, shall be reported: carbon monoxide, oxides of nitrogen ("NOx"), particulate matter less than 10 micrometers in diameter (PM10), particulate matter less than 2.5 micrometers in diameter (PM2.5), sulfur dioxide, volatile organic compounds, total hazardous air pollutants ("HAP"), speciated individual HAP emissions, and greenhouse gases, expressed as CO<sub>2</sub>e.

**# 015 [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.

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

The submission of all requests, reports, applications, submittals and other communications required by the Standards of Performance for New Stationary Sources (40 CFR Part 60) and/or the National Emissions Standards for Hazardous Air Pollutants (40 CFR Part 63) shall be submitted to both the U. S. Environmental Protection Agency and the Department. The Environmental Protection Agency copies may be sent to:

R3\_Air\_Apps\_and\_Notices@epa.gov

**SECTION C. Site Level Requirements**

and

The Pennsylvania Department of Environmental Protection  
Air Quality Program Manager  
208 W. Third Street, Suite 101  
Williamsport, PA 17701-6448

**# 017 [25 Pa. Code §127.442]****Reporting requirements.**

- (a) 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.
- (b) When the malfunction, emergency or incident of excess emissions poses an imminent danger to the public health, safety, welfare, or environment, it shall be reported to the Department and the County Emergency Management Agency by telephone within one (1) hour after the discovery of the malfunction, emergency or incident of excess emissions. The owner or operator shall submit a written or emailed report of instances of such malfunctions, emergencies or incidents of excess emissions to the Department within three (3) business days of the telephone report.
- (c) The report shall describe the following:
1. name, permit or authorization number, and location of the facility,
  2. nature and cause of the malfunction, emergency or incident,
  3. date and time when the malfunction, emergency or incident was first observed,
  4. expected duration of excess emissions,
  5. estimated rate of emissions,
  6. corrective actions or preventative measures taken.
- (d) Any malfunction, emergency or incident of excess emissions that is not subject to the notice requirements of paragraph (b) of this condition shall be reported to the Department by telephone within 24 hours (or by 4:00 PM of the next business day, whichever is later) of discovery and in writing or by e-mail within five (5) business days of discovery. The report shall contain the same information required by paragraph (c), and any permit specific malfunction reporting requirements.
- (e) During an emergency an owner or operator may continue to operate the source at their discretion provided they submit justification for continued operation of a source during the emergency and follow all the notification and reporting requirements in accordance with paragraphs (b)-(d), as applicable, including any permit specific malfunction reporting requirements.
- (f) Reports regarding malfunctions, emergencies or incidents of excess emissions shall be submitted to the appropriate DEP Regional Office Air Program Manager.
- (g) Any emissions resulted from malfunction or emergency are to be reported in the annual emissions inventory report, if the annual emissions inventory report is required by permit or authorization.

**# 018 [25 Pa. Code §135.3]****Reporting**

- (1) A person who owns or operates a source to which 25 Pa. Code Section 135 applies, and who has previously been advised by the Department to submit an annual Air Information Management Systems (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 proceeding 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 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.

**SECTION C. Site Level Requirements****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 above. 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.

**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 §129.14]****Open burning operations**

The permittee shall not permit the open burning of material at the 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 State Only General Requirements).

**IX. COMPLIANCE SCHEDULE.**

No compliance milestones exist.

**SECTION D. Source Level Requirements**

Source ID: P101

Source Name: NATURAL GAS-FIRED COMPRESSOR ENGINE (K1104)

Source Capacity/Throughput:



**I. RESTRICTIONS.**

**Emission Restriction(s).**

**# 001 [25 Pa. Code §123.13]**

**Processes**

The concentration of particulate matter in the exhaust of ID C101 associated with Source ID P101 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

**# 002 [25 Pa. Code §123.21]**

**General**

The concentration of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), in the exhaust from ID C101 associated with Source ID P101 shall not exceed 500 parts per million, by volume, dry basis.

**# 003 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Compliance with these emissions restrictions ensures compliance with 40 CFR Section 60.4233(e).]

The permittee shall not permit the following air contaminant emissions from ID C101 associated with Source ID P101 in excess of the limitations listed below:

- (a) nitrogen oxides (NO<sub>x</sub>, expressed as NO<sub>2</sub>) - 0.55 grams per brake horsepower-hour, 1.67 pounds per hour and 7.33 tons in any 12 consecutive month period,
- (b) carbon monoxide (CO) - 0.255 grams per brake horsepower-hour, 0.78 pounds per hour and 3.40 tons in any 12 consecutive month period,
- (c) total combined volatile organic compounds (excluding formaldehyde) (VOC) - 0.252 grams per brake horsepower-hour, 0.77 pounds per hour and 3.36 tons in any 12 consecutive month period,
- (d) formaldehyde - 0.045 grams per brake horsepower-hour, 0.14 pounds per hour and 0.60 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 derived from the General Plan Approval and/or General Operating Permit (BAQ-GPA/GP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

Visible emissions from the exhaust of each oxidation catalyst incorporated in Control Device C101 associated with each engine incorporated in Source ID P101 shall not equal or exceed 10% for a period or periods aggregating more than three minutes in any one hour and not equal or exceed 30% at any time.

**# 005 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

At engine operating conditions less than rated capacity, Source ID P101 shall, on a pounds-per-hour basis, emit no more

**SECTION D. Source Level Requirements**

than they emit at rated bhp and rated speed.

**Fuel Restriction(s).**

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall only use natural gas as fuel in the engine associated with Source ID P101.

**II. TESTING REQUIREMENTS.**

**# 007 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

- (a) At least sixty (60) days prior to the performance of the stack testing required by this operating permit, a test plan shall be submitted to the Department for evaluation. The plan shall contain a description of the proposed test methods and dimensioned drawings or sketches showing the test port locations.
- (b) The Department shall be given at least fourteen (14) days advance notice of the scheduled dates for the performance of the stack testing required by this operating permit.
- (c) Within sixty (60) days of the completion of the stack tests required by this operating permit, two copies of the test report shall be submitted to the Department. This report shall contain the results of the tests, a description of the testing and analytical procedures actually used in performance of the tests, all process and operating data collected during the tests, a copy of all raw data, and a copy of all calculations generated during data analysis.

**# 008 [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?**

The permittee must conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter on Source ID P101 to demonstrate compliance with the applicable emission standards in 40 CFR Subpart JJJJ.

**III. MONITORING REQUIREMENTS.**

**# 009 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from the General Plan Approval and/or General Operating Permit (BAQ-GP/AGP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

Every 2,500 hours of operation and no sooner than forty-five (45) calendar days from the previous test, the owner or operator shall perform periodic monitoring for NO<sub>x</sub> and CO emissions to verify continued compliance of Source ID P101. A Department-approved test that has been performed within 45 calendar days prior to the scheduled periodic monitoring may be used in lieu of the periodic monitoring for that time period. A portable gas analyzer may be used to satisfy the requirements of this condition utilizing three test runs of twenty (20) minutes for each test run. The Department may alter the frequency of portable analyzer tests based on the test results. The frequency of portable gas analyzer tests may be altered only with DEP's prior written approval. The portable gas analyzer shall be used and maintained according to the manufacturer's specifications and the procedures specified in ASTM D6522 or equivalent procedures, as approved by the Department.

Within thirty (30) calendar days after the completion of periodic monitoring, the owner or operator shall submit the results to the appropriate DEP Regional Office. The Department reserves the right to require source tests in accordance with EPA reference methods should the data from the portable analyzer warrant such tests.

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

(a) The permittee shall keep comprehensive and accurate records of the following information:

- (1) The date the engine associated with Source ID P101 commences operation.
- (2) The number of hours the engine associated with Source ID P101 operates each calendar year.
- (3) The amount of fuel used in the engine associated with Source ID P101 each calendar year.
- (4) The supporting calculations on a monthly basis used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations for the engine associated with Source ID P101 in any 12 consecutive month period.
- (5) The test reports which shall include a description of the testing methods, testing results used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations for each engine associated with Source IDs P101 through P112, all engine operating data collected during the tests, and a copy of the report demonstrating that each engine was operating at rated bhp and rated speed conditions during performance testing.

(b) All records generated pursuant to this condition shall be kept for a minimum of five (5) years 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?**

In accordance with 40 CFR Section 60.4245(a), the permittee shall keep records of the following:

- (a) All notifications submitted to comply with this subpart and all documentation supporting any notification.
- (b) Maintenance conducted on the engine.
- (c) Documentation that the engine meets the emission standards.

These records shall be maintained for at least five years and made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.****# 012 [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?**

In accordance with 40 CFR 60.4243(b)(2)(ii), the permittee shall operate Source ID P101 in a manner consistent with good air pollution control practice for minimizing emissions.

In accordance with 40 CFR 60.4243(b)(2)(ii), the permittee shall maintain and implement a maintenance plan for Source ID P101.



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

(a) Source ID P101 is a Caterpillar Model G3516B, four (4) stroke ultra-lean burn reciprocating internal combustion engine, rated at 1380 brake-horsepower, and designated by the permittee as Engine K-1104.

(b) ID C101 is the Miratech oxidation catalyst, model IQ-26-12-EH1 equipped on Engine K-1104.

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

The carbon monoxide, volatile organic compounds, and formaldehyde emissions from Source ID P101 shall be controlled by ID C101. The permittee shall not operate the engine associated with Source ID P101 without the simultaneous operation of the oxidation catalyst associated with ID C101.

**# 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 ID P101 is subject to the requirements of 40 CFR Part 60 Subpart JJJJ, Sections 60.4230 through 60.4248. The permittee shall comply with all applicable requirements specified in 40 CFR Part 60 Subpart JJJJ Sections 60.4230 through 60.4248.

**# 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 ID P101 is subject to the requirements of 40 CFR Part 63 Subpart ZZZZ, Sections 63.6580 through 63.6675. The permittee shall comply with all applicable requirements specified in 40 CFR Part 63 Subpart ZZZZ Sections 63.6580 through 63.6675.

**SECTION D. Source Level Requirements**

Source ID: P102

Source Name: NATURAL GAS-FIRED COMPRESSOR ENGINE (K1204)

Source Capacity/Throughput:



**I. RESTRICTIONS.**

**Emission Restriction(s).**

**# 001 [25 Pa. Code §123.13]**

**Processes**

The concentration of particulate matter in the exhaust of ID C102 associated with Source ID P102 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

**# 002 [25 Pa. Code §123.21]**

**General**

The concentration of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), in the exhaust from ID C102 associated with Source ID P102 shall not exceed 500 parts per million, by volume, dry basis.

**# 003 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Compliance with these emissions restrictions ensures compliance with 40 CFR Section 60.4233(e).]

The permittee shall not permit the following air contaminant emissions from ID C102 associated with Source ID P102 in excess of the limitations listed below:

- (a) nitrogen oxides (NO<sub>x</sub>, expressed as NO<sub>2</sub>) - 0.55 grams per brake horsepower-hour, 1.67 pounds per hour and 7.33 tons in any 12 consecutive month period,
- (b) carbon monoxide (CO) - 0.255 grams per brake horsepower-hour, 0.78 pounds per hour and 3.40 tons in any 12 consecutive month period,
- (c) total combined volatile organic compounds (excluding formaldehyde) (VOC) - 0.252 grams per brake horsepower-hour, 0.77 pounds per hour and 3.36 tons in any 12 consecutive month period,
- (d) formaldehyde - 0.045 grams per brake horsepower-hour, 0.14 pounds per hour and 0.60 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 derived from the General Plan Approval and/or General Operating Permit (BAQ-GPA/GP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

Visible emissions from the exhaust of each oxidation catalyst incorporated in Control Device C102 associated with each engine incorporated in Source ID P102 shall not equal or exceed 10% for a period or periods aggregating more than three minutes in any one hour and not equal or exceed 30% at any time.

**# 005 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

At engine operating conditions less than rated capacity, Source ID P102 shall, on a pounds-per-hour basis, emit no more

**SECTION D. Source Level Requirements**

than they emit at rated bhp and rated speed.

**Fuel Restriction(s).**

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall only use natural gas as fuel in the engine associated with Source ID P102.

**II. TESTING REQUIREMENTS.**

**# 007 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

- (a) At least sixty (60) days prior to the performance of the stack testing required by this operating permit, a test plan shall be submitted to the Department for evaluation. The plan shall contain a description of the proposed test methods and dimensioned drawings or sketches showing the test port locations.
- (b) The Department shall be given at least fourteen (14) days advance notice of the scheduled dates for the performance of the stack testing required by this operating permit.
- (c) Within sixty (60) days of the completion of the stack tests required by this operating permit, two copies of the test report shall be submitted to the Department. This report shall contain the results of the tests, a description of the testing and analytical procedures actually used in performance of the tests, all process and operating data collected during the tests, a copy of all raw data, and a copy of all calculations generated during data analysis.

**# 008 [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?**

The permittee must conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter on Source ID P102 to demonstrate compliance with the applicable emission standards in 40 CFR Subpart JJJJ.

**III. MONITORING REQUIREMENTS.**

**# 009 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from the General Plan Approval and/or General Operating Permit (BAQ-GP/AGP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

Every 2,500 hours of operation and no sooner than forty-five (45) calendar days from the previous test, the owner or operator shall perform periodic monitoring for NO<sub>x</sub> and CO emissions to verify continued compliance of Source ID P102. A Department-approved test that has been performed within 45 calendar days prior to the scheduled periodic monitoring may be used in lieu of the periodic monitoring for that time period. A portable gas analyzer may be used to satisfy the requirements of this condition utilizing three test runs of twenty (20) minutes for each test run. The Department may alter the frequency of portable analyzer tests based on the test results. The frequency of portable gas analyzer tests may be altered only with DEP's prior written approval. The portable gas analyzer shall be used and maintained according to the manufacturer's specifications and the procedures specified in ASTM D6522 or equivalent procedures, as approved by the Department.

Within thirty (30) calendar days after the completion of periodic monitoring, the owner or operator shall submit the results to the appropriate DEP Regional Office. The Department reserves the right to require source tests in accordance with EPA reference methods should the data from the portable analyzer warrant such tests.

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

(a) The permittee shall keep comprehensive and accurate records of the following information:

- (1) The date the engine associated with Source ID P102 commenced operation.
- (2) The number of hours the engine associated with Source ID P102 operates each calendar year.
- (3) The amount of fuel used in the engine associated with Source ID P102 each calendar year.
- (4) The supporting calculations on a monthly basis used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations for the engine associated with Source ID P102 in any 12 consecutive month period.
- (5) The test reports which shall include a description of the testing methods, testing results used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations for the engine associated with Source ID P102, all engine operating data collected during the tests, and a copy of the report demonstrating that the engine was operating at rated bhp and rated speed conditions during performance testing.

(b) All records generated pursuant to this condition shall be kept for a minimum of five (5) years 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?**

In accordance with 40 CFR Section 60.4245(a), the permittee shall keep records of the following:

- (a) All notifications submitted to comply with this subpart and all documentation supporting any notification.
- (b) Maintenance conducted on the engine.
- (c) Documentation that the engine meets the emission standards.

These records shall be maintained for at least five years and made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.****# 012 [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?**

In accordance with 40 CFR 60.4243(b)(2)(ii), the permittee shall operate Source ID P102 in a manner consistent with good air pollution control practice for minimizing emissions.

In accordance with 40 CFR 60.4243(b)(2)(ii), the permittee shall maintain and implement a maintenance plan for Source ID P102.

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

(a) Source ID P102 is a Caterpillar Model G3516B, four (4) stroke ultra-lean burn reciprocating internal combustion engine, rated at 1380 brake-horsepower, and designated by the permittee as Engine K-1204.

(b) ID C102 is the Miratech oxidation catalyst, model IQ-26-12-EH1 equipped on Engine K-1204.

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

The carbon monoxide, volatile organic compounds, and formaldehyde emissions from Source ID P102 shall be controlled by ID C102. The permittee shall not operate the engine associated with Source ID P102 without the simultaneous operation of the oxidation catalyst associated with ID C102.

**# 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 ID P102 is subject to the requirements of 40 CFR Part 60 Subpart JJJJ, Sections 60.4230 through 60.4248. The permittee shall comply with all applicable requirements specified in 40 CFR Part 60 Subpart JJJJ Sections 60.4230 through 60.4248.

**# 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 ID P102 is subject to the requirements of 40 CFR Part 63 Subpart ZZZZ, Sections 63.6580 through 63.6675. The permittee shall comply with all applicable requirements specified in 40 CFR Part 63 Subpart ZZZZ Sections 63.6580 through 63.6675.

**SECTION D. Source Level Requirements**

Source ID: P103

Source Name: NATURAL GAS-FIRED COMPRESSOR ENGINE (K1304)

Source Capacity/Throughput:



**I. RESTRICTIONS.**

**Emission Restriction(s).**

**# 001 [25 Pa. Code §123.13]**

**Processes**

The concentration of particulate matter in the exhaust of ID C103 associated with Source ID P103 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

**# 002 [25 Pa. Code §123.21]**

**General**

The concentration of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), in the exhaust from ID C103 associated with Source ID P103 shall not exceed 500 parts per million, by volume, dry basis.

**# 003 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Compliance with these emissions restrictions ensures compliance with 40 CFR Section 60.4233(e).]

The permittee shall not permit the following air contaminant emissions from ID C103 associated with Source ID P103 in excess of the limitations listed below:

- (a) nitrogen oxides (NO<sub>x</sub>, expressed as NO<sub>2</sub>) - 0.55 grams per brake horsepower-hour, 1.67 pounds per hour and 7.33 tons in any 12 consecutive month period,
- (b) carbon monoxide (CO) - 0.255 grams per brake horsepower-hour, 0.78 pounds per hour and 3.40 tons in any 12 consecutive month period,
- (c) total combined volatile organic compounds (excluding formaldehyde) (VOC) - 0.252 grams per brake horsepower-hour, 0.77 pounds per hour and 3.36 tons in any 12 consecutive month period,
- (d) formaldehyde - 0.045 grams per brake horsepower-hour, 0.14 pounds per hour and 0.60 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 derived from the General Plan Approval and/or General Operating Permit (BAQ-GPA/GP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

Visible emissions from the exhaust of each oxidation catalyst incorporated in Control Device C103 associated with each engine incorporated in Source ID P103 shall not equal or exceed 10% for a period or periods aggregating more than three minutes in any one hour and not equal or exceed 30% at any time.

**# 005 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

At engine operating conditions less than rated capacity, Source ID P103 shall, on a pounds-per-hour basis, emit no more

**SECTION D. Source Level Requirements**

than they emit at rated bhp and rated speed.

**Fuel Restriction(s).**

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall only use natural gas as fuel in the engine associated with Source ID P103.

**II. TESTING REQUIREMENTS.**

**# 007 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

- (a) At least sixty (60) days prior to the performance of the stack testing required by this operating permit, a test plan shall be submitted to the Department for evaluation. The plan shall contain a description of the proposed test methods and dimensioned drawings or sketches showing the test port locations.
- (b) The Department shall be given at least fourteen (14) days advance notice of the scheduled dates for the performance of the stack testing required by this operating permit.
- (c) Within sixty (60) days of the completion of the stack tests required by this operating permit, two copies of the test report shall be submitted to the Department. This report shall contain the results of the tests, a description of the testing and analytical procedures actually used in performance of the tests, all process and operating data collected during the tests, a copy of all raw data, and a copy of all calculations generated during data analysis.

**# 008 [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?**

The permittee must conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter on Source ID P103 to demonstrate compliance with the applicable emission standards in 40 CFR Subpart JJJJ.

**III. MONITORING REQUIREMENTS.**

**# 009 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from the General Plan Approval and/or General Operating Permit (BAQ-GP/AGP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

Every 2,500 hours of operation and no sooner than forty-five (45) calendar days from the previous test, the owner or operator shall perform periodic monitoring for NO<sub>x</sub> and CO emissions to verify continued compliance of Source ID P103. A Department-approved test that has been performed within 45 calendar days prior to the scheduled periodic monitoring may be used in lieu of the periodic monitoring for that time period. A portable gas analyzer may be used to satisfy the requirements of this condition utilizing three test runs of twenty (20) minutes for each test run. The Department may alter the frequency of portable analyzer tests based on the test results. The frequency of portable gas analyzer tests may be altered only with DEP's prior written approval. The portable gas analyzer shall be used and maintained according to the manufacturer's specifications and the procedures specified in ASTM D6522 or equivalent procedures, as approved by the Department.

Within thirty (30) calendar days after the completion of periodic monitoring, the owner or operator shall submit the results to the appropriate DEP Regional Office. The Department reserves the right to require source tests in accordance with EPA reference methods should the data from the portable analyzer warrant such tests.

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

(a) The permittee shall keep comprehensive and accurate records of the following information:

- (1) The date the engine associated with Source ID P103 commences operation.
- (2) The number of hours the engine associated with Source ID P103 operates each calendar year.
- (3) The amount of fuel used in the engine associated with Source ID P103 each calendar year.
- (4) The supporting calculations on a monthly basis used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations for the engine associated with Source ID P103 in any 12 consecutive month period.
- (5) The test reports which shall include a description of the testing methods, testing results used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations for the engine associated with Source ID P103, all engine operating data collected during the tests, and a copy of the report demonstrating that each engine was operating at rated bhp and rated speed conditions during performance testing.

(b) All records generated pursuant to this condition shall be kept for a minimum of five (5) years 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?**

In accordance with 40 CFR Section 60.4245(a), the permittee shall keep records of the following:

- (a) All notifications submitted to comply with this subpart and all documentation supporting any notification.
- (b) Maintenance conducted on the engine.
- (c) Documentation that the engine meets the emission standards.

These records shall be maintained for at least five years and made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.****# 012 [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?**

In accordance with 40 CFR 60.4243(b)(2)(ii), the permittee shall operate Source ID P103 in a manner consistent with good air pollution control practice for minimizing emissions.

In accordance with 40 CFR 60.4243(b)(2)(ii), the permittee shall maintain and implement a maintenance plan for Source ID P103.



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

(a) Source ID P103 is a Caterpillar Model G3516B, four (4) stroke ultra-lean burn reciprocating internal combustion engine, rated at 1380 brake-horsepower, and designated by the permittee as Engine K-1304.

(b) ID C103 is the Miratech oxidation catalyst, model IQ-26-12-EH1 equipped on Engine K-1304.

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

The carbon monoxide, volatile organic compounds, and formaldehyde emissions from Source ID P103 shall be controlled by ID C103. The permittee shall not operate the engine associated with Source ID P103 without the simultaneous operation of the oxidation catalyst associated with ID C103.

**# 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 ID P103 is subject to the requirements of 40 CFR Part 60 Subpart JJJJ, Sections 60.4230 through 60.4248. The permittee shall comply with all applicable requirements specified in 40 CFR Part 60 Subpart JJJJ Sections 60.4230 through 60.4248.

**# 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 ID P103 is subject to the requirements of 40 CFR Part 63 Subpart ZZZZ, Sections 63.6580 through 63.6675. The permittee shall comply with all applicable requirements specified in 40 CFR Part 63 Subpart ZZZZ Sections 63.6580 through 63.6675.

**SECTION D. Source Level Requirements**

Source ID: P104

Source Name: NATURAL GAS-FIRED COMPRESSOR ENGINE (K1404)

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §123.13]

**Processes**

The concentration of particulate matter in the exhaust of ID C104 associated with Source ID P104 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

# 002 [25 Pa. Code §123.21]

**General**

The concentration of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), in the exhaust from ID C104 associated with Source ID P104 shall not exceed 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 derived from the General Plan Approval and/or General Operating Permit (BAQ-GPA/GP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

Visible emissions from the exhaust of each oxidation catalyst incorporated in Control Device C104 associated with each engine incorporated in Source ID P104 shall not equal or exceed 10% for a period or periods aggregating more than three minutes in any one hour and not equal or exceed 30% at any time.

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

At engine operating conditions less than rated capacity, Source ID P104 shall, on a pounds-per-hour basis, emit no more than they emit at rated bhp and rated speed.

# 005 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

[Compliance with these emissions restrictions ensures compliance with 40 CFR Section 60.4233(e).]

The permittee shall not permit the following air contaminant emissions from ID C104 associated with Source ID P104 in excess of the limitations listed below:

(a) nitrogen oxides (NO<sub>x</sub>, expressed as NO<sub>2</sub>) - 0.55 grams per brake horsepower-hour, 1.67 pounds per hour and 7.33 tons in any 12 consecutive month period,

(b) carbon monoxide (CO) - 0.255 grams per brake horsepower-hour, 0.78 pounds per hour and 3.40 tons in any 12 consecutive month period,

(c) total combined volatile organic compounds (excluding formaldehyde) (VOC) - 0.252 grams per brake horsepower-hour, 0.77 pounds per hour and 3.36 tons in any 12 consecutive month period,

(d) formaldehyde - 0.045 grams per brake horsepower-hour, 0.14 pounds per hour and 0.60 tons in any 12 consecutive

**SECTION D. Source Level Requirements**

month period.

**Fuel Restriction(s).**

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall only use natural gas as fuel in the engine associated with Source ID P104.

**II. TESTING REQUIREMENTS.**

**# 007 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

(a) At least sixty (60) days prior to the performance of the stack testing required by this operating permit, a test plan shall be submitted to the Department for evaluation. The plan shall contain a description of the proposed test methods and dimensioned drawings or sketches showing the test port locations.

(b) The Department shall be given at least fourteen (14) days advance notice of the scheduled dates for the performance of the stack testing required by this operating permit.

(c) Within sixty (60) days of the completion of the stack tests required by this operating permit, two copies of the test report shall be submitted to the Department. This report shall contain the results of the tests, a description of the testing and analytical procedures actually used in performance of the tests, all process and operating data collected during the tests, a copy of all raw data, and a copy of all calculations generated during data analysis.

**# 008 [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?**

The permittee must conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter on Source ID P104 to demonstrate compliance with the applicable emission standards in 40 CFR Subpart JJJJ.

**III. MONITORING REQUIREMENTS.**

**# 009 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from the General Plan Approval and/or General Operating Permit (BAQ-GP/AGP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

Every 2,500 hours of operation and no sooner than forty-five (45) calendar days from the previous test, the owner or operator shall perform periodic monitoring for NO<sub>x</sub> and CO emissions to verify continued compliance of Source ID P104. A Department-approved test that has been performed within 45 calendar days prior to the scheduled periodic monitoring may be used in lieu of the periodic monitoring for that time period. A portable gas analyzer may be used to satisfy the requirements of this condition utilizing three test runs of twenty (20) minutes for each test run. The Department may alter the frequency of portable analyzer tests based on the test results. The frequency of portable gas analyzer tests may be altered only with DEP's prior written approval. The portable gas analyzer shall be used and maintained according to the manufacturer's specifications and the procedures specified in ASTM D6522 or equivalent procedures, as approved by the Department.

Within thirty (30) calendar days after the completion of periodic monitoring, the owner or operator shall submit the results to the appropriate DEP Regional Office. The Department reserves the right to require source tests in accordance with EPA reference methods should the data from the portable analyzer warrant such tests.

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

(a) The permittee shall keep comprehensive and accurate records of the following information:

- (1) The date the engine associated with Source ID P104 commences operation.
- (2) The number of hours the engine associated with Source ID P104 operates each calendar year.
- (3) The amount of fuel used in the engine associated with Source ID P104 each calendar year.
- (4) The supporting calculations on a monthly basis used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations for the engine associated with Source ID P104 in any 12 consecutive month period.
- (5) The test reports which shall include a description of the testing methods, testing results used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations for the engine associated with Source ID P104, all engine operating data collected during the tests, and a copy of the report demonstrating that each engine was operating at rated bhp and rated speed conditions during performance testing.

(b) All records generated pursuant to this condition shall be kept for a minimum of five (5) years 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?**

In accordance with 40 CFR Section 60.4245(a), the permittee shall keep records of the following:

- (a) All notifications submitted to comply with this subpart and all documentation supporting any notification.
- (b) Maintenance conducted on the engine.
- (c) Documentation that the engine meets the emission standards.

These records shall be maintained for at least five years and made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.****# 012 [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?**

In accordance with 40 CFR 60.4243(b)(2)(ii), the permittee shall operate Source ID P104 in a manner consistent with good air pollution control practice for minimizing emissions.

In accordance with 40 CFR 60.4243(b)(2)(ii), the permittee shall maintain and implement a maintenance plan for Source ID P104.

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

(a) Source ID P104 is a Caterpillar Model G3516B, four (4) stroke ultra-lean burn reciprocating internal combustion engine, rated at 1380 brake-horsepower, and designated by the permittee as Engine K-1404.

(b) ID C104 is the Miratech oxidation catalyst, model IQ-26-12-EH1 equipped on Engine K-1404.

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

The carbon monoxide, volatile organic compounds, and formaldehyde emissions from Source ID P104 shall be controlled by ID C104. The permittee shall not operate the engine associated with Source ID P104 without the simultaneous operation of the oxidation catalyst associated with ID C104.

**# 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 ID P104 is subject to the requirements of 40 CFR Part 60 Subpart JJJJ, Sections 60.4230 through 60.4248. The permittee shall comply with all applicable requirements specified in 40 CFR Part 60 Subpart JJJJ Sections 60.4230 through 60.4248.

**# 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 ID P104 is subject to the requirements of 40 CFR Part 63 Subpart ZZZZ, Sections 63.6580 through 63.6675. The permittee shall comply with all applicable requirements specified in 40 CFR Part 63 Subpart ZZZZ Sections 63.6580 through 63.6675.

**SECTION D. Source Level Requirements**

Source ID: P105

Source Name: NATURAL GAS-FIRED COMPRESSOR ENGINE (K1504)

Source Capacity/Throughput:



**I. RESTRICTIONS.**

**Emission Restriction(s).**

**# 001 [25 Pa. Code §123.13]**

**Processes**

The concentration of particulate matter in the exhaust of ID C105 associated with Source ID P105 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

**# 002 [25 Pa. Code §123.21]**

**General**

The concentration of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), in the exhaust from ID C105 associated with Source ID P105 shall not exceed 500 parts per million, by volume, dry basis.

**# 003 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Compliance with these emissions restrictions ensures compliance with 40 CFR Section 60.4233(e).]

The permittee shall not permit the following air contaminant emissions from ID C105 associated with Source ID P105 in excess of the limitations listed below:

- (a) nitrogen oxides (NO<sub>x</sub>, expressed as NO<sub>2</sub>) - 0.55 grams per brake horsepower-hour, 1.67 pounds per hour and 7.33 tons in any 12 consecutive month period,
- (b) carbon monoxide (CO) - 0.255 grams per brake horsepower-hour, 0.78 pounds per hour and 3.40 tons in any 12 consecutive month period,
- (c) total combined volatile organic compounds (excluding formaldehyde) (VOC) - 0.252 grams per brake horsepower-hour, 0.77 pounds per hour and 3.36 tons in any 12 consecutive month period,
- (d) formaldehyde - 0.045 grams per brake horsepower-hour, 0.14 pounds per hour and 0.60 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 derived from the General Plan Approval and/or General Operating Permit (BAQ-GPA/GP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

Visible emissions from the exhaust of each oxidation catalyst incorporated in Control Device C105 associated with each engine incorporated in Source ID P105 shall not equal or exceed 10% for a period or periods aggregating more than three minutes in any one hour and not equal or exceed 30% at any time.

**# 005 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

At engine operating conditions less than rated capacity, Source ID P105 shall, on a pounds-per-hour basis, emit no more

**SECTION D. Source Level Requirements**

than they emit at rated bhp and rated speed.

**Fuel Restriction(s).**

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall only use natural gas as fuel in the engine associated with Source ID P105.

**II. TESTING REQUIREMENTS.**

**# 007 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

- (a) At least sixty (60) days prior to the performance of the stack testing required by this operating permit, a test plan shall be submitted to the Department for evaluation. The plan shall contain a description of the proposed test methods and dimensioned drawings or sketches showing the test port locations.
- (b) The Department shall be given at least fourteen (14) days advance notice of the scheduled dates for the performance of the stack testing required by this operating permit.
- (c) Within sixty (60) days of the completion of the stack tests required by this operating permit, two copies of the test report shall be submitted to the Department. This report shall contain the results of the tests, a description of the testing and analytical procedures actually used in performance of the tests, all process and operating data collected during the tests, a copy of all raw data, and a copy of all calculations generated during data analysis.

**# 008 [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?**

The permittee must conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter on Source ID P105 to demonstrate compliance with the applicable emission standards in 40 CFR Subpart JJJJ.

**III. MONITORING REQUIREMENTS.**

**# 009 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from the General Plan Approval and/or General Operating Permit (BAQ-GP/AGP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

Every 2,500 hours of operation and no sooner than forty-five (45) calendar days from the previous test, the owner or operator shall perform periodic monitoring for NO<sub>x</sub> and CO emissions to verify continued compliance of Source ID P105. A Department-approved test that has been performed within 45 calendar days prior to the scheduled periodic monitoring may be used in lieu of the periodic monitoring for that time period. A portable gas analyzer may be used to satisfy the requirements of this condition utilizing three test runs of twenty (20) minutes for each test run. The Department may alter the frequency of portable analyzer tests based on the test results. The frequency of portable gas analyzer tests may be altered only with DEP's prior written approval. The portable gas analyzer shall be used and maintained according to the manufacturer's specifications and the procedures specified in ASTM D6522 or equivalent procedures, as approved by the Department.

Within thirty (30) calendar days after the completion of periodic monitoring, the owner or operator shall submit the results to the appropriate DEP Regional Office. The Department reserves the right to require source tests in accordance with EPA reference methods should the data from the portable analyzer warrant such tests.

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

(a) The permittee shall keep comprehensive and accurate records of the following information:

- (1) The date the engine associated with Source ID P105 commences operation.
- (2) The number of hours the engine associated with Source ID P105 operates each calendar year.
- (3) The amount of fuel used in the engine associated with Source ID P105 each calendar year.
- (4) The supporting calculations on a monthly basis used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations for the engine associated with Source ID P105 in any 12 consecutive month period.
- (5) The test reports which shall include a description of the testing methods, testing results used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations for the engine associated with Source ID P105, all engine operating data collected during the tests, and a copy of the report demonstrating that each engine was operating at rated bhp and rated speed conditions during performance testing.

(b) All records generated pursuant to this condition shall be kept for a minimum of five (5) years 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?**

In accordance with 40 CFR Section 60.4245(a), the permittee shall keep records of the following:

- (a) All notifications submitted to comply with this subpart and all documentation supporting any notification.
- (b) Maintenance conducted on the engine.
- (c) Documentation that the engine meets the emission standards.

These records shall be maintained for at least five years and made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.****# 012 [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?**

In accordance with 40 CFR 60.4243(b)(2)(ii), the permittee shall operate Source ID P105 in a manner consistent with good air pollution control practice for minimizing emissions.

In accordance with 40 CFR 60.4243(b)(2)(ii), the permittee shall maintain and implement a maintenance plan for Source ID P105.



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

(a) Source ID P105 is a Caterpillar Model G3516B, four (4) stroke ultra-lean burn reciprocating internal combustion engine, rated at 1380 brake-horsepower, and designated by the permittee as Engine K-1504.

(b) ID C105 is the Miratech oxidation catalyst, model IQ-26-12-EH1 equipped on Engine K-1504.

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

The carbon monoxide, volatile organic compounds, and formaldehyde emissions from Source ID P105 shall be controlled by ID C105. The permittee shall not operate the engine associated with Source ID P105 without the simultaneous operation of the oxidation catalyst associated with ID C105.

**# 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 ID P105 is subject to the requirements of 40 CFR Part 60 Subpart JJJJ, Sections 60.4230 through 60.4248. The permittee shall comply with all applicable requirements specified in 40 CFR Part 60 Subpart JJJJ Sections 60.4230 through 60.4248.

**# 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 ID P105 is subject to the requirements of 40 CFR Part 63 Subpart ZZZZ, Sections 63.6580 through 63.6675. The permittee shall comply with all applicable requirements specified in 40 CFR Part 63 Subpart ZZZZ Sections 63.6580 through 63.6675.

**SECTION D. Source Level Requirements**

Source ID: P106

Source Name: NATURAL GAS-FIRED COMPRESSOR ENGINE (K1604)

Source Capacity/Throughput:



**I. RESTRICTIONS.**

**Emission Restriction(s).**

**# 001 [25 Pa. Code §123.13]**

**Processes**

The concentration of particulate matter in the exhaust of ID C106 associated with Source ID P106 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

**# 002 [25 Pa. Code §123.21]**

**General**

The concentration of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), in the exhaust from ID C106 associated with Source ID P106 shall not exceed 500 parts per million, by volume, dry basis.

**# 003 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Compliance with these emissions restrictions ensures compliance with 40 CFR Section 60.4233(e).]

The permittee shall not permit the following air contaminant emissions from ID C106 associated with Source ID P106 in excess of the limitations listed below:

- (a) nitrogen oxides (NO<sub>x</sub>, expressed as NO<sub>2</sub>) - 0.5 grams per brake horsepower-hour, 1.52 pounds per hour and 6.66 tons in any 12 consecutive month period,
- (b) carbon monoxide (CO) - 0.42 grams per brake horsepower-hour, 1.28 pounds per hour and 5.60 tons in any 12 consecutive month period,
- (c) total combined volatile organic compounds (excluding formaldehyde) (VOC) - 0.24 grams per brake horsepower-hour, 0.73 pounds per hour and 3.20 tons in any 12 consecutive month period,
- (d) formaldehyde - 0.04 grams per brake horsepower-hour, 0.12 pounds per hour and 0.53 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 derived from the General Plan Approval and/or General Operating Permit (BAQ-GPA/GP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

Visible emissions from the exhaust of each oxidation catalyst incorporated in Control Device C106 associated with each engine incorporated in Source ID P106 shall not equal or exceed 10% for a period or periods aggregating more than three minutes in any one hour and not equal or exceed 30% at any time.

**# 005 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

At engine operating conditions less than rated capacity, Source ID P106 shall, on a pounds-per-hour basis, emit no more

**SECTION D. Source Level Requirements**

than they emit at rated bhp and rated speed.

**Fuel Restriction(s).**

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall only use natural gas as fuel in the engine associated with Source ID P106.

**II. TESTING REQUIREMENTS.**

**# 007 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from the General Plan Approval and/or General Operating Permit (BAQ-GPA/GP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

The permittee shall perform nitrogen oxide (NO<sub>x</sub>, expressed as NO<sub>2</sub>), carbon monoxide, volatile organic compound and formaldehyde stack tests upon Source ID P106 by no later than April 1, 2020 to demonstrate compliance with the emission limitations for NO<sub>x</sub>, carbon monoxide, volatile organic compounds, and formaldehyde of the oxidation catalyst incorporated in ID C106 associated with Source ID P106.

(a) The performance test shall consist of three (3) separate test runs and each run shall last at least one (1) hour in duration.

(b) All testing is to be done using EPA reference method test procedures acceptable to the Department and all testing is to be performed while each engine incorporated in Source ID P106 is operating at +/- 10% of full load.

**# 008 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

(a) At least sixty (60) days prior to the performance of the stack testing required by this operating permit, a test plan shall be submitted to the Department for evaluation. The plan shall contain a description of the proposed test methods and dimensioned drawings or sketches showing the test port locations.

(b) The Department shall be given at least fourteen (14) days advance notice of the scheduled dates for the performance of the stack testing required by this operating permit.

(c) Within sixty (60) days of the completion of the stack tests required by this operating permit, two copies of the test report shall be submitted to the Department. This report shall contain the results of the tests, a description of the testing and analytical procedures actually used in performance of the tests, all process and operating data collected during the tests, a copy of all raw data, and a copy of all calculations generated during data analysis.

**# 009 [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?**

The permittee must conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter on Source ID P106 to demonstrate compliance with the applicable emission standards in 40 CFR Subpart JJJJ.

**III. MONITORING REQUIREMENTS.**

**# 010 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from the General Plan Approval and/or General Operating Permit (BAQ-GPA/GP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

**SECTION D. Source Level Requirements**

(a) Every 2,500 hours of operation and no sooner than forty-five (45) calendar days from the previous test, the owner or operator shall perform periodic monitoring for NO<sub>x</sub> and CO emissions to verify continued compliance of Source ID P106. A Department-approved test that has been performed within 45 calendar days prior to the scheduled periodic monitoring may be used in lieu of the periodic monitoring for that time period. A portable gas analyzer may be used to satisfy the requirements of this condition utilizing three test runs of twenty (20) minutes for each test run. The Department may alter the frequency of portable analyzer tests based on the test results. The frequency of portable gas analyzer tests may be altered only with DEP's prior written approval. The portable gas analyzer shall be used and maintained according to the manufacturer's specifications and the procedures specified in ASTM D6522 or equivalent procedures, as approved by the Department.

(b) Within thirty (30) calendar days after the completion of periodic monitoring, the owner or operator shall submit the results to the appropriate DEP Regional Office. The Department reserves the right to require source tests in accordance with EPA reference methods should the data from the portable analyzer warrant such tests.

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

(a) The permittee shall keep comprehensive and accurate records of the following information:

- (1) The date the engine associated with Source ID P106 commences operation.
- (2) The number of hours the engine associated with Source ID P106 operates each calendar year.
- (3) The amount of fuel used in the engine associated with Source ID P106 each calendar year.
- (4) The supporting calculations on a monthly basis used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations for the engine associated with Source ID P106 in any 12 consecutive month period.
- (5) The test reports which shall include a description of the testing methods, testing results used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations for the engine associated with Source ID P106, all engine operating data collected during the tests, and a copy of the report demonstrating that each engine was operating at rated bhp and rated speed conditions during performance testing.

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

**# 012 [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?**

In accordance with 40 CFR Section 60.4245(a), the permittee shall keep records of the following:

- (a) All notifications submitted to comply with this subpart and all documentation supporting any notification.
- (b) Maintenance conducted on the engine.
- (c) Documentation that the engine meets the emission standards.

These records shall be maintained for at least five years and made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

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

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

[Additional authority for this permit condition is derived from the General Plan Approval and/or General Operating Permit (BAQ-GPA/GP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

In accordance with 25 Pa. Code §§ 127.1 and 127.12(a)(5), the owner or operator shall install, maintain, and operate Source ID P106 and associated air pollution control equipment in accordance with manufacturer's specifications.

**# 014 [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?**

(a) In accordance with 40 CFR 60.4243(b)(2)(ii), the permittee shall operate Source ID P106 in a manner consistent with good air pollution control practice for minimizing emissions.

(b) In accordance with 40 CFR 60.4243(b)(2)(ii), the permittee shall maintain and implement a maintenance plan for Source ID P106.

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

(a) Source ID P106 is a Caterpillar Model G3516B, four (4) stroke ultra-lean burn reciprocating internal combustion engine, rated at 1380 brake-horsepower, and designated by the permittee as Engine K-1604.

(b) ID C106 is the Miratech oxidation catalyst, model IQ-26-12-EH1 equipped on Engine K-1604.

(c) Source ID P106 was constructed under general plan approval GP5-08-315A, issued May 30, 2014.

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

The carbon monoxide, volatile organic compounds, and formaldehyde emissions from Source ID P106 shall be controlled by ID C106. The permittee shall not operate the engine associated with Source ID P106 without the simultaneous operation of the oxidation catalyst associated with ID C106.

**# 017 [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 ID P106 is subject to the requirements of 40 CFR Part 60 Subpart JJJJ, Sections 60.4230 through 60.4248. The permittee shall comply with all applicable requirements specified in 40 CFR Part 60 Subpart JJJJ Sections 60.4230 through 60.4248.

**# 018 [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 ID P106 is subject to the requirements of 40 CFR Part 63 Subpart ZZZZ, Sections 63.6580 through 63.6675. The permittee shall comply with all applicable requirements specified in 40 CFR Part 63 Subpart ZZZZ Sections 63.6580 through 63.6675.

**SECTION D. Source Level Requirements**

Source ID: P107

Source Name: NATURAL GAS-FIRED COMPRESSOR ENGINE (K2104)

Source Capacity/Throughput:



**I. RESTRICTIONS.**

**Emission Restriction(s).**

**# 001 [25 Pa. Code §123.13]**

**Processes**

The concentration of particulate matter in the exhaust of ID C107 associated with Source ID P107 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

**# 002 [25 Pa. Code §123.21]**

**General**

The concentration of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), in the exhaust from ID C107 associated with Source ID P107 shall not exceed 500 parts per million, by volume, dry basis.

**# 003 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Compliance with these emissions restrictions ensures compliance with 40 CFR Section 60.4233(e).]

The permittee shall not permit the following air contaminant emissions from ID C107 associated with Source ID P107 in excess of the limitations listed below:

- (a) nitrogen oxides (NO<sub>x</sub>, expressed as NO<sub>2</sub>) - 0.55 grams per brake horsepower-hour, 1.67 pounds per hour and 7.33 tons in any 12 consecutive month period,
- (b) carbon monoxide (CO) - 0.255 grams per brake horsepower-hour, 0.78 pounds per hour and 3.40 tons in any 12 consecutive month period,
- (c) total combined volatile organic compounds (excluding formaldehyde) (VOC) - 0.252 grams per brake horsepower-hour, 0.77 pounds per hour and 3.36 tons in any 12 consecutive month period,
- (d) formaldehyde - 0.045 grams per brake horsepower-hour, 0.14 pounds per hour and 0.60 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 derived from the General Plan Approval and/or General Operating Permit (BAQ-GPA/GP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

Visible emissions from the exhaust of each oxidation catalyst incorporated in Control Device C107 associated with each engine incorporated in Source ID P107 shall not equal or exceed 10% for a period or periods aggregating more than three minutes in any one hour and not equal or exceed 30% at any time.

**# 005 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

At engine operating conditions less than rated capacity, Source ID P107 shall, on a pounds-per-hour basis, emit no more

**SECTION D. Source Level Requirements**

than they emit at rated bhp and rated speed.

**Fuel Restriction(s).**

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall only use natural gas as fuel in the engine associated with Source ID P107.

**II. TESTING REQUIREMENTS.**

**# 007 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

(a) At least sixty (60) days prior to the performance of the stack testing required by this operating permit, a test plan shall be submitted to the Department for evaluation. The plan shall contain a description of the proposed test methods and dimensioned drawings or sketches showing the test port locations.

(b) The Department shall be given at least fourteen (14) days advance notice of the scheduled dates for the performance of the stack testing required by this operating permit.

(c) Within sixty (60) days of the completion of the stack tests required by this operating permit, two copies of the test report shall be submitted to the Department. This report shall contain the results of the tests, a description of the testing and analytical procedures actually used in performance of the tests, all process and operating data collected during the tests, a copy of all raw data, and a copy of all calculations generated during data analysis.

**# 008 [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?**

The permittee must conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter on Source ID P107 to demonstrate compliance with the applicable emission standards in 40 CFR Subpart JJJJ.

**III. MONITORING REQUIREMENTS.**

**# 009 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from the General Plan Approval and/or General Operating Permit (BAQ-GP/AGP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

Every 2,500 hours of operation and no sooner than forty-five (45) calendar days from the previous test, the owner or operator shall perform periodic monitoring for NOx and CO emissions to verify continued compliance of Source ID P107. A Department-approved test that has been performed within 45 calendar days prior to the scheduled periodic monitoring may be used in lieu of the periodic monitoring for that time period. A portable gas analyzer may be used to satisfy the requirements of this condition utilizing three test runs of twenty (20) minutes for each test run. The Department may alter the frequency of portable analyzer tests based on the test results. The frequency of portable gas analyzer tests may be altered only with DEP's prior written approval. The portable gas analyzer shall be used and maintained according to the manufacturer's specifications and the procedures specified in ASTM D6522 or equivalent procedures, as approved by the Department.

Within thirty (30) calendar days after the completion of periodic monitoring, the owner or operator shall submit the results to the appropriate DEP Regional Office. The Department reserves the right to require source tests in accordance with EPA reference methods should the data from the portable analyzer warrant such tests.

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

(a) The permittee shall keep comprehensive and accurate records of the following information:

- (1) The date the engine associated with Source ID P107 commences operation.
- (2) The number of hours the engine associated with Source ID P107 operates each calendar year.
- (3) The amount of fuel used in the engine associated with Source ID P107 each calendar year.
- (4) The supporting calculations on a monthly basis used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations for the engine associated with Source ID P107 in any 12 consecutive month period.
- (5) The test reports which shall include a description of the testing methods, testing results used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations for the engine associated with Source ID P107, all engine operating data collected during the tests, and a copy of the report demonstrating that each engine was operating at rated bhp and rated speed conditions during performance testing.

(b) All records generated pursuant to this condition shall be kept for a minimum of five (5) years 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?**

In accordance with 40 CFR Section 60.4245(a), the permittee shall keep records of the following:

- (a) All notifications submitted to comply with this subpart and all documentation supporting any notification.
- (b) Maintenance conducted on the engine.
- (c) Documentation that the engine meets the emission standards.

These records shall be maintained for at least five years and made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.****# 012 [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?**

In accordance with 40 CFR 60.4243(b)(2)(ii), the permittee shall operate Source ID P107 in a manner consistent with good air pollution control practice for minimizing emissions.

In accordance with 40 CFR 60.4243(b)(2)(ii), the permittee shall maintain and implement a maintenance plan for Source ID P107.



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

(a) Source ID P107 is a Caterpillar Model G3516B, four (4) stroke ultra-lean burn reciprocating internal combustion engine, rated at 1380 brake-horsepower, and designated by the permittee as Engine K-2104.

(b) ID C107 is the Miratech oxidation catalyst, model IQ-26-12-EH1 equipped on Engine K-2104.

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

The carbon monoxide, volatile organic compounds, and formaldehyde emissions from Source ID P107 shall be controlled by ID C107. The permittee shall not operate the engine associated with Source ID P107 without the simultaneous operation of the oxidation catalyst associated with ID C107.

**# 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 ID P107 is subject to the requirements of 40 CFR Part 60 Subpart JJJJ, Sections 60.4230 through 60.4248. The permittee shall comply with all applicable requirements specified in 40 CFR Part 60 Subpart JJJJ Sections 60.4230 through 60.4248.

**# 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 ID P107 is subject to the requirements of 40 CFR Part 63 Subpart ZZZZ, Sections 63.6580 through 63.6675. The permittee shall comply with all applicable requirements specified in 40 CFR Part 63 Subpart ZZZZ Sections 63.6580 through 63.6675.

**SECTION D. Source Level Requirements**

Source ID: P108

Source Name: NATURAL GAS-FIRED COMPRESSOR ENGINE (K2204)

Source Capacity/Throughput:



**I. RESTRICTIONS.**

**Emission Restriction(s).**

**# 001 [25 Pa. Code §123.13]**

**Processes**

The concentration of particulate matter in the exhaust of ID C108 associated with Source ID P108 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

**# 002 [25 Pa. Code §123.21]**

**General**

The concentration of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), in the exhaust from ID C108 associated with Source ID P108 shall not exceed 500 parts per million, by volume, dry basis.

**# 003 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Compliance with these emissions restrictions ensures compliance with 40 CFR Section 60.4233(e).]

The permittee shall not permit the following air contaminant emissions from ID C108 associated with Source ID P108 in excess of the limitations listed below:

- (a) nitrogen oxides (NO<sub>x</sub>, expressed as NO<sub>2</sub>) - 0.55 grams per brake horsepower-hour, 1.67 pounds per hour and 7.33 tons in any 12 consecutive month period,
- (b) carbon monoxide (CO) - 0.255 grams per brake horsepower-hour, 0.78 pounds per hour and 3.40 tons in any 12 consecutive month period,
- (c) total combined volatile organic compounds (excluding formaldehyde) (VOC) - 0.252 grams per brake horsepower-hour, 0.77 pounds per hour and 3.36 tons in any 12 consecutive month period,
- (d) formaldehyde - 0.045 grams per brake horsepower-hour, 0.14 pounds per hour and 0.60 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 derived from the General Plan Approval and/or General Operating Permit (BAQ-GPA/GP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

Visible emissions from the exhaust of each oxidation catalyst incorporated in Control Device C108 associated with each engine incorporated in Source ID P108 shall not equal or exceed 10% for a period or periods aggregating more than three minutes in any one hour and not equal or exceed 30% at any time.

**# 005 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

At engine operating conditions less than rated capacity, Source ID P108 shall, on a pounds-per-hour basis, emit no more

**SECTION D. Source Level Requirements**

than they emit at rated bhp and rated speed.

**Fuel Restriction(s).**

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall only use natural gas as fuel in the engine associated with Source ID P108.

**II. TESTING REQUIREMENTS.**

**# 007 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

(a) At least sixty (60) days prior to the performance of the stack testing required by this operating permit, a test plan shall be submitted to the Department for evaluation. The plan shall contain a description of the proposed test methods and dimensioned drawings or sketches showing the test port locations.

(b) The Department shall be given at least fourteen (14) days advance notice of the scheduled dates for the performance of the stack testing required by this operating permit.

(c) Within sixty (60) days of the completion of the stack tests required by this operating permit, two copies of the test report shall be submitted to the Department. This report shall contain the results of the tests, a description of the testing and analytical procedures actually used in performance of the tests, all process and operating data collected during the tests, a copy of all raw data, and a copy of all calculations generated during data analysis.

**# 008 [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?**

The permittee must conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter on Source ID P108 to demonstrate compliance with the applicable emission standards in 40 CFR Subpart JJJJ.

**III. MONITORING REQUIREMENTS.**

**# 009 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from the General Plan Approval and/or General Operating Permit (BAQ-GP/AGP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

Every 2,500 hours of operation and no sooner than forty-five (45) calendar days from the previous test, the owner or operator shall perform periodic monitoring for NOx and CO emissions to verify continued compliance of Source ID P108. A Department-approved test that has been performed within 45 calendar days prior to the scheduled periodic monitoring may be used in lieu of the periodic monitoring for that time period. A portable gas analyzer may be used to satisfy the requirements of this condition utilizing three test runs of twenty (20) minutes for each test run. The Department may alter the frequency of portable analyzer tests based on the test results. The frequency of portable gas analyzer tests may be altered only with DEP's prior written approval. The portable gas analyzer shall be used and maintained according to the manufacturer's specifications and the procedures specified in ASTM D6522 or equivalent procedures, as approved by the Department.

Within thirty (30) calendar days after the completion of periodic monitoring, the owner or operator shall submit the results to the appropriate DEP Regional Office. The Department reserves the right to require source tests in accordance with EPA reference methods should the data from the portable analyzer warrant such tests.

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

(a) The permittee shall keep comprehensive and accurate records of the following information:

- (1) The date the engine associated with Source ID P108 commences operation.
- (2) The number of hours the engine associated with Source ID P108 operates each calendar year.
- (3) The amount of fuel used in the engine associated with Source ID P108 each calendar year.
- (4) The supporting calculations on a monthly basis used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations for the engine associated with Source ID P108 in any 12 consecutive month period.
- (5) The test reports which shall include a description of the testing methods, testing results used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations for the engine associated with Source ID P108, all engine operating data collected during the tests, and a copy of the report demonstrating that each engine was operating at rated bhp and rated speed conditions during performance testing.

(b) All records generated pursuant to this condition shall be kept for a minimum of five (5) years 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?**

In accordance with 40 CFR Section 60.4245(a), the permittee shall keep records of the following:

- (a) All notifications submitted to comply with this subpart and all documentation supporting any notification.
- (b) Maintenance conducted on the engine.
- (c) Documentation that the engine meets the emission standards.

These records shall be maintained for at least five years and made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.****# 012 [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?**

In accordance with 40 CFR 60.4243(b)(2)(ii), the permittee shall operate Source ID P108 in a manner consistent with good air pollution control practice for minimizing emissions.

In accordance with 40 CFR 60.4243(b)(2)(ii), the permittee shall maintain and implement a maintenance plan for Source ID P108.

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

(a) Source ID P108 is a Caterpillar Model G3516B, four (4) stroke ultra-lean burn reciprocating internal combustion engine, rated at 1380 brake-horsepower, and designated by the permittee as Engine K-2204.

(b) ID C108 is the Miratech oxidation catalyst, model IQ-26-12-EH1 equipped on Engine K-2204.

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

The carbon monoxide, volatile organic compounds, and formaldehyde emissions from Source ID P108 shall be controlled by ID C108. The permittee shall not operate the engine associated with Source ID P108 without the simultaneous operation of the oxidation catalyst associated with ID C108.

**# 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 ID P108 is subject to the requirements of 40 CFR Part 60 Subpart JJJJ, Sections 60.4230 through 60.4248. The permittee shall comply with all applicable requirements specified in 40 CFR Part 60 Subpart JJJJ Sections 60.4230 through 60.4248.

**# 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 ID P108 is subject to the requirements of 40 CFR Part 63 Subpart ZZZZ, Sections 63.6580 through 63.6675. The permittee shall comply with all applicable requirements specified in 40 CFR Part 63 Subpart ZZZZ Sections 63.6580 through 63.6675.

**SECTION D. Source Level Requirements**

Source ID: P109

Source Name: NATURAL GAS-FIRED COMPRESSOR ENGINE (K2304)

Source Capacity/Throughput:



**I. RESTRICTIONS.**

**Emission Restriction(s).**

**# 001 [25 Pa. Code §123.13]**

**Processes**

The concentration of particulate matter in the exhaust of ID C109 associated with Source ID P109 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

**# 002 [25 Pa. Code §123.21]**

**General**

The concentration of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), in the exhaust from ID C109 associated with Source ID P109 shall not exceed 500 parts per million, by volume, dry basis.

**# 003 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Compliance with these emissions restrictions ensures compliance with 40 CFR Section 60.4233(e).]

The permittee shall not permit the following air contaminant emissions from ID C109 associated with Source ID P109 in excess of the limitations listed below:

- (a) nitrogen oxides (NO<sub>x</sub>, expressed as NO<sub>2</sub>) - 0.55 grams per brake horsepower-hour, 1.67 pounds per hour and 7.33 tons in any 12 consecutive month period,
- (b) carbon monoxide (CO) - 0.255 grams per brake horsepower-hour, 0.78 pounds per hour and 3.40 tons in any 12 consecutive month period,
- (c) total combined volatile organic compounds (excluding formaldehyde) (VOC) - 0.252 grams per brake horsepower-hour, 0.77 pounds per hour and 3.36 tons in any 12 consecutive month period,
- (d) formaldehyde - 0.045 grams per brake horsepower-hour, 0.14 pounds per hour and 0.60 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 derived from the General Plan Approval and/or General Operating Permit (BAQ-GPA/GP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

Visible emissions from the exhaust of each oxidation catalyst incorporated in Control Device C109 associated with each engine incorporated in Source ID P109 shall not equal or exceed 10% for a period or periods aggregating more than three minutes in any one hour and not equal or exceed 30% at any time.

**# 005 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

At engine operating conditions less than rated capacity, Source ID P109 shall, on a pounds-per-hour basis, emit no more

**SECTION D. Source Level Requirements**

than they emit at rated bhp and rated speed.

**Fuel Restriction(s).**

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall only use natural gas as fuel in the engine associated with Source ID P109.

**II. TESTING REQUIREMENTS.**

**# 007 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

- (a) At least sixty (60) days prior to the performance of the stack testing required by this operating permit, a test plan shall be submitted to the Department for evaluation. The plan shall contain a description of the proposed test methods and dimensioned drawings or sketches showing the test port locations.
- (b) The Department shall be given at least fourteen (14) days advance notice of the scheduled dates for the performance of the stack testing required by this operating permit.
- (c) Within sixty (60) days of the completion of the stack tests required by this operating permit, two copies of the test report shall be submitted to the Department. This report shall contain the results of the tests, a description of the testing and analytical procedures actually used in performance of the tests, all process and operating data collected during the tests, a copy of all raw data, and a copy of all calculations generated during data analysis.

**# 008 [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?**

The permittee must conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter on Source ID P109 to demonstrate compliance with the applicable emission standards in 40 CFR Subpart JJJJ.

**III. MONITORING REQUIREMENTS.**

**# 009 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from the General Plan Approval and/or General Operating Permit (BAQ-GP/AGP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

Every 2,500 hours of operation and no sooner than forty-five (45) calendar days from the previous test, the owner or operator shall perform periodic monitoring for NO<sub>x</sub> and CO emissions to verify continued compliance of Source ID P109. A Department-approved test that has been performed within 45 calendar days prior to the scheduled periodic monitoring may be used in lieu of the periodic monitoring for that time period. A portable gas analyzer may be used to satisfy the requirements of this condition utilizing three test runs of twenty (20) minutes for each test run. The Department may alter the frequency of portable analyzer tests based on the test results. The frequency of portable gas analyzer tests may be altered only with DEP's prior written approval. The portable gas analyzer shall be used and maintained according to the manufacturer's specifications and the procedures specified in ASTM D6522 or equivalent procedures, as approved by the Department.

Within thirty (30) calendar days after the completion of periodic monitoring, the owner or operator shall submit the results to the appropriate DEP Regional Office. The Department reserves the right to require source tests in accordance with EPA reference methods should the data from the portable analyzer warrant such tests.

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

(a) The permittee shall keep comprehensive and accurate records of the following information:

- (1) The date the engine associated with Source ID P109 commences operation.
- (2) The number of hours the engine associated with Source ID P109 operates each calendar year.
- (3) The amount of fuel used in each engine associated with Source ID P109 each calendar year.
- (4) The supporting calculations on a monthly basis used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations for the engine associated with Source ID P109 in any 12 consecutive month period.
- (5) The test reports which shall include a description of the testing methods, testing results used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations for the engine associated with Source ID P109, all engine operating data collected during the tests, and a copy of the report demonstrating that each engine was operating at rated bhp and rated speed conditions during performance testing.

(b) All records generated pursuant to this condition shall be kept for a minimum of five (5) years 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?**

In accordance with 40 CFR Section 60.4245(a), the permittee shall keep records of the following:

- (a) All notifications submitted to comply with this subpart and all documentation supporting any notification.
- (b) Maintenance conducted on the engine.
- (c) Documentation that the engine meets the emission standards.

These records shall be maintained for at least five years and made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.****# 012 [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?**

In accordance with 40 CFR 60.4243(b)(2)(ii), the permittee shall operate Source ID P109 in a manner consistent with good air pollution control practice for minimizing emissions.

In accordance with 40 CFR 60.4243(b)(2)(ii), the permittee shall maintain and implement a maintenance plan for Source ID P109.



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

(a) Source ID P109 is a Caterpillar Model G3516B, four (4) stroke ultra-lean burn reciprocating internal combustion engine, rated at 1380 brake-horsepower, and designated by the permittee as Engine K-2304.

(b) ID C109 is the Miratech oxidation catalyst, model IQ-26-12-EH1 equipped on Engine K-2304.

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

The carbon monoxide, volatile organic compounds, and formaldehyde emissions from Source ID P109 shall be controlled by ID C109. The permittee shall not operate the engine associated with Source ID P109 without the simultaneous operation of the oxidation catalyst associated with ID C109.

**# 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 ID P109 is subject to the requirements of 40 CFR Part 60 Subpart JJJJ, Sections 60.4230 through 60.4248. The permittee shall comply with all applicable requirements specified in 40 CFR Part 60 Subpart JJJJ Sections 60.4230 through 60.4248.

**# 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 ID P109 is subject to the requirements of 40 CFR Part 63 Subpart ZZZZ, Sections 63.6580 through 63.6675. The permittee shall comply with all applicable requirements specified in 40 CFR Part 63 Subpart ZZZZ Sections 63.6580 through 63.6675.

**SECTION D. Source Level Requirements**

Source ID: P110

Source Name: NATURAL GAS-FIRED COMPRESSOR ENGINE (K2404)

Source Capacity/Throughput:



**I. RESTRICTIONS.**

**Emission Restriction(s).**

**# 001 [25 Pa. Code §123.13]**

**Processes**

The concentration of particulate matter in the exhaust of ID C110 associated with Source ID P110 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

**# 002 [25 Pa. Code §123.21]**

**General**

The concentration of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), in the exhaust from ID C110 associated with Source ID P110 shall not exceed 500 parts per million, by volume, dry basis.

**# 003 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Compliance with these emissions restrictions ensures compliance with 40 CFR Section 60.4233(e).]

The permittee shall not permit the following air contaminant emissions from ID C110 associated with Source ID P110 in excess of the limitations listed below:

- (a) nitrogen oxides (NO<sub>x</sub>, expressed as NO<sub>2</sub>) - 0.55 grams per brake horsepower-hour, 1.67 pounds per hour and 7.33 tons in any 12 consecutive month period,
- (b) carbon monoxide (CO) - 0.255 grams per brake horsepower-hour, 0.78 pounds per hour and 3.40 tons in any 12 consecutive month period,
- (c) total combined volatile organic compounds (excluding formaldehyde) (VOC) - 0.252 grams per brake horsepower-hour, 0.77 pounds per hour and 3.36 tons in any 12 consecutive month period,
- (d) formaldehyde - 0.045 grams per brake horsepower-hour, 0.14 pounds per hour and 0.60 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 derived from the General Plan Approval and/or General Operating Permit (BAQ-GPA/GP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

Visible emissions from the exhaust of each oxidation catalyst incorporated in Control Device C110 associated with each engine incorporated in Source ID P110 shall not equal or exceed 10% for a period or periods aggregating more than three minutes in any one hour and not equal or exceed 30% at any time.

**# 005 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

At engine operating conditions less than rated capacity, Source ID P110 shall, on a pounds-per-hour basis, emit no more

**SECTION D. Source Level Requirements**

than they emit at rated bhp and rated speed.

**Fuel Restriction(s).**

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall only use natural gas as fuel in the engine associated with Source IDs P110.

**II. TESTING REQUIREMENTS.**

**# 007 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

- (a) At least sixty (60) days prior to the performance of the stack testing required by this operating permit, a test plan shall be submitted to the Department for evaluation. The plan shall contain a description of the proposed test methods and dimensioned drawings or sketches showing the test port locations.
- (b) The Department shall be given at least fourteen (14) days advance notice of the scheduled dates for the performance of the stack testing required by this operating permit.
- (c) Within sixty (60) days of the completion of the stack tests required by this operating permit, two copies of the test report shall be submitted to the Department. This report shall contain the results of the tests, a description of the testing and analytical procedures actually used in performance of the tests, all process and operating data collected during the tests, a copy of all raw data, and a copy of all calculations generated during data analysis.

**# 008 [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?**

The permittee must conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter on Source ID P110 to demonstrate compliance with the applicable emission standards in 40 CFR Subpart JJJJ.

**III. MONITORING REQUIREMENTS.**

**# 009 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from the General Plan Approval and/or General Operating Permit (BAQ-GP/AGP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

Every 2,500 hours of operation and no sooner than forty-five (45) calendar days from the previous test, the owner or operator shall perform periodic monitoring for NO<sub>x</sub> and CO emissions to verify continued compliance of Source ID P110. A Department-approved test that has been performed within 45 calendar days prior to the scheduled periodic monitoring may be used in lieu of the periodic monitoring for that time period. A portable gas analyzer may be used to satisfy the requirements of this condition utilizing three test runs of twenty (20) minutes for each test run. The Department may alter the frequency of portable analyzer tests based on the test results. The frequency of portable gas analyzer tests may be altered only with DEP's prior written approval. The portable gas analyzer shall be used and maintained according to the manufacturer's specifications and the procedures specified in ASTM D6522 or equivalent procedures, as approved by the Department.

Within thirty (30) calendar days after the completion of periodic monitoring, the owner or operator shall submit the results to the appropriate DEP Regional Office. The Department reserves the right to require source tests in accordance with EPA reference methods should the data from the portable analyzer warrant such tests.

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

(a) The permittee shall keep comprehensive and accurate records of the following information:

- (1) The date the engine associated with Source ID P110 commences operation.
- (2) The number of hours the engine associated with Source ID P110 operates each calendar year.
- (3) The amount of fuel used in the engine associated with Source ID P110 each calendar year.
- (4) The supporting calculations on a monthly basis used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations for the engine associated with Source ID P110 in any 12 consecutive month period.
- (5) The test reports which shall include a description of the testing methods, testing results used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations for the engine associated with Source ID P110, all engine operating data collected during the tests, and a copy of the report demonstrating that each engine was operating at rated bhp and rated speed conditions during performance testing.

(b) All records generated pursuant to this condition shall be kept for a minimum of five (5) years 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?**

In accordance with 40 CFR Section 60.4245(a), the permittee shall keep records of the following:

- (a) All notifications submitted to comply with this subpart and all documentation supporting any notification.
- (b) Maintenance conducted on the engine.
- (c) Documentation that the engine meets the emission standards.

These records shall be maintained for at least five years and made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.****# 012 [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?**

In accordance with 40 CFR 60.4243(b)(2)(ii), the permittee shall operate Source ID P110 in a manner consistent with good air pollution control practice for minimizing emissions.

In accordance with 40 CFR 60.4243(b)(2)(ii), the permittee shall maintain and implement a maintenance plan for Source ID P110.

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

The carbon monoxide, volatile organic compounds, and formaldehyde emissions from Source ID P110 shall be controlled by ID C110. The permittee shall not operate the engine associated with Source ID P110 without the simultaneous operation of the oxidation catalyst associated with ID C110.

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

(a) Source ID P110 is a Caterpillar Model G3516B, four (4) stroke ultra-lean burn reciprocating internal combustion engine, rated at 1380 brake-horsepower, and designated by the permittee as Engine K-2404.

(b) ID C110 is the Miratech oxidation catalyst, model IQ-26-12-EH1 equipped on Engine K-2404.

**# 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 ID P110 is subject to the requirements of 40 CFR Part 60 Subpart JJJJ, Sections 60.4230 through 60.4248. The permittee shall comply with all applicable requirements specified in 40 CFR Part 60 Subpart JJJJ Sections 60.4230 through 60.4248.

**# 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 ID P110 is subject to the requirements of 40 CFR Part 63 Subpart ZZZZ, Sections 63.6580 through 63.6675. The permittee shall comply with all applicable requirements specified in 40 CFR Part 63 Subpart ZZZZ Sections 63.6580 through 63.6675.

**SECTION D. Source Level Requirements**

Source ID: P111

Source Name: NATURAL GAS-FIRED COMPRESSOR ENGINE (K2504)

Source Capacity/Throughput:



**I. RESTRICTIONS.**

**Emission Restriction(s).**

**# 001 [25 Pa. Code §123.13]**

**Processes**

The concentration of particulate matter in the exhaust of ID C111 associated with Source ID P111 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

**# 002 [25 Pa. Code §123.21]**

**General**

The concentration of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), in the exhaust from ID C111 associated with Source ID P111 shall not exceed 500 parts per million, by volume, dry basis.

**# 003 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Compliance with these emissions restrictions ensures compliance with 40 CFR Section 60.4233(e).]

The permittee shall not permit the following air contaminant emissions from ID C111 associated with Source ID P111 in excess of the limitations listed below:

- (a) nitrogen oxides (NO<sub>x</sub>, expressed as NO<sub>2</sub>) - 0.55 grams per brake horsepower-hour, 1.67 pounds per hour and 7.33 tons in any 12 consecutive month period,
- (b) carbon monoxide (CO) - 0.255 grams per brake horsepower-hour, 0.78 pounds per hour and 3.40 tons in any 12 consecutive month period,
- (c) total combined volatile organic compounds (excluding formaldehyde) (VOC) - 0.252 grams per brake horsepower-hour, 0.77 pounds per hour and 3.36 tons in any 12 consecutive month period,
- (d) formaldehyde - 0.045 grams per brake horsepower-hour, 0.14 pounds per hour and 0.60 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 derived from the General Plan Approval and/or General Operating Permit (BAQ-GPA/GP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

Visible emissions from the exhaust of each oxidation catalyst incorporated in Control Device C111 associated with each engine incorporated in Source ID P111 shall not equal or exceed 10% for a period or periods aggregating more than three minutes in any one hour and not equal or exceed 30% at any time.

**# 005 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

At engine operating conditions less than rated capacity, Source ID P111 shall, on a pounds-per-hour basis, emit no more

**SECTION D. Source Level Requirements**

than they emit at rated bhp and rated speed.

**Fuel Restriction(s).**

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall only use natural gas as fuel in the engine associated with Source ID P111.

**II. TESTING REQUIREMENTS.**

**# 007 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

(a) At least sixty (60) days prior to the performance of the stack testing required by this operating permit, a test plan shall be submitted to the Department for evaluation. The plan shall contain a description of the proposed test methods and dimensioned drawings or sketches showing the test port locations.

(b) The Department shall be given at least fourteen (14) days advance notice of the scheduled dates for the performance of the stack testing required by this operating permit.

(c) Within sixty (60) days of the completion of the stack tests required by this operating permit, two copies of the test report shall be submitted to the Department. This report shall contain the results of the tests, a description of the testing and analytical procedures actually used in performance of the tests, all process and operating data collected during the tests, a copy of all raw data, and a copy of all calculations generated during data analysis.

**# 008 [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?**

The permittee must conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter on Source ID P111 to demonstrate compliance with the applicable emission standards in 40 CFR Subpart JJJJ.

**III. MONITORING REQUIREMENTS.**

**# 009 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from the General Plan Approval and/or General Operating Permit (BAQ-GP/AGP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

Every 2,500 hours of operation and no sooner than forty-five (45) calendar days from the previous test, the owner or operator shall perform periodic monitoring for NO<sub>x</sub> and CO emissions to verify continued compliance of Source ID P111. A Department-approved test that has been performed within 45 calendar days prior to the scheduled periodic monitoring may be used in lieu of the periodic monitoring for that time period. A portable gas analyzer may be used to satisfy the requirements of this condition utilizing three test runs of twenty (20) minutes for each test run. The Department may alter the frequency of portable analyzer tests based on the test results. The frequency of portable gas analyzer tests may be altered only with DEP's prior written approval. The portable gas analyzer shall be used and maintained according to the manufacturer's specifications and the procedures specified in ASTM D6522 or equivalent procedures, as approved by the Department.

Within thirty (30) calendar days after the completion of periodic monitoring, the owner or operator shall submit the results to the appropriate DEP Regional Office. The Department reserves the right to require source tests in accordance with EPA reference methods should the data from the portable analyzer warrant such tests.

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

(a) The permittee shall keep comprehensive and accurate records of the following information:

- (1) The date the engine associated with Source ID P111 commences operation.
- (2) The number of hours the engine associated with Source ID P111 operates each calendar year.
- (3) The amount of fuel used in the engine associated with Source ID P111 each calendar year.
- (4) The supporting calculations on a monthly basis used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations for the engine associated with Source ID P111 in any 12 consecutive month period.
- (5) The test reports which shall include a description of the testing methods, testing results used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations for the engine associated with Source ID P111, all engine operating data collected during the tests, and a copy of the report demonstrating that each engine was operating at rated bhp and rated speed conditions during performance testing.

(b) All records generated pursuant to this condition shall be kept for a minimum of five (5) years 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?**

In accordance with 40 CFR Section 60.4245(a), the permittee shall keep records of the following:

- (a) All notifications submitted to comply with this subpart and all documentation supporting any notification.
- (b) Maintenance conducted on the engine.
- (c) Documentation that the engine meets the emission standards.

These records shall be maintained for at least five years and made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.****# 012 [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?**

In accordance with 40 CFR 60.4243(b)(2)(ii), the permittee shall operate Source ID P111 in a manner consistent with good air pollution control practice for minimizing emissions.

In accordance with 40 CFR 60.4243(b)(2)(ii), the permittee shall maintain and implement a maintenance plan for Source ID P111.



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

(a) Source ID P111 is a Caterpillar Model G3516B, four (4) stroke ultra-lean burn reciprocating internal combustion engine, rated at 1380 brake-horsepower, and designated by the permittee as Engine K-2504.

(b) ID C111 is the Miratech oxidation catalyst, model IQ-26-12-EH1 equipped on Engine K-2504.

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

The carbon monoxide, volatile organic compounds, and formaldehyde emissions from Source ID P111 shall be controlled by ID C111. The permittee shall not operate the engine associated with Source ID P111 without the simultaneous operation of the oxidation catalyst associated with ID C111.

**# 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 ID P111 is subject to the requirements of 40 CFR Part 60 Subpart JJJJ, Sections 60.4230 through 60.4248. The permittee shall comply with all applicable requirements specified in 40 CFR Part 60 Subpart JJJJ Sections 60.4230 through 60.4248.

**# 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 ID P111 is subject to the requirements of 40 CFR Part 63 Subpart ZZZZ, Sections 63.6580 through 63.6675. The permittee shall comply with all applicable requirements specified in 40 CFR Part 63 Subpart ZZZZ Sections 63.6580 through 63.6675.

**SECTION D. Source Level Requirements**

Source ID: P112

Source Name: NATURAL GAS-FIRED COMPRESSOR ENGINE (K2604)

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §123.13]

**Processes**

The concentration of particulate matter in the exhaust of ID C112 associated with Source ID P112 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

# 002 [25 Pa. Code §123.21]

**General**

The concentration of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), in the exhaust from ID C112 associated with Source ID P112 shall not exceed 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 derived from the General Plan Approval and/or General Operating Permit (BAQ-GPA/GP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

Visible emissions from the exhaust of each oxidation catalyst incorporated in Control Device C112 associated with each engine incorporated in Source ID P112 shall not equal or exceed 10% for a period or periods aggregating more than three minutes in any one hour and not equal or exceed 30% at any time.

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

At engine operating conditions less than rated capacity, Source ID P112 shall, on a pounds-per-hour basis, emit no more than they emit at rated bhp and rated speed.

# 005 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

[Compliance with these emissions restrictions ensures compliance with 40 CFR Section 60.4233(e).]

The permittee shall not permit the following air contaminant emissions from ID C112 associated with Source ID P112 in excess of the limitations listed below:

(a) nitrogen oxides (NO<sub>x</sub>, expressed as NO<sub>2</sub>) - 0.55 grams per brake horsepower-hour, 1.67 pounds per hour and 7.33 tons in any 12 consecutive month period,

(b) carbon monoxide (CO) - 0.255 grams per brake horsepower-hour, 0.78 pounds per hour and 3.40 tons in any 12 consecutive month period,

(c) total combined volatile organic compounds (excluding formaldehyde) (VOC) - 0.252 grams per brake horsepower-hour, 0.77 pounds per hour and 3.36 tons in any 12 consecutive month period,

(d) formaldehyde - 0.045 grams per brake horsepower-hour, 0.14 pounds per hour and 0.60 tons in any 12 consecutive

**SECTION D. Source Level Requirements**

month period.

**Fuel Restriction(s).**

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall only use natural gas as fuel in the engine associated with Source ID P112.

**II. TESTING REQUIREMENTS.**

**# 007 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

(a) At least sixty (60) days prior to the performance of the stack testing required by this operating permit, a test plan shall be submitted to the Department for evaluation. The plan shall contain a description of the proposed test methods and dimensioned drawings or sketches showing the test port locations.

(b) The Department shall be given at least fourteen (14) days advance notice of the scheduled dates for the performance of the stack testing required by this operating permit.

(c) Within sixty (60) days of the completion of the stack tests required by this operating permit, two copies of the test report shall be submitted to the Department. This report shall contain the results of the tests, a description of the testing and analytical procedures actually used in performance of the tests, all process and operating data collected during the tests, a copy of all raw data, and a copy of all calculations generated during data analysis.

**# 008 [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?**

The permittee must conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter on Source ID P112 to demonstrate compliance with the applicable emission standards in 40 CFR Subpart JJJJ.

**III. MONITORING REQUIREMENTS.**

**# 009 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from the General Plan Approval and/or General Operating Permit (BAQ-GP/AGP 5) for Natural Gas Compression and/or Processing Facilities; GP5-08-315A authorized on May 30, 2014.]

Every 2,500 hours of operation and no sooner than forty-five (45) calendar days from the previous test, the owner or operator shall perform periodic monitoring for NO<sub>x</sub> and CO emissions to verify continued compliance of Source ID P112. A Department-approved test that has been performed within 45 calendar days prior to the scheduled periodic monitoring may be used in lieu of the periodic monitoring for that time period. A portable gas analyzer may be used to satisfy the requirements of this condition utilizing three test runs of twenty (20) minutes for each test run. The Department may alter the frequency of portable analyzer tests based on the test results. The frequency of portable gas analyzer tests may be altered only with DEP's prior written approval. The portable gas analyzer shall be used and maintained according to the manufacturer's specifications and the procedures specified in ASTM D6522 or equivalent procedures, as approved by the Department.

Within thirty (30) calendar days after the completion of periodic monitoring, the owner or operator shall submit the results to the appropriate DEP Regional Office. The Department reserves the right to require source tests in accordance with EPA reference methods should the data from the portable analyzer warrant such tests.

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

(a) The permittee shall keep comprehensive and accurate records of the following information:

- (1) The date the engine associated with Source ID P112 commences operation.
- (2) The number of hours the engine associated with Source ID P112 operates each calendar year.
- (3) The amount of fuel used in the engine associated with Source ID P112 each calendar year.
- (4) The supporting calculations on a monthly basis used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations for the engine associated with Source ID P112 in any 12 consecutive month period.
- (5) The test reports which shall include a description of the testing methods, testing results used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations for the engine associated with Source ID P112, all engine operating data collected during the tests, and a copy of the report demonstrating that each engine was operating at rated bhp and rated speed conditions during performance testing.

(b) All records generated pursuant to this condition shall be kept for a minimum of five (5) years 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?**

In accordance with 40 CFR Section 60.4245(a), the permittee shall keep records of the following:

- (a) All notifications submitted to comply with this subpart and all documentation supporting any notification.
- (b) Maintenance conducted on the engine.
- (c) Documentation that the engine meets the emission standards.

These records shall be maintained for at least five years and made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.****# 012 [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?**

In accordance with 40 CFR 60.4243(b)(2)(ii), the permittee shall operate Source ID P112 in a manner consistent with good air pollution control practice for minimizing emissions.

In accordance with 40 CFR 60.4243(b)(2)(ii), the permittee shall maintain and implement a maintenance plan for Source ID P112.

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

(a) Source ID P112 is a Caterpillar Model G3516B, four (4) stroke ultra-lean burn reciprocating internal combustion engine, rated at 1380 brake-horsepower, and designated by the permittee as Engine K-2604.

(b) ID C112 is the Miratech oxidation catalyst, model IQ-26-12-EH1 equipped on Engine K-2604.

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

The carbon monoxide, volatile organic compounds, and formaldehyde emissions from Source ID P112 shall be controlled by ID C112. The permittee shall not operate the engine associated with Source ID P112 without the simultaneous operation of the oxidation catalyst associated with ID C112.

**# 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 ID P112 is subject to the requirements of 40 CFR Part 60 Subpart JJJJ, Sections 60.4230 through 60.4248. The permittee shall comply with all applicable requirements specified in 40 CFR Part 60 Subpart JJJJ Sections 60.4230 through 60.4248.

**# 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?**

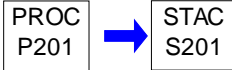
Source ID P112 is subject to the requirements of 40 CFR Part 63 Subpart ZZZZ, Sections 63.6580 through 63.6675. The permittee shall comply with all applicable requirements specified in 40 CFR Part 63 Subpart ZZZZ Sections 63.6580 through 63.6675.

**SECTION D. Source Level Requirements**

Source ID: P201

Source Name: GLYCOL DEHYDRATOR RATED AT 60 MMSCF/DAY (V-1600)

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §123.13]

**Processes**

The concentration of particulate matter in the exhaust of the vent associated with Source ID P201 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

# 002 [25 Pa. Code §123.21]

**General**

The concentration of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), in the exhaust of the vents associated with Source ID P201 shall not exceed 500 parts per million, by volume, dry basis.

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The total combined volatile organic compounds emissions from both glycol dehydrators associated with Source IDs P201 through P202 shall not exceed 1.11 tons in any 12 consecutive month period.

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall not allow the discharge of volatile organic compound emissions from still vent stack V-1600 (ID S201) associated with Source ID P201 in such a manner that the rate of volatile organic compound emissions into the atmosphere exceeds 0.12 pound per hour.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

# 005 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

(a) The permittee shall keep comprehensive and accurate records of the following for Source ID P201:

(1) The number of hours per calendar year that Source ID P201 operated.

(2) The supporting calculations on a monthly basis used to verify compliance with the volatile organic compound emission limitation for the glycol dehydrator associated with Source ID P201 in any 12 consecutive month period. The supporting calculations shall rely upon accurate up-to-date GRI-GLYCalc reports that utilize analyses accurately representative of the gas being processed by the glycol dehydrator associated with Source ID P201.

**SECTION D. Source Level Requirements**

(3) The actual throughput per day and the glycol circulation rate for the glycol dehydrator associated with Source ID P201.

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

**# 006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.774]****Subpart HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities Recordkeeping requirements.**

In accordance with 40 CFR 63.774(d)(1), the permittee shall maintain records of the actual average benzene emissions (in terms of benzene emissions per year) as determined in accordance with §63.772(b)(2).

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

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

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

Source ID 201 is subject to the requirements of 40 CFR Part 63 Subpart HH, Sections 63.760 through 63.777. The permittee shall comply with all applicable requirements specified in 40 CFR Part 63 Subpart HH Sections 63.760 through 63.777.

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

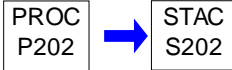
Source ID P201 is a natural gas dehydration unit, rated at 60 million standard cubic feet per day, and designated by the permittee as V-1600.

**SECTION D. Source Level Requirements**

Source ID: P202

Source Name: GLYCOL DEHYDRATOR RATED AT 60 MMSCF/DAY (V-2600)

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §123.13]

**Processes**

The concentration of particulate matter in the exhaust of the vent associated with Source ID P202 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

# 002 [25 Pa. Code §123.21]

**General**

The concentration of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), in the exhaust of the vents associated with Source ID P202 shall not exceed 500 parts per million, by volume, dry basis.

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The total combined volatile organic compounds emissions from both glycol dehydrators associated with Source IDs P201 through P202 shall not exceed 1.11 tons in any 12 consecutive month period.

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall not allow the discharge of volatile organic compound emissions from still vent stack V-2600 (ID S202) associated with Source ID P202 in such a manner that the rate of volatile organic compound emissions into the atmosphere exceeds 0.12 pound per hour.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

# 005 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

(a) The permittee shall keep comprehensive and accurate records of the following for Source ID P202:

(1) The number of hours per calendar year that Source ID P202 operated.

(2) The supporting calculations on a monthly basis used to verify compliance with the volatile organic compound emission limitation for the glycol dehydrator associated with Source ID P202 in any 12 consecutive month period. The supporting calculations shall rely upon accurate up-to-date GRI-GLYCalc reports that utilize analyses accurately representative of the gas being processed by the glycol dehydrator associated with Source ID P202.



**SECTION D. Source Level Requirements**

(3) The actual throughput per day and the glycol circulation rate for the glycol dehydrator associated with Source ID P202.

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

**# 006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.774]****Subpart HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities Recordkeeping requirements.**

In accordance with 40 CFR 63.774(d)(1), the permittee shall maintain records of the actual average benzene emissions (in terms of benzene emissions per year) as determined in accordance with §63.772(b)(2).

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

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

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

Source ID 202 is subject to the requirements of 40 CFR Part 63 Subpart HH, Sections 63.760 through 63.777. The permittee shall comply with all applicable requirements specified in 40 CFR Part 63 Subpart HH Sections 63.760 through 63.777.

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

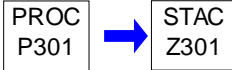
Source ID P202 is a natural gas dehydration units, rated at 60 million standard cubic feet per day, and designated by the permittee as V-2600.

**SECTION D. Source Level Requirements**

Source ID: P301

Source Name: TANKS/VESSELS

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall not store any liquid containing volatile organic compounds with a vapor pressure greater than 1.5 psia (10 kilopascals) under actual storage conditions in any tank of Source ID P301 with a capacity equal to or greater than 2,000 gallons.

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The total combined emissions from Source ID P301 shall not equal or exceed 2.7 tons of volatile organic compounds in any 12 consecutive month period of which the emissions of volatile hazardous air pollutants shall not equal or exceed 1.0 ton in any 12 consecutive month period.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

- (a) The permittee shall maintain comprehensive and accurate records to verify that the vapor pressure of the media in any tank with a capacity equal to, or greater than, 2000 gallons under Source ID P301, which contains volatile organic compounds, is less than, or equal to, 1.5 psia.
- (b) The permittee shall maintain comprehensive and accurate records of the amount of volatile organic compounds and the amount of volatile hazardous air pollutants emitted from Source ID P301 during each 12 consecutive month period.
- (c) These records shall be retained for a minimum of 5 years and made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

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

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

Source ID P301 consists of the following storage tanks:

- (a) One 10,500 gallon produced water tank;
- (b) One 6,300 gallon "slop" oil tank;
- (c) One 6,300 gallon glycol/water mix tank.

**SECTION D. Source Level Requirements**

Source ID: P401

Source Name: HEATERS/REBOILERS UNIT 1

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §123.11]

**Combustion units**

Source ID 401 shall not emit particulate matter in excess of the rate of 0.40 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, expressed as sulfur dioxide (SO<sub>2</sub>), into the outdoor atmosphere from Source ID P401 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.**

Source ID P401 shall only be fired on natural gas.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

(a) The permittee shall keep records of all air contaminant emissions from Source ID P401 during each 12 consecutive month period. These records shall include all background information and calculations used in the derivation of the reported values.

(b) These records shall be retained for at least 5 years and made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

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

**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.**

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

**VII. ADDITIONAL REQUIREMENTS.**

**# 005 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

Source ID P401 is a 0.75 MMBtu/hr natural gas-fired reboiler associated with the operation of P201.

**SECTION D. Source Level Requirements**

Source ID: P402

Source Name: HEATERS/REBOILERS UNIT 2

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §123.11]

**Combustion units**

Source ID P402 shall not emit particulate matter in excess of the rate of 0.40 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, expressed as sulfur dioxide (SO<sub>2</sub>), into the outdoor atmosphere from Source ID P402 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.**

Source ID P402 shall only be fired on natural gas.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

(a) The permittee shall keep records of all air contaminant emissions from Source ID P402 during each 12 consecutive month period. These records shall include all background information and calculations used in the derivation of the reported values.

(b) These records shall be retained for at least 5 years and made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

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

**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.**

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

**VII. ADDITIONAL REQUIREMENTS.**

**# 005 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

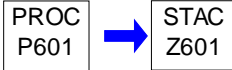
Source ID P402 is a 0.75 MMBtu/hr natural gas-fired reboiler associated with the operation of P202.

**SECTION D. Source Level Requirements**

Source ID: P601

Source Name: VENTING/BLOWDOWNS

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The total combined emissions from Source ID P601 shall not equal or exceed 2.7 tons of volatile organic compounds in any 12 consecutive month period of which the emissions of volatile hazardous air pollutants shall not equal or exceed 1.0 ton in any 12 consecutive month period.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

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

**V. REPORTING REQUIREMENTS.**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

(a) The permittee shall keep records of the amount of volatile organic compounds and the amount of volatile hazardous air pollutants emitted from Source ID P601 during each 12 consecutive month period. These records shall include all background information and calculations used in the derivation of the reported values.

(b) These records shall be retained for at least 5 years and made available to the Department upon request.

**VI. WORK PRACTICE REQUIREMENTS.**

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

**VII. ADDITIONAL REQUIREMENTS.**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Source ID P601 consists of all station venting and blowdowns.

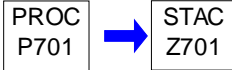


**SECTION D. Source Level Requirements**

Source ID: P701

Source Name: FUGITIVES

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The total combined emissions from Source ID P701 shall not equal or exceed 2.7 tons of volatile organic compounds in any 12 consecutive month period of which the emissions of volatile hazardous air pollutants shall not equal or exceed 1.0 ton in any 12 consecutive month period.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

(a) The permittee shall keep records of the amount of volatile organic compounds and the amount of volatile hazardous air pollutants emitted from Source ID P701 during each 12 consecutive month period. These records shall include all background information and calculations used in the derivation of the reported values.

(b) These records shall be retained for at least 5 years and made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

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

**VII. ADDITIONAL REQUIREMENTS.**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

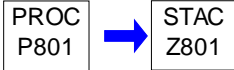
Source P701 consists of any component that has the potential to emit fugitive emissions of methane, volatile organic compounds or hazardous air pollutants, but not limited to valves, connectors, pressure relief device, open-ended lines, flanges, compressors, instruments, meters, covers and closed vent 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.

**SECTION D. Source Level Requirements**

Source ID: P801

Source Name: PIGGING OPERATIONS

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The total combined emissions from Source ID P801 shall not equal or exceed 2.7 tons of volatile organic compounds in any 12 consecutive month period of which the emissions of volatile hazardous air pollutants shall not equal or exceed 1.0 ton in any 12 consecutive month period.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

(a) The permittee shall keep records of the amount of volatile organic compounds and the amount of volatile hazardous air pollutants emitted from Source ID P801 during each 12 consecutive month period. These records shall include all background information and calculations used in the derivation of the reported values.

(b) These records shall be retained for at least 5 years and made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

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

**VII. ADDITIONAL REQUIREMENTS.**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Source ID P801 consists of all station pigging operations



**SECTION E. Source Group Restrictions.**



**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this State Only facility.



**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.



**SECTION H. Miscellaneous.**



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

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