



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM**

PLAN APPROVAL

Issue Date:

Effective Date:

Expiration Date:

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

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

Plan Approval No. 33-00140D

Federal Tax Id - Plant Code: 55-0629203-13

Owner Information

Name: EASTERN GAS TRANS & STORAGE INC
Mailing Address: 6603 W BROAD ST
RICHMOND, VA 23230-1711

Plant Information

Plant: EASTERN GAS TRANS & STORAGE/PUNXSUTAWNEY
Location: 33 Jefferson County 33919 Perry Township
SIC Code: 4923 Trans. & Utilities - Gas Transmission And Distribution

Responsible Official

Name: MATT LAMB
Title: VP EASTERN PIPELINE OPR
Phone: (681) 842 - 3550 Email: matt.lamb@bhegts.com

Plan Approval Contact Person

Name: GLENN S BOUTILLIER
Title: ENV SPECIALIST
Phone: (804) 356 - 1364 Email: glenn.boutillier@bhegts.com

[Signature] _____
ERIC A. GUSTAFSON, NORTHWEST REGION AIR PROGRAM MANAGER



Plan Approval Description

The Department hereby issues plan approval 33-00140D to Eastern Gas Transmission and Storage, Inc. for the installation and initial operation of control devices at their existing Punxsutawney Compressor Station facility located in Perry Township, Jefferson County. Eastern Gas Transmission and Storage (Eastern) has proposed this project to comply with the RACT III determination for Sources 131 (Engine 1) and 132 (Engine 2). The site address is 88 Laska Rd, Jefferson County (15767) 40° 54' 36" N, 79° 01' 09" W.



SECTION A. Table of Contents

Section A. Facility/Source Identification

Table of Contents
Plan Approval Inventory List

Section B. General Plan Approval Requirements

- #001 Definitions
- #002 Future Adoption of Requirements
- #003 Plan Approval Temporary Operation
- #004 Content of Applications
- #005 Public Records and Confidential Information
- #006 Plan Approval terms and conditions.
- #007 Transfer of Plan Approvals
- #008 Inspection and Entry
- #009 Plan Approval Changes for Cause
- #010 Circumvention
- #011 Submissions
- #012 Risk Management
- #013 Compliance Requirement

Section C. Site Level Plan Approval Requirements

- C-I: Restrictions
- C-II: Testing Requirements
- C-III: Monitoring Requirements
- C-IV: Recordkeeping Requirements
- C-V: Reporting Requirements
- C-VI: Work Practice Standards
- C-VII: Additional Requirements
- C-VIII: Compliance Certification
- C-IX: Compliance Schedule

Section D. Source Level Plan Approval Requirements

- D-I: Restrictions
- D-II: Testing Requirements
- D-III: Monitoring Requirements
- D-IV: Recordkeeping Requirements
- D-V: Reporting Requirements
- D-VI: Work Practice Standards
- D-VII: Additional Requirements

Note: These same sub-sections are repeated for each source!

Section E. Source Group Restrictions

- E-I: Restrictions
- E-II: Testing Requirements
- E-III: Monitoring Requirements
- E-IV: Recordkeeping Requirements
- E-V: Reporting Requirements
- E-VI: Work Practice Standards
- E-VII: Additional Requirements

Section F. Alternative Operating Scenario(s)

- F-I: Restrictions
- F-II: Testing Requirements
- F-III: Monitoring Requirements



SECTION A. Table of Contents

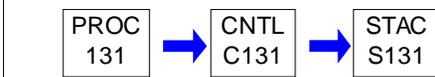
- F-IV: Recordkeeping Requirements
- F-V: Reporting Requirements
- F-VI: Work Practice Standards
- F-VII: Additional Requirements

Section G. Emission Restriction Summary

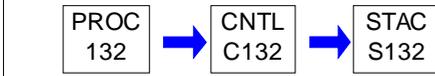
Section H. Miscellaneous

**SECTION A. Plan Approval Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
131	4200 BHP DRESSER RAND TCV10 COMP ENG NO 1 SN 10TCV109AP		
132	4200 BHP DRESSER RAND TCV-10 COMP ENG NO 2 SN 10TCV110AP		
C131	SELECTIVE CATALYTIC REDUCTION		
C132	SELECTIVE CATALYTIC REDUCTION		
FM001	NATURAL GAS (FUEL GAS)		
S131	COMPRESSOR ENG 1 STACK		
S132	COMPRESSOR ENG 2 STACK		

PERMIT MAPS

FML
FM001



FML
FM001

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

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

#002 [25 Pa. Code § 127.12b (a) (b)]**Future Adoption of Requirements**

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

#003 [25 Pa. Code § 127.12b]**Plan Approval Temporary Operation**

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

(a) When construction, installation, modification, or reactivation is being conducted, the permittee shall provide written notice to the Department of the completion of the activity approved by this plan approval and the permittee's intent to commence operation at least five (5) working days prior to the completion of said activity. The notice shall state when the activity will be completed and when the permittee expects to commence operation. When the activity involves multiple sources on different time schedules, notice is required for the commencement of operation of each source.

(b) Pursuant to 25 Pa. Code § 127.12b (d), temporary operation of the source(s) is authorized to facilitate the shakedown of sources and air cleaning devices, to permit operations pending the issuance of a permit under 25 Pa. Code Chapter 127, Subchapter F (relating to operating permits) or Subchapter G (relating to Title V operating permits) or to permit the evaluation of the air contaminant aspects of the source.

(c) This plan approval authorizes a temporary operation period not to exceed 180 days from the date of commencement of operation, provided the Department receives notice from the permittee pursuant to paragraph (a), above.

(d) The permittee may request an extension of the 180-day shakedown period if further evaluation of the air contamination aspects of the source(s) is necessary. The request for an extension shall be submitted, in writing, to the Department at least 30 days prior to the end of the initial 180-day shakedown period and shall provide a description of the compliance status of the source, a detailed schedule for establishing compliance, and the reasons compliance has not been established. This temporary operation period will be valid for a limited time and may be extended for additional limited periods, each not to exceed 180 days.

(e) The notice submitted by the permittee pursuant to subpart (a) above, prior to the expiration of the plan approval, shall modify the plan approval expiration date on Page 1 of this plan approval. The new plan approval expiration date shall be 180 days from the date of commencement of operation.

#004 [25 Pa. Code § 127.12(a) (10)]**Content of Applications**

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

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

(a) The records, reports or information obtained by the Department or referred to at public hearings shall be available to the public, except as provided in paragraph (b) of this condition.

(b) Upon cause shown by the permittee that the records, reports or information, or a particular portion thereof, but not emission data, to which the Department has access under the act, if made public, would divulge production or sales figures or methods, processes or production unique to that person or would otherwise tend to affect adversely the

**SECTION B. General Plan Approval Requirements**

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

#006 [25 Pa. Code § 127.12b]**Plan Approval terms and conditions.**

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

(a) This plan approval will be valid for a limited time, as specified by the expiration date contained on Page 1 of this plan approval. Except as provided in § § 127.11a and 127.215 (relating to reactivation of sources; and reactivation), at the end of the time, if the construction, modification, reactivation or installation has not been completed, a new plan approval application or an extension of the previous approval will be required.

(b) If construction has commenced, but cannot be completed before the expiration of this plan approval, an extension of the plan approval must be obtained to continue construction. To allow adequate time for departmental action, a request for the extension shall be postmarked at least thirty (30) days prior to the expiration date. The request for an extension shall include the following:

- (i) A justification for the extension,
- (ii) A schedule for the completion of the construction

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

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

#007 [25 Pa. Code § 127.32]**Transfer of Plan Approvals**

(a) This plan approval may not be transferred from one person to another except when a change of ownership is demonstrated to the satisfaction of the Department and the Department approves the transfer of the plan approval in writing.

(b) Section 127.12a (relating to compliance review) applies to a request for transfer of a plan approval. A compliance review form shall accompany the request.

(c) This plan approval is valid only for the specific source and the specific location of the source as described in the application.

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

(a) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act.

(b) The permittee shall also allow the Department to have access at reasonable times to said sources and associated air cleaning devices with such measuring and recording equipment, including equipment recording visual observations, as the Department deems necessary and proper for performing its duties and for the effective enforcement of the Air Pollution Control Act and regulations adopted under the act.

**SECTION B. General Plan Approval Requirements**

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

#009 [25 Pa. Code 127.13a]**Plan Approval Changes for Cause**

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

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

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

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

#011 [25 Pa. Code § 127.12c]**Submissions**

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

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

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

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

**SECTION B. General Plan Approval Requirements**

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

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

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

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

#013 [25 Pa. Code § 127.25]**Compliance Requirement**

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



SECTION C. Site Level Plan Approval Requirements

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

- a) All records required must be maintained onsite for a minimum of 5 years and may be maintained in electronic format.
- b) The owner or operator of the facility shall generate and maintain records that clearly demonstrate to the Department that the facility is in compliance with all emission limitations. At a minimum, the records shall be maintained on a monthly basis, and the actual emissions shall be calculated on a 12-month rolling sum. The Department reserves the right to request additional information necessary to determine compliance with the plan approval.

V. REPORTING REQUIREMENTS.

002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

- a) The owner or operator shall notify the Department by telephone within twenty-four (24) hours of the discovery of any malfunction which results in, or may possibly be resulting in, the emission of air contaminants in excess of any applicable limitation specified herein. Following the telephone notification, a written notice must also be submitted to DEP as specified below.
 - 1) If the owner or operator is unable to provide notification by telephone to the appropriate Regional Office within twenty-four (24) hours of discovery of a malfunction due to a weekend or holiday, the notification shall be made to the Department by no later than 4 p.m. on the first business day for the Department following the weekend or holiday.
 - 2) Any malfunction that poses an imminent danger to the public health, safety, welfare, or environment shall be reported by telephone to the Department and the County Emergency Management Agency immediately after the discovery of an incident. The owner or operator shall submit a written report of instances of such malfunctions to the Department within three (3) business days of the telephone report.
 - 3) Unless otherwise required by this plan approval, any other malfunctions shall be reported to the Department, in writing, within five (5) business days of malfunction discovery.
- b) The owner or operator shall notify the Department, in writing, no later than five (5) business days after the following activities:
 - 1) Initial commencement date of construction of the source/control device(s) authorized under this plan approval.
 - 2) Any lapse in construction activity of eighteen (18) months or more that may take place in between the initial and start-up dates in (i) and (ii) above.

VI. WORK PRACTICE REQUIREMENTS.

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

**SECTION C. Site Level Plan Approval Requirements****VII. ADDITIONAL REQUIREMENTS.****# 003 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

- a) Any information required to be submitted as part of this plan approval should be submitted to the attention of New Source Review Section Chief, Air Quality Program, Northwest Regional Office, 230 Chestnut Street, Meadville, PA 16335.
- b) Issuance of an Operating Permit or incorporation of a plan approval into a current Operating Permit is contingent upon satisfactory compliance with the plan approval conditions, upon the source and control device being installed and operated as stated within the application, and upon satisfactory demonstration that the emissions from the source will not be in violation of applicable Rules and Regulations of the Department.
- c) If at any time the Department has reason to believe that the air contaminant emissions are, or may be, in excess of any applicable air contaminant emission limitation, the owner or operator shall conduct such stack tests or source tests requested by the Department to determine the actual air contaminant emission rate. The owner or operator shall perform any such testing in accordance with the applicable provisions of 25 Pa. Code, Chapter 139 (relating to sampling and testing) as well as in accordance with any additional requirements or conditions established by the Department at the time the owner or operator is notified, in writing, of the need to conduct testing.
- d) No person may permit air pollution as that term is defined in the act.
- e) All sources shall be 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.
- f) The permittee shall comply with the presumptive RACT III requirements of this plan approval as early as practicable but no later than August 3, 2024.
- g) All requirements of the current operating permit remain in effect, as applicable, unless modified by this plan approval. The conditions of this plan approval supersede the conditions of previous authorizations.

004 [25 Pa. Code §129.112]**Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule**

- (n) The owner or operator of a major NO_x emitting facility or a major VOC emitting facility subject to § 129.111 that includes an air contamination source subject to one or more of subsections (b)—(k) that cannot meet the applicable presumptive RACT requirement or RACT emission limitation without installation of an air cleaning device may submit a petition, in writing or electronically, requesting an alternative compliance schedule in accordance with the following:
- (1) The petition shall be submitted to the Department or appropriate approved local air pollution control agency as soon as possible but not later than:
- (i) December 31, 2022, for a source subject to § 129.111(a).
 - (ii) December 31, 2022, or 6 months after the date that the source meets the definition of a major NO_x emitting facility or a major VOC emitting facility, whichever is later, for a source subject to § 129.111(b).
- (2) The petition must include:
- (i) A description, including make, model and location, of each affected source subject to a RACT requirement or a RACT emission limitation in one or more of subsections (b)—(k).
 - (ii) A description of the proposed air cleaning device to be installed.
 - (iii) A schedule containing proposed interim dates for completing each phase of the required work to install the air cleaning device described in subparagraph (ii).
 - (iv) A proposed interim emission limitation that will be imposed on the affected source until compliance is achieved with the applicable RACT requirement or RACT emission limitation.



SECTION C. Site Level Plan Approval Requirements

(v) A proposed final compliance date that is as soon as possible but not later than 3 years after the written approval of the petition by the Department or the appropriate approved local air pollution control agency. The approved petition shall be incorporated in an applicable operating permit or plan approval.

(o) The Department or appropriate approved local air pollution control agency will review the timely and complete written petition requesting an alternative compliance schedule submitted in accordance with subsection (n) and approve or deny the petition in writing.

(p) Approval or denial under subsection (o) of the timely and complete petition for an alternative compliance schedule submitted under subsection (n) will be effective on the date the letter of approval or denial of the petition is signed by the authorized representative of the Department or appropriate approved local air pollution control agency.

(q) The Department will submit each petition for an alternative compliance schedule approved under subsection (o) to the Administrator of the EPA for approval as a revision to the Commonwealth's SIP. The owner and operator of the facility shall bear the costs of public hearings and notifications, including newspaper notices, required for the SIP submittal.

VIII. COMPLIANCE CERTIFICATION.

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

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

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

Source ID: 131

Source Name: 4200 BHP DRESSER RAND TCV10 COMP ENG NO 1 SN 10TCV109AP

Source Capacity/Throughput:

Conditions for this source occur in the following groups: SOURCES 131 & 132

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

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

Source ID: 132

Source Name: 4200 BHP DRESSER RAND TCV-10 COMP ENG NO 2 SN 10TCV110AP

Source Capacity/Throughput:

Conditions for this source occur in the following groups: SOURCES 131 & 132

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION E. Source Group Plan Approval Restrictions.**

Group Name: SOURCES 131 & 132

Group Description: 4,200 BHP DRESSER RAND TCV10 COMPRESSOR ENGINES

Sources included in this group

ID	Name
131	4200 BHP DRESSER RAND TCV10 COMP ENG NO 1 SN 10TCV109AP
132	4200 BHP DRESSER RAND TCV-10 COMP ENG NO 2 SN 10TCV110AP

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

a) Emissions of air contaminants from the engine into the atmosphere shall not exceed the following:

- 1) NOx: 0.60 g/bhp-hr, 5.56 lbs./hr, 24.33 tpy*
- 2) CO: 2.8 g/bhp-hr, 25.9 lbs./hr, 113.44 tpy*
- 3) NMNEHC**: 0.5 g/bhp-hr, 4.63 lbs./hr, 20.28 tpy*
- 4) HCHO: 0.17 g/bhp-hr, 1.62 lbs./hr, 7.11 tpy*
- 5) NH3: 10 PPMV at 15% oxygen

*as calculated from a twelve month rolling total

** including HCHO

II. TESTING REQUIREMENTS.**# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

a) Within 60 days after achieving the normal production rate at which the affected source 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 within 10% of 100% peak (or the highest achievable) load. The stack test shall determine the following emission rates: ammonia (PPMV at 15% oxygen), CO (PPMV, g/bhp-hr, lbs/hr), NOx (PPMV, g/bhp-hr, lbs/hr), NMNEHC (PPMV, g/bhp-hr, lbs/hr), and HCHO (PPMV, g/bhp-hr, lbs/hr).

b) The stack testing program shall be repeated within twelve (12) to eighteen (18) months prior to the expiration of the facility's current operating permit (reoccurring).

c) In the event that any deadlines set forth in this condition cannot be met, the permittee may request an extension which shall include a justification for the extension, in writing prior to the deadline. The Department may grant an extension for reasonable cause.

1) Pursuant to 25 Pa. Code § 139.53(a)(3), 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 (8) of this condition. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

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 emission 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 part (1). 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.

2) Pursuant to 25 Pa. Code § 139.53(a)(3), at least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the Department in accordance with paragraph (8) of this condition. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.

3) Pursuant to 25 Pa. Code § 139.53(a)(3), if the proposed testing did not occur per the required notification in paragraph (2)

**SECTION E. Source Group Plan Approval Restrictions.**

above, an electronic mail notification shall be sent within 15 calendar days after the expected completion date of the onsite testing to the Department, in accordance with paragraph (8) of this condition, indicating why the proposed completion date of the on-site testing was not adhered to.

4) Pursuant to 25 Pa. Code § 139.53(a)(3), 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.

5) Pursuant to 25 Pa. Code Section 139.53(b) a complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or noncompliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:

- 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.

6) 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.

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

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

i) All submittals, besides notifications (protocols & reports only), shall be accomplished through PSIMS*Online, available through: <https://www.dep.greenport.state.pa.us/ecommm/Login.jsp>, when it becomes available. Notifications shall be sent via OnBase:

<https://www.dep.pa.gov/DataandTools/Pages/Application-Form-Upload.aspx>

ii) If internet submittal cannot be accomplished, one electronic copy of all source test submissions (notifications, protocols, reports, supplemental information, etc.) shall be sent to both PSIMS Administration in Central Office and to Regional Office AQ Program Manager.

iii) Electronic copies shall be sent at the following e-mail addresses:

CENTRAL OFFICE:

RA-EPstacktesting@pa.gov

NORTHWEST REGIONAL OFFICE:

RA-EPNWstacktesting@pa.gov

9) 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.

10) 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

**SECTION E. Source Group Plan Approval Restrictions.**

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.

III. MONITORING REQUIREMENTS.**# 003 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

a) The owner or operator shall conduct periodic monitoring of the engine every 2,500 hours of operation. When conducting periodic monitoring on the engine, the owner or operator may follow the procedures in (b) below. If the owner or operator decides to deviate from those procedures, they must submit a request to use an alternate procedure, in writing, at least 60 days prior to performing the periodic monitoring. In the alternate procedure request, the owner or operator must demonstrate the alternate procedure's equivalence to the standard procedure to the satisfaction of the Division of Source Testing and Monitoring.

b) Standardized Periodic Monitoring Procedure.

(i) Conduct three test runs of at least 20 minutes duration within 10% of 100% peak (or the highest achievable) load.

(ii) Determine NOX and CO emissions and O2 concentrations in the exhaust with either an electro-chemical cell portable gas analyzer used and maintained in accordance with the manufacturer's specifications and following the procedures specified in the current version of ASTM D6522.

(iii) If the measured NOX or CO emissions concentrations are in exceedance of the emissions limit, the owner or operator must perform a stack test in accordance with the Performance Testing Requirements of Condition 4 within 180 days of the periodic monitoring.

c) The 2,500 hours of operation count resets upon completion of a Department approved stack testing program which successfully demonstrates compliance.

004 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

a) The permittee shall monitor the following:

- 1) Pressure differential across the catalyst bed
- 2) Ammonia injection rate prior to the catalyst
- 3) Inlet and outlet temperature of the catalyst bed
- 4) Inlet NOx sensor reading
- 5) Outlet NOx sensor reading
- 6) Hours of engine operation
- 7) Hours of current catalyst bed service

b) The permittee shall maintain and operate the following alarm systems:

- 1) Hi NOx sensor value alarm, as measured at the control device outlet
- 2) Low/hi temperature alarm, as measured at the control device outlet
- 3) Low/hi differential pressure, as measured across the catalyst bed

c) The monitoring equipment shall be mounted in an accessible area and maintained in good operating conditions at all times.

IV. RECORDKEEPING REQUIREMENTS.**# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

a) The owner or operator shall maintain the following records at a minimum:

- 1) The make, model, and serial number of the engine and control device
- 2) A copy of the manufacturer's maintenance instructions
- 3) A copy of the manufacturer's engine/control device certification or vendor guarantees
- 4) The results of each periodic monitoring
- 5) The summary for each complete test report

**SECTION E. Source Group Plan Approval Restrictions.**

- 6) The emissions calculations for each engine in accordance with 25 Pa. Code § 135.5.
- 7) The hours of current catalyst bed service
- 8) The manufacturer's rating of catalyst bed service life

- b) All inspection observations and maintenance performed on the control device shall be recorded in a log. This record shall, at a minimum, include:
 - 1) Time and date of observation
 - 2) Name, title, and initials of the observer
 - 3) A detailed description of the observation made
 - 4) Any corrective action taken as result of the observation

- c) All inspection observations and maintenance performed on the engine shall be recorded in a log. This record shall, at a minimum, include:
 - 1) Time and date of observation
 - 2) Name, title, and initials of the observer
 - 3) A detailed description of the observation made
 - 4) Any corrective action taken as result of the observation

- d) The permittee shall continuously monitor the following control device parameters:
 - 1) Pressure differential across the catalyst bed
 - 2) Ammonia injection rate prior to the catalyst
 - 3) Inlet and outlet temperature to the catalyst bed
 - 4) Inlet NOx sensor reading
 - 5) Outlet NOx sensor reading

- e) The permittee shall continuously monitor the following engine parameters (these records may be done with strip charts recorders, data acquisition systems, or manual log entries):
 - 1) Hours of engine operation

- f) The permittee shall record all excursions and corrective actions taken in response to an excursion. An excursion is considered operation outside the range recommended by the manufacturer or prescribed by this plan approval. This record shall, at a minimum, include:
 - 1) The time and date of the excursion observation
 - 2) The time elapsed until the corrective actions have been taken
 - 3) Name, title, and initials of the observer
 - 4) A detailed description of the observation made
 - 5) The corrective action taken as result of the observation

- g) The permittee shall maintain records of all monitoring downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable). The permittee shall also record the dates, times and durations, probable causes and corrective actions taken for the incidents.

- h) The permittee shall record all inspections, repairs, and maintenance performed on the monitoring equipment. This record shall, at a minimum, include:
 - 1) Time and date of observation
 - 2) Name, title, and initials of the observer
 - 3) A detailed description of the observation made
 - 4) Any corrective action taken as result of the observation

V. REPORTING REQUIREMENTS.

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

**SECTION E. Source Group Plan Approval Restrictions.****VI. WORK PRACTICE REQUIREMENTS.****# 006 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

a) The owner or operator shall:

- 1) Install, operate, and maintain a non-resettable hour meter.
- 2) Ensure the engine meets the visible emissions standards, as determined by the methods described in 25 Pa. Code § 123.43, by not exceeding the following limitations:
 - i) Equal to or greater than 10% for a period or periods aggregating more than three minutes in any one hour; and
 - ii) Equal to or greater than 30% at any time
- 3) Limit the engine's time spent at idle during startup or shutdown to a period appropriate for the operation of the engine and air pollution control equipment consistent with good air pollution control practices, not to exceed 30 minutes, during which time the emissions of this plan approval do not apply.
- 4) Operate and maintain the engine as prescribed by the manufacturer. A copy of the engine's operational and maintenance literature shall be readily available and provided to the Department upon request.
- 5) Operate and maintain the control device as prescribed by the manufacturer. A copy of the control device's operational and maintenance literature shall be readily available and provided to the Department upon request.
- 6) The catalyst bed exhaust outlet temperature shall be maintained between 450 F and 950 F during normal operation.
- 7) Install, operate, and maintain the monitoring and recordkeeping equipment necessary to comply with the terms of this plan approval.

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Plan Approval facility.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Descriptor		
131	4200 BHP DRESSER RAND TCV10 COMP ENG NO 1 SN 10TCV109AP		
Emission Limit			Pollutant
10.000	PPMV	at 15% oxygen	Ammonia
2.800	gr/HP-Hr		CO
25.900	Lbs/Hr		CO
113.440	Tons/Yr	As calculated from a twelve month rolling total	CO
0.170	gr/HP-Hr		Formaldehyde
1.620	Lbs/Hr		Formaldehyde
7.110	Tons/Yr	As calculated from a twelve month rolling total	Formaldehyde
0.500	gr/HP-Hr		NMNEHC
4.630	Lbs/Hr		NMNEHC
20.280	Tons/Yr	As calculated from a twelve month rolling total	NMNEHC
0.600	gr/HP-Hr		NOX
5.560	Lbs/Hr		NOX
24.330	Tons/Yr	As calculated from a twelve month rolling total	NOX
132	4200 BHP DRESSER RAND TCV-10 COMP ENG NO 2 SN 10TCV110AP		
Emission Limit			Pollutant
10.000	PPMV	at 15% oxygen	Ammonia
2.800	gr/HP-Hr		CO
25.900	Lbs/Hr		CO
113.440	Tons/Yr	As calculated from a twelve month rolling total	CO
0.170	gr/HP-Hr		Formaldehyde
1.620	Lbs/Hr		Formaldehyde
7.110	Tons/Yr	As calculated from a twelve month rolling total	Formaldehyde
0.500	gr/HP-Hr		NMNEHC
4.630	Lbs/Hr		NMNEHC
20.280	Tons/Yr	As calculated from a twelve month rolling total	NMNEHC
0.600	gr/HP-Hr		NOX
5.560	Lbs/Hr		NOX
24.330	Tons/Yr	As calculated from a twelve month rolling total	NOX

Site Emission Restriction Summary

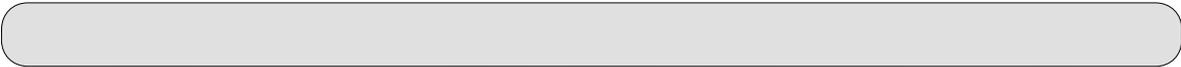
Emission Limit	Pollutant
----------------	-----------



SECTION G. Emission Restriction Summary.



SECTION H. Miscellaneous.



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