COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

STATE ONLY NATURAL MINOR OPERATING PERMIT

Issue Date: January 7, 2025 Effective Date: January 7, 2025

Expiration Date: December 31, 2029

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

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated.

State Only Permit No: 10-00390
Natural Minor
Federal Tax Id - Plant Code: 45-5100747-4

Owner Information

Name: MARKWEST LIBERTY BLUESTONE LLC
Mailing Address: 4600 J. BARRY COURT, SUITE 500
CANONSBURG, PA 15317

Plant Information

Plant: MARKWEST LIBERTY BLUESTONE LLC/ROYAL OAK COMP STA
Location: 10 Butler County 10928 Forward Township
SIC Code: 1311 Mining - Crude Petroleum And Natural Gas

Responsible Official

Name: ROBERT W. SHOUGH III
Title: OPERATIONS DIRECTOR
Phone: (724) 998 - 6644 Email: rwshough@marathonpetroleum.com

Permit Contact Person

Name: ALLIE JUAREZ
Title: ENVIRONMENTAL ENGINEER
Phone: (412) 815 - 8886 Email: ajuarez@marathonpetroleum.com

[Signature] _____
LORI L. MCNABB, NORTHWEST REGION AIR PROGRAM MANAGER

SECTION A. Table of Contents

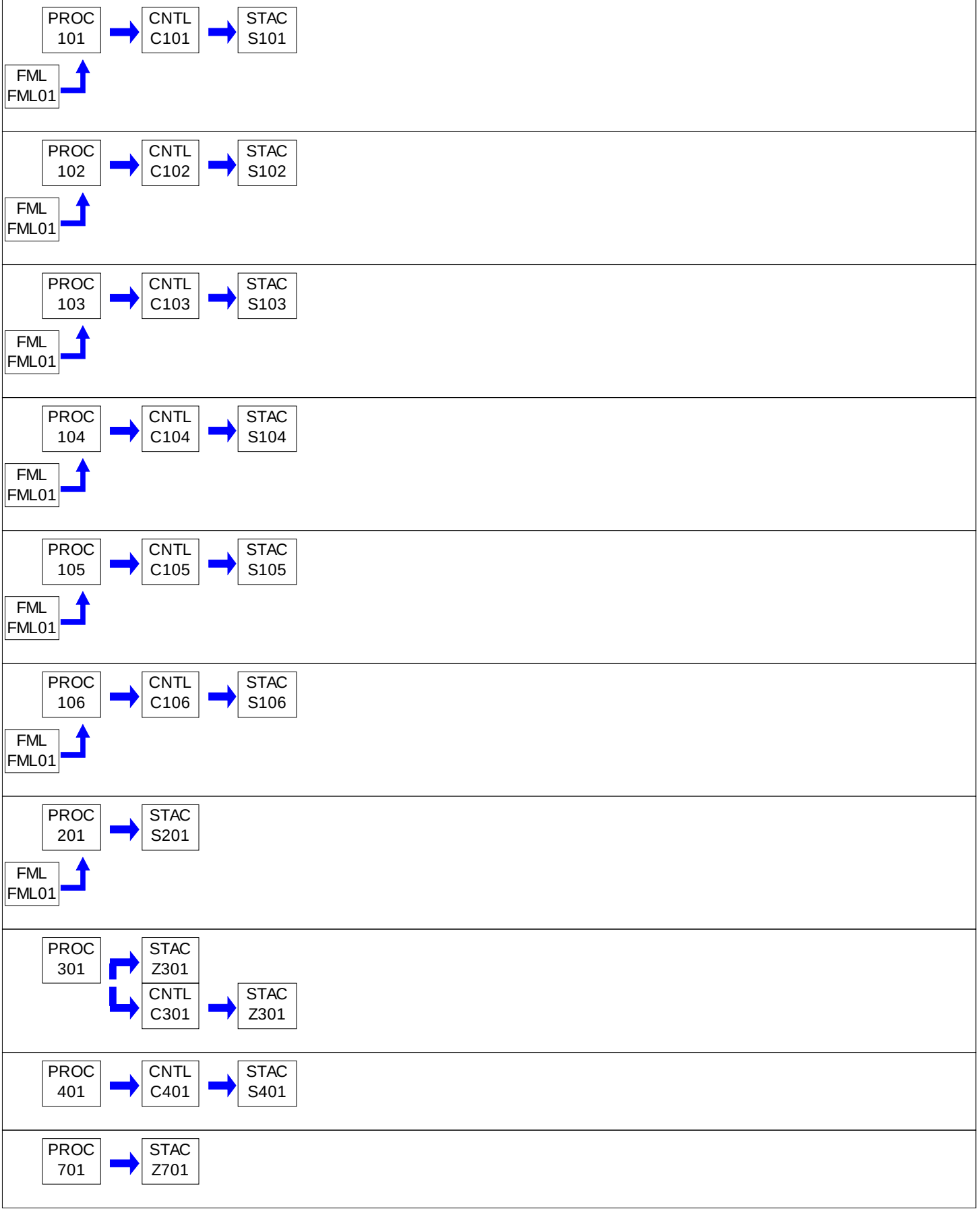
SECTION A. Table of Contents

SECTION A. Site Inventory List

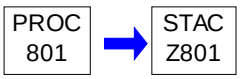
Source ID	Source Name	Capacity/Throughput		Fuel/Material
101	2370 BHP, CAT G3608TA COMP ENG, UNIT CM-250, SN BEN00960	17.784	MMBTU/HR	
		17.784	MMBTU/HR	Natural Gas
102	2370 BHP, CAT G3608TA COMP ENG, UNIT CM-260, SN BEN00963	17.784	MMBTU/HR	
		17.784	MMBTU/HR	Natural Gas
103	2370 BHP, CAT G3608TA COMP ENG, UNIT CM-270, SN BEN00965	17.780	MMBTU/HR	
		17.784	MMBTU/HR	Natural Gas
104	3550 BHP, CAT G3612TA COMP ENG, UNIT CM-280, SN BKE00687	26.639	MMBTU/HR	
		26.639	MMBTU/HR	Natural Gas
105	3550 BHP, CAT G3612TA COMP ENG, UNIT CM-290, SN BKE00725	26.639	MMBTU/HR	
		26.639	MMBTU/HR	Natural Gas
106	3550 BHP, CAT G3612TA COMP ENG, UNIT CM-300, SN BKE00727	26.639	MMBTU/HR	
		26.639	MMBTU/HR	Natural Gas
201	HEATER/REBOILER	2.000	MMBTU/HR	
		1.714	MCF/HR	NATURAL GAS
301	TANKS	1.378	BBL/HR	CONDENSATE AND PROI
401	DEHYDRATOR	6.087	MMCF/HR	Natural Gas
		5.000	MMCF/HR	NATURAL GAS
701	FUGITIVES		N/A	NATURAL GAS/LIGHT OIL
801	PIGGING OPERATIONS		N/A	NATURAL GAS/LIGHT OIL
C101	OXIDATION CATALYST			
C102	OXIDATION CATALYST			
C103	OXIDATION CATALYST			
C104	OXIDATION CATALYST			
C105	OXIDATION CATALYST			
C106	OXIDATION CATALYST			
C301	VAPOR RECOVERY UNIT			
C401	DEHYDRATION FLARE			
FML01	NATURAL GAS LINE			
S101	2370 BHP COMPRESSOR ENGINE STACK			
S102	2370 BHP COMPRESSOR ENGINE STACK			
S103	2370 BHP COMPRESSOR ENGINE STACK			
S104	3550 BHP COMPRESSOR ENGINE STACK			
S105	3550 BHP COMPRESSOR ENGINE STACK			
S106	3550 BHP COMPRESSOR ENGINE STACK			
S201	DEHYDRATION REBOILER STACKS			
S401	FLARE STACK			
Z301	TANKS STACK			
Z701	FUGITIVES STACK			
Z801	PIGGING OPERATIONS STACK			

PERMIT MAPS

PERMIT MAPS


PROC 101
CNTL C101
STAC S101
FML FML01
PROC 102
CNTL C102
STAC S102
FML FML01
PROC 103
CNTL C103
STAC S103
FML FML01
PROC 104
CNTL C104
STAC S104
FML FML01
PROC 105
CNTL C105
STAC S105
FML FML01
PROC 106
CNTL C106
STAC S106
FML FML01
PROC 201
STAC S201
FML FML01
PROC 301
STAC Z301
CNTL C301
STAC Z301
PROC 401
CNTL C401
STAC S401
PROC 701
STAC Z701

PERMIT MAPS



SECTION B. General State Only Requirements

#001 [25 Pa. Code § 121.1]

Definitions.

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

#002 [25 Pa. Code § 127.446]

Operating Permit Duration.

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

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

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

Permit Renewal.

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

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

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

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

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

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

#004 [25 Pa. Code § 127.703]

Operating Permit Fees under Subchapter I.

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

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

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

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

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

SECTION B. General State Only Requirements

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

(i) Two thousand dollars ($2,000) for calendar years 2021—2025.

(ii) Two thousand five hundred dollars ($2,500) for calendar years 2026—2030.

(iii) Three thousand one hundred dollars ($3,100) for the calendar years beginning with 2031.

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

#005 [25 Pa. Code §§ 127.450 (a)(4) and 127.464]

Transfer of Operating Permits.

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

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

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

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

Inspection and Entry.

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

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

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

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

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

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

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

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

Compliance Requirements.

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

SECTION B. General State Only Requirements

(1) Enforcement action

(2) Permit termination, revocation and reissuance or modification

(3) Denial of a permit renewal application

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

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

#008 [25 Pa. Code § 127.441]

Need to Halt or Reduce Activity Not a Defense.

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

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

Duty to Provide Information.

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

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

#010 [25 Pa. Code § 127.461]

Revising an Operating Permit for Cause.

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

(1) The permittee constructs or operates the source subject to the operating permit so that it is in violation of the Air Pollution Control Act, the Clean Air Act, the regulations thereunder, a plan approval, a permit or in a manner that causes air pollution.

(2) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.

(3) The permittee has failed to submit a report required by the operating permit or an applicable regulation.

(4) The EPA determines that the permit is not in compliance with the Clean Air Act or the regulations thereunder.

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

Operating Permit Modifications

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

SECTION B. General State Only Requirements

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

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

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

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

#012 [25 Pa. Code § 127.441]

Severability Clause.

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

#013 [25 Pa. Code § 127.449]

De Minimis Emission Increases.

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

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

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

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

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

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

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

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

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

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

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

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

SECTION B. General State Only Requirements

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

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

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

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

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

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

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

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

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

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

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

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

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

#014 [25 Pa. Code § 127.3]

Operational Flexibility.

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

(1) Section 127.14 (relating to exemptions)

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

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

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

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

SECTION B. General State Only Requirements

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

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

#015 [25 Pa. Code § 127.11a]

Reactivation of Sources

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

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

#016 [25 Pa. Code § 127.36]

Health Risk-based Emission Standards and Operating Practice Requirements.

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

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

#017 [25 Pa. Code § 121.9]

Circumvention.

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

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

Reporting Requirements.

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

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

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

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

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

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

SECTION B. General State Only Requirements

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

#019 [25 Pa. Code §§ 127.441(c) & 135.5]

Sampling, Testing and Monitoring Procedures.

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

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

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

Recordkeeping.

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

(1) The date, place (as defined in the permit) and time of sampling or measurements.

(2) The dates the analyses were performed.

(3) The company or entity that performed the analyses.

(4) The analytical techniques or methods used.

(5) The results of the analyses.

(6) The operating conditions as existing at the time of sampling or measurement.

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

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

#021 [25 Pa. Code § 127.441(a)]

Property Rights.

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

#022 [25 Pa. Code § 127.447]

Alternative Operating Scenarios.

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

SECTION B. General State Only Requirements

#023 [25 Pa. Code §135.3]

Reporting

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

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

#024 [25 Pa. Code §135.4]

Report Format

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

SECTION C. Site Level Requirements

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §121.7]

Prohibition of air pollution.

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

 # 002 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

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

(1) Construction or demolition of buildings or structures.

(2) Grading, paving and maintenance of roads and streets.

(3) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.

(4) Clearing of land.

(5) Stockpiling of materials.

(6) Open burning operations.

(7) - (8) [Do not apply]

(9) Sources and classes of sources other than those identified in paragraphs (1)—(8), for which the operator has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:

(i) The emissions are of minor significance with respect to causing air pollution.

(ii) The emissions are not preventing or interfering with the attainment or maintenance of an ambient air quality standard.

(b) An application form for requesting a determination under either subsection (a)(9) or § 129.15(c) is available from the Department. In reviewing these applications, the Department may require the applicant to supply information including, but not limited to, a description of proposed control measures, charac-teristics of emissions, quantity of emissions and ambient air quality data and analysis showing the impact of the source on ambient air quality. The applicant is required to demonstrate that the requirements of subsections (a)(9) and (c) and § 123.2 [Condition #003, below] (relating to fugitive particulate matter) or of the requirements of § 129.15(c) have been satisfied. Upon such demonstration, the Department will issue a determination, in writing, either as an operating permit condition, for those sources subject to permit requirements under the act, or as an order containing appropriate conditions and limitations.

(c) [Printed under Work Practice Requirements in this section of permit.]

(d) [Does not apply]

 # 003 [25 Pa. Code §123.2]

Fugitive particulate matter

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in § 123.1(a)(1)—(9) [Condition #002, above] (relating to prohibition of certain fugitive emissions) if the emissions are visible at the point the emissions pass outside the person's property.

 # 004 [25 Pa. Code §123.31]

Limitations

(a) [Printed under Work Practice Requirements in this section of permit.]

SECTION C. Site Level Requirements

(b) A person may not permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source, in such a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

(c) [Does not apply]

 # 005 [25 Pa. Code §123.41]

Limitations

A person may not permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

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

(2) Equal to or greater than 60% at any time.

 # 006 [25 Pa. Code §123.42]

Exceptions

The limitations of § 123.41 [Condition #005, above] (relating to limitations) shall not apply to a visible emission in any of the following instances:

(1) When the presence of uncombined water is the only reason for failure of the emission to meet the limitations.

(2) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.

(3) When the emission results from sources specified in § 123.1 (a)(1)—(9) [Condition #002, above] (relating to prohibition of certain fugitive emissions).

(4) [Does not apply]

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

 # 007 [25 Pa. Code §123.43]

Measuring techniques

Visible emissions may be measured using either of the following:

(1) A device approved by the Department and maintained to provide accurate opacity measurements.

(2) Observers, trained and qualified to measure plume opacity with the naked eye or with the aid of devices approved by the Department.

IV. RECORDKEEPING REQUIREMENTS.

 # 008 [25 Pa. Code §127.622]

Compliance with general plan approvals and general operating permit conditions.

The owner or operator of the facility shall maintain records that clearly demonstrate to the Department that the facility is not a Title V facility. In addition, the owner or operator of the facility shall keep records to verify compliance with facility-wide emission limitations. These records shall be maintained at a minimum on a monthly basis, and the actual 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 Operating Permit.

SECTION C. Site Level Requirements

[GP5-10-00390A & B, Section A, Condition #14.]

V. REPORTING REQUIREMENTS.

 # 009 [25 Pa. Code §127.622]

Compliance with general plan approvals and general operating permit conditions.

Malfunction reporting shall be conducted as follows:

(a) For the purpose of this condition, a malfunction is defined as any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment or source to operate in a normal or usual manner that may result in an increase in the emission of air contaminants. Examples of malfunctions may include, but are not limited to: large dust plumes, heavy smoke, a spill or release that results in a malodor that is detectable outside the property on whose land the source is being operated.

(b) Any malfunction that poses an imminent danger to the public health, safety, or welfare or to the environment shall be reported by telephone to the County Emergency Management Agency (911 Center), and to the 24-hour Emergency Hotline of the appropriate DEP Regional Office, no later than one hour after the discovery of an incident. Following the telephone notification, a written notice shall be submitted to the DEP, no later than the next business day.

(c) All other malfunctions shall be reported to the Department no later than the next business day.

(d) Initial reporting of the malfunction shall identify the following items to the extent known:

(1) name and location of the facility;

(2) nature and cause of the malfunction;

(3) time when the malfunction or breakdown was first observed;

(4) expected duration of increased emissions; and

(5) estimated rate of emissions.

(e) The Owner/Operator shall also notify the Department immediately, by telephone, when corrective measures, for malfunctions meeting the criteria in (b), have been accomplished.

(f) Malfunctions shall be reported to the Department by OnBase Submittal, unless the Department directs otherwise:

OnBase Submittal
http://www.dep.pa.gov/DataandTools/Pages/Application-Form-Upload.aspx

PA DEP
Northwest Regional Office
814-332-6945

(g) If requested by the Department, the Owner/Operator shall submit a full written report to the Department, including final determinations of the items identified in (d), and the corrective measures taken on the malfunction. The report shall be submitted within 15 days of the Department's request or accomplishing corrective measures, whichever is later.

[GP5-10-00390A & B, Section A, Condition #11(e).]

 # 010 [25 Pa. Code §127.622]

Compliance with general plan approvals and general operating permit conditions.

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

SECTION C. Site Level Requirements

sources regulated under this Operating 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. Emissons data including, but not limited to the following, shall be reported: carbon monoxide, oxides of nitrogen ("NOx"), particulate matter less than 10 micrometers in diameter (PM10), particulate matter less than 2.5 micrometers in diameter PM2.5, sulfur dioxide, volatile organic compounds, total hazardous air pollutants ("HAP"), speciated individual HAP emissions, and greenhouse gases, expressed as CO2e.

[GP5-10-00390A & B, Section A, Condition #15.]

 # 011 [25 Pa. Code §127.622]

Compliance with general plan approvals and general operating permit conditions.

(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.

PA DEP
http://www.dep.pa.gov/DataandTools/Pages/Application-Form-Upload.aspx.

(b) In accordance with 40 CFR § 60.4 (relating to address) and 40 CFR § 63.10 (relating to recordkeeping and reporting requirements) copies of all requests, reports, applications, submittals and other communications shall also be submitted to the EPA Region III Office. Copies submitted to EPA shall be sent to the following addresses:

Permitting branch:

United States Environmental Protection Agency
Region III, Air and Radiation Division
Permits Branch (3AD10)
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, Pennsylvania 19103-2852

Enforcement Branch:

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

[GP5-10-00390A & B, Section A, Condition #18.]

VI. WORK PRACTICE REQUIREMENTS.

 # 012 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

[From 25 Pa. Code § 123.1(c):]

(c) A person responsible for any source specified in subsections (a)(1)—(7) or (9) [Condition #002, above] shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions include, but not be limited to, the following:

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

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

SECTION C. Site Level Requirements

(3) Paving and maintenance of roadways.

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

 # 013 [25 Pa. Code §123.31]

Limitations

[From 25 Pa. Code § 123.31(a):]

(a) Limitations are as follows:

(1) If control of malodorous air contaminants is required under subsection (b) [Condition #004, above], emissions shall be incinerated at a minimum of 1200°F for at least 0.3 second prior to their emission into the outdoor atmosphere.

(2) Techniques other than incineration may be used to control malodorous air contaminants if such techniques are equivalent to or better than the required incineration in terms of control of the odor emissions and are approved in writing by the Department.

 # 014 [25 Pa. Code §127.622]

Compliance with general plan approvals and general operating permit conditions.

All sources and associated air pollution control equipment located at a facility shall be:

(1) Operated in such a manner as not to cause air pollution, as that term is defined in 25 Pa. Code § 121.1;

(2) Operated and maintained in accordance with the manufacturer's specifications, procedures, and recommended maintenance schedule, as provided in the Application for Authorization to Use GP-5, or an alternate procedure approved by the Department that achieves equal or greater emissions reductions;

(3) 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

(4) Operated and maintained in accordance with the fugitive emission requirements of 25 Pa. Code § 123.1 (relating to prohibition of certain fugitive emissions) and § 123.2 (relating to fugitive particulate matter).

[GP5-10-00390A & B, Section A, Condition #9(b).]

VII. ADDITIONAL REQUIREMENTS.

 # 015 [25 Pa. Code §129.14]

Open burning operations

(a) [Does not apply]

(b) Outside of air basins. No person may permit the open burning of material in an area outside of air basins in a manner that:

(1) The emissions are visible, at any time, at the point such emissions pass outside the property of the person on whose land the open burning is being conducted.

(2) Malodorous air contaminants from the open burning are detectable outside the property of the person on whose land the open burning is being conducted.

(3) The emissions interfere with the reasonable enjoyment of life or property.

(4) The emissions cause damage to vegetation or property.

SECTION C. Site Level Requirements

(5) The emissions are or may be deleterious to human or animal health.

(c) Exceptions. The requirements of subsections (a) and (b) do not apply where the open burning operations result from:

(1) 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.

(2) Any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.

(3) A fire set for the prevention and control of disease or pests, when approved by the Department.

(4) - (5) [Do not apply]

(6) A fire set solely for recreational or ceremonial purposes.

(7) A fire set solely for cooking food.

(d) Clearing and grubbing wastes. The following is applicable to clearing and grubbing wastes:

(1) As used in this subsection the following terms shall have the following meanings:

Air curtain destructor—A mechanical device which forcefully projects a curtain of air across a pit in which open burning is being conducted so that combustion efficiency is increased and smoke and other particulate matter are contained.

Clearing and grubbing wastes—Trees, shrubs and other native vegetation which are cleared from land during or prior to the process of construction. The term does not include demolition wastes and dirt laden roots.

(2) [Does not apply]

(3) Subsection (b) notwithstanding clearing and grubbing wastes may be burned outside of an air basin, subject to the following limitations:

(i) Upon receipt of a complaint or determination by the Department that an air pollution problem exists, the Department may order that the open burning cease or comply with subsection (b).

(ii) Authorization for open burning under this paragraph does not apply to clearing and grubbing wastes transported from an air basin for disposal outside of an air basin.

(4) During an air pollution episode, open burning is limited by Chapter 137 (relating to air pollution episodes) and shall cease as specified in that chapter.

[This permit does not constitute authorization to burn solid waste pursuant to Section 610(3) of the Solid Waste Management Act, 35 P.S. Section 6018.610(3), or any other provision of the Solid Waste Management Act.]

VIII. COMPLIANCE CERTIFICATION.

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

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

SECTION D. Source Level Requirements

Source ID: 101 Source Name: 2370 BHP, CAT G3608TA COMP ENG, UNIT CM-250, SN BEN00960

Source Capacity/Throughput: 17.784 MMBTU/HR
17.784 MMBTU/HR Natural Gas

Conditions for this source occur in the following groups: COMPRESSOR ENGINES

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

Source ID: 102 Source Name: 2370 BHP, CAT G3608TA COMP ENG, UNIT CM-260, SN BEN00963

Source Capacity/Throughput: 17.784 MMBTU/HR
17.784 MMBTU/HR Natural Gas

Conditions for this source occur in the following groups: COMPRESSOR ENGINES

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

Source ID: 103 Source Name: 2370 BHP, CAT G3608TA COMP ENG, UNIT CM-270, SN BEN00965

Source Capacity/Throughput: 17.780 MMBTU/HR
17.784 MMBTU/HR Natural Gas

Conditions for this source occur in the following groups: COMPRESSOR ENGINES

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

Source ID: 104 Source Name: 3550 BHP, CAT G3612TA COMP ENG, UNIT CM-280, SN BKE00687

Source Capacity/Throughput: 26.639 MMBTU/HR
26.639 MMBTU/HR Natural Gas

Conditions for this source occur in the following groups: COMPRESSOR ENGINES

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

Source ID: 105 Source Name: 3550 BHP, CAT G3612TA COMP ENG, UNIT CM-290, SN BKE00725

Source Capacity/Throughput: 26.639 MMBTU/HR
26.639 MMBTU/HR Natural Gas

Conditions for this source occur in the following groups: COMPRESSOR ENGINES

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

Source ID: 106 Source Name: 3550 BHP, CAT G3612TA COMP ENG, UNIT CM-300, SN BKE00727

Source Capacity/Throughput: 26.639 MMBTU/HR
26.639 MMBTU/HR Natural Gas

Conditions for this source occur in the following groups: COMPRESSOR ENGINES

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

Source ID: 201 Source Name: HEATER/REBOILER

Source Capacity/Throughput: 2.000 MMBTU/HR
1.714 MCF/HR NATURAL GAS

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.22]

Combustion units

A person may not permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO2, from a combustion unit in excess of the rate of 4 pounds per million Btu of heat input over a 1-hour period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

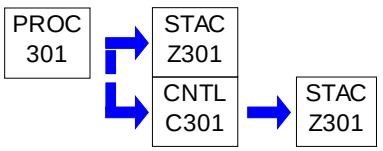
VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

Source ID: 301 Source Name: TANKS

Source Capacity/Throughput: 1.378 BBL/HR CONDENSATE AND PRODUCED



I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee must maintain records to ensure compliance with the 6 tpy potential to emit limit of 40 CFR §60.5365 for each vessel to maintain non-applicability to Subpart OOOO. These records shall be made available to the Department upon request.

 # 002 [25 Pa. Code §129.130]

Recordkeeping and reporting

(a) Recordkeeping. The owner or operator of a source subject to § § 129.121—129.129 shall maintain the applicable records onsite or at the nearest local field office for 5 years. The records shall be made available to the Department upon request.

(b) Storage vessels. The records for each storage vessel must include the following, as applicable:

(1) - (5) [Do not apply]

(6) The identity of each storage vessel and the actual VOC emission calculation under § 129.123(c)(2)(i) including the following information:

(i) The date of each monthly calculation performed under § 129.123(c)(2)(i).

(ii) The calculation determining the actual VOC emissions each month.

(iii) The calculation demonstrating that the actual VOC emissions are less than 2.7 TPY determined as a 12-month rolling sum.

(7) - (8) [Do not apply]

(c) - (k) [Do not apply]

SECTION D. Source Level Requirements

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

 # 003 [25 Pa. Code §129.57]

Storage tanks less than or equal to 40,000 gallons capacity containing VOCs

The provisions of this section apply to above ground stationary storage tanks with a capacity equal to or greater than 2,000 gallons which contain volatile organic compounds with vapor pressure greater than 1.5 psia (10.5 kilopascals) under actual storage conditions. Storage tanks covered under this section shall have pressure relief valves which are maintained in good operating condition and which are set to release at no less than .7 psig (4.8 kilopascals) of pressure or .3 psig (2.1 kilopascals) of vacuum or the highest possible pressure and vacuum in accordance with state or local fire codes or the National Fire Prevention Association guidelines or other national consensus standards acceptable to the Department. Section 129.56(g) (relating to storage tanks greater than 40,000 gallons capacity containing VOCs) applies to this section. Petroleum liquid storage vessels which are used to store produced crude oil and condensate prior to lease custody transfer shall be exempt from the requirements of this section.

[From 25 Pa. Code §129.56(g):]

For volatile organic compounds whose storage temperature is governed by ambient weather conditions, the vapor pressure under actual storage conditions shall be determined using a temperature which is representative of the average storage temperature for the hottest month of the year in which the storage takes place.

VII. ADDITIONAL REQUIREMENTS.

 # 004 [25 Pa. Code §129.123]

Storage vessels

(a) - (b) [Do not apply]

(c) Exceptions.

(1) The emissions limitations and control requirements in subsection (b) do not apply to the owner or operator of a storage vessel that maintains actual VOC emissions less than 2.7 TPY determined as a 12-month rolling sum. An owner or operator claiming this exception shall perform the compliance demonstration requirements under paragraph (2) and maintain the records under subsection (g), as applicable.

(2) The owner or operator of a storage vessel claiming exception under this subsection shall perform the following:

(i) Beginning on or before January 9, 2023, calculate the actual VOC emissions once per calendar month using a generally accepted model or calculation methodology. The monthly calculations must meet the following:

(A) Be separated by at least 15 calendar days but not more than 45 calendar days.

(B) Be based on the monthly average throughput for the previous 30 calendar days.

(ii) Comply with subsection (b) within 1 year of the date of the monthly calculation showing that actual VOC emissions from the storage vessel have increased to 2.7 TPY VOC or greater.

(d) - (f) [Do not apply]

(g) Recordkeeping and reporting requirements. The owner or operator of a storage vessel subject to this section shall maintain the records under § 129.130(b) and submit the reports under § 129.130(k)(3)(i).

SECTION D. Source Level Requirements

Source ID: 401 Source Name: DEHYDRATOR

Source Capacity/Throughput:	6.087	MMCF/HR	Natural Gas
	5.000	MMCF/HR	NATURAL GAS

PROC 401 → CNTL C401 → STAC S401

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from a process in a manner that the concentration of particulate matter in the effluent gas exceeds .04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

[Applies to the flare]

 # 002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO2, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

[Applies to the flare]

 # 003 [25 Pa. Code §127.622]

Compliance with general plan approvals and general operating permit conditions.

(d) Visible emissions from a glycol dehydrator using a flare shall not exceed either of the following limitations:

(i) Equal to or greater than 10% for a period or periods aggregating more than 3 minutes in any one hour.

(ii) Equal to or greater than 30% at any time.

(e) A glycol dehydrator shall not emit malodorous air contaminants in such a manner that the malodors are detectable outside the facility property.

[From GP5-10-00390A & B, Section F, Condition #2(d)-(e):]

 # 004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.764]

Subpart HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities

General standards.

(e) Exemptions. (1) The owner or operator of an area source is exempt from the requirements of paragraph (d) of this section if the criteria listed in paragraph (e)(1)(i) or (ii) of this section are met, except that the records of the determination of these criteria must be maintained as required in §63.774(d)(1).

(i) [Does not apply]

(ii) The actual average emissions of benzene from the glycol dehydration unit process vent to the atmosphere are less than 0.90 megagram per year, as determined by the procedures specified in §63.772(b)(2) of this subpart.

SECTION D. Source Level Requirements

Control Device Efficiency Restriction(s).

 # 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The facility shall replace existing dehydrator flares with enclosed air-assisted flares. The replacement enclosed air-assisted flare system shall include a 3 horsepower blower (with a variable frequency drive), a single point burner tip, a gas enrichment stream and shutdown/startup control logic panels, and shall raise regenerator off-gas Btu value to ensure a clean burn. These flares shall achieve a minimum 98% destruction and removal efficiency ("DRE").

[Civil Action No. 2:18-cv-00520-LPL Document 2-1 Filed 04/24/18, Condition #13.]

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

 # 006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.772]

Subpart HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities

Test methods, compliance procedures, and compliance demonstrations.

(b) Determination of glycol dehydration unit flowrate, benzene emissions, or BTEX emissions. The procedures of this paragraph shall be used by an owner or operator to determine glycol dehydration unit natural gas flowrate, benzene emissions, or BTEX emissions.

(1) [Does not apply]

(2) The determination of actual average benzene or BTEX emissions from a glycol dehydration unit shall be made using the procedures of either paragraph (b)(2)(i) or (ii) of this section. Emissions shall be determined either uncontrolled, or with federally enforceable controls in place.

(i) The owner or operator shall determine actual average benzene or BTEX emissions using the model GRI-GLYCalcTM, Version 3.0 or higher, and the procedures presented in the associated GRI-GLYCalcTM Technical Reference Manual. Inputs to the model shall be representative of actual operating conditions of the glycol dehydration unit and may be determined using the procedures documented in the Gas Research Institute (GRI) report entitled "Atmospheric Rich/Lean Method for Determining Glycol Dehydrator Emissions" (GRI-95/0368.1); or

(ii) The owner or operator shall determine an average mass rate of benzene or BTEX emissions in kilograms per hour through direct measurement using the methods in §63.772(a)(1)(i) or (ii), or an alternative method according to §63.7(f). Annual emissions in kilograms per year shall be determined by multiplying the mass rate by the number of hours the unit is operated per year. This result shall be converted to megagrams per year.

IV. RECORDKEEPING REQUIREMENTS.

 # 007 [25 Pa. Code §127.622]

Compliance with general plan approvals and general operating permit conditions.

(f) The owner or operator of a glycol dehydrator shall maintain records of the results of any testing conducted to determine compliance with paragraphs (a) through (e) of this condition.

(g) [Does not apply]

(h) If a flare is used as an air cleaning device for the glycol dehydrator, the owner or operator shall maintain a record of daily visual observations of the continuous presence of a flame or record of the continuous recorder that indicates the continuous ignition of the pilot flame.

(i) The owner or operator of the glycol dehydrator shall maintain records of the date of any maintenance and repair of the required air cleaning device and duration of uncontrolled emissions during such activities.

SECTION D. Source Level Requirements

(j) The owner or operator of a glycol dehydrator shall maintain the following records:

(i) VOC emissions using GRI-GLYCalc computer software or an alternative method as approved by the Department.

(ii) A record of actual throughput per day and the glycol circulation rate.

[From GP5-10-00390A & B, Section F, Condition #2(f)-(j):]

 # 008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.774]

Subpart HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities

Recordkeeping requirements.

(a) The recordkeeping provisions of 40 CFR part 63, subpart A, that apply and those that do not apply to owners and operators of sources subject to this subpart are listed in Table 2 of this subpart.

(b) - (c) [Do not apply]

(d)(1) An owner or operator of a glycol dehydration unit that meets the exemption criteria in §63.764(e)(1)(i) or §63.764(e)(1)(ii) shall maintain the records specified in paragraph (d)(1)(i) or paragraph (d)(1)(ii) of this section, as appropriate, for that glycol dehydration unit.

(i) [Does not apply]

(ii) The actual average benzene emissions (in terms of benzene emissions per year) as determined in accordance with §63.772(b)(2).

(2) [Does not apply]

(e) - (f) [Do not apply]

(g) The owner or operator of an affected source subject to this subpart shall maintain records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control equipment and monitoring equipment. The owner or operator shall maintain records of actions taken during periods of malfunction to minimize emissions in accordance with §63.764(j), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

(h) - (i) [Do not apply]

[64 FR 32628, June 17, 1999, as amended at 66 FR 34554, June 29, 2001; 72 FR 39, Jan. 3, 2007; 77 FR 49579, Aug. 16, 2012]

V. REPORTING REQUIREMENTS.

 # 009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.775]

Subpart HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities

Reporting requirements.

(a) The reporting provisions of subpart A of this part, that apply and those that do not apply to owners and operators of sources subject to this subpart are listed in Table 2 of this subpart.

(b) [Does not apply]

(c) Except as provided in paragraph (c)(8), each owner or operator of an area source subject to this subpart shall submit the information listed in paragraph (c)(1) of this section. If the source is located within a UA plus offset and UC boundary, the owner or operator shall also submit the information listed in paragraphs (c)(2) through (6) of this section. If the source is not located within any UA plus offset and UC boundaries, the owner or operator shall also submit the information listed within paragraph (c)(7).

SECTION D. Source Level Requirements

(1) - (7) [Do not apply]

(8) An owner or operator of a TEG dehydration unit located at an area source that meets the criteria in §63.764(e)(1)(i) or §63.764(e)(1)(ii) is exempt from the reporting requirements for area sources in paragraphs (c)(1) through (7) of this section, for that unit.

(d) - (g) [Do not apply]

[64 FR 32628, June 17, 1999, as amended at 66 FR 34554, June 29, 2001; 72 FR 39, Jan. 3, 2007; 77 FR 49580, Aug. 16, 2012; 85 FR 73894, Nov. 19, 2020]

VI. WORK PRACTICE REQUIREMENTS.

 # 010 [25 Pa. Code §127.622]

Compliance with general plan approvals and general operating permit conditions.

The owner or operator of a new glycol dehydrator, which is not subject to the requirements established in 40 CFR Part 63, Subpart HH and has a total uncontrolled potential emission rate of VOC in excess of five (5) tons per year shall be controlled either by at least 95% with a condenser, flare or other air cleaning device, or any alternative methods as approved by the Department. This control efficiency requirement must be demonstrated to the satisfaction of the Department. The owner or operator of a new glycol dehydrator shall also comply with the requirements in Condition 2(b) through (j) of this section.

[GP5-10-00390A & B, Section F, Condition #3.]

[From GP5-10-00390A & B, Section F, Condition #2(b)-(j):]

(b) [Does not apply]

(c) A glycol dehydrator using a flare as an air cleaning device shall ensure destruction of VOC emissions to the flare stack by maintaining the heat content of the flare gas above 300 Btu/scf. The owner or operator shall document daily visual observations of the continuous presence of a flame. Alternatively, the owner or operator may equip the flare with a heat sensing monitoring device with a continuous recorder that indicates the continuous ignition of the pilot flame. The flare shall be designed and operated in accordance with the applicable requirements in 40 CFR § 60.18.

(d) - (e) [Printed under Emission Restrictions in this section of permit.]

(f) - (j) [Printed under Recordkeeping in this section of permit.]

 # 011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.764]

Subpart HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities

General standards.

(i) In all cases where the provisions of this subpart require an owner or operator to repair leaks by a specified time after the leak is detected, it is a violation of this standard to fail to take action to repair the leak(s) within the specified time. If action is taken to repair the leak(s) within the specified time, failure of that action to successfully repair the leak(s) is not a violation of this standard. However, if the repairs are unsuccessful, and a leak is detected, the owner or operator shall take further action as required by the applicable provisions of this subpart.

(j) At all times the owner or operator must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

VII. ADDITIONAL REQUIREMENTS.

 # 012 [25 Pa. Code §127.622]

Compliance with general plan approvals and general operating permit conditions.

SECTION D. Source Level Requirements

The owner or operator of each glycol dehydrator located at natural gas compression and/or processing facility shall comply with the applicable requirements established in 40 CFR Part 63, Subpart HH. The owner or operator of each glycol dehydrator located at natural gas compression, and/or processing facility shall also comply with the visible emissions and malodor requirements in Conditions 2(d) and (e) of this section.

[GP5-10-00390A & B, Section F, Condition #1.]

 # 013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.760]

Subpart HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities

Applicability and designation of affected source.

(a) This subpart applies to the owners and operators of the emission points, specified in paragraph (b) of this section that are located at oil and natural gas production facilities that meet the specified criteria in paragraphs (a)(1) and either (a)(2) or (a)(3) of this section.

(1) Facilities that are major or area sources of hazardous air pollutants (HAP) as defined in § 63.761. Emissions for major source determination purposes can be estimated using the maximum natural gas or hydrocarbon liquid throughput, as appropriate, calculated in paragraphs (a)(1)(i) through (iii) of this section. As an alternative to calculating the maximum natural gas or hydrocarbon liquid throughput, the owner or operator of a new or existing source may use the facility's design maximum natural gas or hydrocarbon liquid throughput to estimate the maximum potential emissions. Other means to determine the facility's major source status are allowed, provided the information is documented and recorded to the Administrator's satisfaction in accordance with § 63.10(b)(3). A facility that is determined to be an area source, but subsequently increases its emissions or its potential to emit above the major source levels, and becomes a major source, must comply with all provisions of this subpart applicable to a major source starting on the applicable compliance date specified in paragraph (f) of this section. Nothing in this paragraph is intended to preclude a source from limiting its potential to emit through other appropriate mechanisms that may be available through the permitting authority.

(i) If the owner or operator documents, to the Administrator's satisfaction, a decline in annual natural gas or hydrocarbon liquid throughput, as appropriate, each year for the 5 years prior to October 15, 2012, the owner or operator shall calculate the maximum natural gas or hydrocarbon liquid throughput used to determine maximum potential emissions according to the requirements specified in paragraph (a)(1)(i)(A) of this section. In all other circumstances, the owner or operator shall calculate the maximum throughput used to determine whether a facility is a major source in accordance with the requirements specified in paragraph (a)(1)(i)(B) of this section.

(A) The maximum natural gas or hydrocarbon liquid throughput is the average of the annual natural gas or hydrocarbon liquid throughput for the 3 years prior to October 15, 2012, multiplied by a factor of 1.2.

(B) The maximum natural gas or hydrocarbon liquid throughput is the highest annual natural gas or hydrocarbon liquid throughput over the 5 years prior to October 15, 2012, multiplied by a factor of 1.2.

(ii) The owner or operator shall maintain records of the annual facility natural gas or hydrocarbon liquid throughput each year and upon request submit such records to the Administrator. If the facility annual natural gas or hydrocarbon liquid throughput increases above the maximum natural gas or hydrocarbon liquid throughput calculated in paragraph (a)(1)(i)(A) or (a)(1)(i)(B) of this section, the maximum natural gas or hydrocarbon liquid throughput must be recalculated using the higher throughput multiplied by a factor of 1.2.

(iii) The owner or operator shall determine the maximum values for other parameters used to calculate emissions as the maximum for the period over which the maximum natural gas or hydrocarbon liquid throughput is determined in accordance with paragraph (a)(1)(i)(A) or (B) of this section. Parameters, other than glycol circulation rate, shall be based on either highest measured values or annual average. For estimating maximum potential emissions from glycol dehydration units, the glycol circulation rate used in the calculation shall be the unit's maximum rate under its physical and operational design consistent with the definition of potential to emit in §63.2.

(2) Facilities that process, upgrade, or store hydrocarbon liquids.

(3) Facilities that process, upgrade, or store natural gas prior to the point at which natural gas enters the natural gas transmission and storage source category or is delivered to a final end user. For the purposes of this subpart, natural gas

enters the natural gas transmission and storage source category after the natural gas processing plant, when present. If no natural gas processing plant is present, natural gas enters the natural gas transmission and storage source category after the point of custody transfer.

(b) The affected sources for major sources are listed in paragraph (b)(1) of this section and for area sources in paragraph (b)(2) of this section.

(1) [Does not apply]

(2) For area sources, the affected source includes each triethylene glycol (TEG) dehydration unit located at a facility that meets the criteria specified in paragraph (a) of this section.

(c) Any source that determines it is not a major source but has actual emissions of 5 tons per year or more of a single HAP, or 12.5 tons per year or more of a combination of HAP (i.e., 50 percent of the major source thresholds), shall update its major source determination within 1 year of the prior determination or October 15, 2012, whichever is later, and each year thereafter, using gas composition data measured during the preceding 12 months.

(d) - (e) [Do not apply]

(f) The owner or operator of an affected major source shall achieve compliance with the provisions of this subpart by the dates specified in paragraphs (f)(1), (2), and (f)(7) through (9) of this section. The owner or operator of an affected area source shall achieve compliance with the provisions of this subpart by the dates specified in paragraphs (f)(3) through (6) of this section.

(1) - (5) [Do not apply]

(6) The owner or operator of an affected area source that is not located in an Urban-1 county, as defined in §63.761, the construction or reconstruction of which commences on or after July 8, 2005, shall achieve compliance with the provisions of this subpart immediately upon initial startup or January 3, 2007, whichever date is later.

(7) - (9) [Do not apply]

(g) - (h) [Do not apply]

[64 FR 32628, June 17, 1999, as amended at 66 FR 34550, June 29, 2001; 72 FR 36, Jan. 3, 2007; 77 FR 49568, Aug. 16, 2012; 85 FR 73894, Nov. 19, 2020]

 # 014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.761]

Subpart HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities Definitions.

[Refer to 40 CFR §63.761 for definitions applicable to Subpart HH.]

 # 015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.764]

Subpart HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities General standards.

(a) Table 2 of this subpart specifies the provisions of subpart A (General Provisions) of this part that apply and those that do not apply to owners and operators of affected sources subject to this subpart.

(b) All reports required under this subpart shall be sent to the Administrator at the appropriate address listed in §63.13. Reports may be submitted on electronic media.

(c) - (d) [Do not apply]

(e) [Printed under Emission Restrictions in this section of permit.]

(f) [Does not apply]

SECTION D. Source Level Requirements

(g) - (h) [Reserved

(i) - (j) [Printed under Work Practice Requirements in this section of permit.]

[64 FR 32628, June 17, 1999, as amended at 66 FR 34551, June 29, 2001; 72 FR 38, Jan. 3, 2007; 77 FR 49570, Aug. 16, 2012]

 # 016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.776]

Subpart HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities

Implementation and enforcement.

(a) This subpart can be implemented and enforced by the U.S. EPA, or a delegated authority such as the applicable State, local, or Tribal agency. If the U.S. EPA Administrator has delegated authority to a State, local, or Tribal agency, then that agency, in addition to the U.S. EPA, has the authority to implement and enforce this subpart. Contact the applicable U.S. EPA Regional Office to find out if this subpart is delegated to a State, local, or Tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or Tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of U.S. EPA and cannot be transferred to the State, local, or Tribal agency.

(c) The authorities that cannot be delegated to State, local, or Tribal agencies are as specified in paragraphs (c)(1) through (4) of this section.

(1) Approval of alternatives to the requirements in §§63.760, 63.764 through 63.766, 63.769, 63.771, and 63.777.

(2) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f), as defined in §63.90, and as required in this subpart.

(3) Approval of major alternatives to monitoring under §63.8(f), as defined in §63.90, and as required in this subpart.

(4) Approval of major alternatives to recordkeeping and reporting under §63.10(f), as defined in §63.90, and as required in this subpart.

SECTION D. Source Level Requirements

Source ID: 701 Source Name: FUGITIVES

Source Capacity/Throughput: N/A NATURAL GAS/LIGHT OIL/WATEF

PROC 701 → STAC Z701

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

 # 001 [25 Pa. Code §127.622]

Compliance with general plan approvals and general operating permit conditions.

1. The owner or operator of the natural gas compression and/or processing facility shall, at a minimum, on a monthly basis perform a leak detection and repair program that includes audible, visual, and olfactory ("AVO") inspections.

2. Within 180 days after the initial startup of a source, the owner or operator of the facility shall, at a minimum on a quarterly basis, use forward looking infrared ("FLIR") cameras or other leak detection monitoring devices approved by the Department for the detection of fugitive leaks. The Department may grant an extension for use of FLIR camera upon receipt of a written request from the owner or operator of the facility documenting the justification for the requested extension.

[GP5-10-00390A & B, Section H, Conditions #1 and 2.]

 # 002 [25 Pa. Code §129.126]

Compressors

(a) Applicability. This section applies to the owner or operator of a reciprocating compressor or centrifugal compressor subject to § 129.121(a)(4) (relating to general provisions and applicability) that meets the following:

(1) Reciprocating compressor. Each reciprocating compressor located between the wellhead and point of custody transfer to the natural gas transmission and storage segment.

(2) [Does not apply]

(b) VOC emissions control requirements for a reciprocating compressor. Beginning December 10, 2023, the owner or operator of a reciprocating compressor subject to this section shall meet one of the following:

(1) Replace the reciprocating compressor rod packing on or before one of the following:

(i) The reciprocating compressor has operated for 26,000 hours. The number of hours of operation must be continuously monitored beginning on the later of:

(A) The date of the most recent reciprocating compressor rod packing replacement.

(B) December 10, 2022, for a reciprocating compressor rod packing that has not yet been replaced.

(ii) The reciprocating compressor has operated for 36 months. The number of months of operation must be continuously monitored beginning on the later of:

SECTION D. Source Level Requirements

(A) The date of the most recent reciprocating compressor rod packing replacement.

(B) December 10, 2025, for a reciprocating compressor rod packing that has not yet been replaced.

(2) [Does not apply]

(c) - (d) [Do not apply]

(e) Recordkeeping and reporting requirements. The owner or operator of a reciprocating compressor or centrifugal compressor subject to this section shall do the following, as applicable:

(1) For a reciprocating compressor, maintain the records under § 129.130(e) (relating to recordkeeping and reporting) and submit the reports under § 129.130(k)(3)(iv).

(2) [Does not apply]

 # 003 [25 Pa. Code §129.127]

Fugitive emissions components

(a) Applicability. This section applies to the owner or operator of a fugitive emissions component subject to § 129.121(a)(5) (relating to general provisions and applicability), located at one or more of the following:

(1) [Does not apply]

(2) A natural gas gathering and boosting station.

(3) [Does not apply]

(b) - (d) [Do not apply]

(e) Requirements for a natural gas gathering and boosting station or a natural gas processing plant. The owner or operator of a natural gas gathering and boosting station or a natural gas processing plant shall conduct the following:

(1) An initial AVO inspection on or before February 8, 2023, with monthly inspections thereafter separated by at least 15 calendar days but not more than 45 calendar days.

(2) An initial LDAR inspection program on or before February 8, 2023, with quarterly inspections thereafter separated by at least 60 calendar days but not more than 120 calendar days using one or more of the following:

(i) OGI equipment.

(ii) A gas leak detector that meets the requirements of EPA Method 21.

(iii) Another leak detection method approved by the Department.

(f) Requirements for extension of the LDAR inspection interval. The owner or operator of an affected facility may request, in writing, an extension of the LDAR inspection interval from the Air Program Manager of the appropriate Department Regional Office.

(g) Fugitive emissions monitoring plan. The owner or operator shall develop, in writing, an emissions monitoring plan that covers the collection of fugitive emissions components at the subject facility within each company-defined area. The written plan must include the following elements:

(1) The technique used for determining fugitive emissions.

(2) A list of fugitive emissions detection equipment, including the manufacturer and model number, that may be used at the facility.

SECTION D. Source Level Requirements

(3) A list of personnel that may conduct the monitoring surveys at the facility, including their training and experience.

(4) The procedure and timeframe for identifying and fixing a fugitive emissions component from which fugitive emissions are detected, including for a component that is unsafe-to-repair.

(5) The procedure and timeframe for verifying fugitive emissions component repairs.

(6) The procedure and schedule for verifying the fugitive emissions detection equipment is operating properly.

(i) For OGI equipment, the verification must be completed as specified in subsection (h).

(ii) For gas leak detection equipment using EPA Method 21, the verification must be completed as specified in subsection (i).

(iii) For a Department-approved method, a copy of the request for approval that shows the method's equivalence to subsection (h) or subsection (i).

(7) A sitemap.

(8) If using OGI, a defined observation path that meets the following:

(i) Ensures that all fugitive emissions components are within sight of the path.

(ii) Accounts for interferences.

(9) If using EPA Method 21, a list of the fugitive emissions components to be monitored and an identification method to locate them in the field.

(10) A written plan for each fugitive emissions component designated as difficult-to-monitor or unsafe-to-monitor which includes the following:

(i) A method to identify a difficult-to-monitor or unsafe-to-monitor component in the field.

(ii) The reason each component was identified as difficult-to-monitor or unsafe-to-monitor.

(iii) The monitoring schedule for each component identified as difficult-to-monitor or unsafe-to-monitor. The monitoring schedule for difficult-to-monitor components must include at least one survey per year no more than 13 months apart.

(h) Verification procedures for OGI equipment. An owner or operator that identifies OGI equipment in the fugitive emissions monitoring plan in subsection (g)(6)(i) shall complete the verification by doing the following:

(1) Demonstrating that the OGI equipment is capable of imaging a gas:

(i) In the spectral range for the compound of highest concentration in the potential fugitive emissions.

(ii) That is half methane, half propane at a concentration of 10,000 ppm at a flow rate of less than or equal to 60 grams per hour (2.115 ounces per hour) from a 1/4-inch diameter orifice.

(2) Performing a verification check each day prior to use.

(3) Determining the equipment operator's maximum viewing distance from the fugitive emissions component and how the equipment operator will ensure that this distance is maintained.

(4) Determining the maximum wind speed during which monitoring can be performed and how the equipment operator will ensure monitoring occurs only at wind speeds below this threshold.

SECTION D. Source Level Requirements

(5) Conducting the survey by using the following procedures:

(i) Ensuring an adequate thermal background is present to view potential fugitive emissions.

(ii) Dealing with adverse monitoring conditions, such as wind.

(iii) Dealing with interferences, such as steam.

(6) Following the manufacturer's recommended calibration and maintenance procedures.

(i) Verification procedures for gas leak detection equipment using EPA Method 21. An owner or operator that identifies gas leak detection equipment using EPA Method 21 in the fugitive emissions monitoring plan in subsection (g)(6)(ii) shall complete the verification by doing the following:

(1) Verifying that the gas leak detection equipment meets:

(i) The requirements of Section 6.0 of EPA Method 21 with a fugitive emissions definition of 500 ppm or greater calibrated as methane using an FID-based instrument.

(ii) A site-specific fugitive emission definition that would be equivalent to subparagraph (i) for other equipment approved for use in EPA Method 21 by the Department.

(2) Using the average composition of the fluid, not the individual organic compounds in the stream, when performing the instrument response factor of Section 8.1.1 of EPA Method 21.

(3) Calculating the average stream response factor on an inert-free basis for process streams that contain nitrogen, air or other inert gases that are not organic hazardous air pollutants or VOCs.

(4) Calibrating the gas leak detection instrument in accordance with Section 10.1 of EPA Method 21 on each day of its use using zero air, defined as a calibration gas with less than 10 ppm by volume of hydrocarbon in air, and a mixture of methane in air at a concentration less than 10,000 ppm by volume as the calibration gases.

(5) Conducting the surveys which, at a minimum, must comply with the relevant sections of EPA Method 21, including Section 8.3.1.

(j) Fugitive emissions detection devices. Fugitive emissions detection devices must be operated and maintained in accordance with manufacturer-recommended procedures and as required by the test method or a Department-approved method.

(k) Background adjustment. For LDAR inspections using a gas leak detector in accordance with EPA Method 21, the owner or operator may choose to adjust the gas leak detection instrument readings to account for the background organic concentration level as determined by the procedures of Section 8.3.2 of EPA Method 21.

(l) Repair and resurvey provisions. The owner or operator shall repair a leak detected from a fugitive emissions component as follows:

(1) A first attempt at repair must be made within 5 calendar days of detection, and repair must be completed no later than 15 calendar days after the leak is detected unless:

(i) The purchase of a part is required. The repair must be completed no later than 10 calendar days after the receipt of the purchased part.

(ii) The repair is technically infeasible because of one of the following reasons:

(A) It requires vent blowdown.

SECTION D. Source Level Requirements

(B) It requires facility shutdown.

(C) It requires a well shut-in.

(D) It is unsafe to repair during operation of the unit.

(iii) A repair that is technically infeasible under subparagraph (ii) must be completed at the earliest of the following:

(A) After a planned vent blowdown.

(B) The next facility shutdown.

(C) Within 2 years.

(2) The owner or operator shall resurvey the fugitive emissions component no later than 30 calendar days after the leak is repaired.

(3) For a repair that cannot be made during the monitoring survey when the leak is initially found, the owner or operator shall do one of the following:

(i) Take a digital photograph of the fugitive emissions component which includes:

(A) The date the photo was taken.

(B) Clear identification of the component by location, such as by latitude and longitude or other descriptive landmarks visible in the picture.

(ii) Tag the component for identification purposes.

(4) A gas leak is considered repaired if:

(i) There is no visible leak image when using OGI equipment calibrated according to subsection (h).

(ii) A leak concentration of less than 500 ppm as methane is detected when the gas leak detector probe inlet is placed at the surface of the fugitive emissions component for a gas leak detector calibrated according to subsection (i).

(iii) There are no detectable emissions consistent with Section 8.3.2 of EPA Method 21.

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

(m) Recordkeeping and reporting requirements. The owner or operator of a fugitive emissions component subject to this section shall maintain the records under § 129.130(g) and submit the reports under § 129.130(k)(3)(vi).

 # 004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.5410]

Subpart OOOO - Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution

How do I demonstrate initial compliance with the standards for my gas well affected facility, centrifugal compressor, reciprocating compressor, pneumatic controller, storage vessel, equipment leaks, sweetening unit affected facilities, at onshore natural gas processing plants?

(a) - (b) [Do not apply]

(c) To achieve initial compliance with the standards for each reciprocating compressor affected facility you must comply with paragraphs (c)(1) through (4) of this section.

(1) If complying with §60.5385(a)(1) or (2), during the initial compliance period, you must continuously monitor the number of hours of operation or track the number of months since the last rod packing replacement.

SECTION D. Source Level Requirements

(2) If complying with §60.5385(a)(3), you must operate the rod packing emissions collection system under negative pressure and route emissions to a process through a closed vent system that meets the requirements of §60.5411(a).

(3) You must submit the initial annual report for your reciprocating compressor as required in §60.5420(b).

(4) You must maintain the records as specified in §60.5420(c)(3) for each reciprocating compressor affected facility.

(d) - (h) [Do not apply]

[77 FR 49542, Aug. 16, 2012, as amended at 78 FR 58437, Sept. 23, 2013; 79 FR 79038, Dec. 31, 2014; 81 FR 35896, June 3, 2016]

 # 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.5415]

Subpart OOOO - Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution

How do I demonstrate continuous compliance with the standards for my gas well affected facility, my centrifugal compressor, stationary reciprocating compressor, pneumatic controller, storage vessel affected facilities, and my affected facilities at onshore natural gas processing plants?

(a) - (b) [Do not apply]

(c) For each reciprocating compressor affected facility complying with §60.5385(a)(1) or (2), you must demonstrate continuous compliance according to paragraphs (c)(1) through (3) of this section. For each reciprocating compressor affected facility complying with §60.5385(a)(3), you must demonstrate continuous compliance according to paragraph (c)(4) of this section.

(1) You must continuously monitor the number of hours of operation for each reciprocating compressor affected facility or track the number of months since initial startup, or October 15, 2012, or the date of the most recent reciprocating compressor rod packing replacement, whichever is later.

(2) You must submit the annual report as required in §60.5420(b) and maintain records as required in §60.5420(c)(3).

(3) You must replace the reciprocating compressor rod packing before the total number of hours of operation reaches 26,000 hours or the number of months since the most recent rod packing replacement reaches 36 months.

(4) You must operate the rod packing emissions collection system under negative pressure and continuously comply with the closed vent requirements in §60.5416(a) and (b).

(d) - (g) [Do not apply]

[77 FR 49542, Aug. 16, 2012, as amended at 78 FR 58442, Sept. 23, 2013; 79 FR 79039, Dec. 31, 2014; 81 FR 35897, June 3, 2016]

IV. RECORDKEEPING REQUIREMENTS.

 # 006 [25 Pa. Code §129.130]

Recordkeeping and reporting

(a) Recordkeeping. The owner or operator of a source subject to § § 129.121—129.129 shall maintain the applicable records onsite or at the nearest local field office for 5 years. The records shall be made available to the Department upon request.

(b) - (d) [Do not apply]

(e) Reciprocating compressors. The records for each reciprocating compressor must include the following, as applicable:

(1) For a reciprocating compressor under § 129.126(b)(1)(i) (relating to compressors), the following records:

(i) The cumulative number of hours of operation.

(ii) The date and time of each rod packing replacement.

(2) For a reciprocating compressor under § 129.126(b)(1)(ii), the following records:

(i) The number of months since the previous replacement of the rod packing.

(ii) The date of each rod packing replacement.

(3) [Does not apply]

(4) Each deviation when the reciprocating compressor was not operated in compliance with § 129.126(b).

(f) [Does not apply]

(g) Fugitive emissions components. The records for each fugitive emissions component must include the following, as applicable:

(1) - (2) [Do not apply]

(3) For a well site subject to § 129.127(c)(2) or (c)(3), a natural gas gathering and boosting station or a natural gas processing plant:

(i) The fugitive emissions monitoring plan under § 129.127(g).

(ii) The records of each monitoring survey conducted under § 129.127(c)(2)(ii), (c)(3)(ii) or (e)(2). The monitoring survey must include the following information:

(A) The facility name and location.

(B) The date, start time and end time of the survey.

(C) The name of the equipment operator performing the survey.

(D) The monitoring instrument used.

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

(F) Each deviation from the monitoring plan or a statement that there were none.

(G) Documentation of each fugitive emission including:

(I) The identification of each component from which fugitive emissions were detected.

(II) The instrument reading of each fugitive emissions component that meets the definition of a leak under § 129.122(a) (relating to definitions, acronyms and EPA methods).

(III) The repair methods applied in each attempt to repair the component.

(IV) The tagging or digital photographing of each component not repaired during the monitoring survey in which the fugitive emissions were discovered.

(V) The reason a component was placed on delay of repair.

(VI) The date of successful repair of the component.

(VII) If repair of the component was not completed during the monitoring survey in which the fugitive emissions were

SECTION D. Source Level Requirements

discovered, the information on the instrumentation or the method used to resurvey the component after repair.

(h) - (j) [Do not apply]

(k) [Printed under Reporting Requirements in this section of permit.]

 # 007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.5420]

Subpart OOOO - Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution

What are my notification, reporting, and recordkeeping requirements?

[40 CFR §60.5420(c):]

(c) Recordkeeping requirements. You must maintain the records identified as specified in §60.7(f) and in paragraphs (c)(1) through (14) of this section. All records required by this subpart must be maintained either onsite or at the nearest local field office for at least 5 years.

(1) - (2) [Do not apply]

(3) For each reciprocating compressors affected facility, you must maintain the records in paragraphs (c)(3)(i) through (iii) of this section.

(i) Records of the cumulative number of hours of operation or number of months since initial startup or October 15, 2012, or the previous replacement of the reciprocating compressor rod packing, whichever is later.

(ii) Records of the date and time of each reciprocating compressor rod packing replacement, or date of installation of a rod packing emissions collection system and closed vent system as specified in §60.5385(a)(3).

(iii) Records of deviations in cases where the reciprocating compressor was not operated in compliance with the requirements specified in §60.5385.

(4) - (14) [Do not apply]

V. REPORTING REQUIREMENTS.

 # 008 [25 Pa. Code §129.130]

Recordkeeping and reporting

[25 Pa. code § 129.130(k):]

(k) Reporting. The owner or operator of a source subject to § 129.121(a) (relating to general provisions and applicability) shall do the following:

(1) Submit an initial annual report to the Air Program Manager of the appropriate Department Regional Office by December 10, 2023, and annually thereafter on or before June 1.

(i) The responsible official must sign, date and certify compliance and include the certification in the initial report and each subsequent annual report.

(ii) The due date of the initial report may be extended with the written approval of the Air Program Manager of the appropriate Department Regional Office.

(2) Submit the reports under paragraph (3) in a manner prescribed by the Department.

(3) Submit the information specified in subparagraphs (i)—(ix) for each report as applicable:

(i) - (iii) [Do not apply]

(iv) Reciprocating compressors. The report for each reciprocating compressor must include the information specified in

SECTION D. Source Level Requirements

subsection (e) for the reporting period, as applicable.

(v) [Does not apply]

(vi) Fugitive emissions components. The report for each fugitive emissions component must include the records of each monitoring survey conducted during the reporting period as specified in subsection (g)(3)(ii).

(vii) - (ix) [Do not apply]

 # 009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.5420]

Subpart OOOO - Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution

What are my notification, reporting, and recordkeeping requirements?

(a) You must submit the notifications according to paragraphs (a)(1) and (2) of this section if you own or operate one or more of the affected facilities specified in §60.5365 that was constructed, modified, or reconstructed during the reporting period.

(1) If you own or operate a gas well, pneumatic controller, centrifugal compressor, reciprocating compressor or storage vessel affected facility you are not required to submit the notifications required in §60.7(a)(1), (3), and (4).

(2) [Does not apply]

(b) Reporting requirements. You must submit annual reports containing the information specified in paragraphs (b)(1) through (6) of this section to the Administrator and performance test reports as specified in paragraph (b)(7) or (8) of this section. The initial annual report is due no later than 90 days after the end of the initial compliance period as determined according to §60.5410. Subsequent annual reports are due no later than same date each year as the initial annual report. If you own or operate more than one affected facility, you may submit one report for multiple affected facilities provided the report contains all of the information required as specified in paragraphs (b)(1) through (6) of this section. Annual reports may coincide with title V reports as long as all the required elements of the annual report are included. You may arrange with the Administrator a common schedule on which reports required by this part may be submitted as long as the schedule does not extend the reporting period.

(1) The general information specified in paragraphs (b)(1)(i) through (iv) of this section.

(i) The company name and address of the affected facility.

(ii) An identification of each affected facility being included in the annual report.

(iii) Beginning and ending dates of the reporting period.

(iv) A certification by a certifying official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(2) - (3) [Do not apply]

(4) For each reciprocating compressor affected facility, the information specified in paragraphs (b)(4)(i) through (ii) of this section.

(i) The cumulative number of hours of operation or the number of months since initial startup, since October 15, 2012, or since the previous reciprocating compressor rod packing replacement, whichever is later.

(ii) Records of deviations specified in paragraph (c)(3)(iii) of this section that occurred during the reporting period.

(5) - (6) [Do not apply]

(7)(i) [Does not apply]

SECTION D. Source Level Requirements

(ii) All reports, except as specified in paragraph (b)(8) of this section, required by this subpart not subject to the requirements in paragraph (a)(2)(i) of this section must be sent to the Administrator at the appropriate address listed in §60.4 of this part. The Administrator or the delegated authority may request a report in any form suitable for the specific case (e.g., by commonly used electronic media such as Excel spreadsheet, on CD or hard copy).

(8) [Does not apply]

(c) [Printed under Recordkeeping Requirements in this section of permit.]

[77 FR 49542, Aug. 16, 2012, as amended at 78 FR 58445, Sept. 23, 2013; 79 FR 79039, Dec. 31, 2014; 81 FR 35897, June 3, 2016; 85 FR 57069, Sept. 14, 2020; 89 FR 17036, Mar. 8, 2024]

VI. WORK PRACTICE REQUIREMENTS.

 # 010 [25 Pa. Code §127.622]

Compliance with general plan approvals and general operating permit conditions.

If any leak is detected, the owner or operator of the facility shall repair the leak as expeditiously as practicable, but no later than fifteen (15) days after the leak is detected, except as provided in 40 CFR 60.482-9. The owner or operator shall record each leak detected and the associated repair activity. These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

[GP5-10-00390A & B, Section H, Condition #3.]

 # 011 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.5370]

Subpart OOOO - Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution

When must I comply with this subpart?

(a) You must be in compliance with the standards of this subpart no later than October 15, 2012 or upon startup, whichever is later.

(b) At all times, including periods of startup, shutdown, and malfunction, owners and operators shall maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(c) - (d) [Do not apply]

[77 FR 49542, Aug. 16, 2012, as amended at 81 FR 35896, June 3, 2016]

 # 012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.5385]

Subpart OOOO - Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution

What standards apply to reciprocating compressor affected facilities?

You must comply with the standards in paragraphs (a) through (d) of this section for each reciprocating compressor affected facility.

(a) You must replace the reciprocating compressor rod packing according to either paragraph (a)(1) or (2) of this section or you must comply with paragraph (a)(3) of this section.

(1) Before the compressor has operated for 26,000 hours. The number of hours of operation must be continuously monitored beginning upon initial startup of your reciprocating compressor affected facility, or October 15, 2012, or the date of the most recent reciprocating compressor rod packing replacement, whichever is later.

(2) Prior to 36 months from the date of the most recent rod packing replacement, or 36 months from the date of startup for a new reciprocating compressor for which the rod packing has not yet been replaced.

(3) Collect the emissions from the rod packing using a rod packing emissions collection system which operates under

negative pressure and route the rod packing emissions to a process through a closed vent system that meets the requirements of §60.5411(a).

(b) You must demonstrate initial compliance with standards that apply to reciprocating compressor affected facilities as required by §60.5410.

(c) You must demonstrate continuous compliance with standards that apply to reciprocating compressor affected facilities as required by §60.5415.

(d) You must perform the required notification, recordkeeping, and reporting as required by §60.5420.

[77 FR 49542, Aug. 16, 2012, as amended at 79 FR 79037, Dec. 31, 2014]

VII. ADDITIONAL REQUIREMENTS.

 # 013 [25 Pa. Code §129.121]

General provisions and applicability

(a) Applicability. Beginning December 10, 2022, this section and § § 129.122—129.130 apply to an owner or operator of one or more of the following unconventional oil and natural gas sources of VOC emissions installed at an unconventional well site, a gathering and boosting station or a natural gas processing plant in this Commonwealth which were constructed on or before December 10, 2022:

(1) - (3) [Do not apply]

(4) Reciprocating compressors and centrifugal compressors.

(5) Fugitive emissions components.

(b) [Does not apply]

 # 014 [25 Pa. Code §129.122]

Definitions, acronyms and EPA methods

[Refer to 25 Pa. Code § 129.122 for a list of definitions, acronyms, and EPA methods applicable to § 129.121-129.130]

 # 015 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.5360]

Subpart OOOO - Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution

What is the purpose of this subpart?

This subpart establishes emission standards and compliance schedules for the control of volatile organic compounds (VOC) and sulfur dioxide (SO2) emissions from affected facilities that commence construction, modification, or reconstruction after August 23, 2011, and on or before September 18, 2015.

[89 FR 17035, Mar. 8, 2024]

 # 016 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.5365]

Subpart OOOO - Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution

Am I subject to this subpart?

You are subject to the applicable provisions of this subpart if you are the owner or operator of one or more of the onshore affected facilities listed in paragraphs (a) through (g) of this section for which you commence construction, modification, or reconstruction after August 23, 2011, and on or before September 18, 2015. An affected facility must continue to comply with the requirements of this subpart until it begins complying with a more stringent requirement, that applies to the same affected facility, in an approved, and effective, state or Federal plan that implements subpart OOOOc of this part, or modifies or reconstructs after December 6, 2022, and thus becomes subject to subpart OOOOb of this part.

(a) - (b) [Do not apply]

(c) Each reciprocating compressor affected facility, which is a single reciprocating compressor located between the

SECTION D. Source Level Requirements

wellhead and the point of custody transfer to the natural gas transmission and storage segment. A reciprocating compressor located at a well site, or an adjacent well site and servicing more than one well site, is not an affected facility under this subpart.

(d) - (e) [Do not apply]

(f) The group of all equipment, except compressors, within a process unit is an affected facility.

(1) Addition or replacement of equipment for the purpose of process improvement that is accomplished without a capital expenditure shall not by itself be considered a modification under this subpart.

(2) Equipment associated with a compressor station, dehydration unit, sweetening unit, underground storage vessel, field gas gathering system, or liquefied natural gas unit is covered by §§60.5400, 60.5401, 60.5402, 60.5421, and 60.5422 of this subpart if it is located at an onshore natural gas processing plant. Equipment not located at the onshore natural gas processing plant site is exempt from the provisions of §§60.5400, 60.5401, 60.5402, 60.5421, and 60.5422 of this subpart.

(3) [Does not apply]

(g) - (h) [Do not apply]

[77 FR 49542, Aug. 16, 2012, as amended at 78 FR 58435, Sept. 23, 2013; 79 FR 79036, Dec. 31, 2014; 80 FR 48268, Aug. 12, 2015; 81 FR 35896, June 3, 2016; 85 FR 57069, Sept. 14, 2020; 89 FR 17035, Mar. 8, 2024]

 # 017 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.5425]

Subpart OOOO - Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution

What part of the General Provisions apply to me?

Table 3 to this subpart shows which parts of the General Provisions in §§60.1 through 60.19 apply to you.

[Refer to Table 3 to Subpart OOOO of Part 60 for applicability of General Provisions.]

 # 018 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.5430]

Subpart OOOO - Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution

What definitions apply to this subpart?

[Refer to 40 CFR §60.5430 for definitions applicable to Subpart OOOO.]

SECTION D. Source Level Requirements

Source ID: 801 Source Name: PIGGING OPERATIONS

Source Capacity/Throughput: N/A NATURAL GAS/LIGHT OIL/WATEF

PROC 801 → STAC Z801

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

 # 001 [25 Pa. Code §127.622]

Compliance with general plan approvals and general operating permit conditions.

For each pigging operation, the owner or operator shall maintain the following records, including information on:

(a) The identification, location, and date of construction of each pig launcher or receiver;

(b) Records of each pigging operation including the identification of the pig chamber used, the date and time of the pigging operation, and the type and volume of liquids cleared; and

(c) The emissions calculation for each pig chamber, using the Department's spreadsheet found at http://files.dep.state.pa.us/ or other equivalent method.

[GP5-10-00390A & B, Section K, Condition #2.]

V. REPORTING REQUIREMENTS.

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The emissions from each pigging operation conducted during the reporting period must be included in the emissions inventory report.

[From Civil Action No. 2:18-cv-00520-LPL Document 2-1 Filed 04/24/18, Condition #11:]

For purposes of compliance with the Consent Decree, the facility shall calculate the mass of VOC emissions from pigging operations using the Real Gas Law multiplied by a factor of 1.2.

VI. WORK PRACTICE REQUIREMENTS.

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

For each launcher or receiver located at this facility, the facility shall install and use liquid containers with grounded steel

SECTION D. Source Level Requirements

receptacles that are covered at all times when not in use.

[Civil Action No. 2:18-cv-00520-LPL Document 2-1 Filed 04/24/18, Condition #23.]

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

While conducting pigging operations, the facility shall:

(a) Connect each high pressure pig launcher and receiver by Jumper Lines to a low pressure gathering line;

(b) Operate Jumper Lines to depressurize such launchers and receivers prior to opening the launcher or receiver hatch; and

(c) Install and use Pig Ramps in pig receivers.

[Civil Action No. 2:18-cv-00520-LPL Document 2-1 Filed 04/24/18, Condition #12.]

 # 005 [25 Pa. Code §127.622]

Compliance with general plan approvals and general operating permit conditions.

The owner or operator that conducts pigging operations shall employ best management practices to minimize the liquids present in the pig receiver chamber and to minimize emissions from the pig receiver chamber including, but not limited to, installing liquids ramps, installing liquids drain, routing high-pressure chambers to a low-pressure line or vessel, using ball valve type chambers, or using multiple pig chambers. The selection of the appropriate best management practices must be documented in future operating permit applications.

[GP5-10-00390A & B, Section K, Condition #1(a).]

VII. ADDITIONAL REQUIREMENTS.

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

SECTION E. Source Group Restrictions.

Group Name: COMPRESSOR ENGINES

Group Description: GP5 and NSPS requirements for the compressor engines.

Sources included in this group

ID	Name
101	2370 BHP, CAT G3608TA COMP ENG, UNIT CM-250, SN BEN00960
102	2370 BHP, CAT G3608TA COMP ENG, UNIT CM-260, SN BEN00963
103	2370 BHP, CAT G3608TA COMP ENG, UNIT CM-270, SN BEN00965
104	3550 BHP, CAT G3612TA COMP ENG, UNIT CM-280, SN BKE00687
105	3550 BHP, CAT G3612TA COMP ENG, UNIT CM-290, SN BKE00725
106	3550 BHP, CAT G3612TA COMP ENG, UNIT CM-300, SN BKE00727

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from this process in a manner that the concentration of particulate matter in the effluent gas exceeds .04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

 # 002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO2, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

 # 003 [25 Pa. Code §127.622]

Compliance with general plan approvals and general operating permit conditions.

(a) In accordance with 25 Pa. Code §§ 127.1 and 127.12(a)(5), a new engine for which construction or reconstruction commenced after the effective date of this General Permit shall not exceed the emissions standards specified in the following table:

Engine Type	Rated bhp	NOx	CO	NMNEHC as propane (excluding HCHO)	HCHO
NG-fired Lean-burn	>500	0.50 gm/bhp-hr	47 ppmvd @ 15% O2 or 93% reduction	0.25 gm/bhp-hr	0.05 gm/bhp-hr

(b) In accordance with 25 Pa. Code §§ 127.1 and 127.12(a)(5), visible emissions from the engine shall not exceed either of the following limitations:

(i) Equal to or greater than 10 percent for a period or periods aggregating more than three (3) minutes in any one (1)-hour; and

(ii) Equal to or greater than 30 percent at any time.

[GP5-10-00390A & B, Section B, Condition #2. Streamlines the emission restrictions of 40 CFR §60.4233]

 # 004 [25 Pa. Code §127.622]

Compliance with general plan approvals and general operating permit conditions.

The emission limitations specified in Condition #003, above, shall apply at all times except during periods of start-up and shut-down provided that the duration of start-up and shut down does not exceed 30 minutes per occurrence. The owner or operator shall operate the engine in a manner consistent with good air pollution control practices for minimizing emissions at all times, including periods of startup and shutdown. The emissions from start-up and shut-down shall be included in the 12-month rolling sum of emissions. The owner or operator of the engine shall comply with all applicable start-up and shut-down requirements in accordance with 40 CFR Part 60, Subpart JJJJ, and 40 CFR Part 63, Subpart ZZZZ.

SECTION E. Source Group Restrictions.

[GP5-10-00390A & B, Section B, Condition #3.]

II. TESTING REQUIREMENTS.

 # 005 [25 Pa. Code §127.622]

Compliance with general plan approvals and general operating permit conditions.

(a) Within 60 days after achieving the normal production rate at which the engine or turbine will be operated, but not later than 180 days after initial start-up of the source/control device, a stack test shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection. The stack test shall be performed while the aforementioned source is operating at the maximum or normal rated capacity as stated on the application. The stack test shall be conducted for total particulate matter emissions using Method 5 of Part 60 and EPA Test Method 202, for NOx using Method 7E of Part 60, for CO using Method 10 of Part 60, for NMNEHC using Methods 25A and 18 of Part 60 or Method 25A and Method 320 of Part 63, and for HCHO using Method 320 or Method 328 of Part 63, or another Department approved method.

(1) At least 90 calendar days prior to commencing an emissions testing program, a test protocol shall be submitted to the Department for review and approval in accordance with paragraph (i) of this condition. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

(2)(i) When testing of a source is required on a recurring basis, a single procedural protocol may be submitted for approval; thereafter, a letter, submitted at least 90 calendar days prior to commencing an emissions testing program, referencing the previously approved procedural protocol is sufficient if the letter is approved by the Department. The letter shall be submitted as required in paragraph (a). If modifications are made to the process(es), if a different stack testing company is used, or if an applicable section of the stack test manual has been revised since the approval, a new protocol shall be submitted for approval.

(ii) Any testing protocol that was approved by the Department Division of Source Testing prior to September 1, 2023, shall not be used unless specifically re-approved by the Department. The permittee shall contact the Division of Source Testing for a request to re-use any protocol approved prior to September 1, 2023.

(3) Pursuant to 25 Pa. Code §§ 139.53(a)(1) and 139.53(a)(3):

(i) Submittals pertaining to emissions testing, specifically test protocols and test reports, shall be made by emailing electronic copies submissions to both PSIMS Administration in Central Office and to the Regional Office AQ Program at the following e-mail addresses:

CENTRAL OFFICE:
RA-EPstacktesting@pa.gov

NORTHWEST REGIONAL OFFICE:
RA-EPNWstacktesting@pa.gov

(ii) The notifications of emissions testing dates shall be submitted directly to:

(A) the DEP's OnBase electronic upload website where it will be forwarded to the Northwest Regional Office Air Quality Inspector. Upload the written notification at this web address:
https://www.dep.pa.gov/DataandTools/Pages/Application-Form-Upload.aspx

(B) IF the Protocol Reviewer at Central Office Division of Source Testing requested a copy of the notification, then submit a copy to the email address provided by the protocol reviewer.

(4) At least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the Department in accordance with paragraph (c) of this condition. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.

SECTION E. Source Group Restrictions.

(5) If the proposed testing did not occur per the required notification in paragraph (d) above, an electronic notification shall be sent within 15 calendar days after the expected completion date of the onsite testing to the Department, in accordance with paragraph (c) of this condition, indicating why the proposed completion date of the on-site testing was not adhered to.

(6) A complete test report shall be submitted to the Department no later than 60 calendar days after completion of the onsite testing portion of an emission test program.

(7) A complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or non-compliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:

(i) A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.

(ii) Permit number(s) and condition(s) which are the basis for the evaluation.

(iii) Summary of results with respect to each applicable permit condition.

(iv) Statement of compliance or non-compliance with each applicable permit condition.

(8) Pursuant to 25 Pa. Code § 139.3, all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

(9) All testing shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection.

(10) The permittee shall ensure all federal reporting requirements contained in the applicable subpart of 40 CFR are followed, including timelines more stringent than those contained herein. In the event of an inconsistency or any conflicting requirements between state and the federal, the most stringent provision, term, condition, method or rule shall be used by default.

(11) Actions Related to Noncompliance Demonstrated by a Stack Test:

(i) If the results of a stack test, performed as required by this approval, exceed the level specified in any condition of this approval, the Permittee shall take appropriate corrective actions. Within 30 days of the Permittee receiving the stack test results, a written description of the corrective actions shall be submitted to the Department. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. The Department shall notify the Permittee within 30 days, if the corrective actions taken are deficient. Within 30 days of receipt of the notice of deficiency, the Permittee shall submit a description of additional corrective actions to the Department. The Department reserves the authority to use enforcement activities to resolve noncompliant stack tests.

(ii) If the results of the required stack test exceed any limit defined in this plan approval, the test was not performed in accordance with the stack test protocol or the source and/or air cleaning device was not operated in accordance with the plan approval, then another stack test shall be performed to determine compliance. Within 120 days of the Permittee receiving the original stack test results, a retest shall be performed. The Department may extend the retesting deadline if the Permittee demonstrates, to the Department's satisfaction, that retesting within 120 days is not practicable. Failure of the second test to demonstrate compliance with the limits in the plan approval, not performing the test in accordance with the stack test protocol or not operating the source and/or air cleaning device in accordance with the plan approval may be grounds for immediate revocation of the plan approval to operate the affected source.

(b) In addition to the source testing required by (a), every 2,500 hours of operation and no sooner than forty-five (45) days from the previous test, the owner or operator shall perform periodic monitoring for NOx and CO emissions to verify continued compliance upon each of the respective engines. A Department-approved test that has been performed within 45 days prior to the scheduled periodic monitoring may be used in lieu of the periodic monitoring for that time period. A portable gas analyzer may be used to satisfy the requirements of this condition utilizing three test runs of twenty (20) minutes for each test run. The Department may alter the frequency of portable analyzer tests based on the test results. The frequency of portable gas analyzer tests may be altered with written Department approval. The portable gas analyzer shall

SECTION E. Source Group Restrictions.

be used and maintained according to the manufacturer's specifications and the procedures specified in ASTM D 6522 or equivalent as approved by the Department.

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

[GP5-10-00390A & B, Section A, Condition #22, and Section B, Condition #4.]

 # 006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4243]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

What are my compliance requirements if I am an owner or operator of a stationary SI internal combustion engine?

(a) [Does not apply]

(b) If you are an owner or operator of a stationary SI internal combustion engine and must comply with the emission standards specified in §60.4233(d) or (e), you must demonstrate compliance according to one of the methods specified in paragraphs (b)(1) and (2) of this section.

(1) Purchasing an engine certified according to procedures specified in this subpart, for the same model year and demonstrating compliance according to one of the methods specified in paragraph (a) of this section.

[40 CFR §60.4243(a):]

(1) If you operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, you must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required if you are an owner or operator. You must also meet the requirements as specified in 40 CFR part 1068, subparts A through D, as they apply to you. If you adjust engine settings according to and consistent with the manufacturer's instructions, your stationary SI internal combustion engine will not be considered out of compliance.

(2) If you do not operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, your engine will be considered a non-certified engine, and you must demonstrate compliance according to (a)(2)(i) through (iii) of this section, as appropriate.

(i) - (ii) [Do not apply]

(iii) If you are an owner or operator of a stationary SI internal combustion engine greater than 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test within 1 year of engine startup and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance.

---

(2) Purchasing a non-certified engine and demonstrating compliance with the emission standards specified in §60.4233(d) or (e) and according to the requirements specified in §60.4244, as applicable, and according to paragraphs (b)(2)(i) and (ii) of this section.

(i) [Does not apply]

(ii) If you are an owner or operator of a stationary SI internal combustion engine greater than 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance.

(c) - (f) [Do not apply]

(g) [Printed under Work Practice Requirements in this section of permit.]

SECTION E. Source Group Restrictions.

(h) - (i) [Do not apply]

[73 FR 3591, Jan. 18, 2008, as amended at 76 FR 37974, June 28, 2011; 78 FR 6697, Jan. 30, 2013; 86 FR 34362, June 29, 2021; 87 FR 48606, Aug. 10, 2022]

 # 007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4244]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

What test methods and other procedures must I use if I am an owner or operator of a stationary SI internal combustion engine?

Owners and operators of stationary SI ICE who conduct performance tests must follow the procedures in paragraphs (a) through (f) of this section.

(a) Each performance test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and according to the requirements in §60.8 and under the specific conditions that are specified by Table 2 to this subpart.

[From Table 2 to Subpart JJJJ of Part 60 - Requirements for Performance Tests]

1. For each stationary SI internal combustion engine demonstrating compliance according to §60.4244 complying with the requirement to:

a. limit the concentration of NOX in the stationary SI internal combustion engine exhaust, you must:

i. Select the sampling port location and the number/location of traverse points at the exhaust of the stationary internal combustion engine;

ii. Determine the O2 concentration of the stationary internal combustion engine exhaust at the sampling port location;

iii. If necessary, determine the exhaust flowrate of the stationary internal combustion engine exhaust;

iv. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and

v. Measure NOX at the exhaust of the stationary internal combustion engine; if using a control device, the sampling site must be located at the outlet of the control device

Using:

(1) Method 1 or 1A of 40 CFR part 60, appendix A-1, if measuring flow rate

(2) Method 3, 3A, or 3B[b] of 40 CFR part 60, appendix A-2 or ASTM Method D6522-00 (Reapproved 2005)[a][d]

(3) Method 2 or 2C of 40 CFR part 60, appendix A-1 or Method 19 of 40 CFR part 60, appendix A-7

(4) Method 4 of 40 CFR part 60, appendix A-3, Method 320 of 40 CFR part 63, appendix A[e], or ASTM Method D6348-03[d][e]

(5) Method 7E of 40 CFR part 60, appendix A-4, ASTM Method D6522-00 (Reapproved 2005)[a][d], Method 320 of 40 CFR part 63, appendix A[e], or ASTM Method D6348-03[d][e]

According to the following requirements:

(a) Alternatively, for NOX, O2, and moisture measurement, ducts =<6 inches in diameter may be sampled at a single point located at the duct centroid and ducts >6 and =<12 inches in diameter may be sampled at 3 traverse points located at 16.7, 50.0, and 83.3% of the measurement line (`3-point long line'). If the duct is >12 inches in diameter and the sampling port location meets the two and half-diameter criterion of Section 11.1.1 of Method 1 of 40 CFR part 60, Appendix A, the duct may be sampled at `3-point long line'; otherwise, conduct the stratification testing and select sampling points according to Section 8.1.2 of Method 7E of 40 CFR part 60, Appendix A.

SECTION E. Source Group Restrictions.

(b) Measurements to determine O2 concentration must be made at the same time as the measurements for NOX concentration.

(c) Measurements to determine the exhaust flowrate must be made (1) at the same time as the measurement for NOX concentration or, alternatively (2) according to the option in Section 11.1.2 of Method 1A of 40 CFR part 60, Appendix A-1, if applicable.

(d) Measurements to determine moisture must be made at the same time as the measurement for NOX concentration.

(e) Results of this test consist of the average of the three 1-hour or longer runs.

b. limit the concentration of CO in the stationary SI internal combustion engine exhaust, you must:

i. Select the sampling port location and the number/location of traverse points at the exhaust of the stationary internal combustion engine;

ii. Determine the O2 concentration of the stationary internal combustion engine exhaust at the sampling port location;

iii. If necessary, determine the exhaust flowrate of the stationary internal combustion engine exhaust;

iv. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and

v. Measure CO at the exhaust of the stationary internal combustion engine; if using a control device, the sampling site must be located at the outlet of the control device

Using:

(1) Method 1 or 1A of 40 CFR part 60, appendix A-1, if measuring flow rate

(2) Method 3, 3A, or 3B[b] of 40 CFR part 60, appendix A-2 or ASTM Method D6522-00 (Reapproved 2005)[a][d]

(3) Method 2 or 2C of 40 CFR 60, appendix A-1 or Method 19 of 40 CFR part 60, appendix A-7

(4) Method 4 of 40 CFR part 60, appendix A-3, Method 320 of 40 CFR part 63, appendix A[e], or ASTM Method D6348-03[d][e]

(5) Method 10 of 40 CFR part 60, appendix A4, ASTM Method D6522-00 (Reapproved 2005)[a][d][e], Method 320 of 40 CFR part 63, appendix A[e], or ASTM Method D6348-03[d][e]

According to the following requirements:

(a) Alternatively, for CO, O2, and moisture measurement, ducts =<6 inches in diameter may be sampled at a single point located at the duct centroid and ducts >6 and =<12 inches in diameter may be sampled at 3 traverse points located at 16.7, 50.0, and 83.3% of the measurement line (`3-point long line'). If the duct is >12 inches in diameter and the sampling port location meets the two and half-diameter criterion of Section 11.1.1 of Method 1 of 40 CFR part 60, Appendix A, the duct may be sampled at `3-point long line'; otherwise, conduct the stratification testing and select sampling points according to Section 8.1.2 of Method 7E of 40 CFR part 60, Appendix A.

(b) Measurements to determine O2 concentration must be made at the same time as the measurements for CO concentration.

(c) Measurements to determine the exhaust flowrate must be made (1) at the same time as the measurement for CO concentration or, alternatively (2) according to the option in Section 11.1.2 of Method 1A of 40 CFR part 60, Appendix A-1, if applicable.

(d) Measurements to determine moisture must be made at the same time as the measurement for CO concentration.

SECTION E. Source Group Restrictions.

(e) Results of this test consist of the average of the three 1-hour or longer runs.

c. limit the concentration of VOC in the stationary SI internal combustion engine exhaust, you must:

i. Select the sampling port location and the number/location of traverse points at the exhaust of the stationary internal combustion engine;

ii. Determine the O2 concentration of the stationary internal combustion engine exhaust at the sampling port location;

iii. If necessary, determine the exhaust flowrate of the stationary internal combustion engine exhaust;

iv. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and

v. Measure VOC at the exhaust of the stationary internal combustion engine; if using a control device, the sampling site must be located at the outlet of the control device

Using:

(1) Method 1 or 1A of 40 CFR part 60, appendix A-1, if measuring flow rate

(2) Method 3, 3A, or 3B[b] of 40 CFR part 60, appendix A-2 or ASTM Method D6522-00 (Reapproved 2005)[a][d]

(3) Method 2 or 2C of 40 CFR 60, appendix A-1 or Method 19 of 40 CFR part 60, appendix A-7

(4) Method 4 of 40 CFR part 60, appendix A-3, Method 320 of 40 CFR part 63, appendix A[e], or ASTM Method D6348-03[d][e]

(5) Methods 25A and 18 of 40 CFR part 60, appendices A-6 and A-7, Method 25A with the use of a hydrocarbon cutter as described in 40 CFR 1065.265, Method 18 of 40 CFR part 60, appendix A-6[c][e], Method 320 of 40 CFR part 63, appendix A[e], or ASTM Method D6348-03[d][e]

According to the following requirements:

(a) Alternatively, for VOC, O2, and moisture measurement, ducts =<6 inches in diameter may be sampled at a single point located at the duct centroid and ducts >6 and =<12 inches in diameter may be sampled at 3 traverse points located at 16.7, 50.0, and 83.3% of the measurement line (`3-point long line'). If the duct is >12 inches in diameter and the sampling port location meets the two and half-diameter criterion of Section 11.1.1 of Method 1 of 40 CFR part 60, Appendix A, the duct may be sampled at `3-point long line'; otherwise, conduct the stratification testing and select sampling points according to Section 8.1.2 of Method 7E of 40 CFR part 60, Appendix A.

(b) Measurements to determine O2 concentration must be made at the same time as the measurements for VOC concentration.

(c) Measurements to determine the exhaust flowrate must be made (1) at the same time as the measurement for VOC concentration or, alternatively (2) according to the option in Section 11.1.2 of Method 1A of 40 CFR part 60, Appendix A-1, if applicable.

(d) Measurements to determine moisture must be made at the same time as the measurement for VOC concentration.

(e) Results of this test consist of the average of the three 1-hour or longer runs.

Notes:
[a] Also, you may petition the Administrator for approval to use alternative methods for portable analyzer.
[b] You may use ASME PTC 19.10-1981, Flue and Exhaust Gas Analyses, for measuring the O2 content of the exhaust gas as an alternative to EPA Method 3B. AMSE PTC 19.10-1981 incorporated by reference, see 40 CFR 60.17
[c] You may use EPA Method 18 of 40 CFR part 60, appendix A-6, provided that you conduct an adequate pre-survey test

SECTION E. Source Group Restrictions.

prior to the emissions test, such as the one described in OTM 11 on EPA's Web site (http://www.epa.gov/ttn/emc/prelim/otm11.pdf).
[d] Incorporated by reference; see 40 CFR 60.17.
[e] You must meet the requirements in §60.4245(d).

[85 FR 63408, Oct. 7, 2020]

(b) You may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in §60.8(c). If your stationary SI internal combustion engine is non-operational, you do not need to startup the engine solely to conduct a performance test; however, you must conduct the performance test immediately upon startup of the engine.

(c) You must conduct three separate test runs for each performance test required in this section, as specified in §60.8(f). Each test run must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and last at least 1 hour.

(d) To determine compliance with the NOX mass per unit output emission limitation, convert the concentration of NOX in the engine exhaust using Equation 1 of this section:

ER = (Cd * 1.912 * (10**-3) * Q * T) / HP-hr (Equation 1)

Where:
ER = Emission rate of NOX in g/HP-hr.
Cd = Measured NOX concentration in parts per million by volume (ppmv).
1.912 × 10-3 = Conversion constant for ppm NOX to grams per standard cubic meter at 20 degrees Celsius.
Q = Stack gas volumetric flow rate, in standard cubic meter per hour, dry basis.
T = Time of test run, in hours.
HP-hr = Brake work of the engine, horsepower-hour (HP-hr).

(e) To determine compliance with the CO mass per unit output emission limitation, convert the concentration of CO in the engine exhaust using Equation 2 of this section:

ER = (Cd * 1.164 * (10**-3) * Q * T) / HP-hr (Equation 2)

Where:
ER = Emission rate of CO in g/HP-hr.
Cd = Measured CO concentration in ppmv.
1.164 × 10-3 = Conversion constant for ppm CO to grams per standard cubic meter at 20 degrees Celsius.
Q = Stack gas volumetric flow rate, in standard cubic meters per hour, dry basis.
T = Time of test run, in hours.
HP-hr = Brake work of the engine, in HP- hr.

(f) For purposes of this subpart, when calculating emissions of VOC, emissions of formaldehyde should not be included. To determine compliance with the VOC mass per unit output emission limitation, convert the concentration of VOC in the engine exhaust using Equation 3 of this section:

ER = (Cd * 1.833 * (10**-3) * Q * T) / HP-hr (Equation 3)

Where:
ER = Emission rate of VOC in g/HP-hr.
Cd = VOC concentration measured as propane in ppmv.
1.833 × 10-3 = Conversion constant for ppm VOC measured as propane, to grams per standard cubic meter at 20 degrees Celsius.
Q = Stack gas volumetric flow rate, in standard cubic meters per hour, dry basis.
T = Time of test run, in hours.
HP-hr = Brake work of the engine, in HP- hr.

(g) If the owner/operator chooses to measure VOC emissions using either Method 18 of 40 CFR part 60, appendix A, or

SECTION E. Source Group Restrictions.

Method 320 of 40 CFR part 63, appendix A , then it has the option of correcting the measured VOC emissions to account for the potential differences in measured values between these methods and Method 25A. The results from Method 18 and Method 320 can be corrected for response factor differences using Equations 4 and 5 of this section. The corrected VOC concentration can then be placed on a propane basis using Equation 6 of this section.

RFi = CMi / CAi (Equation 4)

Where:
RFi = Response factor of compound i when measured with EPA Method 25A.
CMi = Measured concentration of compound i in ppmv as carbon.
CAi = True concentration of compound i in ppmv as carbon.

Cicorr = RFi * Cimeas (Equation 5)

Where:
Cicorr = Concentration of compound i corrected to the value that would have been measured by EPA Method 25A, ppmv as carbon.
Cimeas = Concentration of compound i measured by EPA Method 320, ppmv as carbon.

Cpeq = 0.6098 * Cicorr (Equation 6)

Where:
Cpeq = Concentration of compound i in mg of propane equivalent per DSCM.

III. MONITORING REQUIREMENTS.

 # 008 [25 Pa. Code §127.622]

Compliance with general plan approvals and general operating permit conditions.

(a) In accordance with 25 Pa. Code §§ 127.1 and 127.12(a)(5), the owner or operator of a new or reconstructed natural gas-fired engine shall install, maintain, and operate each engine and associated air pollution control equipment in accordance with manufacturer's specifications.

(b) The owner or operator shall maintain comprehensive accurate records of number of hours per month that each engine operated using a non-resettable hour meter, the amount of each fuel type that is used per month in each engine, the date the GP-5 authorization was issued, the date construction began, the date of initial startup, the date testing is required, parameters required to be tested, and the date testing was performed for each engine.

(c) In accordance with 25 Pa. Code §§ 127.1 and 127.12(a)(5), the owner or operator of an engine shall comply with the monitoring requirements specified in 40 CFR §§ 60.4237 and 63.6625.

[GP5-10-00390A & B, Section B, Condition #5.]

IV. RECORDKEEPING REQUIREMENTS.

 # 009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4245]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary SI internal combustion engine?

Owners or operators of stationary SI ICE must meet the following notification, reporting and recordkeeping requirements.

(a) Owners and operators of all stationary SI ICE must keep records of the information in paragraphs (a)(1) through (4) of this section.

(1) All notifications submitted to comply with this subpart and all documentation supporting any notification.

(2) Maintenance conducted on the engine.

(3) If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 1048, 1054, and 1060, as

SECTION E. Source Group Restrictions.

applicable.

(4) If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to §60.4243(a)(2), documentation that the engine meets the emission standards.

(b) [Does not apply]

(c) - (j) [Printed under Reporting Requirements in this section of permit.]

[73 FR 3591, Jan. 18, 2008, as amended at 73 FR 59177, Oct. 8, 2008; 78 FR 6697, Jan. 30, 2013; 81 FR 59809, Aug. 30, 2016; 86 FR 34362, June 29, 2021; 87 FR 48606, Aug. 10, 2022; 89 FR 70514, Aug. 30, 2024]

V. REPORTING REQUIREMENTS.

 # 010 [25 Pa. Code §127.622]

Compliance with general plan approvals and general operating permit conditions.

(a) The owner or operator of an engine shall also comply with the applicable notification, reporting, and recordkeeping requirements specified in 40 CFR §§ 60.4245 and 63.6625.

(b) Submittal of reports in accordance with the requirements and schedules outlined in this Operating Permit.

(c) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

[GP5-10-00390A & B, Section B, Condition #6.]

 # 011 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4245]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary SI internal combustion engine?

Owners or operators of stationary SI ICE must meet the following notification, reporting and recordkeeping requirements.

(a) - (b) [Printed under Recordkeeping Requirements in this section of permit.]

(c) Owners and operators of stationary SI ICE greater than or equal to 500 HP that have not been certified by an engine manufacturer to meet the emission standards in § 60.4231 must submit an initial notification as required in § 60.7(a)(1). The notification must include the information in paragraphs (c)(1) through (5) of this section. Beginning on February 26, 2025 submit the notification electronically according to paragraph (g) of this section.

(1) Name and address of the owner or operator;

(2) The address of the affected source;

(3) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;

(4) Emission control equipment; and

(5) Fuel used.

(d) Owners and operators of stationary SI ICE that are subject to performance testing must submit a copy of each performance test as conducted in § 60.4244 within 60 days after the test has been completed. Performance test reports using EPA Method 18, EPA Method 320, or ASTM D6348-03 (incorporated by reference—see 40 CFR 60.17) to measure VOC require reporting of all QA/QC data. For Method 18, report results from sections 8.4 and 11.1.1.4; for Method 320, report results from sections 8.6.2, 9.0, and 13.0; and for ASTM D6348-03 report results of all QA/QC procedures in Annexes 1-7. Beginning on February 26, 2025, performance tests must be reported electronically according to paragraph (f) of this section.

SECTION E. Source Group Restrictions.

(e) [Does not apply]

(f) Beginning on February 26, 2025, within 60 days after the date of completing each performance test, you must submit the results following the procedures specified in paragraph (g) of this section. Data collected using test methods that are supported by the EPA's Electronic Reporting Tool (ERT) as listed on the EPA's ERT website (https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert) at the time of the test must be submitted in a file format generated using the EPA's ERT. Alternatively, you may submit an electronic file consistent with the extensible markup language (XML) schema listed on the EPA's ERT website. Data collected using test methods that are not supported by the EPA's ERT as listed on the EPA's ERT website at the time of the test must be included as an attachment in the ERT or an alternate electronic file.

(g) If you are required to submit notifications or reports following the procedure specified in this paragraph (g), you must submit notifications or reports to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI), which can be accessed through the EPA's Central Data Exchange (CDX) (https://cdx.epa.gov/). The EPA will make all the information submitted through CEDRI available to the public without further notice to you. Do not use CEDRI to submit information you claim as CBI. Although we do not expect persons to assert a claim of CBI, if you wish to assert a CBI claim for some of the information in the report or notification, you must submit a complete file in the format specified in this subpart, including information claimed to be CBI, to the EPA following the procedures in paragraphs (g)(1) and (2) of this section. Clearly mark the part or all of the information that you claim to be CBI. Information not marked as CBI may be authorized for public release without prior notice. Information marked as CBI will not be disclosed except in accordance with procedures set forth in 40 CFR part 2. All CBI claims must be asserted at the time of submission. Anything submitted using CEDRI cannot later be claimed CBI. Furthermore, under CAA section 114(c), emissions data is not entitled to confidential treatment, and the EPA is required to make emissions data available to the public. Thus, emissions data will not be protected as CBI and will be made publicly available. You must submit the same file submitted to the CBI office with the CBI omitted to the EPA via the EPA's CDX as described earlier in this paragraph (g).

(1) The preferred method to receive CBI is for it to be transmitted electronically using email attachments, File Transfer Protocol, or other online file sharing services. Electronic submissions must be transmitted directly to the OAQPS CBI Office at the email address oaqpscbi@epa.gov, and as described in paragraph (g) of this section, should include clear CBI markings. ERT files should be flagged to the attention of the Group Leader, Measurement Policy Group; all other files should be flagged to the attention of the Stationary Spark Ignition Internal Combustion Engine Sector Lead. If assistance is needed with submitting large electronic files that exceed the file size limit for email attachments, and if you do not have your own file sharing service, please email oaqpscbi@epa.gov to request a file transfer link.

(2) If you cannot transmit the file electronically, you may send CBI information through the postal service to the following address: OAQPS Document Control Officer (C404-02), OAQPS, U.S. Environmental Protection Agency, 109 T.W. Alexander Drive, P.O. Box 12055, Research Triangle Park, North Carolina 27711. ERT files should be sent to the attention of the Group Leader, Measurement Policy Group, and all other files should be sent to the attention of the Stationary Spark Ignition Internal Combustion Engine Sector Lead. The mailed CBI material should be double wrapped and clearly marked. Any CBI markings should not show through the outer envelope.

(h) If you are required to electronically submit a report through CEDRI in the EPA's CDX, you may assert a claim of EPA system outage for failure to timely comply with that reporting requirement. To assert a claim of EPA system outage, you must meet the requirements outlined in paragraphs (h)(1) through (7) of this section.

(1) You must have been or will be precluded from accessing CEDRI and submitting a required report within the time prescribed due to an outage of either the EPA's CEDRI or CDX systems.

(2) The outage must have occurred within the period of time beginning five business days prior to the date that the submission is due.

(3) The outage may be planned or unplanned.

(4) You must submit notification to the Administrator in writing as soon as possible following the date you first knew, or through due diligence should have known, that the event may cause or has caused a delay in reporting.

(5) You must provide to the Administrator a written description identifying:

SECTION E. Source Group Restrictions.

(i) The date(s) and time(s) when CDX or CEDRI was accessed and the system was unavailable;

(ii) A rationale for attributing the delay in reporting beyond the regulatory deadline to EPA system outage;

(iii) A description of measures taken or to be taken to minimize the delay in reporting; and

(iv) The date by which you propose to report, or if you have already met the reporting requirement at the time of the notification, the date you reported.

(6) The decision to accept the claim of EPA system outage and allow an extension to the reporting deadline is solely within the discretion of the Administrator.

(7) In any circumstance, the report must be submitted electronically as soon as possible after the outage is resolved.

(i) If you are required to electronically submit a report through CEDRI in the EPA's CDX, you may assert a claim of force majeure for failure to timely comply with that reporting requirement. To assert a claim of force majeure, you must meet the requirements outlined in paragraphs (i)(1) through (5) of this section.

(1) You may submit a claim if a force majeure event is about to occur, occurs, or has occurred or there are lingering effects from such an event within the period of time beginning five business days prior to the date the submission is due. For the purposes of this section, a force majeure event is defined as an event that will be or has been caused by circumstances beyond the control of the affected facility, its contractors, or any entity controlled by the affected facility that prevents you from complying with the requirement to submit a report electronically within the time period prescribed. Examples of such events are acts of nature (e.g., hurricanes, earthquakes, or floods), acts of war or terrorism, or equipment failure or safety hazard beyond the control of the affected facility (e.g., large scale power outage).

(2) You must submit notification to the Administrator in writing as soon as possible following the date you first knew, or through due diligence should have known, that the event may cause or has caused a delay in reporting.

(3) You must provide to the Administrator:

(i) A written description of the force majeure event;

(ii) A rationale for attributing the delay in reporting beyond the regulatory deadline to the force majeure event;

(iii) A description of measures taken or to be taken to minimize the delay in reporting; and

(iv) The date by which you propose to report, or if you have already met the reporting requirement at the time of the notification, the date you reported.

(4) The decision to accept the claim of force majeure and allow an extension to the reporting deadline is solely within the discretion of the Administrator.

(5) In any circumstance, the reporting must occur as soon as possible after the force majeure event occurs.

(j) Any records required to be maintained by this subpart that are submitted electronically via the EPA's CEDRI may be maintained in electronic format. This ability to maintain electronic copies does not affect the requirement for facilities to make records, data, and reports available upon request to a delegated air agency or the EPA as part of an on-site compliance evaluation.

[73 FR 3591, Jan. 18, 2008, as amended at 73 FR 59177, Oct. 8, 2008; 78 FR 6697, Jan. 30, 2013; 81 FR 59809, Aug. 30, 2016; 86 FR 34362, June 29, 2021; 87 FR 48606, Aug. 10, 2022; 89 FR 70514, Aug. 30, 2024]

VI. WORK PRACTICE REQUIREMENTS.

 # 012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4234]
Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
How long must I meet the emission standards if I am an owner or operator of a stationary SI internal combustion

SECTION E. Source Group Restrictions.

engine?

Owners and operators of stationary SI ICE must operate and maintain stationary SI ICE that achieve the emission standards as required in §60.4233 over the entire life of the engine.

[Emission restrictions in Condition #003 streamline the emission standards in §60.4233.]

 # 013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4243]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

What are my compliance requirements if I am an owner or operator of a stationary SI internal combustion engine?

(g) It is expected that air-to-fuel ratio controllers will be used with the operation of three-way catalysts/non-selective catalytic reduction. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.

VII. ADDITIONAL REQUIREMENTS.

 # 014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4230]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

Am I subject to this subpart?

(a) The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary spark ignition (SI) internal combustion engines (ICE) as specified in paragraphs (a)(1) through (6) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.

(1) - (3) [Do not apply]

(4) Owners and operators of stationary SI ICE that commence construction after June 12, 2006, where the stationary SI ICE are manufactured:

(i) On or after July 1, 2007, for engines with a maximum engine power greater than or equal to 500 HP (except lean burn engines with a maximum engine power greater than or equal to 500 HP and less than 1,350 HP);

(ii) - (iv) [Do not apply]

(5) - (6) [Do not apply]

(b) - (f) [Do not apply]

[73 FR 3591, Jan. 18, 2008, as amended at 76 FR 37972, June 28, 2011; 86 FR 34360, June 29, 2021]

 # 015 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4246]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

What parts of the General Provisions apply to me?

(a) Table 3 to this subpart shows which parts of the General Provisions in §§60.1 through 60.19 apply to you. [Refer to Table 3 of Subpart JJJJ for applicability of General Provisions.]

(b) The provisions of 40 CFR 1068.10 and 1068.11 apply for engine manufacturers. For others, the general confidential business information (CBI) provisions apply as described in 40 CFR part 2.

[88 FR 4471, Jan. 24, 2023]

 # 016 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4248]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

What definitions apply to this subpart?

[Refer to 40 CFR §60.4248 for definitions applicable to Subpart JJJJ.]

SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this State Only facility.

SECTION G. Emission Restriction Summary.

Source Id	Source Description
101	2370 BHP, CAT G3608TA COMP ENG, UNIT CM-250, SN BEN00960

Emission Limit			Pollutant
47.000	PPMV	dry basis @ 15% O2 (or 93% reduction)	CO
0.050	GRAMS/HP-Hr		Formaldehyde
0.250	GRAMS/HP-Hr	as propane (excluding formaldehyde)	NMNEHC
0.500	GRAMS/HP-Hr		NOX
500.000	PPMV	dry basis.	SOX
0.040	gr/DRY FT3		TSP

Source Id	Source Description
102	2370 BHP, CAT G3608TA COMP ENG, UNIT CM-260, SN BEN00963

Emission Limit			Pollutant
47.000	PPMV	dry basis @ 15% O2 (or 93% reduction)	CO
0.050	GRAMS/HP-Hr		Formaldehyde
0.250	GRAMS/HP-Hr	as propane (excluding formaldehyde)	NMNEHC
0.500	GRAMS/HP-Hr		NOX
500.000	PPMV	dry basis.	SOX
0.040	gr/DRY FT3		TSP

Source Id	Source Description
103	2370 BHP, CAT G3608TA COMP ENG, UNIT CM-270, SN BEN00965

Emission Limit			Pollutant
47.000	PPMV	dry basis @ 15% O2 (or 93% reduction)	CO
0.050	GRAMS/HP-Hr		Formaldehyde
0.250	GRAMS/HP-Hr	as propane (excluding formaldehyde)	NMNEHC
0.500	GRAMS/HP-Hr		NOX
500.000	PPMV	dry basis.	SOX
0.040	gr/DRY FT3		TSP

Source Id	Source Description
104	3550 BHP, CAT G3612TA COMP ENG, UNIT CM-280, SN BKE00687

Emission Limit			Pollutant
47.000	PPMV	dry basis @ 15% O2 (or 93% reduction)	CO
0.050	GRAMS/HP-Hr		Formaldehyde
0.250	GRAMS/HP-Hr	as propane (excluding formaldehyde)	NMNEHC
0.500	GRAMS/HP-Hr		NOX
500.000	PPMV	dry basis.	SOX
0.040	gr/DRY FT3		TSP

Source Id	Source Description
105	3550 BHP, CAT G3612TA COMP ENG, UNIT CM-290, SN BKE00725

Emission Limit			Pollutant
47.000	PPMV	dry basis @ 15% O2 (or 93% reduction)	CO
0.050	GRAMS/HP-Hr		Formaldehyde
0.250	GRAMS/HP-Hr	as propane (excluding formaldehyde)	NMNEHC
0.500	GRAMS/HP-Hr		NOX
500.000	PPMV	dry basis.	SOX
0.040	gr/DRY FT3		TSP

SECTION G. Emission Restriction Summary.

Source Id	Source Description
106	3550 BHP, CAT G3612TA COMP ENG, UNIT CM-300, SN BKE00727

Emission Limit			Pollutant
47.000	PPMV	dry basis @ 15% O2 (or 93% reduction)	CO
0.050	GRAMS/HP-Hr		Formaldehyde
0.250	GRAMS/HP-Hr	as propane (excluding formaldehyde)	NMNEHC
0.500	GRAMS/HP-Hr		NOX
500.000	PPMV	dry basis.	SOX
0.040	gr/DRY FT3		TSP

Source Id	Source Description
201	HEATER/REBOILER

Emission Limit		Pollutant
4.000	Lbs/MMBTU	SOX

Source Id	Source Description
401	DEHYDRATOR

Emission Limit			Pollutant
900.000	kg/Yr		Benzene
500.000	PPMV	dry basis, applies to the flare	SOX
0.040	gr/DRY FT3	applies to the flare	TSP

Site Emission Restriction Summary

Emission Limit	Pollutant

SECTION H. Miscellaneous.

(a) The Capacity/Hour numbers listed on Page 4 and provided in Section D of this permit for individual sources are for informational purposes only and are not to be considered enforceable limits. Enforceable emission limits are listed in the Restriction section for each source. They are also summarized for informational purposes only in Section F.

(b) The other activities for which there are no applicable emission limitations, testing, monitoring, recordkeeping, or reporting requirements are as follows:

- Air defender system with a carbon tank
- Various non-volatile and pressurized storage tanks located around the property

(c) Source 301, Tanks, consists of the following individual sources controlled by a vapor recovery unit (C301):

- Four (4) 400-bbl condensate and produced water storage tanks
- One (1) 500-bbl condensate and produced water Gunbarrel tank

(d) Source 701, Fugitives, consists of the following devices:

Equipment type	Count	Stream Type (Gas/Liquid, etc.)
Connectors/Flanges	1494	Natural Gas
Connectors/Flanges	36	Light Oil
Connectors/Flanges	903	Water/Light Oil
Compressors	6	Natural Gas
Open-Ended Lines	4	Natural Gas
Pump Seals	0	Natural Gas
Pump Seals	4	Light Oil
Pump Seals	4	Water/Light Oil
Valves	627	Natural Gas
Valves	36	Light Oil
Valves	539	Water/Light Oil

(e) The following sources are included in Emission Reporting, but are not considered individual sources for the purposes of permitting; their potential emissions are included with Source 701 in the review memo:

- Source 501, Pneumatic Devices
- Source 601, Venting/Blowdowns

Additionally, Source 701's PTE includes VOCs from crankcase and condensate loadout.

(f) The original state only operating permit was issued on December 16, 2019, with an effective date of December 16, 2019.

(g) This permit was administratively amended on January 17, 2023 to incorporate the change of responsible official and permit contact.

(h) This permit was renewed on January 7, 2025, with an effective date of January 7, 2025. This includes a change of responsible official.

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