



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

STATE ONLY SYNTHETIC MINOR OPERATING PERMIT

Issue Date: September 25, 2024 Effective Date: September 25, 2024
Expiration Date: September 24, 2029

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: 23-00225

Synthetic Minor

Federal Tax Id - Plant Code: 82-3224011-2

Owner Information

Name: ADELPHIA GATEWAY LLC
Mailing Address: 214 SHOEMAKER RD
POTTSTOWN, PA 19464-6422

Plant Information

Plant: ADELPHIA GATEWAY LLC/MARCUS HOOK COMPRESSOR STA
Location: 23 Delaware County 23824 Lower Chichester Township
SIC Code: 4923 Trans. & Utilities - Gas Transmission And Distribution

Responsible Official

Name: JAMES ECKERT
Title: VICE PRESIDENT
Phone: (713) 828 - 3493 Email: jeckert@njresources.com

Permit Contact Person

Name: EDWARD BOVA
Title: COMPLIANCE MANAGER
Phone: (814) 203 - 6764 Email: EBova@NJResources.com

[Signature] _____
JAMES D. REBARCHAK, SOUTHEAST REGION AIR PROGRAM MANAGER



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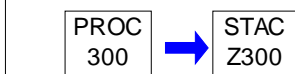
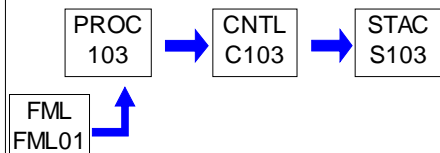
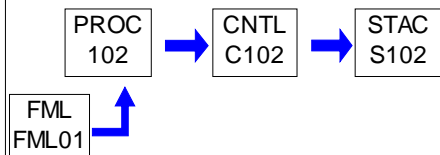
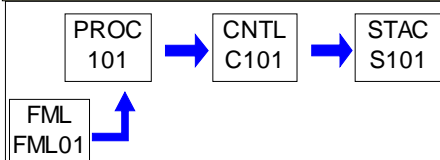
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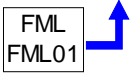
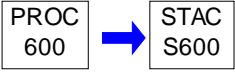
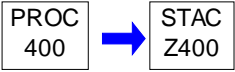
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
101	RECIPROCATING COMPRESSOR 1	14.060 MMBTU/HR	
		13.654 MCF/HR	Natural Gas
102	RECIPROCATING COMPRESSOR 2	14.060 MMBTU/HR	
		13.654 MCF/HR	Natural Gas
103	RECIPROCATING COMPRESSOR 3	14.060 MMBTU/HR	
		13.654 MCF/HR	Natural Gas
300	PIGGING OPERATIONS		
400	FUGITIVE EMISSIONS COMPONENTS		
600	CUMMINS EMERGENCY GENERATOR SET	4.750 MMBTU/HR	
		4.613 MCF/HR	Natural Gas
C101	RECIPROCATING COMPRESSOR 1 OXIDATION CATALYST		
C102	RECIPROCATING COMPRESSOR 2 OXIDATION CATALYST		
C103	RECIPROCATING COMPRESSOR 3 OXIDATION CATALYST		
FML01	NATURAL GAS PIPELINE		
S101	RECIPROCATING COMPRESSOR 1 STACK		
S102	RECIPROCATING COMPRESSOR 2 STACK		
S103	RECIPROCATING COMPRESSOR 3 STACK		
S600	CUMMINS EMERGENCY GENERATOR SET STACK		
Z300	PIGGING OPERATIONS FUGITIVE EMISSIONS		
Z400	FUGITIVE EMISSIONS COMPONENTS FUGITIVE EMISSIONS		

PERMIT MAPS



PERMIT MAPS



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

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

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

(a) This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit.

(b) The terms and conditions of the expired permit shall automatically continue pending issuance of a new operating permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit.

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

(a) The permittee shall submit a timely and complete application for renewal of the operating permit to the appropriate Regional Air Program Manager. The application for renewal of the operating permit shall be submitted at least six (6) months and not more than 18 months before the expiration date of this permit.

(b) The application for permit renewal shall include the current permit number, a description of any permit revisions that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.

(c) The permittee shall submit with the renewal application a fee for the processing of the application as specified in 25 Pa. Code § 127.703(b). The fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" and submitted with the fee form to the respective regional office.

(d) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413.

(e) The application for renewal of the operating permit shall also include submission of supplemental compliance review forms in accordance with the requirements of 25 Pa. Code § 127.412(b) and § 127.412(j).

(f) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information as necessary to address any requirements that become applicable to the source after the permittee submits a complete application, but prior to the date the Department takes action on the permit application.

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

(a) The permittee shall pay the annual operating permit maintenance fee according to the following fee schedule in either paragraph (1) or (2) in accordance with 25 Pa. Code § 127.703(d) on or before December 31 of each year for the next calendar year.

(1) For a synthetic minor facility, a fee equal to:

(i) Four thousand dollars (\$4,000) for calendar years 2021—2025.

(ii) Five thousand dollars (\$5,000) for calendar years 2026—2030.

(iii) Six thousand three hundred dollars (\$6,300) for the calendar years beginning with 2031.

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



SECTION B. General State Only Requirements

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

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

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

#008 [25 Pa. Code § 127.441]

Need to Halt or Reduce Activity Not a Defense.

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

#009 [25 Pa. Code §§ 127.442(a) & 127.461]

Duty to Provide Information.

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

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

#010 [25 Pa. Code § 127.461]

Revising an Operating Permit for Cause.

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

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

#011 [25 Pa. Code §§ 127.450, 127.462, 127.465 & 127.703]

Operating Permit Modifications

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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(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 § 127.11a]**Reactivation of Sources**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- (1) Construction or demolition of buildings or structures.
- (2) Grading, paving and maintenance of roads and streets.
- (3) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.
- (4) Clearing of land.
- (5) Stockpiling of materials.
- (6) Open burning operations, as specified in 25 Pa. Code § 129.14.
- (7) N/A.
- (8) N/A.
- (9) Sources and classes of sources other than those identified in (1)-(8) of this condition, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (i) The emissions are of minor significance with respect to causing air pollution; and
 - (ii) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

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

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

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

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

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

The permittee shall ensure that emission into the outdoor atmosphere of visible air contaminants from this facility occurs in such a manner that the opacity of the emission is neither of the following:

- (a) Equal to or greater than 20% for a period or periods aggregating more than 3 minutes in any 1 hour.
- (b) Equal to or greater than 60% at any time.

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

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

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

**SECTION C. Site Level Requirements****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall ensure that emission into the outdoor atmosphere of nitrogen oxides (NOx) from this facility is less than 25 tons/yr, calculated monthly as a 12-month rolling sum.

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

The permittee shall ensure that emission into the outdoor atmosphere of volatile organic compounds (VOCs) from this facility is less than 25 tons/yr, calculated monthly as a 12-month rolling sum.

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

The permittee shall ensure that emission into the outdoor atmosphere of hazardous air pollutants (HAPs) from this facility is less than both of the following rates:

- (a) 10 tons/yr for any individual HAP, calculated monthly as a 12-month rolling sum.
- (b) 25 tons/yr for total HAPs, calculated monthly as a 12-month rolling sum.

010 [25 Pa. Code §129.14]**Open burning operations**

The permittee shall not perform any open burning activities, except for the following:

- (a) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.
- (b) A fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
- (c) A fire set for the prevention and control of disease or pests, when approved by the Department.
- (d) A fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.
- (e) A fire set for the purpose of burning domestic refuse, when the fire is on the premises of a structure occupied solely as a dwelling by two families or less and when the refuse results from the normal occupancy of the structure.
- (f) A fire set solely for recreational or ceremonial purposes.
- (g) A fire set solely for cooking food.

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

- (a) If at any time the Department has cause to believe that air contaminant emissions from any source may be in excess of the limitations specified in this permit, or established pursuant to, any applicable rule or regulation contained in 25 Pa. Code Article III, the permittee shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s).
- (b) Such testing shall be conducted in accordance with the provisions of 25 Pa. Code Chapter 139, the most current version of the DEP Source Testing Manual, and the EPA Clean Air Act National Stack Testing Guidance, when applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the permittee that testing is required.
- (c) Plan Approval No. 23-0225 requires a source test to confirm compliance with the permitted emission limits for Source IDs 101 through 103 (see Condition #001 under Source Group Name: COMPRESSOR ENGINE & OXIDATION CATALYST, in Section E of this permit). A source test was conducted on January 18-19, 2023 and the source test report was received

**SECTION C. Site Level Requirements**

by DEP on June 26, 2023. The permittee's test report indicates that the source test results demonstrate compliance with plan approval requirements; however, DEP Source Testing Program has not completed a formal review of the source test report to determine if the test results are acceptable to use for compliance purposes at this time. If DEP Source Testing Program determines that the source test is not acceptable to use for compliance purposes, the permittee will be required to retest in accordance with conditions specified in Plan Approval No. 23-0225 and other such conditions, within the capacity of the equipment, which may be requested by DEP.

III. MONITORING REQUIREMENTS.**# 012 [25 Pa. Code §123.43]****Measuring techniques**

The permittee may measure visible air contaminant emissions using either of the following:

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

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

- (a) The permittee shall monitor this facility, at least once per operating day when manned, but no less than twice per operating week, for the following:
 - (1) Odors, which may be objectionable (as per 25 Pa. Code § 123.31; see Condition # 004, Section C, of this permit).
 - (2) Visible air contaminant emissions (as per 25 Pa. Code §§ 123.41 and 123.42; see Conditions # 005–006, Section C, of this permit, respectively).
 - (3) Fugitive air contaminant emissions (as per 25 Pa. Code §§ 123.1 and 123.2; see Conditions # 002–003, Section C, of this permit, respectively).
- (b) Objectionable odors, visible air contaminant emissions, and/or fugitive air contaminant emissions that are caused or may be caused by operations at the facility shall:
 - (1) Be investigated.
 - (2) Be reported to the facility management, or individual(s) designated by the permittee.
 - (3) Have appropriate corrective action taken (for emissions that originate on-site).
 - (4) Be recorded in a permanent written log.

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

The permittee shall calculate the following emissions from this facility on a monthly and 12-month rolling basis, using the appropriate Worksheet (accessible at <https://www.dep.pa.gov/business/air/baq/business/topics/emission/pages/default.aspx>) or other Department-approved method(s):

- (a) The total CO emissions.
- (b) The total NO_x emissions.
- (c) The total PM emissions.
- (d) The total PM less than 10 μm in aerodynamic diameter (PM-10) emissions.

**SECTION C. Site Level Requirements**

- (e) The total PM less than 2.5 μm in aerodynamic diameter (PM-2.5) emissions.
- (f) The total sulfur oxides (SO_x) emissions.
- (g) The total VOC emissions.
- (h) The total emissions of each individual HAP, including, but not limited to, formaldehyde.
- (i) The total emissions of all combined HAPs.

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

[Additional authority for this permit condition is also derived from 40 C.F.R. § 70.6(a)(3)(ii)(B).]

The permittee shall maintain all records, reports, analysis results, monitoring data, and supporting information (including calibration data, maintenance records, and original strip-chart recordings for continuous monitoring instrumentation) generated in compliance with the requirements of any section of this permit for at least 5 years from the date that they are generated, and shall make them available to the Department upon written or verbal request within a reasonable time.

[Compliance with this streamlined permit condition assures compliance with 40 C.F.R. § 60.7(f).]

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

(a) The permittee shall maintain records of all monitoring of odors, visible air contaminant emissions, and fugitive air contaminant emissions, including deviations from the conditions found in Conditions # 002–005, Section C, of this permit. All records of deviations shall include, at a minimum, the following for each incident:

- (1) A description of the deviation.
- (2) The source(s) and/or associated air pollution control device(s) and location(s).
- (3) The duration (including the starting and ending date(s) and times).
- (4) The cause(s).
- (5) The corrective action(s) taken, if necessary to abate the situation and prevent future occurrences.

(b) The monitoring shall be recorded and maintained in a Department-approved format and time frame.

017 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall maintain records of all of this facility's emission increases, including the following types, in accordance with 25 Pa. Code § 127.449:

- (a) De minimis emission increases without notification to the Department.
- (b) De minimis emission increases with notification to the Department, via letter.
- (c) Emission increases resulting from a Request for Determination of Changes of Minor Significance and Exemption from Plan Approval/Operating Permit (RFD) to the Department.
- (d) Emission increases resulting from the issuance of a plan approval and subsequent operating permit.

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

**SECTION C. Site Level Requirements**

The permittee shall maintain records of the following emissions from this facility on a monthly and 12-month rolling basis, calculated using the appropriate Worksheet (accessible at <https://www.dep.pa.gov/business/air/baq/business/topics/emission/pages/default.aspx>) or other Department-approved method(s):

- (a) The total CO emissions.
- (b) The total NOx emissions.
- (c) The total PM emissions.
- (d) The total PM-10 emissions.
- (e) The total PM-2.5 emissions.
- (f) The total SOx emissions.
- (g) The total VOC emissions.
- (h) The total emissions of each individual HAP, including, but not limited to, formaldehyde.
- (i) The total emissions of all combined HAPs.

V. REPORTING REQUIREMENTS.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 60.7(b) and 25 Pa. Code Chapter 122.]

(a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to the Department at 484-250-5920. 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; and
- (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.

**SECTION C. Site Level 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.

020 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 60.4 and 60.5420a(b), and 25 Pa. Code Chapter 122.]

In accordance with 40 C.F.R. § 60.4, copies of all requests, reports, applications, submittals, and other communications are required to be submitted to both EPA and the Department, as follows:

(a) EPA: Electronically, via the Compliance and Emission Data Reporting Interface (CEDRI), at <https://cdx.epa.gov>. If electronic reporting is not available, a copy shall be forwarded to:

Associate Director
United States Environmental Protection Agency
Region III, Enforcement & Compliance Assurance Division
Air, RCRA and Toxics Branch (3ED21)
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, Pennsylvania 19103-2852

(b) Department: To the Regional Air Quality Program Manager.

021 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

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

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

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

(1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:

- (i) Three years after the date on which a regulated substance is first listed under 40 CFR § 68.130; or,
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

(2) The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part

**SECTION C. Site Level Requirements**

68, including a checklist addressing the required elements of a complete RMP.

(c) As used in this permit condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

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

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

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

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

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

VI. WORK PRACTICE REQUIREMENTS.**# 022 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 123.1(c).]

The permittee shall take all reasonable actions to prevent PM from a source(s) specified in 25 Pa. Code § 123.1 (see Condition # 002(a), Section C, of this permit), from becoming airborne. These actions shall include, but not be limited to, the following:

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

(b) Application of asphalt, oil, water, or suitable chemicals on dirt roads, material stockpiles, and other surfaces that may give rise to airborne dusts.

(c) Paving and maintenance of roadways.

(d) Prompt removal of earth or other material from paved roads onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

023 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 60.11(d), and 25 Pa. Code Chapter 122 and § 127.25.]

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

024 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall immediately, upon discovery, implement measures, which may include the application for the installation of an air pollution control device(s), if necessary, to reduce the air contaminant emissions to within applicable

**SECTION C. Site Level Requirements**

restrictions, if at any time the operation of a source(s) listed in Section A, of this permit, is causing the emission of air contaminants in excess of the restrictions specified in this permit or established pursuant to any applicable rule or regulation contained in 25 Pa. Code, Subpart C, Article III.

025 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

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

VII. ADDITIONAL REQUIREMENTS.**# 026 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.25.]

This facility is a natural gas pipeline compressor station. The facility is subject to, and shall comply with, certain applicable requirements, including, but not limited to, those specified in 40 C.F.R. Part 60, Subparts JJJJ and OOOOa, and the Department's BAT standards.

In accordance with 40 C.F.R. §60.5365a(d) and (e),

- this facility is not a pneumatic controller affected facility, as each single continuous bleed natural gas-driven pneumatic controller operates at a natural gas bleed rate less than 6 scfh;
- this facility is not a storage vessel affected facility based on each tank potential for VOC emissions.

40 C.F.R. §60.5370a: Compliance

At all times, including periods of startup, shutdown, and malfunction, the permittee shall maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. The provisions for exemption from compliance during periods of startup, shutdown and malfunctions provided for in 40 CFR 60.8(c) do not apply to this subpart.

40 C.F.R. §60.5371a: Super-emitter events

A super-emitter event is defined as any emissions event that is located at or near an oil and gas facility (e.g., compressor station) and that is detected using remote detection methods and has a quantified emission rate of 100 kg/hr of methane or greater. Upon receiving a notification of a super emitter event issued by the EPA under § 60.5371b(c) in subpart OOOOb of this part, the permittee shall take the actions listed in paragraphs (a) and (b), below. Within 5 calendar days of receiving a notification from the EPA of a super-emitter event, the permittee shall initiate a super-emitter event investigation.

(a) Identification of super-emitter events.

(1) If you do not own or operate an oil and natural gas facility within 50 meters from the latitude and longitude provided in the notification subject to the regulation under this subpart, report this result to the EPA under paragraph (e) of this section. Your super-emitter event investigation is deemed complete under this subpart.

(2) If you own or operate an oil and natural gas facility within 50 meters from the latitude and longitude provided in the notification, and there is an affected facility or associated equipment subject to this subpart onsite, you must investigate to determine the source of the super-emitter event in accordance with paragraph (a)(2) of this section, maintain records of your investigation, and report the results in accordance with paragraph (b) of this section.

(3) The investigation required by paragraph (a)(2) of this section may include but is not limited to the actions specified below in paragraphs (a)(3)(i) through (iv) of this section.



SECTION C. Site Level Requirements

(b) Super-emitter event report.

The permittee shall submit the results of the super-emitter event investigation conducted under paragraph (a) of this section to the EPA in accordance with paragraph (b)(1) of this section. If the super-emitter event (i.e., emission at 100 kg/hr of methane or more) is ongoing at the time of this initial report, submit the additional information in accordance with paragraph (b)(2) of this section. The permittee shall attest to the information included in the report as specified in paragraph (b)(3) of this section.

(1) Within 15 days of receiving a notification from the EPA under § 60.5371b(c), the permittee shall submit a report of the super-emitter event investigation conducted under paragraph (a) of this section through the Super-Emitter Program Portal, at www.epa.gov/super-emitter. The permittee shall include the applicable information in paragraphs (b)(1)(i) through (viii) of this section in the report. If you have identified a demonstrable error in the notification, the report may include a statement of the demonstrable error.

(2) If the super-emitter event is ongoing at the time of the initial report submittal, within 5 business days of the date the super-emitter event ends you must update your initial report through the Super-Emitter Program Portal, to provide the end date and time of the super-emitter event.

(3) The permittee shall sign the following attestation when submitting data into the Super-Emitter Program Portal: "I certify that the information provided in this report regarding the specified super-emitter event was prepared under my direction or supervision. I further certify that the investigations were conducted, and this report was prepared pursuant to the requirements of § 60.5371a(a) and (b). Based on my professional knowledge and experience, and inquiry of personnel involved in the assessment, the certification submitted herein is true, accurate, and complete. I am aware that knowingly false statements may be punishable by fine or imprisonment."

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: 101

Source Name: RECIPROCATING COMPRESSOR 1

Source Capacity/Throughput: 14.060 MMBTU/HR

13.654 MCF/HR Natural Gas

Conditions for this source occur in the following groups: COMPRESSOR ENGINE & OXIDATION CATALYST
COMPRESSOR ROD PACKING

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

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

(a) This source shall consist of a reciprocating compressor designed to compress approximately 125 mmcf/day of natural gas from an existing pipeline. This and reciprocating compressors 2 and 3 (Source IDs 102–103, respectively) shall serve to increase the pressure of natural gas through the facility from approximately 640 psig to 840 psig.

(b) The reciprocating compressor shall be equipped with a(n inline) 6-cylinder, natural gas-fired (spark-ignition [SI]) reciprocating internal combustion (IC) engine, model no. G3606, also manufactured by Caterpillar, Inc. The engine shall be rated at 1,875 bhp power output, and have a displacement of 10.60 liters per cylinder.

**SECTION D. Source Level Requirements**

(c) CO, formaldehyde, and NMNEHC emissions from the engine shall be controlled by an oxidation catalyst (Source ID C101), manufactured by Emit Technologies, Inc.

**SECTION D. Source Level Requirements**

Source ID: 102

Source Name: RECIPROCATING COMPRESSOR 2

Source Capacity/Throughput: 14.060 MMBTU/HR

13.654 MCF/HR Natural Gas

Conditions for this source occur in the following groups: COMPRESSOR ENGINE & OXIDATION CATALYST
COMPRESSOR ROD PACKING

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

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

(a) This source shall consist of a reciprocating compressor designed to compress approximately 125 mmcf/day of natural gas from an existing pipeline. This and reciprocating compressors 1 and 3 (Source IDs 101 and 103, respectively) shall serve to increase the pressure of natural gas through the facility from approximately 640 psig to 840 psig.

(b) The reciprocating compressor shall be equipped with a(n inline) 6-cylinder, natural gas-fired (SI) reciprocating IC engine, model no. G3606, also manufactured by Caterpillar, Inc. The engine shall be rated at 1,875 bhp power output, and have a displacement of 10.60 liters per cylinder.

**SECTION D. Source Level Requirements**

(c) CO, formaldehyde, and NMNEHC emissions from the engine shall be controlled by an oxidation catalyst (Source ID C102), manufactured by Emit Technologies, Inc.

**SECTION D. Source Level Requirements**

Source ID: 103

Source Name: RECIPROCATING COMPRESSOR 3

Source Capacity/Throughput: 14.060 MMBTU/HR
13.654 MCF/HR Natural Gas

Conditions for this source occur in the following groups: COMPRESSOR ENGINE & OXIDATION CATALYST
COMPRESSOR ROD PACKING

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

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

(a) This source shall consist of a reciprocating compressor designed to compress approximately 125 mmcf/day of natural gas from an existing pipeline. This and reciprocating compressors 1 and 2 (Source IDs 101–102, respectively) shall serve to increase the pressure of natural gas through the facility from approximately 640 psig to 840 psig.

(b) The reciprocating compressor shall be equipped with a(n inline) 6-cylinder, natural gas-fired (SI) reciprocating IC engine, model no. G3606, also manufactured by Caterpillar, Inc. The engine shall be rated at 1,875 bhp power output, and have a displacement of 10.60 liters per cylinder.

**SECTION D. Source Level Requirements**

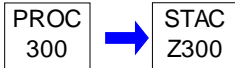
(c) CO, formaldehyde, and NMNEHC emissions from the engine shall be controlled by an oxidation catalyst (Source ID C102), manufactured by Emit Technologies, Inc.

**SECTION D. Source Level Requirements**

Source ID: 300

Source Name: PIGGING OPERATIONS

Source Capacity/Throughput:

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

The permittee shall ensure that emission into the outdoor atmosphere of the following pollutants from these pigging operations is less than the following rates:

Pollutant	Tons/yr
VOCs	2.7
HAP	0.5
HAPs	1.0

Tons/yr = Tons per 12-month rolling period, calculated monthly.

HAP = An individual HAP.

HAPs = Total HAPs.

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

The permittee shall calculate the following emissions from each pig chamber on a monthly and 12-month rolling basis, using the Department's Midstream Pigging Operations Spreadsheet (accessible at <https://www.dep.pa.gov/business/air/baq/business/topics/emission/pages/default.aspx>) or other Department-approved method(s):

- The methane emissions.
- The ethane emissions.
- The VOC emissions.
- The total HAP emissions.

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

The permittee shall maintain records of the following information for these pigging operations:

- The identification, location, and date of construction of each pig chamber.
- The following for each pigging operation:

**SECTION D. Source Level Requirements**

- (1) The date and starting and ending times of the pigging operation.
- (2) Identification of the pig chamber used.
- (3) The type and volume of liquids cleared.

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

The permittee shall maintain records of the following emissions from each pig chamber on a monthly and 12-month rolling basis, calculated using the Department's Midstream Pigging Operations Spreadsheet or other Department-approved method(s):

- (a) The methane emissions.
- (b) The ethane emissions.
- (c) The VOC emissions.
- (d) The total HAP emissions.

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

The permittee shall employ best management practices to minimize the liquids present in, and emissions from, each pig chamber (receiver) of these pigging operations.

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

The pigging operations shall be conducted no more than 3 times per year for each pipeline.

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

This source grouping shall consist of all pigging operations at the facility, including, but not limited to, the following:

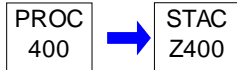
- (a) Pigging blowdown.
- (b) Two pig chambers.

**SECTION D. Source Level Requirements**

Source ID: 400

Source Name: FUGITIVE EMISSIONS COMPONENTS

Source Capacity/Throughput:

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

[Additional authority for this permit condition is also derived from 40 C.F.R. § 60.5420a(c)(15)(i) and (vi) and 25 Pa. Code Chapter 122.]

The permittee shall maintain records of the date of startup or the date of modification for each collection of fugitive emissions components at each compressor (Source IDs 101 through 103).

The permittee shall maintain records of the fugitive emissions monitoring plan for these fugitive emissions components in accordance with Condition # 006(a)–(k), Section D (under Source ID 400), of this permit.

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

The permittee shall maintain records of the following information for each audible, visual, and olfactory (AVO) inspection for these fugitive emissions components:

- (a) The date and starting and ending times of the inspection.
- (b) The ambient temperature, sky conditions, and maximum wind speed at the time of the inspection.
- (c) The following information for each fugitive emissions component for which a leak is detected:
 - (1) The identification and location.
 - (2) The instrument reading of each fugitive emissions component that meets the leak definition specified in Condition # 011(a)(3), Section D (under Source ID 400), of this permit.
 - (3) The following information regarding the status of repair of each fugitive emissions component:
 - (i) The following for each attempt to repair the fugitive emissions component:
 - (A) The date.

**SECTION D. Source Level Requirements**

(B) The repair methods applied.

(ii) The tagging or digital photographing of each fugitive emissions component not repaired during the inspection in which the leak was detected.

(iii) The reason(s) a fugitive emissions component was placed on delay of repair (i.e., one or more of the reasons specified in Condition # 010(a)(2), Section D (under Source ID 400), of this permit), if applicable.

(iv) The date of successful repair of the fugitive emissions component.

(v) The following for the resurvey of a repaired fugitive emissions component that could not be repaired during the initial leak finding:

(A) The date.

(B) The instrumentation or method used.

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

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 60.5397a(a) and (i) and 60.5420a(c)(15)(vi)(A)–(D) and (F)–(I), and 25 Pa. Code Chapter 122.]

The permittee shall maintain records of the following information for each monitoring survey (or resurvey) for these fugitive emissions components:

(a) The facility name and location.

(b) The permit number.

(c) The date and starting and ending times of the monitoring survey.

(d) The name, training, and experience of the operator(s) conducting the monitoring survey.

(e) The detection device(s) used.

(f) The ambient temperature, sky conditions, and maximum wind speed at the time of the monitoring survey.

(g) Any deviations from the monitoring plan (or a statement that there were no deviations).

(h) The following information for each fugitive emissions component for which a leak is detected (i.e., meets the leak definition specified in Condition # 011(a)(3), Section D (under Source ID 400), of this permit):

(1) The identification (including type(s) and total number) and location.

(2) The initial instrument reading.

(3) The following for each attempt at repair:

(i) The date.

(ii) The repair methods applied.

(4) The tagging or digital photographing of each fugitive emissions component not repaired during the monitoring survey in which the leak was detected.

(5) The following for each fugitive emissions component placed on delay of repair:

**SECTION D. Source Level Requirements**

(i) The type(s) (including designation as difficult-to-monitor or unsafe-to-monitor, if applicable) and total number.

(ii) The reason(s) (i.e., one or more of those specified in Condition # 010(a)(2), Section D (under Source ID 400), of this permit).

(iii) The date(s) of planned shutdown(s), if necessary to complete the repair.

(h) The following information for each fugitive emissions component for which a leak is detected (i.e., meets the leak definition specified in Condition # 011(a)(3), Section D (under Source ID 400), of this permit):

(1) The identification (including type(s) and total number) and location.

(2) The initial instrument reading.

(3) The following for each attempt at repair:

(i) The date.

(ii) The repair methods applied.

(4) The tagging or digital photographing of each fugitive emissions component not repaired during the monitoring survey in which the leak was detected.

(5) The following for each fugitive emissions component placed on delay of repair:

(i) The type(s) (including designation as difficult-to-monitor or unsafe-to-monitor, if applicable) and total number.

(ii) The reason(s) (i.e., one or more of those specified in Condition # 010(a)(2), Section D (under Source ID 400), of this permit).

(iii) The date(s) of planned shutdown(s), if necessary to complete the repair.

(6) The type(s) and total number of fugitive emissions components not repaired in accordance with Condition # 010(a)(1)–(2), Section D (under Source ID 400), of this permit).

(7) The final instrument reading (indicating successful repair of the fugitive emissions component).

[Compliance with this streamlined permit condition assures compliance with 40 C.F.R. §§ 60.5399a(k).]

V. REPORTING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this ppermit condition is also derived from 40 C.F.R. §§ 60.5397a(a) and (j) and 60.5420a(b)(1) and (7), and 25 Pa. Code Chapter 122.]

(a) The permittee shall submit annual reports for these fugitive emissions components containing the following information:

(1) The following general information:

(i) The company name.

(ii) The facility name.

(iii) The permit number.

**SECTION D. Source Level Requirements**

(iv) Either of the following:

(A) The address of the site.

(B) A description of the site and the location using latitude and longitude coordinates of the site in decimal degrees to an accuracy and precision of 5 decimal degrees using the North American Datum of 1983.

(v) The beginning and ending dates of the reporting period.

(vi) A certification of truth, accuracy, and completeness, which shall include the following:

(A) The following statement: "Based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete."

(B) The signature of the certifying responsible official.

(vii) Identification of each source included in the report.

(viii) The records of the facility's emissions to demonstrate compliance with the permitted emission limits.

(2) The records maintained in Condition # 003(a)–(h), Section D (under Source ID 400), of this permit.

(b) The permittee shall submit an initial annual report no later than 90 days after the end of the initial compliance period, as determined in accordance with Condition # 005, Section D (under Source ID 400), of this permit, and subsequent annual reports no later than the same date each year.

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

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 60.5410a(j)(1)–(5), 60.5415a(h)(1)–(4), and 60.5420a(b); and 25 Pa. Code Chapter 122.]

The permittee shall demonstrate initial and/or continuous compliance for these fugitive emissions components by complying with the following requirements for each compliance period. The initial compliance period for the fugitive emissions components begins upon commencement of operation of any of the reciprocating compressors (Source IDs 101–103), and each compliance period lasts for a period of 1 year:

(a) Develop a fugitive emissions monitoring plan as required by/in accordance with Condition # 006, Section D (under Source ID 400), of this permit (initial compliance only).

(b) Conduct initial and periodic monitoring surveys in accordance with the fugitive emissions monitoring plan and Condition # 009(a)–(c), Section D (under Source ID 400), of this permit.

(c) Maintain records of the fugitive emissions monitoring plan and monitoring surveys in accordance with Conditions # 001 and 003, Section D (under Source ID 400), of this permit.

(d) Repair fugitive emissions components in accordance with the fugitive emissions monitoring plan and Condition # 010, Section D (under Source ID 400), of this permit.

(e) Submit an initial and subsequent annual reports in accordance with the time frames specified in Condition # 004(b), Section D (under Source ID 400), of this permit.

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

[Additional authority for this permit condition is also derived from 40 C.F.R. § 60.5397a(a)–(d) and (g)(3)–(4), and

**SECTION D. Source Level Requirements**

25 Pa. Code Chapter 122.]

The permittee shall develop a fugitive emissions monitoring plan for these fugitive emissions components. The monitoring plan shall include, at a minimum, the following elements:

- (a) A sitemap.
- (b) A defined observation path that ensures that all fugitive emissions components are within sight of the path. The observation path shall account for any interferences.
- (c) If using EPA Method 21, a listing of all fugitive emissions components to be monitored, including those designated as difficult-to-monitor or unsafe-to-monitor, as defined in Condition # 011(b)–(c), Section D (under Source ID 400), of this permit, and the method for determining their location in the field (e.g., tagging, identification on a process and instrumentation diagram, etc.). The listing shall also include an explanation of why each fugitive emissions component designated as difficult-to-monitor or unsafe-to-monitor is designated as such.
- (d) The frequency for conducting monitoring surveys, including for fugitive emissions components designated as difficult-to-monitor or unsafe-to-monitor. Monitoring surveys shall be conducted at least as frequently as required by Condition # 009(a)–(c), Section D (under Source ID 400), of this permit.
- (e) The technique(s) for determining fugitive emissions (i.e., OGI, EPA Method 21, or other Department-approved method).
- (f) The manufacturer and model number of each detection device to be used.
- (g) The procedures and time frames for identifying and repairing fugitive emissions components from which leaks are detected, including for components that are unsafe to repair. The repair schedule shall meet, at a minimum, the requirements specified in Condition # 010(a)(1)–(2), Section D (under Source ID 400), of this permit.
- (h) The procedures and time frames for verifying repairs of fugitive emissions components. The verification shall meet, at a minimum, the requirements specified in Condition # 010(b)(1)–(2), Section D (under Source ID 400), of this permit.
- (i) The records to be maintained and the time frame for maintaining the records. The permittee shall maintain records in accordance with Condition # 003(a)–(h), Section D (under Source ID 400), of this permit. The time frame for maintaining the records shall comply with Condition # 016, Section C, of this permit.
- (j) The following elements if using an OGI camera:
 - (1) An initial verification, performed by either the permittee, the OGI camera manufacturer, or a third party, that the OGI camera is capable of imaging both of the following gases:
 - (i) Those in the spectral range for the compound of highest concentration in the potential fugitive emissions.
 - (ii) One that is 50% methane and 50% propane, at a concentration of 10,000 ppm and a flow rate of equal to or less than 60 g/hr, from a ¼-inch diameter orifice.
 - (2) The procedure for a daily verification check.
 - (3) The procedure for determining the operator's maximum viewing distance from the equipment and how the operator will ensure that this distance is maintained.
 - (4) The procedure for determining maximum wind speed during which monitoring can be performed and how the operator will ensure monitoring occurs only at wind speeds below this threshold.
 - (5) Procedures for conducting monitoring surveys, including the following:
 - (i) How the operator will ensure an adequate thermal background is present in order to view potential fugitive

**SECTION D. Source Level Requirements**

emissions.

(ii) How the operator will deal with adverse monitoring conditions, such as wind.

(iii) How the operator will deal with interferences (e.g., steam).

(6) Training and experience needed prior to performing monitoring surveys.

(7) Procedures for calibration and maintenance. The procedures shall comply with, at a minimum, those recommended by the manufacturer.

(k) The following elements if using a gas leak detector:

(1) Verification that the gas leak detector meets the requirements specified in Section 6.0 of EPA Method 21. If using a gas leak detector other than a flame ionization detector (FID), the permittee shall develop a site-specific leak definition that would provide an equivalent response to 500 ppm as methane using a FID (e.g., 10.6 eV for a photo ionization detector (PID) with a specified isobutylene concentration).

(2) Procedures for conducting monitoring surveys. The procedures shall ensure that the monitoring surveys comply with the relevant sections of EPA Method 21, including, but not limited to, Section 8.3.1.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall use any of the following detection devices as part of the leak detection and repair (LDAR program) for these fugitive emissions components:

(1) An optical gas imaging (OGI) camera that has been verified to meet the requirements specified in Condition # 006(j)(1)(i)–(ii), Section D (under Source ID 400), of this permit.

(2) A gas leak detector that has been verified to meet the requirements specified in Section 6.0 of EPA Method 21.

(3) Other leak detection methods approved by the Division of Source Testing and Monitoring.

(b) The detection devices in (a)(1)–(3), above, must be operated and maintained in accordance with manufacturer-recommended procedures, as required by the test method, or a Department-approved method.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

No later than 30 days after any of these fugitive emissions components commences operation, and at least monthly thereafter, the permittee shall conduct an AVO inspection for the respective fugitive emissions component(s).

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 60.5397a(a), (e)–(f), and (g)(2)–(4); and 25 Pa. Code Chapter 122.]

(a) No later than 60 days after the commencement of operation of the reciprocating compressors (Source IDs 101–103), the permittee shall conduct a monitoring survey (i.e., LDAR program) for each of these fugitive emissions components using any of the detection devices indicated in Condition # 007(a)(1)–(3), Section D (under Source ID 400), of this permit.

(b) Except as indicated in (c)–(d), below, the permittee shall conduct subsequent monitoring surveys for each of the fugitive emissions components on a quarterly basis (at least 60 days apart).

(c) The permittee shall conduct subsequent monitoring surveys for each of the fugitive emissions components that are designated as difficult-to-monitor at least once per calendar year.

**SECTION D. Source Level Requirements**

(d) The permittee may request an extension of time to conduct the monitoring surveys required by (b), above. The request must be in writing and include a justification for the extension. The Department may grant the extension for reasonable cause.

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

[Additional authority for this permit condition is also derived from 40 C.F.R. § 60.5397a(a) and (h)(2), (3)(i) and (4), and 25 Pa. Code Chapter 122.]

(a) Any leak detected from any of these fugitive emissions components shall be repaired by the owner or operator of the facility as expeditiously as practicable. A first attempt at repair must be attempted within 5 calendar days of detection, and repair must be completed no later than 15 calendar days after the leak is detected, except in either of the following situations:

(1) The owner or operator must purchase parts to complete the repair, in which case the repair must be completed no later than 10 calendar days after the receipt of the purchased parts.

(2) The repair or replacement is technically infeasible, would require a vent blowdown, a compressor station shutdown, or would be unsafe to repair during operation of the unit, in which case the repair or replacement must be completed after a planned vent blowdown, during the next scheduled compressor station shutdown, or within 2 years, whichever is earlier.

(b) Once a fugitive emissions component has been repaired or replaced, the owner or operator must resurvey the component as soon as practicable, but no later than 30 calendar days after the leak is repaired.

(1) For repairs that cannot be made during the monitoring survey when the leak is initially found, either a digital photograph must be taken of the component or the component must be tagged for identification purposes.

(2) A leak is considered repaired if any of the following apply:

(i) There is no visible leak image when using an OGI camera calibrated at a detection sensitivity level of 60 grams/hour.

(ii) A leak concentration of less than 500 ppm as methane (or equivalent response, as developed in accordance with Condition # 006(k)(1), Section D (under Source ID 400), of this permit) is detected when the probe inlet of a gas leak detector is placed at the surface of the component.

(iii) No detectable emissions exist, as determined using the procedures specified in Section 8.3.2 of EPA Method 21.

(iv) There is no bubbling at the leak interface using the soap solution screening procedure specified in Section 8.3.3 of EPA Method 21.

[Compliance with this streamlined permit condition assures compliance with 40 C.F.R. § 60.5397a(h).]

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

[Additional authority for this permit condition is also derived from 40 C.F.R. § 60.5397a(a), (c)(8), and (g)(3)–(4); and 25 Pa. Code Chapter 122.]

The following definitions shall apply for these fugitive emissions components:

(a) The term "leak" is defined as any of the following (except for a release from any equipment or component designed by the manufacturer to protect the equipment, controller, or personnel, or to prevent groundwater contamination, gas migration, or an emergency situation):

(1) Any positive indication, whether audible, visual, or odorous, determined during an AVO inspection.

**SECTION D. Source Level Requirements**

(2) Any visible emission from a fugitive emissions component observed using optical gas imaging in accordance with Condition # 006, Section D (under Source ID 400), of this permit."

(3) A concentration of greater than or equal 500 ppm as methane (or equivalent response, as developed in accordance with Condition # 006(k)(1), Section D (under Source ID 400), of this permit) detected by an instrument reading.

(b) The term "difficult-to-monitor" is defined as not able to be monitored without elevating monitoring personnel more than 2 meters above the ground surface.

(c) The term "unsafe-to-monitor" is defined as not able to be monitored without exposing monitoring personnel to immediate danger while conducting a monitoring survey.

[Note: The definitions of the term "fugitive emissions" in 40 C.F.R. § 60.5397a(a) and (c)(8)(i) are streamlined into the definition of the term "leak" in this permit condition.]

**SECTION D. Source Level Requirements**

Source ID: 600

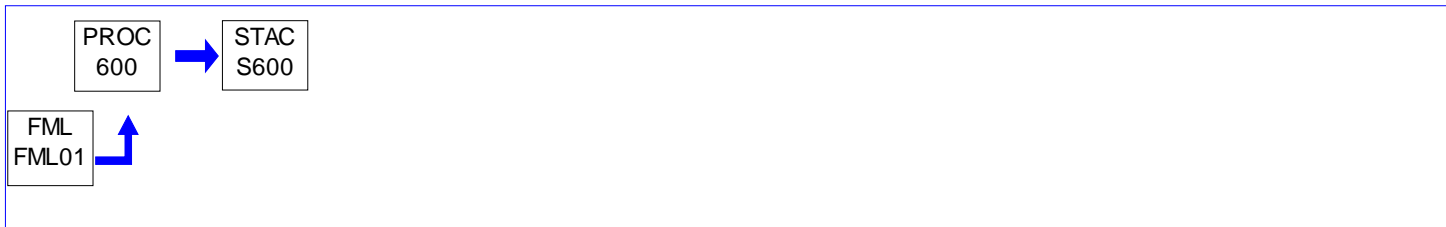
Source Name: CUMMINS EMERGENCY GENERATOR SET

Source Capacity/Throughput:

4.750 MMBTU/HR

4.613 MCF/HR

Natural Gas

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

The permittee shall ensure that the emission into the outdoor atmosphere of NO_x from the exempt engine of this emergency generator set is less than the following rates:

- (a) 100 lbs/hr.
- (b) 1,000 lbs/day.
- (c) 2.75 tons per ozone season.
- (d) 6.6 tons/yr, calculated monthly as a 12-month rolling sum.

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

The permittee shall ensure that emission into the outdoor atmosphere of PM from the exempt engine of this emergency generator set occurs in such a manner that the concentration of filterable PM in the exhaust gas does not exceed 0.04 gr/dscf.

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

The permittee shall ensure that pipeline natural gas, as defined in 40 C.F.R. § 72.2, is the only fuel consumed by the exempt engine of this emergency generator set.

[Compliance with this streamlined permit condition assures compliance with 25 Pa. Code § 123.21(b).]

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

[Additional authority for this permit condition is also derived from 40 C.F.R. § 60.4243(d)(2)–(3) and 25 Pa. Code Chapter 122.]

The permittee shall ensure that the exempt engine of this emergency generator set is operated in compliance with the following operating hours restrictions:

- (a) A total operating time of less than 500 hrs/yr, calculated monthly as a 12-month rolling sum.
- (b) A total operating time of less than or equal to 50 hours per calendar year for non-emergency situations, except that the following operations are prohibited:

**SECTION D. Source Level Requirements**

- (1) Peak shaving.
- (2) Demand response.
- (3) Supplying power to an electric grid to generate income, or otherwise supplying power as part of a financial arrangement with another entity.
- (c) A total operating time of less than or equal to a total of 100 hours per calendar year for the following purposes:
 - (1) Any maintenance, including readiness testing and tune-ups.
 - (2) The non-emergency situations indicated in (b), above.

[Compliance with this permit condition assures compliance with the provisions of 40 C.F.R. Part 60, Subpart JJJJ, as vacated in part on May 1, 2015, by the U.S. Court of Appeals for the District of Columbia Circuit.]

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

The permittee shall monitor the following operating parameters for this emergency generator set:

- (a) The type(s) of operation, on an operating day basis.
- (b) The following hours of operation, on an operating day basis:
 - (1) The hours of operation for each type of operation.
 - (2) The total hours of operation.
- (c) The amount of natural gas consumed by the exempt engine of the emergency generator set on a monthly basis.

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

The permittee shall calculate the following emissions from the exempt engine of this emergency generator set, using the Department's Midstream Air Emissions Worksheet or other Department-approved method(s):

- (a) The CO emissions, on a monthly and 12-month rolling basis.
- (b) The NO_x emissions on a monthly, ozone season (i.e., the period from May 1–September 30 of each year), and 12-month rolling basis.
- (c) The VOC emissions, on a monthly and 12-month rolling basis.

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

The permittee shall maintain records of the following operating parameters for this emergency generator set:

- (a) The type(s) of operation, on an operating day basis.

**SECTION D. Source Level Requirements**

(b) The following hours of operation:

- (1) The hours of operation for each type of operation, on an operating day, monthly, and annual basis.
- (2) The total hours of operation, on an operating day, monthly, and 12-month rolling basis.

(c) The amount of natural gas consumed by the exempt engine of the emergency generator set on a monthly and 12-month rolling basis, calculated using a Department-approved method.

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

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 60.4243(b)(2)(ii) and 60.4245(a)(2), and 25 Pa. Code Chapter 122.]

The permittee shall maintain a maintenance plan, and records of all maintenance performed, for this emergency generator set. These records shall contain, at a minimum, the following:

- (a) The date and time of the maintenance.
- (b) The type of maintenance performed.

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

The permittee shall maintain records of the following emissions from the exempt engine of this emergency generator set, calculated using the Department's Midstream Air Emissions Worksheet or other Department-approved method(s):

- (a) The CO emissions, on a monthly and 12-month rolling basis.
- (b) The NO_x emissions on a monthly, ozone season, and 12-month rolling basis.
- (c) The VOC emissions, on a monthly and 12-month rolling basis.

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

[Additional authority for this permit condition is also derived from 40 C.F.R. § 60.4245(c).]

The permittee shall submit an initial notification in accordance with the provisions of 40 C.F.R. § 60.7(a)(1). The notification shall be postmarked no later than 30 days after the date of commencement of this emergency generator set, and shall include the following information:

- (a) The name and address of the owner and operator.
- (b) The address of the source.
- (c) The following information for the engine of the emergency generator set:
 - (1) The manufacturer.
 - (2) The model and serial numbers.
 - (3) The model year.
 - (4) The engine family, if applicable.

**SECTION D. Source Level Requirements**

- (5) The fuel consumed.
- (6) The rated power output (bhp).
- (7) The displacement.
- (d) The type of emission control equipment used.

VI. WORK PRACTICE REQUIREMENTS.**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 60.4243(g) and 25 Pa. Code Chapter 122.]

The permittee shall install, and appropriately operate and maintain, a non-resettable hour meter for this emergency generator set.

VII. ADDITIONAL REQUIREMENTS.**# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) This source shall consist of an emergency generator set, model No. C350N6, manufactured by Cummins, Inc. The emergency generator set shall be rated at 350 kW power output.

(b) The emergency generator set shall be equipped with a 6-cylinder, natural gas-fired (SI), (exempt) reciprocating IC engine, model no. KTA19, also manufactured by Cummins, Inc. The engine shall be rated at 530 hp gross engine power output, and have a total displacement of 19 liters.

(c) The engine is EPA SI NSPS (Subpart JJJJ) stationary emergency certified [NOx: 1.5; THC: 2.0; CO: 1.5; NMHC: 0.18 (g/hp-hr)].

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

The exempt engine of this emergency generator set is subject to, and shall comply with all applicable requirements of, 40 C.F.R. Part 60, Subpart JJJJ.¹ In accordance with 40 C.F.R. § 60.4, copies of all requests, reports, applications, submittals, and other communications are required to be submitted to both EPA and the Department, as follows:

(a) EPA: Electronically, via the Compliance and Emission Data Reporting Interface (CEDRI), at <https://cdx.epa.gov>. If electronic reporting is not available, a copy shall be forwarded to:

United States Environmental Protection Agency
Region III, Enforcement & Compliance Assurance Division
Air, RCRA and Toxics Branch (3ED21)
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, Pennsylvania 19103-2852

(b) Department: To the Regional Air Quality Program Manager.

¹ The engine is also subject to 40 C.F.R. Part 63, Subpart ZZZZ, but, pursuant to 40 C.F.R. § 63.6590(c)(1), complies with this regulation by complying with the provisions of 40 C.F.R. Part 60, Subpart JJJJ, instead.

**SECTION E. Source Group Restrictions.**

Group Name: COMPRESSOR ENGINE & OXIDATION CATALYST

Group Description: Reciprocating Compressor Engine & Oxidation Catalyst Conditions

Sources included in this group

ID	Name
101	RECIPROCATING COMPRESSOR 1
102	RECIPROCATING COMPRESSOR 2
103	RECIPROCATING COMPRESSOR 3

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

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 60.4233(e) and 60.4234, and 25 Pa. Code Chapter 122 and § 127.1.]

The permittee shall ensure that emission into the outdoor atmosphere of the following pollutants from the engine of each reciprocating compressor does not exceed the following emission standards:

Pollutant	g/bhp-hr
CO	0.25
Formaldehyde	0.05
NOx	0.50
NMNEHCs	0.25

NOx = NOx, as NO₂.

NMNEHCs = Non-methane, non-ethane hydrocarbons, as propane, excluding formaldehyde.

[Compliance with this streamlined permit condition assures compliance with 40 C.F.R. Part 60, Subpart JJJJ, Table 1.]

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

The permittee shall ensure that the combined emission into the outdoor atmosphere of the following pollutants from the engines of the reciprocating compressors does not exceed the following rates:

Pollutant	Tons/yr
CO	9.47
Formaldehyde	2.06
NOx	16.30
NMNEHCs	8.69

Tons/yr = Tons per 12-month rolling period, calculated monthly.

NMNEHCs = Non-methane, non-ethane hydrocarbons, as propane, excluding formaldehyde.

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

The permittee shall ensure that emission into the outdoor atmosphere of PM from the engine of each reciprocating compressor occurs in such a manner that the concentration of filterable PM in the exhaust gas does not exceed 0.04 grains per dry standard cubic foot (gr/dscf).

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

The permittee shall ensure that pipeline natural gas, as defined in 40 C.F.R. § 72.2, is the only fuel consumed by the engines of the reciprocating compressors.

[Compliance with this streamlined permit condition assures compliance with 25 Pa. Code § 123.21(b).]

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

The permittee shall ensure that emissions from the engine of each reciprocating compressor proceed through the associated oxidation catalyst (Source IDs C101–C103) before exhausting into the outdoor atmosphere.

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

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 60.8(a), 60.4243(b)(2)(ii), 60.4244(a)–(e), and 60.4245(d); and 25 Pa. Code Chapters 122 and 139.]

(a) For every 3 years or 8,760 hours of total operating time thereafter (for each respective reciprocating compressor, whichever comes first), or as otherwise required in Condition # 007(b), Section E (under the Compressor Engine & Oxidation Catalyst source group), of this permit, the permittee shall perform a stack test for the engine of reciprocating compressor which has the highest operating hours among Source IDs 101 through 103, as follows:

(1) In accordance with the provisions of 25 Pa. Code Chapter 139 and the current version of the Department's Source Testing Manual.

(2) In accordance with the provisions of 40 C.F.R. §§ 60.8 and 60.4244(a)–(e) and Part 60, Subpart JJJJ, Table 2, items 1a–b, for NO_x and CO, respectively (including for exhaust flowrate and moisture content).

(3) Using EPA Alternative Method ALT-106 to determine the concentration of NMNEHCs, as propane, excluding formaldehyde, in the exhaust gas.

(4) Using EPA Method 320 to determine the concentration of formaldehyde in the exhaust gas.

(b) At least 90 days prior to the stack test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples. A test protocol shall be approved by the Source Testing Section of the Department prior to the test.

(c) At least 30 days prior to the stack test, the permittee shall inform the Regional Air Quality Program Manager of the Department of the date and time of the test.

(d) Within 60 days after the stack test, the permittee shall submit two copies of the complete test report, including all operating conditions, to the Regional Air Quality Program Manager of the Department for approval. Test reports indicating the following test methods for the measurement of VOCs shall include the results of the following quality assurance/quality control (QA/QC) procedures:

(1) EPA Method 18: The recovery study and presurvey sample analysis in Sections 8.4 and 11.1.1.4, respectively.

(2) EPA Method 320: Analyte spiking in Sections 8.6.2, 9.0, and 13.0.

(3) ASTM D6348-03: All QA/QC procedures in Annexes 1-7.

(e) The permittee may request an extension of time for any deadlines indicated in (a)–(d), above, with which it is unable to comply. The request must be in writing and include a justification for the extension. The Department may grant the

**SECTION E. Source Group Restrictions.**

extension for reasonable cause.

(f) The results of the stack test shall be used to demonstrate compliance with the emission standards specified in Condition # 001, Section E (under the Compressor Engine & Oxidation Catalyst source group), of this operating permit.

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

Southeast Region
RA-EPSEstacktesting@pa.gov

Central Office
RA-EPstacktesting@pa.gov

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

(1) Test Date(s)

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

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

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

(4) Testing Requirements, including

- (i) Operating permit number
- (ii) Applicable federal subpart(s) (i.e. 40 CFR 60, Subpart JJJJ)
- (iii) Special purpose(s)

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 60.8(a) and 60.4244(a)–(e), and 25 Pa. Code Chapters 122 and 139.]

(a) After every 2,500 hours of total operating time for each reciprocating compressor, the permittee shall perform periodic monitoring for the engine of the respective reciprocating compressor, as follows:¹

(1) In accordance with the provisions of 25 Pa. Code Chapter 139 and the current version of the Department's Source Testing Manual.

(2) In accordance with the provisions of 40 C.F.R. §§ 60.4244(a)–(e) and Part 60, Subpart JJJJ, Table 2, items 1a–b, for NO_x and CO, respectively (not including for exhaust flowrate and moisture content), except as follows:

(i) Using an electro-chemical cell portable gas analyzer maintained in accordance with the manufacturer's specifications.

(ii) Following the procedures specified in the current version of ASTM D6522.

(iii) The duration of the test runs shall be equal to or greater than 20 minutes.

(b) The results of the periodic monitoring shall be used to demonstrate compliance with the CO and NO_x emission standards specified in Condition # 001, Section E (under the Compressor Engine & Oxidation Catalyst source group), of

**SECTION E. Source Group Restrictions.**

this permit. If the results of the periodic monitoring do not demonstrate compliance with both of these emission standards, the permittee shall perform a stack test for the engine of the affected reciprocating compressor in accordance with Condition # 006(a)(1)–(4) and (c)–(f), Section E (under the Compressor Engine & Oxidation Catalyst source group), of this permit, within 60 days after the periodic monitoring. (The most recent test protocol previously approved by the Source Testing Section of the Department shall be used for the stack test.)

¹ Except that the timeframe for performing periodic monitoring for the engine of a reciprocating compressor resets after a stack test is performed for the respective engine in accordance with Condition # 006, Section E (under the Compressor Engine & Oxidation Catalyst source group), of this permit.

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

The permittee shall monitor the following operating parameters for each reciprocating compressor:

- (a) The hours of operation, on an operating day basis.
- (b) The amount of natural gas consumed by the engine of the reciprocating compressor on a monthly basis.
- (c) The following for the associated oxidation catalyst (Source IDs C101–C103):
 - (1) The inlet and outlet temperatures, on a continuous basis (i.e., at least once every 15 minutes).
 - (2) The differential pressure, on an operating day basis.

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

The permittee shall calculate the following emissions from the engines of the reciprocating compressors on a monthly and 12-month rolling basis, using the Department's Midstream Air Emissions Worksheet or other Department-approved method(s):

- (a) The CO emissions.
- (b) The formaldehyde emissions.
- (c) The NOx emissions.
- (d) The NMNEHC emissions.

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

The permittee shall maintain records of the following operating parameters for each reciprocating compressor:

- (a) The hours of operation, on an operating day, monthly, and 12-month rolling basis.
- (b) The amount of natural gas consumed by the engine of this reciprocating compressor on a monthly and 12-month rolling basis, calculated using a Department-approved method.
- (c) The following for the associated oxidation catalyst (Source IDs C101–C103):
 - (1) The inlet and outlet temperatures, on a continuous basis (i.e., at least once every 15 minutes).
 - (2) The differential pressure, on an operating day basis.

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

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 60.4243(b)(2)(ii) and 60.4245(a)(2), and 25

**SECTION E. Source Group Restrictions.**

Pa. Code Chapter 122.]

The permittee shall maintain a maintenance plan, and records of all maintenance performed, for the engine of each reciprocating compressor and the associated oxidation catalyst (Source IDs C101–C103). These records shall contain, at a minimum, the following:

- (a) The date and time of the maintenance.
- (b) The type of maintenance performed.
- (c) The type and amount of oxidation catalyst replaced, if applicable.

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

The permittee shall maintain records of results of the periodic monitoring performed for the engines of the reciprocating compressors.

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

The permittee shall maintain records of the following emissions from the engines of the reciprocating compressors on a monthly and 12-month rolling basis, calculated using the Department's Midstream Air Emissions Worksheet or other Department-approved method(s):

- (a) The CO emissions.
- (b) The formaldehyde emissions.
- (c) The NO_x emissions.
- (d) The NMNEHC emissions.

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

[Additional authority for this permit condition is also derived from 40 C.F.R. § 60.4245(c).]

The permittee shall submit an initial notification for the reciprocating compressors in accordance with the provisions of 40 C.F.R. § 60.7(a)(1). The notification shall be postmarked no later than 30 days after the date of commencement of the reciprocating compressors, and shall include the following information:

- (a) The name and address of the owner and operator.
- (b) The address of the source.
- (c) The following information for the engine of the reciprocating compressor:
 - (1) The manufacturer.
 - (2) The model and serial numbers.
 - (3) The model year.
 - (4) The engine family, if applicable.
 - (5) The fuel consumed.
 - (6) The rated power output (bhp).

**SECTION E. Source Group Restrictions.**

(7) The displacement.

(d) The type of emission control equipment used.

VI. WORK PRACTICE REQUIREMENTS.**# 015 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall install, and appropriately operate and maintain, a non-resettable hour meter for each of the reciprocating compressors.

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

The permittee shall ensure that the amount of time spent by the engine of each reciprocating compressor at idle during startup or shutdown is minimized to a period appropriate for the operation of the respective engine and associated oxidation catalyst (Source IDs C101–C103) consistent with good air pollution control practices, but no greater than 30 minutes.

017 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall replace the oxidation catalyst (Source IDs C101–C103) associated with the engine of each reciprocating compressor on or before every 8,760 operating hours (or earlier, as needed).

VII. ADDITIONAL REQUIREMENTS.**# 018 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The engines of the reciprocating compressors are subject to, and shall comply with all applicable requirements of, 40 C.F.R. Part 60, Subpart JJJJ.² In accordance with 40 C.F.R. § 60.4, copies of all requests, reports, applications, submittals, and other communications are required to be submitted to both EPA and the Department, as follows:

² The engines are also subject to 40 C.F.R. Part 63, Subpart ZZZZ, but, pursuant to 40 C.F.R. § 63.6590(c)(1), comply with this regulation by complying with the provisions of 40 C.F.R. Part 60, Subpart JJJJ, instead.

(a) EPA: Electronically, via the Compliance and Emission Data Reporting Interface (CEDRI), at <https://cdx.epa.gov>. If electronic reporting is not available, a copy shall be forwarded to:

United States Environmental Protection Agency
Region III, Enforcement & Compliance Assurance Division
Air, RCRA and Toxics Branch (3ED21)
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, Pennsylvania 19103-2852

(b) Department: To the Regional Air Quality Program Manager.

019 [25 Pa. Code §129.203]**Stationary internal combustion engines.**

On or before October 31 of each year, the permittee shall calculate the difference between the actual NOx emissions from and the allowable NOx emissions for the engines of the reciprocating compressors during the ozone season.

020 [25 Pa. Code §129.203]**Stationary internal combustion engines.**

The permittee shall calculate the allowable NOx emissions from the engines of the reciprocating compressors during the ozone season by multiplying the following values:

(a) The hours of operation for the reciprocating compressor during the ozone season.

(b) The rated power output (bhp) of the engines of the reciprocating compressors, as indicated in Condition # 001(b), Section D (under Source IDs 101–103), of this permit.

**SECTION E. Source Group Restrictions.**

(c) The emission rate of 3.0 g/bhp-hr.

021 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 C.F.R. Part 97, Subparts AAAAA and BBBB, and 25 Pa. Code § 129.204(c) and (e)–(f).]

(a) The permittee shall surrender to the Department one Clean Air Interstate Rule (CAIR) NO_x Annual allowance and one CAIR NO_x Ozone Season allowance, as defined in 40 C.F.R. §§ 96.102 and 96.302, respectively, for each ton of NO_x by which the actual emissions from the engines of the reciprocating compressors during each ozone season exceed the allowable emissions from the engines during the same period, as calculated in Conditions # 009(c) and 020(a)–(c), Section E (under the Compressor Engine & Oxidation Catalyst source group), of this permit, respectively. The surrendered NO_x allowances shall be of current year vintage. For the purpose of determining the amount of NO_x allowances to surrender, any remaining fraction of a ton equal to or greater than 0.50 tons shall be deemed to equal 1 ton, and any fraction of a ton less than 0.50 tons shall be deemed to equal zero tons.

(b) On or before November 1 of each year, the permittee shall surrender the NO_x allowances required in (a), above, to the Department's designated NO_x allowance tracking system account and submit the following information to the Department, in writing:

- (1) The serial number of each NO_x allowance surrendered.
- (2) The calculations used to determine the quantity of NO_x allowances required to be surrendered.

(c) If the permittee does not comply with (b)(1)–(2), above, in a given year, then the permittee shall surrender, on or before December 31 of that year, three NO_x allowances for each NO_x allowance that was required to be surrendered in (b)(1)–(2), above. The surrendered NO_x allowances may be of current or later year vintage.

[Note: On July 6, 2011, EPA promulgated the Cross-State Air Pollution Rule (CSAPR) to replace CAIR. The CSAPR provisions of 40 CFR Part 97, Subpart AAAAA (relating to CSAPR NO_x Annual Trading Program), replaced the provisions of 40 CFR Part 96, Subpart AA (relating to CAIR NO_x Annual Trading Program General Provisions), and remain in effect. On October 26, 2016, EPA promulgated the CSAPR Update to establish the provisions of 40 CFR Part 97, Subpart EEEEE (relating to CSAPR NO_x Ozone Season Group 2 Trading Program), to replace the previously-established CAIR NO_x Ozone Season Trading Program and CSAPR NO_x Ozone Season Group 1 Trading Program for certain states, including Pennsylvania, beginning with the 2017 ozone season. On April 30, 2021, EPA promulgated the Revised CSAPR Update to establish the provisions of 40 CFR Part 97, Subpart GGGGG (relating to CSAPR NO_x Ozone Season Group 3 Trading Program), to replace the provisions of 40 CFR Part 97, Subpart EEEEE, for certain states, including Pennsylvania, beginning with the 2021 ozone season (though DEP will accept CSAPR NO_x Ozone Season Group 2 allowances of current year vintage from other states, if available). Accordingly, the permittee shall surrender CSAPR NO_x Annual allowances and either CSAPR NO_x Ozone Season Group 2 allowances or CSAPR NO_x Ozone Season Group 3 allowances, as defined in 40 CFR §§ 97.402, 97.802, and 97.1002, respectively, instead of the CAIR NO_x allowances and CAIR NO_x Ozone Season allowances indicated in 25 Pa. Code § 129.204(c), as the latter are no longer available.]

022 [25 Pa. Code §129.204]**Emission accountability.**

(a) If the combined allowable NO_x emissions for the engines of the reciprocating compressors during the ozone season exceed the combined actual NO_x emissions from the engines during the ozone season, the permittee may deduct the difference or any portion of the difference from the amount of actual NO_x emissions from an engine(s) subject to 25 Pa. Code § 129.204 at any of the permittee's other facilities (during the ozone season).

(b) If the combined allowable NO_x emissions for an engine(s) subject to 25 Pa. Code § 129.204 at any of the permittee's other facilities during the ozone season exceed the combined actual NO_x emissions from the respective engine(s) during the ozone season, the permittee may deduct the difference or any portion of the difference from the amount of actual NO_x emissions from the engines of the reciprocating compressors (during the ozone season).

**SECTION E. Source Group Restrictions.****# 023 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.205.]

For the purpose of determining the amount of CAIR NO_x Annual allowances and CAIR NO_x Ozone Season allowances to surrender pursuant to Condition # 014, Section E (under the Compressor Engine & Oxidation Catalyst source group), of this permit, the permittee may deduct 1.5 lbs NO_x/mWh of electricity or thermal power equivalent for each mWh of zero emission renewable energy produced at this facility, if the following conditions are met:

- (a) The zero emission renewable energy production is certified in a tradable renewable certificate.
- (b) The zero emission renewable energy was generated by a power source that produced zero emissions and used 100% renewable energy, such as solar or wind power, in producing the renewable energy. For hydropower, the power must be generated without the use of a dam.
- (c) The zero emission renewable energy power source was originally brought into production on or after December 11, 2004.
- (d) The zero emission renewable energy power source is located within the Southeast Pennsylvania air basin (i.e., the counties of Bucks, Chester, Delaware, Montgomery, and Philadelphia).
- (e) The permittee surrenders the tradable renewable certificate to the Department.
- (f) The permittee certifies that (a)–(e), above, have been satisfied.

[Note: Effective January 1, 2015, the TR replaced the CAIR. As such, the CAIR NO_x allowances and CAIR NO_x Ozone Season allowances indicated in 25 Pa. Code § 129.204(c) are no longer available. EPA has consented to the surrendering of TR NO_x Annual allowances and TR NO_x Ozone Season allowances as a compliance alternative to the surrender of CAIR NO_x allowances and CAIR NO_x Ozone Season allowances.]

**SECTION E. Source Group Restrictions.**

Group Name: COMPRESSOR ROD PACKING

Group Description: Reciprocating Compressor Rod Packing Conditions

Sources included in this group

ID	Name
101	RECIPROCATING COMPRESSOR 1
102	RECIPROCATING COMPRESSOR 2
103	RECIPROCATING COMPRESSOR 3

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

[Additional authority for this permit condition is also derived from §§ 60.5385a(d) and 60.5420a(c)(3), and 25 Pa. Code Chapter 122.]

The permittee shall maintain records of the following information for each reciprocating compressor:

- (a) The cumulative hours of operation or number of months since commencement of operation of the reciprocating compressor, or the most recent rod packing replacement, whichever is later.
- (b) The date and time of each rod packing replacement.
- (c) Any deviations from the rod packing replacement schedule specified in Condition # 004, Section E (under the Compressor Rod Packing source group), of this permit.

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

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 60.5385a(d) and 60.5420a(b)(1) and (4), and 25 Pa. Code Chapter 122.]

(a) The permittee shall submit annual reports for the reciprocating compressors containing the following information:

- (1) The general information indicated in Condition # 004(a)(1)–(8), Section D (under Source ID 400), of this permit.
- (2) The cumulative hours of operation or number of months since commencement of operation for each reciprocating compressor, or the most recent rod packing replacement, whichever is later.
- (3) Any deviations from the rod packing replacement schedule specified in Condition # 004, Section E (under the Compressor Rod Packing source group), of this permit, that occurred during the compliance period.

(b) The permittee shall submit an initial annual report no later than 90 days after the end of the initial compliance period, as determined in accordance with Condition # 003, Section E (under the Compressor Rod Packing source group), of this permit, and subsequent annual reports no later than the same date each year.

**SECTION E. Source Group Restrictions.****VI. WORK PRACTICE REQUIREMENTS.****# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 60.5385a(b)–(c), 60.5410a(c), 60.5415a(c), and 60.5420a(b); and 25 Pa. Code Chapter 122.]

The permittee shall demonstrate initial and continuous compliance for each reciprocating compressor by complying with the following requirements for each compliance period. The initial compliance period for each reciprocating compressor begins upon commencement of operation of the respective reciprocating compressor, and each compliance period lasts for a period of 1 year:

- (a) Continuously monitor the hours of operation or number of months since the last rod packing replacement.
- (b) Maintain records as required in Condition # 001, Section E (under the Compressor Rod Packing source group), of this permit.
- (c) Replace the rod packing in accordance with the schedule specified in Condition # 004, Section E (under the Compressor Rod Packing source group), of this permit.
- (d) Submit an initial and subsequent annual reports in accordance with the time frames specified in Condition # 002(b), Section E (under the Compressor Rod Packing source group), of this permit.

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

[Additional authority for this permit condition is also derived from 40 C.F.R. § 60.5385a(a)(1)–(2) and 25 Pa. Code Chapter 122.]

The permittee shall replace the rod packing for each reciprocating compressor on or before the compressor has operated for 26,000 hours or prior to 36 months from the date of the most recent rod packing replacement, or 36 months from the date of startup for a new compressor for which the rod packing has not yet been placed.

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this State Only facility.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
101	RECIPROCATING COMPRESSOR 1		
Emission Limit		Pollutant	
0.250	GRAMS/HP-Hr	Brake-Specific; From the Engine	CO
9.470	Tons/Yr	12-Month Rolling Sum, Calculated Monthly; From the Engines of Source IDs 101-103	CO
0.050	GRAMS/HP-Hr	Brake-Specific; From the Engine	Formaldehyde
2.060	Tons/Yr	12-Month Rolling Sum, Calculated Monthly; From the Engines of Source IDs 101-103	Formaldehyde
0.250	GRAMS/HP-Hr	Brake-Specific; As Propane, Excluding Formaldehyde; From the Engine	NMNEHC
8.690	Tons/Yr	12-Month Rolling Sum, Calculated Monthly; As Propane, Excluding Formaldehyde; From the Engines of Source IDs 101-103	NMNEHC
0.500	GRAMS/HP-Hr	Brake-Specific; As NO2; From the Engine	NOX
16.300	Tons/Yr	12-Month Rolling Sum, Calculated Monthly; From the Engines of Source IDs 101-103	NOX
0.040	gr/DRY FT3	Filterable; From the Engine	PM_FILT
102	RECIPROCATING COMPRESSOR 2		
Emission Limit		Pollutant	
0.250	GRAMS/HP-Hr	Brake-Specific; From the Engine	CO
9.470	Tons/Yr	12-Month Rolling Sum, Calculated Monthly; From the Engines of Source IDs 101-103	CO
0.050	GRAMS/HP-Hr	Brake-Specific; From the Engine	Formaldehyde
2.060	Tons/Yr	12-Month Rolling Sum, Calculated Monthly; From the Engines of Source IDs 101-103	Formaldehyde
0.250	GRAMS/HP-Hr	Brake-Specific; As Propane, Excluding Formaldehyde; From the Engine	NMNEHC
8.690	Tons/Yr	12-Month Rolling Sum, Calculated Monthly; As Propane, Excluding Formaldehyde; From the Engines of Source IDs 101-103	NMNEHC
0.500	GRAMS/HP-Hr	Brake-Specific; As NO2; From the Engine	NOX
16.300	Tons/Yr	12-Month Rolling Sum, Calculated Monthly; From the Engines of Source IDs 101-103	NOX
0.040	gr/DRY FT3	Filterable; From the Engine	PM_FILT
103	RECIPROCATING COMPRESSOR 3		
Emission Limit		Pollutant	
0.250	GRAMS/HP-Hr	Brake-Specific; From the Engine	CO
9.470	Tons/Yr	12-Month Rolling Sum, Calculated Monthly; From the Engines of Source IDs 101-103	CO
0.050	GRAMS/HP-Hr	Brake-Specific; From the Engine	Formaldehyde
2.060	Tons/Yr	12-Month Rolling Sum, Calculated Monthly; From the Engines of Source IDs 101-103	Formaldehyde
0.250	GRAMS/HP-Hr	Brake-Specific; As Propane, Excluding Formaldehyde; From the Engine	NMNEHC
8.690	Tons/Yr	12-Month Rolling Sum, Calculated Monthly; As Propane, Excluding Formaldehyde; From the Engines of Source IDs 101-103	NMNEHC
0.500	GRAMS/HP-Hr	Brake-Specific; As NO2; From the Engine	NOX
16.300	Tons/Yr	12-Month Rolling Sum, Calculated Monthly; From the Engines of Source IDs 101-103	NOX

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
0.040	gr/DRY FT3	Filterable; From the Engine	PM_FILT
300	PIGGING OPERATIONS		
Emission Limit		Pollutant	
0.500	Tons/Yr	Less Than; 12-Month Rolling Sum, Calculated Monthly; Any Individual HAP	Hazardous Air Pollutants
1.000	Tons/Yr	Less Than; 12-Month Rolling Sum, Calculated Monthly; Total HAPs	Hazardous Air Pollutants
2.700	Tons/Yr	Less Than; 12-Month Rolling Sum, Calculated Monthly	VOC
600	CUMMINS EMERGENCY GENERATOR SET		
Emission Limit		Pollutant	
2.750	Tons/OZNESEAS	From the Exempt Engine	NOX
6.600	Tons/Yr	12-Month Rolling Sum, Calculated Monthly; From the Exempt Engine	NOX
100.000	Lbs/Hr	From the Exempt Engine	NOX
1,000.000	Lbs/Day	From the Exempt Engine	NOX
0.040	gr/DRY FT3	Filterable; From the Exempt Engine	PM_FILT

Site Emission Restriction Summary

Emission Limit		Pollutant	
25.000	Tons/Yr	Less Than; 12-Month Rolling Sum, Calculated Monthly	NOX
25.000	Tons/Yr	Less Than; 12-Month Rolling Sum, Calculated Monthly	VOC
10.000	Tons/Yr	Less Than; 12-Month Rolling Sum, Calculated Monthly; Any Individual HAP	Hazardous Air Pollutants
25.000	Tons/Yr	Less Than; 12-Month Rolling Sum, Calculated Monthly; Total HAPs	Hazardous Air Pollutants

**SECTION H. Miscellaneous.**

ASP No. 1110193; AUTH No. 1478199, Date: August 2024:

(a) The previously issued Plan Approval No. 23-0225 serves as the basis for certain terms and conditions set forth in this operating permit.

(b) The following sources have been determined by the Department to be insignificant sources of air emissions, and therefore do not require additional limitations, monitoring, or recordkeeping. The determination does not exempt the sources from compliance with the conditions in Section C of the operating permit, or any applicable federal, state, or local regulations that may apply, and if required, the emissions shall be included in the emission inventory as per 25 Pa. Code, Chapter 135:

- One (1) unit of 1000 gallons produced fluids tank [containing 95% water and 5% condensate(oil)].
- One (1) unit of 500 gallons engine oil tank.
- One (1) unit of 500 gallons TEG tank [Containing 100% TEG (triethylene glycol)].
- Continuous bleed natural gas-driven pneumatic controllers are operated at a natural gas bleed rate which is less than 6 scfh (standard cubic feet per hour).



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