

# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AIR QUALITY PROGRAM

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Issue Date:	Effective Date:
Expiration Date:	

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

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

Plan Approval No. 23-0225

Federal Tax Id - Plant Code: 82-3224011-2 **Owner Information** Name: ADELPHIA GATEWAY LLC Mailing Address: 1415 WYCKOFF RD WALL, NJ 07719 Plant Information Plant: ADELPHIA PIPELINE/MARCUS HOOK COMPRESSOR STA Location: 23 **Delaware County** 23824 Lower Chichester Township SIC Code: 4923 Trans. & Utilities - Gas Transmission And Distribution Responsible Official Name: MARK F VALORI Title: VP Phone: (732) 938 - 1169 Plan Approval Contact Person Name: MARK F VALORI Title: VP Phone: (732) 938 - 1169 [Signature] JAMES D. REBARCHAK, SOUTHEAST REGION AIR PROGRAM MANAGER



# ADELPHIA PIPELINE/MARCUS HOOK COMPRESSOR STA



# Plan Approval Description

This plan approval is for the construction, operation, and maintenance of a new natural gas compressor station (with a design throughput of 250 million cubic feet per day) and metering station at an existing facility. The compressor station is intended to increase the pressure of natural gas from an existing pipeline from approximately 640 psig to 840 psig.





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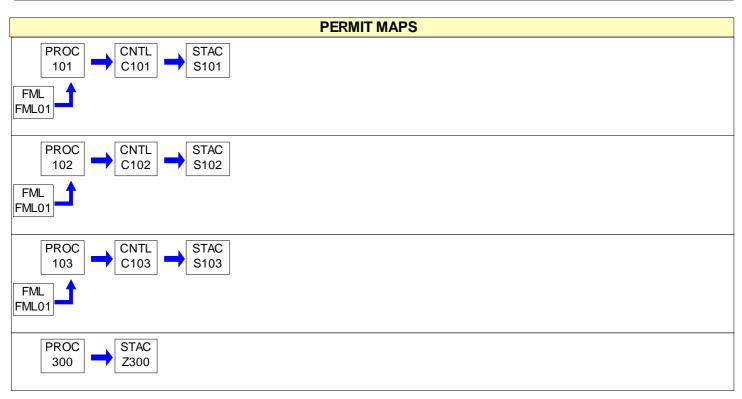
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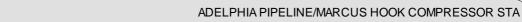




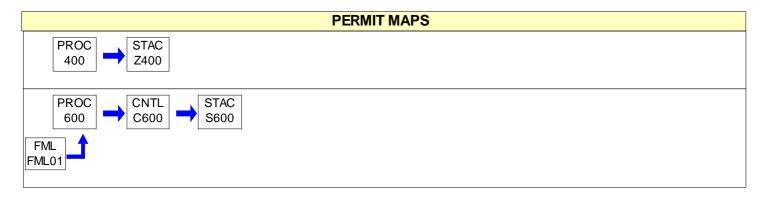
# **SECTION A.** Plan Approval Inventory List

Source	ID Source Name	Capacity/Throughp	out Fuel/Material
101	RECIPROCATING COMPRESSOR 1	14.060 MMBTU/H	IR
		13.654 MCF/HR	Natural Gas
102	RECIPROCATING COMPRESSOR 2	14.060 MMBTU/H	IR
		13.654 MCF/HR	Natural Gas
103	RECIPROCATING COMPRESSOR 3	14.060 MMBTU/H	IR
		13.654 MCF/HR	Natural Gas
300	PIGGING OPERATIONS		
400	FUGITIVE EMISSIONS COMPONENTS		
600	CUMMINS EMERGENCY GENERATOR SET	6.067 MMBTU/H	IR
		5.890 MCF/HR	Natural Gas
C101	RECIPROCATING COMPRESSOR 1 OXIDATION CATALYST		
C102	RECIPROCATING COMPRESSOR 2 OXIDATION CATALYST		
C103	RECIPROCATING COMPRESSOR 3 OXIDATION CATALYST		
C600	CUMMINS EMERGENCY GENERATOR SET NSCR THREE-WAY 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		















#### #001 [25 Pa. Code § 121.1]

#### **Definitions**

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

#### #002 [25 Pa. Code § 127.12b (a) (b)]

### **Future Adoption of Requirements**

The issuance of this plan approval does not prevent the future adoption by the Department of any rules, regulations or standards, or the issuance of orders necessary to comply with the requirements of the Federal Clean Air Act or the Pennsylvania Air Pollution Control Act, or to achieve or maintain ambient air quality standards. The issuance of this plan approval shall not be construed to limit the Department's enforcement authority.

#### #003 [25 Pa. Code § 127.12b]

#### **Plan Approval Temporary Operation**

This plan approval authorizes temporary operation of the source(s) covered by this plan approval provided the following conditions are met.

- (a) When construction, installation, modification, or reactivation is being conducted, the permittee shall provide written notice to the Department of the completion of the activity approved by this plan approval and the permittee's intent to commence operation at least five (5) working days prior to the completion of said activity. The notice shall state when the activity will be completed and when the permittee expects to commence operation. When the activity involves multiple sources on different time schedules, notice is required for the commencement of operation of each source.
- (b) Pursuant to 25 Pa. Code § 127.12b (d), temporary operation of the source(s) is authorized to facilitate the shakedown of sources and air cleaning devices, to permit operations pending the issuance of a permit under 25 Pa. Code Chapter 127, Subchapter F (relating to operating permits) or Subchapter G (relating to Title V operating permits) or to permit the evaluation of the air contaminant aspects of the source.
- (c) This plan approval authorizes a temporary operation period not to exceed 180 days from the date of commencement of operation, provided the Department receives notice from the permittee pursuant to paragraph (a), above.
- (d) The permittee may request an extension of the 180-day shakedown period if further evaluation of the air contamination aspects of the source(s) is necessary. The request for an extension shall be submitted, in writing, to the Department at least 15 days prior to the end of the initial 180-day shakedown period and shall provide a description of the compliance status of the source, a detailed schedule for establishing compliance, and the reasons compliance has not been established. This temporary operation period will be valid for a limited time and may be extended for additional limited periods, each not to exceed 180 days.
- (e) The notice submitted by the permittee pursuant to subpart (a) above, prior to the expiration of the plan approval, shall modify the plan approval expiration date on Page 1 of this plan approval. The new plan approval expiration date shall be 180 days from the date of commencement of operation.

#### #004 [25 Pa. Code § 127.12(a) (10)]

# **Content of Applications**

The permittee shall maintain and operate the sources and associated air cleaning devices in accordance with good engineering practice as described in the plan approval application submitted to the Department.

#### #005 [25 Pa. Code §§ 127.12(c) and (d) & 35 P.S. § 4013.2]

#### **Public Records and Confidential Information**

- (a) The records, reports or information obtained by the Department or referred to at public hearings shall be available to the public, except as provided in paragraph (b) of this condition.
- (b) Upon cause shown by the permittee that the records, reports or information, or a particular portion thereof, but not emission data, to which the Department has access under the act, if made public, would divulge production or sales figures or methods, processes or production unique to that person or would otherwise tend to affect adversely the





competitive position of that person by revealing trade secrets, including intellectual property rights, the Department will consider the record, report or information, or particular portion thereof confidential in the administration of the act. The Department will implement this section consistent with sections 112(d) and 114(c) of the Clean Air Act (42 U.S.C.A. § § 7412(d) and 7414(c)). Nothing in this section prevents disclosure of the report, record or information to Federal, State or local representatives as necessary for purposes of administration of Federal, State or local air pollution control laws, or when relevant in a proceeding under the act.

# #006 [25 Pa. Code § 127.12b]

# Plan Approval terms and conditions.

[Additional authority for this condition is derived from 25 Pa. Code Section 127.13]

- (a) This plan approval will be valid for a limited time, as specified by the expiration date contained on Page 1 of this plan approval. Except as provided in § § 127.11a and 127.215 (relating to reactivation of sources; and reactivation), at the end of the time, if the construction, modification, reactivation or installation has not been completed, a new plan approval application or an extension of the previous approval will be required.
- (b) If construction has commenced, but cannot be completed before the expiration of this plan approval, an extension of the plan approval must be obtained to continue construction. To allow adequate time for departmental action, a request for the extension shall be postmarked at least thirty (30) days prior to the expiration date. The request for an extension shall include the following:
  - (i) A justification for the extension,
  - (ii) A schedule for the completion of the construction

If construction has not commenced before the expiration of this plan approval, then a new plan approval application must be submitted and approval obtained before construction can commence.

(c) If the construction, modification or installation is not commenced within 18 months of the issuance of this plan approval or if there is more than an 18-month lapse in construction, modification or installation, a new plan approval application that meets the requirements of 25 Pa. Code Chapter 127, Subchapter B (related to plan approval requirements), Subchapter D (related to prevention of significant deterioration of air quality), and Subchapter E (related to new source review) shall be submitted. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified.

# #007 [25 Pa. Code § 127.32]

# **Transfer of Plan Approvals**

- (a) This plan approval may not be transferred from one person to another except when a change of ownership is demonstrated to the satisfaction of the Department and the Department approves the transfer of the plan approval in writing.
- (b) Section 127.12a (relating to compliance review) applies to a request for transfer of a plan approval. A compliance review form shall accompany the request.
- (c) This plan approval is valid only for the specific source and the specific location of the source as described in the application.

# #008 [25 Pa. Code § 127.12(4) & 35 P.S. § 4008 & § 114 of the CAA]

#### **Inspection and Entry**

- (a) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act.
- (b) The permittee shall also allow the Department to have access at reasonable times to said sources and associated air cleaning devices with such measuring and recording equipment, including equipment recording visual observations, as the Department deems necessary and proper for performing its duties and for the effective enforcement of the Air Pollution Control Act and regulations adopted under the act.





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

### #009 [25 Pa. Code 127.13a]

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## **Plan Approval Changes for Cause**

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

- (a) The permittee constructs or operates the source subject to the plan approval in violation of the act, the Clean Air Act, the regulations promulgated under the act or the Clean Air Act, a plan approval or permit or in a manner that causes air pollution.
- (b) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.
- (c) The permittee fails to submit a report required by this plan approval.
- (d) The Environmental Protection Agency determines that this plan approval is not in compliance with the Clean Air Act or the regulations thereunder.

# #010 [25 Pa. Code §§ 121.9 & 127.216]

#### Circumvention

- (a) The permittee, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.
- (b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this plan approval, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

# #011 [25 Pa. Code § 127.12c]

# **Submissions**

Reports, test data, monitoring data, notifications shall be submitted to the:

Regional Air Program Manager
PA Department of Environmental Protection
(At the address given on the plan approval transmittal letter or otherwise notified)

# #012 [25 Pa. Code § 127.12(9) & 40 CFR Part 68]

#### **Risk Management**

- (a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).
- (b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the listed threshold quantity at the facility. The permittee shall submit the RMP to the Environmental Protection Agency according to the following schedule and requirements:
- (1) The permittee shall submit the first RMP to a central point specified by the Environmental Protection Agency no later than the latest of the following:





- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.
- (2) The permittee shall submit any additional relevant information requested by the Department or the Environmental Protection Agency concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.
- (3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.
- (c) As used in this plan approval condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

# #013 [25 Pa. Code § 127.25]

### **Compliance Requirement**

A person may not cause or permit the operation of a source subject to § 127.11 (relating to plan approval requirements), unless the source and air cleaning devices identified in the application for the plan approval and the plan approval issued to the source, are operated and maintained in accordance with specifications in the application and conditions in the plan approval issued by the Department. A person may not cause or permit the operation of an air contamination source subject to this chapter in a manner inconsistent with good operating practices.







# 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

The permittee shall ensure that emission into the outdoor atmosphere of fugitive air contaminants does not occur from any source, except for the following:

- (a) Construction or demolition of buildings or structures.
- (b) Grading, paving, and maintenance of roads and streets.
- (c) Use of roads and streets. Emissions from material in or on trucks, railroad cars, and other vehicular equipment are not considered as emissions from use of roads and streets.
  - (d) Clearing of land.
  - (e) Stockpiling of materials.
- (f) Open burning operations, as specified in 25 Pa. Code § 129.14 (see Condition # 010(a)–(g), Section C, of this plan approval).
  - (g) Blasting in open pit mines. Emissions from drilling are not considered as emissions from blasting.
- (h) Coke oven batteries, provided that the fugitive air contaminant emissions from any coke oven battery comply with the standards for visible fugitive emissions in 25 Pa. Code §§ 123.44 and 129.15.
- (i) Sources and classes of sources other than those indicated in (a)–(h), above, for which the operator has obtained a determination from the Department, in accordance with 25 Pa. Code § 123.1(b), that fugitive air contaminant emissions from the sources, after appropriate controls, meet the following requirements:
  - (1) The emissions are of minor significance with respect to causing air pollution.
- (2) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

### # 003 [25 Pa. Code §123.2]

# Fugitive particulate matter

The permittee shall ensure that emission into the outdoor atmosphere of fugitive particulate matter (PM) from a source(s) specified in Condition # 002(a)–(i), Section C, of this plan approval, occurs in such a manner that the emission is not visible at the point it passes 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 emission restrictions specified in 25 Pa. Code § 123.41 (see Condition # 005(a)–(b), Section C, of this plan approval) shall not apply to a visible air contaminant emission in either of the following instances:

- (a) When the presence of uncombined water is the only reason for failure of the emission to meet the restrictions.
- (b) When the emission results from a source(s) specified in 25 Pa. Code § 123.1 (see Condition # 002(a)–(i), Section C, of this plan approval).

# # 007 [25 Pa. Code §127.12b]

#### Plan approval 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.

### # 008 [25 Pa. Code §127.12b]

#### Plan approval 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.

#### # 009 [25 Pa. Code §127.12b]

# Plan approval 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 §127.12b]

# Plan approval terms and conditions.

(a) If, at any time, the Department has cause to believe that air contaminant emissions from any source(s) listed in Section A, of this plan approval, may be 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, the permittee shall be required to perform whatever test(s) is deemed necessary by the Department to determine the actual emission rate(s).







(b) The permittee shall perform any test(s) required in (a), above, in accordance with the provisions of 25 Pa. Code Chapter 139, when applicable, and any restrictions or limitations established by the Department at such time as it notifies the permittee that testing is required.

#### 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 §127.12b]

# Plan approval 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 plan approval).
- (2) Visible air contaminant emissions (as per 25 Pa. Code §§ 123.41 and 123.42; see Conditions # 005–006, Section C, of this plan approval, respectively).
- (3) Fugitive air contaminant emissions (as per 25 Pa. Code §§ 123.1 and 123.2; see Conditions # 002–003, Section C, of this plan approval, 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 §127.12b]

# Plan approval terms and conditions.

The permittee shall calculate the following emissions from this facility on a monthly and 12-month rolling basis, using the Department's Midstream Air Emissions Worksheet (accessible at https://www.dep.pa.gov/business/air/baq/businesstopics/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 less than 10 μm in aerodynamic diameter (PM-10) emissions.
- (e) The total PM less than 2.5  $\mu m$  in aerodynamic diameter (PM-2.5) emissions.
- (f) The total sulfur oxides (SOx) emissions.

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- (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 §127.12b]

# Plan approval terms and conditions.

[Additional authority for this plan approval 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 plan approval 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 plan approval condition assures compliance with 40 C.F.R. § 60.7(f).]

### # 016 [25 Pa. Code §127.12b]

# Plan approval 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 plan approval. 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 §127.12b]

### Plan approval 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 §127.12b]

# Plan approval terms and conditions.

The permittee shall maintain records of the following emissions from this facility 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 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 §127.12b]

Plan approval terms and conditions.

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

- (a) The permittee shall, within 2 hours of discovery of any occurrence, notify the Department, at (484) 250-5920, of any malfunction(s) of a source(s) and/or associated air pollution control device(s) listed in Section A, of this plan approval, that results in, or may possibly result in, 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.
- (b) The permittee shall immediately report to the Department, by telephone at the above number, any malfunction(s) that occurs at this facility and poses an imminent danger to public health, safety, welfare, and the environment, or would violate permit conditions if the source(s) and/or associated air pollution control device(s) were to continue to operate after the malfunction(s).
- (c) The permittee shall submit, to the Department, a written report within 2 working days following the notification of the incident. The report shall include, at a minimum, the following:
  - (1) A description of the malfunction(s).
  - (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 emission(s).
  - (6) Any corrective action(s) taken.

# # 020 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Additional authority for this plan approval condition is also derived from 40 C.F.R. 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 all applicable provisions of the Clean Air Act, 40 C.F.R. 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) that meets all applicable provisions of Section 112(r) of the Clean Air Act, 40 C.F.R. Part 68, and the Federal Chemical Safety Information, Site Security, and Fuels Regulatory Relief Act when a regulated substance listed in 40 C.F.R. § 68.130 is present in a process in more than the threshold quantity at this facility. The permittee shall submit the RMP to the EPA 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 (3) years after the date on which a regulated substance is first listed in 40 C.F.R. § 68.130.
    - (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 C.F.R. § 68.190.
- (3) The permittee shall certify that the RMP is accurate and complete in accordance with all applicable provisions of 40 C.F.R. Part 68, including a checklist addressing the required elements of a complete RMP.
- (c) As used in this permit condition, the term "process" shall be as defined in 40 C.F.R. § 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 C.F.R. Part 68, as part of the certification required under this permit, the permittee shall perform the following:
- (1) Submit a compliance schedule for satisfying all applicable provisions of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. § 68.10(a).
- (2) Certify that the facility is in compliance with all applicable provisions of 40 C.F.R. Part 68 including the registration and submission of the RMP.
- (e) If the facility is subject to 40 C.F.R. Part 68, the permittee shall maintain records supporting the implementation of an accidental release program for 5 years in accordance with 40 C.F.R. § 68.200.
- (f) When the facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and 40 C.F.R. Part 68, appropriate enforcement action will be taken by the Department if the permittee fails to register and submit the RMP or a revised plan pursuant to 40 C.F.R. Part 68.

### # 021 [25 Pa. Code §127.12b]

# Plan approval terms and conditions.

[Additional authority for this plan approval 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
Office of Air Enforcement and Compliance Assistance (3AP20)
U.S. EPA, Region III
1650 Arch Street
Philadelphia, PA 19103-2029







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

# # 022 [25 Pa. Code §127.12b]

# Plan approval terms and conditions.

Within 30 days after the issuance date of this plan approval, the permittee shall submit, to the Department for approval, the proposed recordkeeping formats required in this plan approval.

# # 023 [25 Pa. Code §135.3]

### Reporting

- (a) If the permittee has been previously advised by the Department to submit a source report, the permittee shall submit by March 1, of each year, a source report for the preceding calendar year. The report shall include information from each previously-reported source(s), a new source(s) that was first operated during the preceding calendar year, and each source(s) modified during the same period that was not previously reported.
- (b) The permittee may request an extension of time from the Department for the filing of a source report, and the Department may grant the extension for reasonable cause.

### VI. WORK PRACTICE REQUIREMENTS.

# # 024 [25 Pa. Code §127.12b]

# Plan approval terms and conditions.

[Additional authority for this plan approval 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)–(i), Section C, of this plan approval), 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.

# # 025 [25 Pa. Code §127.12b]

# Plan approval terms and conditions.

[Additional authority for this plan approval 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 plan approval, 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.

# # 026 [25 Pa. Code §127.12b]

#### Plan approval 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 restrictions, if at any time the operation of a source(s) listed in Section A, of this plan approval, 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.







# VII. ADDITIONAL REQUIREMENTS.

# # 027 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

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

- (a) 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.
- (b) The permittee shall construct, operate, and maintain this pipeline natural gas compressor station in accordance with the plans submitted with the application and as approved herein.

# VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this plan approval including Section B (relating to Plan Approval General Requirements).

# IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.





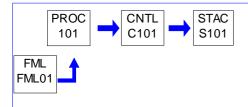
Source ID: 101 Source Name: RECIPROCATING COMPRESSOR 1

> 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



#### RESTRICTIONS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

#### **TESTING REQUIREMENTS.**

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

#### MONITORING REQUIREMENTS. III.

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

# RECORDKEEPING REQUIREMENTS.

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

#### REPORTING REQUIREMENTS.

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

# **WORK PRACTICE REQUIREMENTS.**

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

#### ADDITIONAL REQUIREMENTS. VII.

# 001 [25 Pa. Code §127.12b]

Plan approval 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., or equivalent. The engine shall be rated at 1,875 bhp power output, and have a displacement of 10.60 liters per cylinder.

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(c) CO, formaldehyde, and NMNEHC emissions from the engine shall be controlled by an oxidation catalyst (Source ID C101), model no. RT-3615-Z, manufactured by Emit Technologies, Inc., or equivalent.





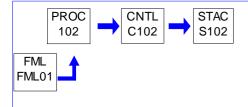
Source ID: 102 Source Name: RECIPROCATING COMPRESSOR 2

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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

#### VII. ADDITIONAL REQUIREMENTS.

# 001 [25 Pa. Code §127.12b]

Plan approval 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., or equivalent. The engine shall be rated at 1,875 bhp power output, and have a displacement of 10.60 liters per cylinder.





(c) CO, formaldehyde, and NMNEHC emissions from the engine shall be controlled by an oxidation catalyst (Source ID C102), model no. RT-3615-Z, manufactured by Emit Technologies, Inc., or equivalent.

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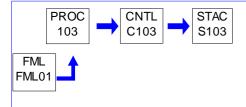
Source ID: 103 Source Name: RECIPROCATING COMPRESSOR 3

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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

#### VII. ADDITIONAL REQUIREMENTS.

# 001 [25 Pa. Code §127.12b]

Plan approval 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., or equivalent. The engine shall be rated at 1,875 bhp power output, and have a displacement of 10.60 liters per cylinder.





(c) CO, formaldehyde, and NMNEHC emissions from the engine shall be controlled by an oxidation catalyst (Source ID C102), model no. RT-3615-Z, manufactured by Emit Technologies, Inc., or equivalent.

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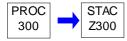






Source ID: 300 Source Name: PIGGING OPERATIONS

Source Capacity/Throughput:



#### I. RESTRICTIONS.

# **Emission Restriction(s).**

#### # 001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

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

Pollutant	Tons/yr	
Methane	200	
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.

#### **TESTING REQUIREMENTS.**

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

#### III. MONITORING REQUIREMENTS.

#### # 002 [25 Pa. Code §127.12b]

# Plan approval 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/businesstopics/emission/pages/default.aspx) or other Department-approved method(s):

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

# IV. RECORDKEEPING REQUIREMENTS.

#### # 003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

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

- (a) The identification, location, and date of construction of each pig launcher and/or receiver.
- (b) The following for each pigging operation:







- (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 §127.12b]

### Plan approval 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 plan approval including Section B (Plan Approval General Requirements).

# VI. WORK PRACTICE REQUIREMENTS.

# 005 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

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

### VII. ADDITIONAL REQUIREMENTS.

# # 006 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

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

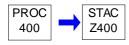
- (a) Pigging blowdown.
- (b) Two new pig launchers/receivers at a new meter station.





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 plan approval including Section B (Plan Approval General Requirements).

#### II. TESTING REQUIREMENTS.

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

#### III. MONITORING REQUIREMENTS.

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

#### IV. RECORDKEEPING REQUIREMENTS.

# 001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

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

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 plan approval.

# 002 [25 Pa. Code §127.12b]

Plan approval 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 plan approval.
  - (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.
      - (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 plan approval), 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 §127.12b]

## Plan approval terms and conditions.

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

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

- (a) The facility name and location.
- (b) The plan approval 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:
  - (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 plan approval.
  - (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.
      - (B) The repair methods applied.
- (ii) The tagging or digital photographing of each fugitive emissions component not repaired during the monitoring survey 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 plan approval), 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.

# V. REPORTING REQUIREMENTS.

# # 004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Additional authority for this plan approval 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 plan approval number.
    - (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 plan approval.
- (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 plan approval, and subsequent annual reports no later than the same date each year.



#### VI. WORK PRACTICE REQUIREMENTS.

23-0225

#### # 005 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Additional authority for this plan approval 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 plan approval (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 plan approval.
- (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 plan approval.
- (d) Repair fugitive emissions components in accordance with the fugitive emissions monitoring plan and Condition # 010, Section D (under Source ID 400), of this plan approval.
- (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 plan approval.

# # 006 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

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



- (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 plan approval.
- (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 plan approval. The time frame for maintaining the records shall comply with Condition # 016, Section C, of this plan approval.
  - (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 1/4-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 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 §127.12b]

#### Plan approval 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 plan approval.

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- (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 manufacturerrecommended procedures, as required by the test method, or a Department-approved method.

# 008 [25 Pa. Code §127.12b]

Plan approval 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 §127.12b]

Plan approval terms and conditions.

[Additional authority for this plan approval 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 plan approval.
- (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.
- (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 §127.12b]

Plan approval terms and conditions.

[Additional authority for this plan approval condition is also derived from 40 C.F.R. § 60.5397a(a) and (h)(2) and (3)(i), 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 plan approval) 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 plan approval condition assures compliance with 40 C.F.R. § 60.5397a(h)(1).]

#### VII. ADDITIONAL REQUIREMENTS.

### # 011 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Additional authority for this plan approval 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.
- (2) Any visible emissions detected by an OGI camera calibrated according to 40 C.F.R. § 60.18 and a detection sensitivity level of 60 grams/hour.
- (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 plan approval) 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 plan approval condition.]

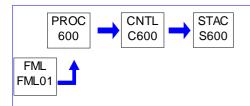




Source ID: 600 Source Name: CUMMINS EMERGENCY GENERATOR SET

Source Capacity/Throughput: 6.067 MMBTU/HR

5.890 MCF/HR Natural Gas



### I. RESTRICTIONS.

# **Emission Restriction(s).**

# # 001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

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

The permittee shall ensure that emission into the outdoor atmosphere of the following pollutants from the exempt engine of this emergency generator set does not exceed the following emission standards<sup>1</sup>:

Pollutant	g/bhp-hr	ppmv, dry basis, corrected to 15% oxygen (O2)
CO	4.0	540
NOx	2.0	160
VOCs	1.0	86

NOx = NOx, as nitrogen dioxide (NO2). VOCs = VOCs, excluding formaldehyde.

The permittee may comply with the emission standards in either set of units (i.e., same set of units for all pollutants).

# # 002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall ensure that the emission into the outdoor atmosphere of NOx 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.

# # 003 [25 Pa. Code §127.12b]

Plan approval 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).

# # 004 [25 Pa. Code §127.12b]

Plan approval 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 plan approval condition assures compliance with 25 Pa. Code § 123.21(b).]

# Operation Hours Restriction(s).

# # 005 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Additional authority for this plan approval 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:
  - (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 plan approval 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.]

# Control Device Efficiency Restriction(s).

# # 006 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall ensure that emissions from the exempt engine of this emergency generator set proceed through the associated non-selective catalytic reduction (NSCR) three-way catalyst (Source ID C600) before exhausting into the outdoor atmosphere.

# II. TESTING REQUIREMENTS.

#### # 007 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

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

- (a) Within 180 days after the commencement of operation of this emergency generator set, and every 3 years or 8,760 hours of total operating time thereafter (whichever comes first), the permittee shall perform a stack test for the engine of the emergency generator set, as follows:
  - (1) In accordance with the provisions of 25 Pa. Code Chapter 139.







- (2) In accordance with the provisions of 40 C.F.R. §§ 60.8 and 60.4244 and Part 60, Subpart JJJJ, Table 2 (including for exhaust flowrate and moisture content).
- (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 extension for reasonable cause.
- (f) The results of the stack test shall be used to demonstrate compliance with the g/bhp-hr and/or ppmv, dry basis, corrected to 15% O2 emission standards specified in Condition # 001, Section D (under Source ID 600), of this Plan Approval.

### III. MONITORING REQUIREMENTS.

# # 008 [25 Pa. Code §127.12b]

Plan approval 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.

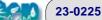
# # 009 [25 Pa. Code §127.12b]

# Plan approval 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 NOx 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







# SECTION D. Source Level Plan Approval Requirements

#### IV. RECORDKEEPING REQUIREMENTS.

### # 010 [25 Pa. Code §127.12b]

Plan approval 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.
- (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.

# # 011 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Additional authority for this plan approval 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 and associated NSCR three-way catalyst (Source ID C600). 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 NSCR three-way catalyst replaced, if applicable.

# # 012 [25 Pa. Code §127.12b]

Plan approval 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 NOx 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.

# # 013 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Additional authority plan approval 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:







#### SECTION D. **Source Level Plan Approval Requirements**

- (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).
- (7) The displacement.
- (d) The type of emission control equipment used.

### VI. WORK PRACTICE REQUIREMENTS.

#### # 014 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Additional authority for this plan approval 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, the following equipment for this emergency generator

- (a) A non-resettable hour meter.
- (b) An air-to-fuel ratio controller for the NSCR three-way catalyst (Source ID C600) associated with the exempt engine.

#### # 015 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall replace the NSCR three-way catalyst (Source ID C600) associated with the exempt engine of this emergency generator set on or before every 2 years from the date of commencement of operation or most recent catalyst replacement, or as needed.

### VII. ADDITIONAL REQUIREMENTS.

#### #016 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

- (a) This source shall consist of an emergency generator set, model no. C450N6, manufactured by Cummins, Inc., or equivalent. The emergency generator set shall be rated at 450 ekW power output.
- (b) The emergency generator set shall be equipped with a 12-cylinder, natural gas-fired (SI), (exempt,) reciprocating IC engine, model no. GTA28, also manufactured by Cummins, Inc., or equivalent. The engine shall be rated at 701 bhp power output, and have a displacement of 2.337 liters per cylinder.
- (c) CO, NOx, and VOC emissions from the engine shall be controlled by two units of a NSCR three-way catalyst (Source ID C600), part no. SP-NX-12-08F-EN1, manufactured by MIRATECH Corp., or equivalent.

#### # 017 [25 Pa. Code §127.12b]

Plan approval 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. 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

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# SECTION D. Source Level Plan Approval Requirements

electronic reporting is not available, a copy shall be forwarded to:

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

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

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<sup>&</sup>lt;sup>1</sup> 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.







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 §127.12b]

# Plan approval terms and conditions.

[Additional authority for this plan approval 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
СО	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 plan approval condition assures compliance with 40 C.F.R. Part 60, Subpart JJJJ, Table 1.]

#### # 002 [25 Pa. Code §127.12b]

# Plan approval 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/y
СО	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 §127.12b]

# Plan approval 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).







# Fuel Restriction(s).

# 004 [25 Pa. Code §127.12b]

Plan approval 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 plan approval condition assures compliance with 25 Pa. Code § 123.21(b).]

# Control Device Efficiency Restriction(s).

# 005 [25 Pa. Code §127.12b]

Plan approval 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 §127.12b]

Plan approval terms and conditions.

[Additional authority for this plan approval 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) Within 180 days after the commencement of operation of each reciprocating compressor, and 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 plan approval, the permittee shall perform a stack test for the engine of each reciprocating compressor, 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 NOx 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







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 plan approval.

## # 007 [25 Pa. Code §127.12b]

## Plan approval terms and conditions.

[Additional authority for this plan approval 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) 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 NOx 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 NOx emission standards specified in Condition # 001, Section E (under the Compressor Engine & Oxidation Catalyst source group), of this plan approval. 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 plan approval, 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.)

## III. MONITORING REQUIREMENTS.

# # 008 [25 Pa. Code §127.12b]

## Plan approval 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 §127.12b]

# Plan approval 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):

<sup>&</sup>lt;sup>1</sup> 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 plan approval.







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

#### IV. RECORDKEEPING REQUIREMENTS.

# # 010 [25 Pa. Code §127.12b]

### Plan approval 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 §127.12b]

# Plan approval terms and conditions.

[Additional authority for this plan approval 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 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 §127.12b]

### Plan approval 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 §127.12b]

#### Plan approval 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 NOx emissions.
- (d) The NMNEHC emissions.







### V. REPORTING REQUIREMENTS.

### # 014 [25 Pa. Code §127.12b]

# Plan approval terms and conditions.

[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).
  - (7) The displacement.
- (d) The type of emission control equipment used.

# VI. WORK PRACTICE REQUIREMENTS.

# # 015 [25 Pa. Code §127.12b]

### Plan approval 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 §127.12b]

## Plan approval 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 §127.12b]

# Plan approval 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 §127.12b]

# Plan approval 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.<sup>2</sup> 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:

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<sup>&</sup>lt;sup>2</sup> 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:

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

(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.

## [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 plan approval.
- (c) The emission rate of 2.3 g/bhp-hr.

#### # 021 [25 Pa. Code §127.12b]

### Plan approval terms and conditions.

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

- (a) The permittee shall surrender to the Department one Clean Air Interstate Rule (CAIR) NOx Annual allowance and one CAIR NOx Ozone Season allowance, as defined in 40 C.F.R. §§ 96.102 and 96.302, respectively, for each ton of NOx 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 plan approval, respectively. The surrendered NOx allowances shall be of current year vintage. For the purpose of determining the amount of NOx 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 NOx allowances required in (a), above, to the Department's designated NOx allowance tracking system account and submit the following information to the Department, in writing:
  - (1) The serial number of each NOx allowance surrendered.
  - (2) The calculations used to determine the quantity of NOx 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 NOx allowances for each NOx allowance that was required to be surrendered in (b)(1)–(2), above. The surrendered NOx allowances may be of current or later year vintage.

[Note: Effective January 1, 2015, the Transport Rule (TR), as codified in 40 C.F.R. Part 97, Subparts AAAAA and BBBBB, replaced the CAIR, as codified in 40 C.F.R. Part 96, Subparts AA and AAAA. As such, the CAIR NOx allowances and CAIR NOx Ozone Season allowances indicated in 25 Pa. Code § 129.204(c) are no longer available. EPA has consented to the surrendering of TR NOx Annual allowances and TR NOx Ozone Season allowances, as defined in 40 C.F.R. §§ 97.402 and







97.502, respectively, as a compliance alternative to the surrender of CAIR NOx allowances and CAIR NOx Ozone Season allowances.]

### # 022 [25 Pa. Code §129.204]

# **Emission accountability.**

- (a) If the combined allowable NOx emissions for the engines of the reciprocating compressors during the ozone season exceed the combined actual NOx 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 NOx 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 NOx 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 NOx 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 NOx emissions from the engines of the reciprocating compressors (during the ozone season).

## # 023 [25 Pa. Code §127.12b]

### Plan approval terms and conditions.

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

For the purpose of determining the amount of CAIR NOx Annual allowances and CAIR NOx Ozone Season allowances to surrender pursuant to Condition # 014, Section E (under the Compressor Engine & Oxidation Catalyst source group), of this plan approval, the permittee may deduct 1.5 lbs NOx/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 NOx allowances and CAIR NOx Ozone Season allowances indicated in 25 Pa. Code § 129.204(c) are no longer available. EPA has consented to the surrendering of TR NOx Annual allowances and TR NOx Ozone Season allowances as a compliance alternative to the surrender of CAIR NOx allowances and CAIR NOx Ozone Season allowances.]







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 plan approval including Section B (Plan Approval General Requirements).

# II. TESTING REQUIREMENTS.

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

#### MONITORING REQUIREMENTS.

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

#### IV. RECORDKEEPING REQUIREMENTS.

#### [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Additional authority for this plan approval 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 plan approval.

#### V. REPORTING REQUIREMENTS.

#### # 002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Additional authority for this plan approval 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 plan approval.
- (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 plan approval, 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 plan approval, and subsequent annual reports no later than the same date each year.







# VI. WORK PRACTICE REQUIREMENTS.

#### # 003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Additional authority for this plan approval 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 plan approval.
- (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 plan approval.
- (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 plan approval.

# [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Additional authority for this plan approval 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 hours of operation reaches 26,000 hours or the number of months since the most recent rod packing replacement reaches 36 months.

#### VII. ADDITIONAL REQUIREMENTS.

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





# **SECTION F.** Alternative Operation Requirements.

No Alternative Operations exist for this Plan Approval 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	NMHC
8.690	Tons/Yr	12-Month Rolling Sum, Calculated Monthly; As Propane, Excluding Formaldehyde; From the Engines of Source IDs 101–103	NMHC
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	TSP

#### 102 RECIPROCATING COMPRESSOR 2

<b>Emission Limit</b>			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	NMHC
8.690	Tons/Yr	12-Month Rolling Sum, Calculated Monthly; As Propane, Excluding Formaldehyde; From the Engines of Source IDs 101–103	NMHC
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	TSP

#### **RECIPROCATING COMPRESSOR 3** 103

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	NMHC
8.690	Tons/Yr	12-Month Rolling Sum, Calculated Monthly, As Propane, Excluding Formaldehyde; From the Engines of Source IDs 101–103	NMHC
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.

	S	Source Id	Source Description			
0.040 gr/DRY FT3 Filterable; From the Engine TSP		0.040	gr/DRY FT3	Filterable; From the Engine	TSP	

# 300 PIGGING OPERATIONS

<b>Emission Limit</b>	Limit Pollutant		
0.500	Tons/Yr	Less Than; 12-Month Rolling Sum,	Hazardous Air Pollutants
		Calculated Monthly; Any Individual HAP	
1.000	Tons/Yr	Less Than; 12-Month Rolling Sum,	Hazardous Air Pollutants
		Calculated Monthly; Total HAPs	
200.000	Tons/Yr	Less Than; 12-Month Rolling Sum,	Methane
		Calculated Monthly	
2.700	Tons/Yr	Less Than; 12-Month Rolling Sum,	VOC
		Calculated Monthly	

# 600 CUMMINS EMERGENCY GENERATOR SET

nission Limit			Pollutant
4.000	GRAMS/HP-Hr	Brake-Specific; From the Exempt Engine	CO
540.000	PPMV	Dry Basis, Corrected to 15% O2; From the Exempt Engine	CO
2.000	GRAMS/HP-Hr	Brake-Specific; As NO2; From the Exempt Engine	NOX
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
160.000	PPMV	Dry Basis, Corrected to 15% O2; As NO2; 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	TSP
1.000	GRAMS/HP-Hr	Brake-Specific; Excluding Formaldehyde; From the Exempt Engine	VOC
86.000	PPMV	Dry Basis, Corrected to 15% O2; Excluding Formaldehyde; From the Exempt Engine	VOC

# **Site Emission Restriction Summary**

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





**SECTION G.** Emission Restriction Summary.

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# **SECTION H.** Miscellaneous.

The plant address is: 1111 West Ridge Road, Linwood, PA 19061.





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