

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

GENERAL PLAN APPROVAL AND/OR GENERAL OPERATING PERMIT
BAQ-GPA/GP-5

Natural Gas Compression and/or Processing Facilities

SECTION A. GENERAL CONDITIONS

1. Statutory/Regulatory Authority and General Description

In accordance with Section 6.1(f) of the Air Pollution Control Act ("APCA"), 35 P.S. § 4006.1(f) and 25 *Pa. Code* Chapter 127, Subchapter H (relating to general plan approvals and general operating permits), the Department of Environmental Protection (hereinafter referred to as "Department" or "DEP") hereby issues this General Plan Approval and/or General Operating Permit ("General Permit" or "GP-5") for natural gas, compression and/or processing facilities (hereinafter referred to as "facility") constructed or operating in this Commonwealth.

2. Definitions

Words and terms that are not otherwise defined in this General Permit shall have the meanings set forth in Section 3 of the APCA (35 P.S. § 4003) and Title 25, Article III including 25 *Pa. Code* § 121.1 (relating to definitions) unless the context indicates otherwise. The meanings set forth in applicable definitions codified in the Federal Code of Regulations including 40 CFR Part 60 Subparts Kb, KKK, LLL, JJJJ, KKKK, and OOOO or 40 CFR Part 63 Subparts HH and ZZZZ shall also apply to this General Permit.

Coal bed methane – Methane that is released from the coal and surrounding rock strata.

Natural gas compression and/or processing facility – A facility that produces, compresses and/or processes natural gas, coal bed methane, or gob gas starting with gas dehydration, compression, fractionation, and storage.

3. Applicability/Scope

- (a) This General Permit authorizes the construction, modification, and/or operation of natural gas compression and/or a gas processing facility. The applicability of this General Permit may include any of the following:
 - (i) Natural gas-fired spark ignition internal combustion engines (hereinafter referred to as "engine").
 - (ii) Natural gas-fired simple cycle turbines (hereinafter referred to as "turbine").

- (iii) Centrifugal compressors.
 - (iv) Storage vessels/tanks.
 - (v) Glycol dehydration units and associated equipment including Gas-Condensate-Glycol ("GCG") separators (Flash tank separators).
 - (vi) Natural gas fractionation process units (such as De-propanizer, De-ethanizer, De-butanizer).
 - (vii) Equipment leaks.
 - (viii) Pneumatic controllers.
 - (ix) Sweetening units.
- (b) If a source is exempted from plan approval requirements under 25 *Pa. Code* § 127.14 (relating to exemptions), the authorization to use this GP-5 may be requested for the operation of the source.
- (c) If any source located at the natural gas, compression and/or processing facility cannot be regulated under this General Permit, a plan approval and/or an operating permit issued in accordance with 25 *Pa. Code*, Chapter 127, Subchapter B (relating to plan approval requirements) and/or Subchapter F (relating to operating permit requirements) will be required.

4. Prohibited Use of GP-5

GP-5 may not be used for the construction, modification or operation of any of the following air contamination sources:

- (a) A proposed source located at a Title V facility.
- (b) A proposed source that is subject to Title V permitting requirements specified in 25 *Pa. Code* Chapter 127, Subchapters F and G, prevention of significant deterioration and nonattainment new source review requirements specified in 25 *Pa. Code* Chapter 127, Subchapters D (relating to prevention of significant deterioration) or E (relating to new source review).
- (c) Any engine or turbine that is used as a "peak shaving engine generator" or source participating in an Emergency and Economic Load Response Program.
- (d) Any engine or turbine that is used on a natural gas transmission line. Transmission line means a pipeline, other than a gathering line, that transports gas from a gathering line or storage facility to a distribution center, storage facility, or large volume customer that is not downstream from a distribution center.

5. General Plan Approval Best Available Technology Requirement

This General Permit establishes Best Available Technology ("BAT") requirements and authorizes the construction or modification of a natural gas compression and/or processing facility and any air cleaning devices that meet the BAT requirements established under 25 *Pa. Code* §§ 127.1 and 127.12(a)(5).

The owner or operator of any existing facility for which a plan approval was previously issued pursuant to 25 *Pa. Code* § 127.11 (relating to plan approval requirements) shall continue to comply with the BAT requirements established in the previously issued plan approval if they are more stringent than the BAT requirements established in this General Permit.

6. General Operating Permit Requirements

Any facility or air contamination source that is constructed or modified under this General Permit may be operated on a temporary basis to facilitate shakedown of sources and air cleaning devices provided that the owner or operator notifies the Department in accordance with Section A, Condition 11 (relating to notice requirements) of this General Permit.

7. Municipal Notifications

A facility owner or operator proposing to use this General Permit shall notify the local municipality and county where the air pollution source is to be located that the applicant has applied for an authorization to use GP-5. The notification shall clearly describe the proposed sources and/or modifications. The owner or operator shall also submit to the Department proof of submittal of the municipal notification along with a copy of the Application for Authorization to Use GP-5.

8. Application for Use

Pursuant to 25 *Pa. Code* § 127.621 (relating to application for use of general plan approvals and general operating permits), any person proposing to construct, operate or modify a natural gas compression and/or processing facility listed in Condition 3 in Section A, under this General Permit shall submit to the Department the Application for Authorization to Use GP-5. This application shall be accompanied by the Compliance Review Form required under 25 *Pa. Code* §§ 127.12a (relating to compliance review) and § 127.412 (relating to compliance review forms), appropriate application fees specified in Section A, Condition 13 of this General Permit, proof of the municipal notification and any additional forms and information requested by the Department. This General Permit authorizes the specific sources and the specific location of the facility as described in the application.

9. Compliance Requirements

- (a) The owner or operator authorized to use this General Permit shall comply with the specifications in the application and terms and conditions of this General Permit.
- (b) All sources and associated air pollution control equipment located at a natural gas compression and/or processing facility shall be:
 - (i) Operated in such a manner as to not cause air pollution, as that term is defined in 25 *Pa. Code* § 121.1;

- (ii) Operated and maintained in accordance with the manufacturer's specifications, procedures, recommended maintenance schedule, and the specifications in the Application for Authorization to Use GP-5, or an alternate procedure approved by the Department that achieves equal or greater emission reductions;
 - (iii) Operated and maintained in such a manner that no owner or operator may permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source such that the malodors are detectable outside the property of the owner or operator on whose land the facility is being operated in accordance with 25 Pa. Code § 123.31 (relating to odor emissions); and
 - (iv) Operated and maintained in accordance with the fugitive emission requirements of 25 Pa. Code § 123.1 (relating to prohibition of certain fugitive emissions) and 25 Pa. Code § 123.2 (relating to fugitive particulate matter).
- (c) The emissions from all sources and associated air pollution control equipment located at a natural gas compression and/or processing facility shall not equal or exceed any of the following on a 12-month rolling sum basis:
- (i) Nitrogen oxides (NO_x) – 100 tons.
 - (ii) Carbon monoxide (CO) – 100 tons.
 - (iii) Sulfur oxides (SO_x) – 100 tons.
 - (iv) Particulate matter with an aerodynamic diameter less than 10 microns (PM₁₀) – 100 tons.
 - (v) Particulate matter with an aerodynamic diameter less than 2.5 microns (PM_{2.5}) – 100 tons.
 - (vi) Volatile organic compounds (VOCs) – 50 tons.
 - (vii) Any individual hazardous air pollutant (HAP) – 10 tons.
 - (viii) Total hazardous air pollutants (HAPs) – 25 tons.
 - (ix) Greenhouse gases, expressed as carbon dioxide equivalent (CO₂e) – 100,000 tons.
 - (x) In addition, the emissions from all sources and associated air pollution control equipment located at a natural gas compression and/or processing facility in Bucks, Chester, Delaware, Montgomery, or Philadelphia counties shall not equal or exceed any of the following on a 12-month rolling sum basis:

(A) Nitrogen oxides (NO_x) – 25 tons.

(B) Volatile organic compounds (VOCs) – 25 tons.

10. Modification, Suspension, Revocation of GP-5 and Authorizations to Use the General Permit

- (a) The Department may modify, suspend, or revoke and reissue this General Permit if it is determined that GP-5 does not comply with the Clean Air Act, Air Pollution Control Act or regulations adopted under these acts.
- (b) This General Permit may be modified, suspended, or revoked if the Department determines that the natural gas compression and/or processing facilities cannot be adequately regulated under this General Permit.
- (c) An authorization to construct and/or operate a natural gas compression and/or processing facility under this General Permit may be suspended or revoked if the Department determines that, at any time, the owner or operator has failed to construct and/or operate the facility in compliance with the terms and conditions of this General Permit or information identified in the Application for Authorization to Use GP-5, or supplemental material included with the application that the Department used to determine if the proposed sources will comply with the GP-5.
- (d) Upon suspension or revocation of authorization to construct and/or operate a natural gas compression and/or processing facility under this General Permit, the owner or operator shall cease construction immediately of the facility. The owner or operator of the facility shall not restart the construction and/or operation prior to receipt of written approval from the Department.

11. Notice Requirements

- (a) The applications and notifications required by 25 *Pa. Code* § 127.621 and Section A, Condition 5 of this General Permit shall be submitted to the appropriate DEP Regional Office responsible for issuing authorizations to use general permits in the county in which the natural gas compression and/or processing facility is or will be located.
- (b) As required under 25 *Pa. Code* § 127.621(b), the application shall be either by hand delivery or courier (i.e., Federal Express, United Parcel Service, United States Postal Service, etc.) to the Department or sent by certified mail, return receipt requested.
- (c) The owner or operator shall notify the Department, in writing, no later than five (5) business days after the following activities:
 - (i) Initial commencement date of construction of the source(s) authorized under this General Permit.

- (ii) Final completion date of construction.
- (iii) Any lapse in construction activity of eighteen (18) months or more that may take place in between the initial and start-up dates in (a) and (b) above.
- (d) At least five (5) business days prior to commencing operation of the source or facility, the owner or operator shall provide a written notification to the Department of the intent to commence operation of the natural gas compression and/or processing facility authorized by this General Permit . When multiple sources at the facility are subject to different commencement of operation schedules, written notice shall be submitted to DEP prior to the commencement of operation of each source.
- (e) *Malfunctions.* The owner or operator shall notify the Department by telephone within twenty-four (24) hours of the discovery of any malfunction at a natural gas compression and/or processing facility operating pursuant to this General Permit, or any malfunction of pollution control equipment associated with a facility, which results in, or may possibly be resulting in, the emission of air contaminants in excess of any applicable limitation specified herein. Following the telephone notification, a written notice also be submitted to DEP as specified below.
 - (i) If the owner or operator is unable to provide notification by telephone to the appropriate Regional Office within twenty-four (24) hours of discovery of a malfunction due to a weekend or holiday, the notification shall be made to the Department by no later than 4 p.m. on the first business day for the Department following the weekend or holiday.
 - (ii) Any malfunction that poses an imminent danger to the public health, safety, welfare, or environment shall be reported by telephone to the Department and the County Emergency Management Agency immediately after the discovery of an incident. The owner or operator shall submit a written report of instances of such malfunctions to the Department within three (3) business days of the telephone report.
 - (iii) Unless otherwise required by this General Permit, any other malfunctions shall be reported to the Department, in writing, within five (5) business days of malfunction discovery.

12. Term of Authorization to Use General Permit

The authorization to construct and/or operate a natural gas compression and/or processing facility under this General Permit is granted for a fixed period of five (5) years except that the authorization to construct a facility will expire eighteen (18) months from the date of the Department authorization if the owner or operator fails to commence construction. If construction commences within eighteen (18) months of the date of receipt of authorization from the Department, but it is not yet completed, the authorization to construct the facility under this General Permit is automatically extended, provided there is no subsequent lapse in construction

activity of eighteen (18) months or more, up to a maximum of five (5) years from the date of Department authorization. If the construction, modification or installation is not commenced within eighteen (18) months of the authorization of this GP-5 or if there is more than an 18-month lapse in construction, modification or installation, a new application for authorization of GP-5 shall be submitted. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified.

13. General Permit Fees

Each applicant seeking authorization to use GP-5 shall submit the applicable fees required under this condition to the appropriate DEP regional office. The following fees schedule applies to this General Permit:

- (a) General Plan Approval application fee:
One thousand and seven hundred dollars (\$1,700)
- (b) General Operating Permit fee:
Three hundred and seventy-five dollars (\$375)
- (c) Annual operating permit administration fee, payable by March 1st for the previous calendar year:
Three hundred and seventy-five dollars (\$375)
- (d) The Department may increase the applicable fees for this General Plan Approval/General Permit in accordance with the applicable fee schedules in 25 Pa. Code Chapter 127, Subchapter I (relating to plan approval and operating permit fees) following notice in the *Pennsylvania Bulletin*.

14. Recordkeeping and Reporting Requirements

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

15. Annual Source Reporting Requirements

In accordance with 25 Pa. Code § 135.3, the owner or operator of natural gas compression and/or natural gas processing facilities shall submit to the Department by March 1st each year a source report for the preceding calendar year for all sources regulated under this General Permit. The report shall include all emissions information for all previously reported sources and new sources which were first operated during the preceding calendar year. Emissions data including, but not limited to the following, shall be reported: carbon monoxide,

oxides of nitrogen ("NO_x"), particulate matter less than 10 micrometers in diameter PM₁₀), particulate matter less than 2.5 micrometers in diameter PM_{2.5}, sulfur dioxide, volatile organic compounds, total hazardous air pollutants ("HAP"), speciated individual HAP emissions, and greenhouse gases, expressed as CO₂e.

16. Public Records and Confidential Information

- (a) As required under Section 13.2 of the APCA, 35 P.S. § 4013.2, the records, reports or information obtained by the Department under this General Permit shall be available to the public, except as provided in paragraph (b) of this condition.
- (b) Upon cause shown by the owner or operator that the records, reports or information, or a particular portion thereof, but not emission data, to which the Department has access under the APCA, 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 APCA.

17. Circumvention

- (a) The owner or operator of a natural gas compression and/or processing facility 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 that exceeds good engineering practice stack height, dispersion technique or other technique that without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants that would otherwise be in violation of this plan approval, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior written approval of the Department, the device or technique may be used for control of malodors.

18. NSPS and NESHAP Submittals

- (a) The owner or operator of a natural gas compression and/or processing facility shall submit to the appropriate DEP Regional Air Quality Office requests, reports, applications, submittals and other communications concerning applicable New Source Performance Standards and National Emissions Standards for Hazardous Air Pollutants.