

BHE GT&S, LLC 10700 Energy Way Glen Allen, VA 23060

Received
November 1, 2024
WV DEP/Div of Air Quality

November 1, 2024

Laura M. Crowder
Director, Division of Air Quality
West Virginia Department of Environmental Protection
601 57<sup>th</sup> Street SE
Charleston, WV 25304
DEPAirQualityPermitting@wv.gov

RE: Eastern Gas Transmission and Storage, Inc. – Title V Renewal Application

Pepper Compressor Station – R30-00100100-2020

Dear Ms. Crowder:

The renewal application for the Title V permit for Eastern Gas Transmission and Storage, Inc.'s Pepper Compressor Station is attached. In accordance with instructions on the WVDEP website, only this electronic submittal will be made unless otherwise requested.

Please contact Andy Gates at andy.gates@bhegts.com or (804) 389-1340 if you need any additional information or have questions.

Sincerely,

Richard B. Gangle

Director, Environmental Services

Attachment



Pepper Compressor Station WVDEP Title V Permit R30-0100100-2020 Facility ID 010-00100

Application for Regulation 30 (Title V) Air Permit Renewal

Eastern Gas Transmission and Storage, Inc. October 2024

### EASTERN GAS TRANSMISSION AND STORAGE, INC. PEPPER COMPRESSOR STATION

### TITLE V PERMIT RENEWAL APPLICATION

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There are no Attachments F and H for this renewal application.

### SECTION 1 Introduction

### Introduction

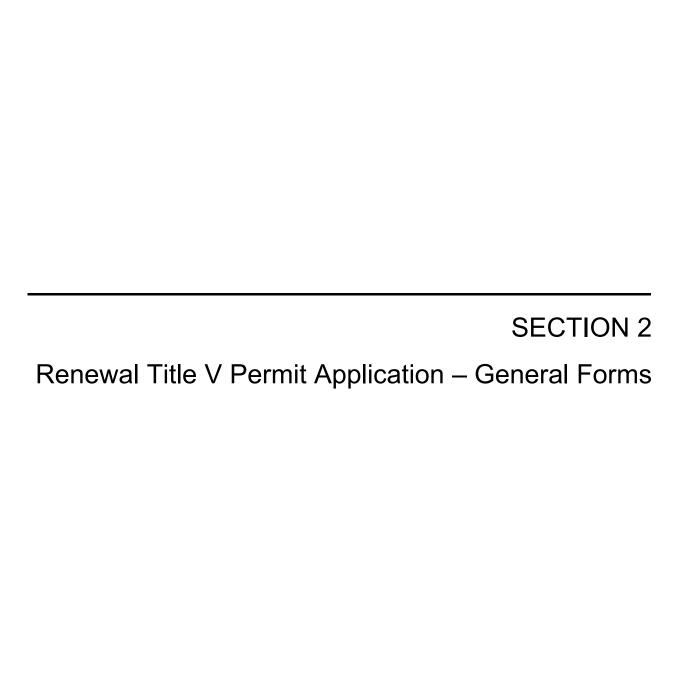
Pepper Station is a natural gas compressor station used to compress gas for Eastern Gas Transmission and Storage, Inc.'s transmission pipeline system in West Virginia. Pepper Station is located in Pepper, West Virginia.

Pepper Station is a major source of air emissions for oxides of nitrogen (NOx) under the West Virginia Department of Environmental Protection (WVDEP) Regulation (45 CSR Part 30) and is subject to the Title V Operating Permit provisions of Part 30.

Pepper Station was issued a Title V Operating Permit (Permit No: R30-0010100-2020) that expires on May 5, 2025.

### **Process Description**

Pepper Station began operation in 1977. The main process at Pepper Station is the compression of natural gas. See Attachment D in the permit application for the list of air emissions sources present at the facility. The listing of tanks and their contents has been updated. No new applicable requirements are proposed for this renewal.





### WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

### **DIVISION OF AIR QUALITY**

601 57<sup>th</sup> Street SE Charleston, WV 25304 Phone: (304) 926-0475

www.dep.wv.gov/daq

### INITIAL/RENEWAL TITLE V PERMIT APPLICATION - GENERAL FORMS

### Section 1: General Information

cetton 1. General Injornation	
<ol> <li>Name of Applicant (As registered with the WV Secretary of State's Office):</li> <li>Eastern Gas Transmission and Storage, Inc.</li> </ol>	2. Facility Name or Location: Pepper Compressor Station
3. DAQ Plant ID No.:	4. Federal Employer ID No. (FEIN):
0 0 1 — 0 0 1 0 0	5 5 0 6 2 9 2 0 3
5. Permit Application Type:	
	perations commence? MM/DD/YYYY expiration date of the existing permit? 05/05/2025
6. Type of Business Entity:	7. Is the Applicant the:
☐ Corporation           ☐ Governmental Agency           ☐ LLC             ☐ Partnership           ☐ Limited Partnership	Owner Operator Both
8. Number of onsite employees:	If the Applicant is not both the owner and operator, please provide the name and address of the other party.
Approx. 15	
9. Governmental Code:	
<ul> <li>☑ Privately owned and operated; 0</li> <li>☑ Federally owned and operated; 1</li> <li>☑ State government owned and operated; 2</li> </ul>	County government owned and operated; 3 Municipality government owned and operated; 4 District government owned and operated; 5
10. Business Confidentiality Claims	
Does this application include confidential information	on (per 45CSR31)? Yes No
If yes, identify each segment of information on each justification for each segment claimed confidential, i accordance with the DAQ's "PRECAUTIONARY NO	ncluding the criteria under 45CSR§31-4.1, and in

11. Mailing Address				
Street or P.O. Box: 925 White Oaks	Blvd.			
City: Bridgeport		State: WV		<b>Zip:</b> 26330
<b>Telephone Number:</b> (681) 842-3000		Fax Number: (681)	842-3323	
12. Facility Location				
Street: Brushy Fork Rd	City: Pepper		County: Barbour	
UTM Easting: 574.20 km	UTM Northing: 4337.79 km		Zone:	☑ 17 or ☐ 18
Directions: Travel north 2.5 miles or mile and the facility is on the right.  Portable Source? Yes		Wate Holli Kt. 57, turii	Ten on Di	usily Fork Road. Havel 1
			Г	
Is facility located within a nonattainment area?  Yes No If yes, for what air pollutants?			or what air pollutants?	
Is facility located within 50 miles of another state?   Yes  No		Pennsyl	name the affected state(s). vania, Ohio, , and Maryland	
Is facility located within 100 km of a Class I Area <sup>1</sup> ?  Yes No  If no, do emissions impact a Class I Area <sup>1</sup> ? Yes No		Dolly So	name the area(s). ods Wilderness Area reek Wilderness Area	
<sup>1</sup> Class I areas include Dolly Sods and Otter Face Wilderness Area in Virginia.	Creek Wilderness A.	reas in West Virginia, and S	henandoah l	National Park and James River

Title: Vice President, Eastern Pipeline Operations	
ip: 26330	
itle: Senior Environmental pecialist	
ip: 23060	
itle: Senior Environmental pecialist	
ip: 23060	
_	

14. Facility Description	
List all processes products NAICS and SIC codes for normal operation, in order of prior	rity Also list any

List all processes, products, NAICS and SIC codes for normal operation, in order of priority. Also list any process, products, NAICS and SIC codes associated with any alternative operating scenarios if different from those listed for normal operation.

Process	Products	NAICS	SIC
Natural gas compressor station	N/A	486210	4922

### Provide a general description of operations.

Pepper Compressor Station is a natural gas compressor station. Engines EN01 and EN02 compress wet
production natural gas flowing through a pipeline for transportation. Engine EN03 and the glycol dehydration unit
compress and dehydration wet transmission natural gas flowing through a pipeline for transportation.

- 15. Provide an Area Map showing plant location as ATTACHMENT A.
- 16. Provide a **Plot Plan(s)**, e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is located as **ATTACHMENT B**. For instructions, refer to "Plot Plan Guidelines."
- 17. Provide a detailed **Process Flow Diagram(s)** showing each process or emissions unit as **ATTACHMENT** C. Process Flow Diagrams should show all emission units, control equipment, emission points, and their relationships.

### Section 2: Applicable Requirements

18. Applicable Requirements Summary			
Instructions: Mark all applicable requirements.			
⊠ SIP	FIP		
Minor source NSR (45CSR13)	☐ PSD (45CSR14)		
NESHAP (45CSR34)	Nonattainment NSR (45CSR19)		
Section 111 NSPS	Section 112(d) MACT standards		
Section 112(g) Case-by-case MACT	112(r) RMP		
Section 112(i) Early reduction of HAP	Consumer/commercial prod. reqts., section 183(e)		
Section 129 Standards/Reqts.	Stratospheric ozone (Title VI)		
Tank vessel reqt., section 183(f)	Emissions cap 45CSR§30-2.6.1		
NAAQS, increments or visibility (temp. sources)	45CSR27 State enforceable only rule		
☐ 45CSR4 State enforceable only rule	Acid Rain (Title IV, 45CSR33)		
Emissions Trading and Banking (45CSR28)	Compliance Assurance Monitoring (40CFR64)		
CAIR NO <sub>x</sub> Annual Trading Program (45CSR39)	CAIR NO <sub>x</sub> Ozone Season Trading Program (45CSR40)		
CAIR SO <sub>2</sub> Trading Program (45CSR41)			
19. Non Applicability Determinations			
List all requirements which the source has determined requested. The listing shall also include the rule citation			
45 CSR 2 – <i>To Prevent and Control Particulate Air Pollution from Combustion of Fuel in Indirect Heat Exchangers.</i> The Ajax CPD-600 Reciprocating Engines/Integral Compressors (Emission Points EN01 and EN02) are exempted from sections 4, 5, 6, 8, and 9 since they have a design heat input below 10 million BTU/hr. Section three lists opacity requirements. Since these engines burn natural gas, visible emissions will be minimal making opacity conditions in the permit unnecessary.			
45 CSR 10—To Prevent and Control Air Pollution from to determined that 45 CSR 10 does not apply to engines; the unit in 45 CSR §10-2.8 or a manufacturing process in 45 Reciprocating Engines/Integral Compressors (Emission P since they have a design heat input below 10 million BTU	engines do not meet the definition of a fuel burning CSR §2-2.11. Additionally, the Ajax CPD-600 oints EN01 and EN m sections 3 and 6-8		
Permit Shield			

19. Non Applicability Determinations (Continued) - Attach additional pages as necessary.
List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.
40 CFR 60, Subpart K—Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978. TK01 and TK02 were constructed in 1977. However, this subpart does not apply per 40 C.F.R.60 § 110(a) because these tanks have a capacity below 40,000 gallons.
40 CFR 60, Subparts Kb and Kc – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. Although TK03 through TK14 were installed after 1984, none are equal to or greater than 75 cubic meters (19,813 gals). Therefore, these Subparts do not apply.
40 CFR 60, Subpart OOOO – Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution. This facility has no equipment with applicable requirements under Subpart OOOO. This subpart applies to equipment installed after August 23, 2011. The compressor associated with EN03 has no requirements under Subpart OOOO because the unit services transmission natural gas. TK06 – TK09 have no requirements under Subpart OOOO because none have the potential for VOC of 6 tons per year or more.
40 CFR 60, Subparts OOOOa and OOOOb – Standards of Performance for Crude Oil and Natural Gas Facilities for Which Construction, Modification or Reconstruction Commenced After September 18, 2015. This facility has no equipment with applicable requirements under Subparts OOOOa or OOOOb. These subparts apply to equipment installed after September 18, 2015. The facility has no effected emissions units that have been installed after the applicable Subparts OOOOa/OOOOb effective dates.
40 CFR 63, Subpart HHH—National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities. This facility is exempt per 40 C.F.R. 63 § 1270(a) since this facility is not a major HAP source.
□ Permit Shield     □

### 20. Facility-Wide Applicable Requirements

List all facility-wide applicable requirements. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*).

45 CSR 6-3.1 – Open burning prohibited (TV 3.1.1)

45 CSR 6-3.2 – Open burning exemption (TV 3.1.2)

40 CFR Part 61.145(b) / 45 CSR 34 – Asbestos inspection and removal (TV 3.1.3)

45 CSR 11-5.2 – Standby plans for reducing emissions (TV 3.1.5)

WV Code 22-5-4(a)(14) – The permittee is responsible for submitting, on an annual basis, as emission inventory in accordance with the submittal requirements (TV 3.1.6)

40 CFR Part 82 Subpart F – Ozone depleting substances (TV 3.1.7)

40 CFR Part 68 – Risk Management Plan (TV 3.1.8)

45 CSR 17-3.1 – No fugitive particulate matter beyond the property boundary (TV 3.1.9)

WV Code 22-5-4(a)(15) and 45 CSR 13 – Stack Testing Requirements (TV 3.3.1)

45 CSR 13 / 45 CSR 30 – Record keeping and Reporting (TV 3.4 and 3.5)

State Enforceable Only:

45 CSR 4-3.1 – Odor control (TV 3.1.4)

Permit Shield

For all facility-wide applicable requirements listed above, provide monitoring/testing / recordkeeping / reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
45 CSR 6-3.1 – The permittee shall prohibit open burning not meeting an exemption listed in 45 CSR 6-3.2 (TV 3.1.1)
45 CSR 6-3.2 – The permittee shall prohibit open burning not meeting an exemption listed in 45 CSR 6-3.2 (TV 3.1.2)
40 CFR Part 61.145(b) / 45 CSR 34 – Prior to demolition/construction, buildings will be inspected for asbestos (TV 3.1.3)
45 CSR 11-5.2 – Upon request by the Secretary, the permittee shall prepare a standby plan (TV 3.1.5) 40 CFR Part 82 Subpart F – The permittee will prohibit maintenance, service, or repair of appliances containing
ozone depleting substances without using certified technicians and equipment (TV 3.1.7)  40 CFR Part 68 – Should the permittee become subject to 40 CFR Part 68, a Risk Management Plan
shall be submitted (TV 3.1.8)
WV Code 22-5-4(a)(15) and 45 CSR 13 – Stack Testing shall be conducted as required and when requested (TV 3.3.1)
45 CSR 30-5.1.c.2.A, 45 CSR 13 – The permittee shall keep records of monitoring (TV 3.4.1, R13-2866 4.3.1)
45 CSR 30-5.1.c.2.B – The permittee shall keep records of monitoring and supporting information for at least 5 years (TV 3.4.2)
45 CSR 30-4.4 and 5.1.c.3.D – Any application form shall contain a certification by the responsible official that states that the statements and information in the document are true (TV 3.5.1)
45 CSR 30-5.1.c.3.E – The permittee may request confidential treatment for the submission of reporting (TV 3.5.2)
45 CSR 30-8 – The permittee shall submit a certified emissions statement annually (TV 3.5.4) 45 CSR 30-5.3.e – The permittee shall certify compliance with the conditions of this permit on the
forms provided by the DAQ (TV 3.5.5)
45 CSR 30-5.1.c.3.A – The permittee shall submit reports of any required monitoring on or before the required dates (TV 3.5.6)
State Enforceable Only:
45 CSR 30-5.1.c – The permittee shall keep records of all odor complaints received, any investigation performed in response to such a compliant, and any responsive action(s) taken (TV 3.4.3)
Are you in compliance with all facility-wide applicable requirements?   Yes No
If no, complete the Schedule of Compliance Form as ATTACHMENT F.

20. Facility-Wide Applicable Requirements (Continued) - Attach additional pages as necessary.
List all facility-wide applicable requirements. For each applicable requirement, include the rule citation and/or permit with the condition number.
(page intentionally blank)
Permit Shield
For all facility-wide applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
(page intentionally blank)
Are you in compliance with all facility-wide applicable requirements?  Yes No
If no, complete the Schedule of Compliance Form as ATTACHMENT F.

Permit or Consent Order Number	Date of Issuance MM/DD/YYYY	List any Permit Determinations that Affect the Permit (if any)
R13-2866B	01/26/2016	None
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Permit Number	Date of Issuance	Permit Condition Number
None	MM/DD/YYYY	NA
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Section 3: Facility-Wide Emissions

Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	48.11
Nitrogen Oxides (NO <sub>X</sub> )	192.01
Lead (Pb)	
Particulate Matter (PM <sub>2.5</sub> ) <sup>1</sup>	1.95
Particulate Matter (PM <sub>10</sub> ) <sup>1</sup>	1.95
Total Particulate Matter (TSP)	3.00
Sulfur Dioxide (SO <sub>2</sub> )	0.06
Volatile Organic Compounds (VOC)	84.35
Hazardous Air Pollutants <sup>2</sup>	Potential Emissions
Formaldehyde	5.11
Acrolein	0.63
Acetaldehyde	0.82
Benzene	0.11
Ethylbenzene	0.01
n-Hexane	0.25
Toluene	0.48
Xylene	0.87
Regulated Pollutants other than Criteria and HAP	Potential Emissions

 $<sup>{}^{1}</sup>PM_{2.5}$  and  $PM_{10}$  are components of TSP.

Note: These potentials-to-emit are based on current permit limits and calculated consistent with annual SLEIS reporting. The VOC potential to emit includes fugitive emissions and tank emissions.

<sup>&</sup>lt;sup>2</sup>For HAPs that are also considered PM or VOCs, emissions should be included in both the HAPs section and the Criteria Pollutants section.

### Section 4: Insignificant Activities

24.	Insign	ificant Activities (Check all that apply)		
$\boxtimes$	1.	Air compressors and pneumatically operated equipment, including hand tools.		
	2.	Air contaminant detectors or recorders, combustion controllers or shutoffs.		
	3.	Any consumer product used in the same manner as in normal consumer use, provided the use results in a duration and frequency of exposure which are not greater than those experienced by consumer, and which may include, but not be limited to, personal use items; janitorial cleaning supplies, office supplies and supplies to maintain copying equipment.		
$\boxtimes$	4.	Bathroom/toilet vent emissions.		
$\boxtimes$	5.	Batteries and battery charging stations, except at battery manufacturing plants.		
	6.	Bench-scale laboratory equipment used for physical or chemical analysis, but not lab fume hoods or vents. Many lab fume hoods or vents might qualify for treatment as insignificant (depending on the applicable SIP) or be grouped together for purposes of description.		
	7.	Blacksmith forges.		
	8.	Boiler water treatment operations, not including cooling towers.		
	9.	Brazing, soldering or welding equipment used as an auxiliary to the principal equipment at the source.		
	10.	CO <sub>2</sub> lasers, used only on metals and other materials which do not emit HAP in the process.		
	11.	Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.		
	12.	Combustion units designed and used exclusively for comfort heating that use liquid petroleum gas or natural gas as fuel.		
	13.	Comfort air conditioning or ventilation systems not used to remove air contaminants generated by or released from specific units of equipment.		
	14.	Demineralized water tanks and demineralizer vents.		
	15.	Drop hammers or hydraulic presses for forging or metalworking.		
	16.	Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam.		
	17.	Emergency (backup) electrical generators at residential locations.		
	18.	Emergency road flares.		
	19.	Emission units which do not have any applicable requirements and which emit criteria pollutants (CO, NO <sub>x</sub> , SO <sub>2</sub> , VOC and PM) into the atmosphere at a rate of less than 1 pound per hour and less than 10,000 pounds per year aggregate total for each criteria pollutant from all emission units.		
		Please specify all emission units for which this exemption applies along with the quantity of criteria pollutants emitted on an hourly and annual basis:		
		<del></del>		
		<del></del>		
		<del></del>		

24.	Insigni	ificant Activities (Check all that apply)
	20.	Emission units which do not have any applicable requirements and which emit hazardous air pollutants into the atmosphere at a rate of less than 0.1 pounds per hour and less than 1,000 pounds per year aggregate total for all HAPs from all emission sources. This limitation cannot be used for any source which emits dioxin/furans nor for toxic air pollutants as per 45CSR27.
		Please specify all emission units for which this exemption applies along with the quantity of hazardous air pollutants emitted on an hourly and annual basis:
	21.	Environmental chambers not using hazardous air pollutant (HAP) gases.
$\boxtimes$	22.	Equipment on the premises of industrial and manufacturing operations used solely for the purpose of preparing food for human consumption.
	23.	Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.
	24.	Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.
	25.	Equipment used for surface coating, painting, dipping or spray operations, except those that will emit VOC or HAP.
	26.	Fire suppression systems.
$\boxtimes$	27.	Firefighting equipment and the equipment used to train firefighters.
	28.	Flares used solely to indicate danger to the public.
	29.	Fugitive emission related to movement of passenger vehicle provided the emissions are not counted for applicability purposes and any required fugitive dust control plan or its equivalent is submitted.
	30.	Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation.
$\boxtimes$	31.	Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic.
	32.	Humidity chambers.
	33.	Hydraulic and hydrostatic testing equipment.
	34.	Indoor or outdoor kerosene heaters.
$\boxtimes$	35.	Internal combustion engines used for landscaping purposes.
	36.	Laser trimmers using dust collection to prevent fugitive emissions.
	37.	Laundry activities, except for dry-cleaning and steam boilers.
	38.	Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.
	39.	Oxygen scavenging (de-aeration) of water.
	40.	Ozone generators.

24.	Insign	ificant Activities (Check all that apply)
	41.	Plant maintenance and upkeep activities (e.g., grounds-keeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots) provided these activities are not conducted as part of a manufacturing process, are not related to the source's primary business activity, and not otherwise triggering a permit modification. (Cleaning and painting activities qualify if they are not subject to VOC or HAP control requirements. Asphalt batch plant owners/operators must still get a permit if otherwise requested.)
	42.	Portable electrical generators that can be moved by hand from one location to another. "Moved by Hand" means that it can be moved without the assistance of any motorized or non-motorized vehicle, conveyance, or device.
	43.	Process water filtration systems and demineralizers.
	44.	Repair or maintenance shop activities not related to the source's primary business activity, not including emissions from surface coating or de-greasing (solvent metal cleaning) activities, and not otherwise triggering a permit modification.
	45.	Repairs or maintenance where no structural repairs are made and where no new air pollutant emitting facilities are installed or modified.
	46.	Routing calibration and maintenance of laboratory equipment or other analytical instruments.
	47.	Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants. Shock chambers.
	48.	Shock chambers.
	49.	Solar simulators.
$\boxtimes$	50.	Space heaters operating by direct heat transfer.
	51.	Steam cleaning operations.
	52.	Steam leaks.
	53.	Steam sterilizers.
	54.	Steam vents and safety relief valves.
	55.	Storage tanks, reservoirs, and pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized.
	56.	Storage tanks, vessels, and containers holding or storing liquid substances that will not emit any VOC or HAP. Exemptions for storage tanks containing petroleum liquids or other volatile organic liquids should be based on size limits such as storage tank capacity and vapor pressure of liquids stored and are not appropriate for this list.
	57.	Such other sources or activities as the Director may determine.
	58.	Tobacco smoking rooms and areas.
	59.	Vents from continuous emissions monitors and other analyzers.

### 25. Equipment Table

Fill out the **Title V Equipment Table** and provide it as **ATTACHMENT D**.

### 26. Emission Units

For each emission unit listed in the **Title V Equipment Table**, fill out and provide an **Emission Unit Form** as **ATTACHMENT E**.

For each emission unit not in compliance with an applicable requirement, fill out a **Schedule of Compliance** Form as ATTACHMENT F.

### 27. Control Devices

For each control device listed in the **Title V Equipment Table**, fill out and provide an **Air Pollution Control Device Form** as **ATTACHMENT G**.

For any control device that is required on an emission unit in order to meet a standard or limitation for which the potential pre-control device emissions of an applicable regulated air pollutant is greater than or equal to the Title V Major Source Threshold Level, refer to the **Compliance Assurance Monitoring (CAM) Form(s)** for CAM applicability. Fill out and provide these forms, if applicable, for each Pollutant Specific Emission Unit (PSEU) as **ATTACHMENT H**.

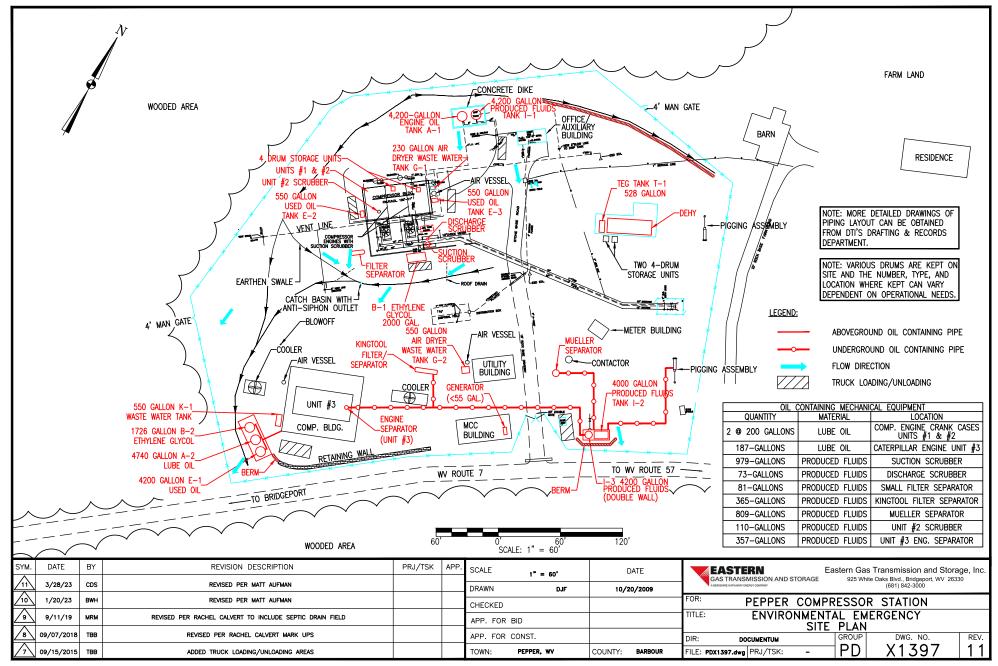
28. Certification of Truth, Accuracy and Completeness and Certification of Compliance					
Note	te: This Certification must be signed by a responsible official. The original, signed in blue ink, must be submitted with the application. Applications without an original signed certification will be considered as incomplete.				
a. C	ertification of Truth, Accuracy and Completeness				
this s I cer subn respo knov false	rify that I am a responsible official (as defined at 45CSR§30-2.38) and am accordingly authorized to make submission on behalf of the owners or operators of the source described in this document and its attachments. This is under penalty of law that I have personally examined and am familiar with the statements and information attend in this document and all its attachments. Based on my inquiry of those individuals with primary possibility for obtaining the information, I certify that the statements and information are to the best of my eledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting statements and information or omitting required statements and information, including the possibility of fine or imprisonment.				
b. C	ompliance Certification				
Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.					
Resp	onsible official (type or print)				
Nam	e: John M. Lamb  Title: Vice President, Eastern Pipeline Operations				
Responsible official's signature:  Signature: Signature Date: 10/24/2024  (Must be signed and dated in blue ink)					
	: Please check all applicable attachments included with this permit application:				
	ATTACHMENT A: Area Map				
	ATTACHMENT B: Plot Plan(s)				
	ATTACHMENT C: Process Flow Diagram(s)				
	ATTACHMENT D: Equipment Table				
	ATTACHMENT E: Emission Unit Form(s)				
	ATTACHMENT F: Schedule of Compliance Form(s)				
	ATTACHMENT G: Air Pollution Control Device Form(s)				
$\Box$	ATTACHMENT H: Compliance Assurance Monitoring (CAM) Form(s)				

ATTACHMENT A

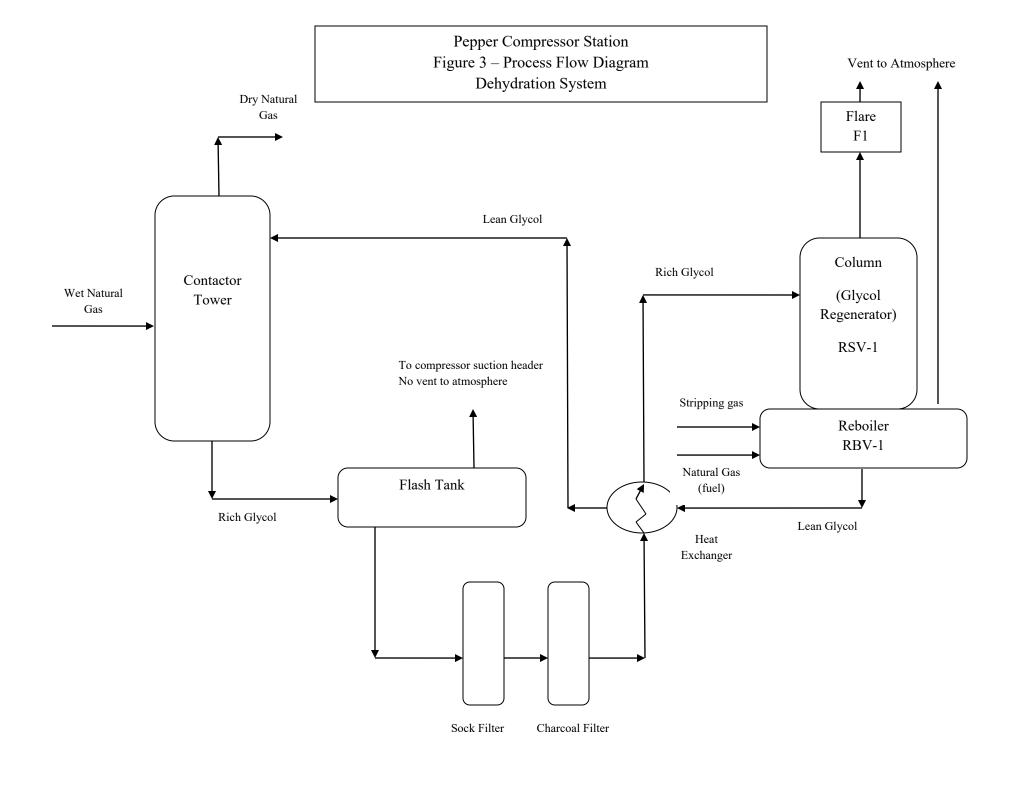
Area Map



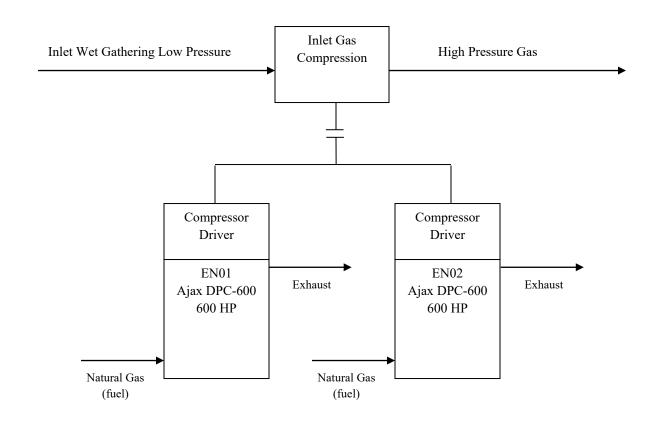
ATTACHMENT B
Plot Plan



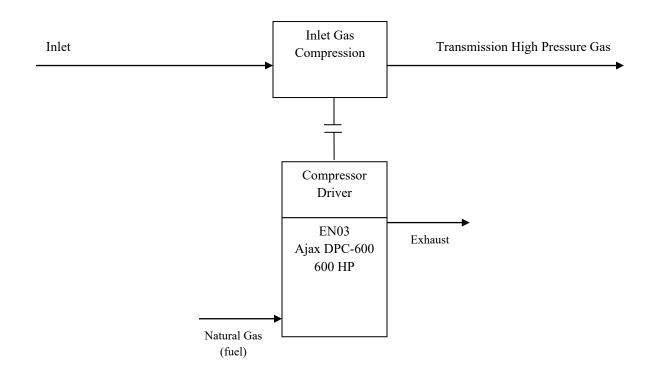
# ATTACHMENT C Process Flow Diagram



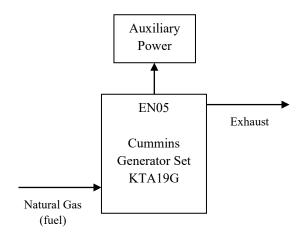
Pepper Compressor Station Figure 1 – Process Flow Diagram Compressor Engines



Pepper Compressor Station
Figure 2 – Process Flow Diagram
Compressor Engines



Pepper Compressor Station Figure 4 – Process Flow Diagram Emergency Auxiliary Generator



# ATTACHMENT D Title V Equipment Table

### **ATTACHMENT D - Title V Equipment Table**

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Point ID <sup>1</sup>	Control Device <sup>1</sup>	Emission Unit ID <sup>1</sup>	Emission Unit Description	Design Capacity	Year Installed/ Modified
EN01*	N/A	EN01	Reciprocating Engine/Integral Compressor; Ajax DPC-600	600 HP	1977
EN02*	N/A	EN02	Reciprocating Engine/Integral Compressor; Ajax DPC-600	600 HP	1977
EN03*	CC1	EN03	Caterpillar G3606LE Compressor	1,775 HP	2011
EN05*	N/A	EN05	Cummins Generator Set; KTA19G	530 HP	2012
RSV1	F1	F1	Glycol Dehydrator Regenerator	30 mmscf/day	2011
RBV1	N/A	RBV1	Glycol Dehydrator Reboiler Vent	1.155 mmBtu/hr	2011
TK01	N/A	TK01	Tank containing Produced Fluids (I-1)	4,200 gallon	1977
TK02	N/A	TK02	Tank containing New Engine Oil (A-1)	4,200 gallon	1977
TK03	N/A	TK03	Tank containing Ethylene Glycol (B-1)	2,000 gallon	1992
TK04	N/A	TK04	Tank containing Waste Water (G-1)	230 gallon	1985
TK05	N/A	TK05	Tank containing Produced Fluids (I-2)	4,000 gallon	2005
TK06	N/A	TK06	Tank containing TEG (T-1)	528 gallon	2012
TK07	N/A	TK07	Tank containing Used Oil (E-1)	4,200 gallon	2012
TK08	N/A	TK08	Tank containing Motor Oil (A-2)	4,740 gallon	2012
TK09	N/A	TK09	Tank containing Ethylene Glycol (B-2)	1,726 gallon	2012
TK10	N/A	TK10	Tank containing Produced Fluids (I-3)	4,200 gallon	2014
TK11	N/A	TK11	Tank containing Used Oil (E-2)	550 gallon	2012
TK12	N/A	TK12	Tank containing Used Oil (E-3)	550 gallon	2012
TK13	N/A	TK13	Tank containing Waste Water (G-2)	550 gallon	2014
TK14	N/A	TK14	Tank containing Waste Water (K-1)	550 gallon	2014
Control Device	s				
F1		F1	Ground Level Flare	6 mmBtu/hr	2011
CC1		EN03	Catalyst on EN03	NA	2011

<sup>\*</sup> Equipment burns or combusts pipeline quality natural gas only.

<sup>1</sup>For 45CSR13 permitted sources, the numbering system used for the emission points, control devices, and emission units should be consistent with the numbering system used in the 45CSR13 permit. For grandfathered sources, the numbering system should be consistent with registrations or emissions inventory previously submitted to DAQ. For emission points, control devices, and emissions units which have not been previously labeled, use the following 45CSR13 numbering system: 1S, 2S, 3S,... or other appropriate description for emission units; 1C, 2C, 3C,... or other appropriate designation for control devices; 1E, 2E, 3E, ... or other appropriate designation for emission points.

## ATTACHMENT E Emission Unit Forms

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number: EN01	Emission unit name: EN01	List any control devices associated with this emission unit:		
Provide a description of the emission Ajax 600 hp natural gas fired reciproc	-		.):	
<b>Manufacturer:</b> Ajax	Model number: DPC-600	Serial number: NA		
Construction date: Pre-NSPS	Installation date: 1977	Modification date(s): NA		
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 8,000 btu/hp-hrs				
Maximum Hourly Throughput: 0.0048 MMscf/hr	Maximum Annual Throughput:	Maximum Operating Schedule: 8760		
Fuel Usage Data (fill out all applical	ole fields)			
Does this emission unit combust fue	Does this emission unit combust fuel? X Yes No If yes, is it?			
		Indirect Fired	_X _Direct Fired	
Maximum design heat input and/or 600 HP	Type and Btu/hr rating of burners: NA			
List the primary fuel type(s) and if a the maximum hourly and annual fu		s). For each fuel type	listed, provide	
Natural Gas				
Describe each fuel expected to be us	ed during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	
Natural Gas	<20 gr/100 ft <sup>3</sup>	N/A	1,000 BTU/ft <sup>3</sup>	

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	TPY
Carbon Monoxide (CO)	4.1	18.0
Nitrogen Oxides (NO <sub>X</sub> )	20.5	90.0
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	0.19	0.81
Particulate Matter (PM <sub>10</sub> )	0.19	0.81
Total Particulate Matter (TSP)	0.24	1.02
Sulfur Dioxide (SO <sub>2</sub> )	0.003	0.01
Volatile Organic Compounds (VOC)	3.8	16.8
Hazardous Air Pollutants	Potential Emissions	
	РРН	TPY
Formaldehyde	0.12	0.63
Acrolein	0.04	0.16
Acetaldehyde	0.04	0.16
Benzene	0.009	0.04
Ethylbenzene	0.0005	<0.01
Toluene	0.0046	0.02
Xylene	0.0013	0.005
Regulated Pollutants other than	Potential Emissions	
Criteria and HAP	PPH	TPY

NOx, CO, and VOC emission rates were based on emission factors provided by the manufacturer. Other emissions were calculated using AP-42 Table 3.2-1 (7/00) or in accordance with SLEIS calculations.

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
40 CFR Part 63, Subpart ZZZZ §63.6603(a), Table 2d (Item 6), and §63.6595(a)(1): Every 4,320 hours of operation or annually, whichever comes first change oil and filter and inspect spark plugs, hoses, and belts (replace as necessary). (TV 4.1.10)
40 CFR Part 63, Subpart ZZZZ §63.6625(e)(5), §63.6630(a) and Table 6 (Item 9): Operate and maintain the stationary RICE, and any after-treatment control device, according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. (TV 4.1.11(e))
40 CFR Part 63, Subpart ZZZZ §63.6625(h): The engine must be in compliance with NESHAP emission limits (if applicable) or NESHAP work practice standards within 30 minutes of startup. (TV 4.1.11(h))
40 CFR Part 63, Subpart ZZZZ §63.6625(j): The permittee may implement an oil analysis program to extend the specified oil change requirement (TV 4.1.11(j))
40 CFR Part 63, Subpart ZZZZ §63.6605: At all times 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. (General duty to comply clause). (TV 4.1.12)
40 CFR Part 63, Subpart ZZZZ §§63.6640(b): The permittee must report each instance in which they did not meet operating limitations. (TV 4.1.13)
Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
40 CFR Part 63, Subpart ZZZZ §§63.6655(a): The permittee must maintain records of the following: a. The occurrence and duration of each malfunction of the unit and air pollution control equipment. b. All required maintenance performed on the engine and air pollution control equipment to demonstrate that you operated and maintained them in accordance with your maintenance plan including the required work practice requirements

requirements.
c. Actions taken during periods of malfunction to minimize emissions including corrective actions to restore

malfunctioning process and air pollution control equipment. (TV 4.4.4)

Are you in compliance with all applicable requirements for this emission unit?  $\_X\_Yes$   $\_\_\_No$ 

ATT	ACHMENT E - Emission Uni	t Form	
Emission Unit Description			
Emission unit ID number: EN02	Emission unit name: EN02	List any control devices associated with this emission unit:	
Provide a description of the emission Ajax 600 hp natural gas fired reciproc	-		.):
Manufacturer: Ajax	Model number: DPC-600	Serial number: NA	
Construction date: Pre-NSPS	Installation date: 1977	Modification date(s	):
<b>Design Capacity (examples: furnace</b> 8,000 btu/hp-hrs	es - tons/hr, tanks - gallons):	,	
Maximum Hourly Throughput: 0.0048 MMscf/hr	Maximum Annual Throughput:	Maximum Operation 8760 hrs/yr	ng Schedule:
Fuel Usage Data (fill out all applical	ble fields)		
Does this emission unit combust fue	<b>1?</b> <u>X</u> Yes No	If yes, is it?	
		Indirect Fired	_X _Direct Fired
Maximum design heat input and/or 600 HP	maximum horsepower rating:	Type and Btu/hr ra NA	ting of burners:
List the primary fuel type(s) and if a the maximum hourly and annual fu		s). For each fuel type	listed, provide
Natural Gas			
Describe each fuel expected to be us	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural Gas	<20 gr/100 ft <sup>3</sup>	N/A	1,000 BTU/ft <sup>3</sup>

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	4.1	18.0
Nitrogen Oxides (NO <sub>X</sub> )	20.5	90.0
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	0.19	0.81
Particulate Matter (PM <sub>10</sub> )	0.19	0.81
Total Particulate Matter (TSP)	0.24	1.02
Sulfur Dioxide (SO <sub>2</sub> )	0.003	0.01
Volatile Organic Compounds (VOC)	3.8	16.8
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Formaldehyde	0.12	0.63
Acrolein	0.04	0.16
Acetaldehyde	0.04	0.16
Benzene	0.009	0.04
Ethylbenzene	0.0005	<0.01
Toluene	0.0046	0.02
Xylene	0.0013	0.005
Regulated Pollutants other than	Potential Emissions	
Criteria and HAP	PPH	TPY

NOx, CO, and VOC emission rates were based on emission factors provided by the manufacturer. Other emissions were calculated using AP-42 Table 3.2-1 (7/00) or in accordance with SLEIS calculations.

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
40 CFR Part 63, Subpart ZZZZ §63.6603(a), Table 2d (Item 6), and §63.6595(a)(1): Every 4,320 hours of operation or annually, whichever comes first change oil and filter and inspect spark plugs, hoses, and belts (replace as necessary). (TV 4.1.10)
40 CFR Part 63, Subpart ZZZZ §63.6625(e)(5), §63.6630(a) and Table 6 (Item 9): Operate and maintain the stationary RICE, and any after-treatment control device, according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. (TV 4.1.11(e))
40 CFR Part 63, Subpart ZZZZ §63.6625(h): The engine must be in compliance with NESHAP emission limits (if applicable) or NESHAP work practice standards within 30 minutes of startup. (TV 4.1.11(h))
40 CFR Part 63, Subpart ZZZZ §63.6625(j): The permittee may implement an oil analysis program to extend the specified oil change requirement (TV 4.1.11(j))
40 CFR Part 63, Subpart ZZZZ §63.6605: At all times 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. (General duty to comply clause). (TV 4.1.12)
40 CFR Part 63, Subpart ZZZZ §§63.6640(b): The permittee must report each instance in which they did not meet operating limitations. (TV 4.1.13)
Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
40 CFR Part 63, Subpart ZZZZ §§63.6655(a): The permittee must maintain records of the following: a. The occurrence and duration of each malfunction of the unit and air pollution control equipment. b. All required maintenance performed on the engine and air pollution control equipment to demonstrate that you operated and maintained them in accordance with your maintenance plan including the required work practice requirements. c. Actions taken during periods of malfunction to minimize emissions including corrective actions to restore malfunctioning process and air pollution control equipment. (TV 4.4.4)

Are you in compliance with all applicable requirements for this emission unit? \_X\_Yes \_\_\_\_No

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number: EN03	Emission unit name: EN03	List any control devices associated with this emission unit:	
Provide a description of the emission  Natural gas fired reciprocating interna	-	esign parameters, etc.	.):
Manufacturer: Caterpillar	Model number: G3606LE	Serial number: NA	
Construction date: NSPS JJJJ-affected	Installation date: 2011	Modification date(s): NA	
Design Capacity (examples: furnace 1,775 HP	s - tons/hr, tanks - gallons):		
Maximum Hourly Throughput: ~12,780 cf/hr	Maximum Annual Throughput: NA	Maximum Operating Schedule: 8,760 hrs/yr	
Fuel Usage Data (fill out all applical	ole fields)		
Does this emission unit combust fue	!? <u>X</u> Yes No	If yes, is it?	
		Indirect Fired	_X _Direct Fired
Maximum design heat input and/or maximum horsepower rating: 1,775 HP  Type and Btu/hr rating of bur		ting of burners:	
List the primary fuel type(s) and if a the maximum hourly and annual fu		s). For each fuel type	listed, provide
Pipeline Quality Natural Gas			
Describe each fuel expected to be us	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural Gas	<20 gr/100 ft <sup>3</sup>	N/A	1,000 BTU/ft <sup>3</sup>
Emissions Data			

Criteria Pollutants	Potential Emissions		
	РРН	TPY	
Carbon Monoxide (CO)	2.15	9.43	
Nitrogen Oxides (NO <sub>X</sub> )	1.96	8.57	
Lead (Pb)			
Particulate Matter (PM <sub>2.5</sub> )	0.001	0.005	
Particulate Matter (PM <sub>10</sub> )	0.001	0.005	
Total Particulate Matter (TSP)	0.13	0.59	
Sulfur Dioxide (SO <sub>2</sub> )	0.008	0.035	
Volatile Organic Compounds (VOC)	0.87	3.78	
Hazardous Air Pollutants	Potential Emissions		
	PPH	TPY	
Formaldehyde	0.87	3.78	
Regulated Pollutants other than	Potential Emissions		
Criteria and HAP	РРН	TPY	

NOx, CO, VOC, and formaldehyde emission factors are from the manufacturer and limited by R13-2866B. SO2, PM10, and PM2.5 emission factors are from AP-42.

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
40 CFR Part 60, Subpart JJJJ 60.4233(e) and Table 1: Emission limits for NOx of 1.0 g/HP-hr or 82 ppmvd at 15% O2, CO of 2.0 g/HP-hr or 270 ppmvd at 15% O2, and VOC of 1.0 g/HP-hr or 60 ppmvd at 15% O2. (TV 4.1.14)
40 CFR Part 63, Subpart ZZZZ 63.6590(c): Meet requirements of Subpart ZZZZ by meeting the requirements in 40 CFR Part 60, Subpart JJJJ. No further requirements in Subpart ZZZZ apply.
R13-2866B limits the amount of fuel to 12,780 cf/hr. Note that this is the maximum design capacity of the unit.
Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
40 CFR Part 60, Subpart JJJJ 60.4243(b)(2)(ii), 60.4244, 60.4245(a), and 60.4245(d):
Keep a maintenance plan and records of conducted maintenance.  Maintain and operate, to the extent practicable, the engine in a manner consistent with good air pollution control practices for minimizing emissions.
Conduct and initial performance test and subsequent performance testing every 8,760 hours or 3 years, whichever comes first. (TV 4.3, 4.4.5)
Are you in compliance with all applicable requirements for this emission unit? X_YesNo

AT	ΓΑCHMENT E - Emission Uni	it Form	
Emission Unit Description			
Emission unit ID number: EN05	Emission unit name: EN05	List any control devices associated with this emission unit:	
Provide a description of the emissi Emergency auxiliary generator.	on unit (type, method of operation, d	esign parameters, etc.	.):
Manufacturer: Cummins	Model number: KTA19G	Serial number: NA	
Construction date: NSPS JJJJ-affected	Installation date: 2012	Modification date(s): NA	
Design Capacity (examples: furnac 530 HP	ces - tons/hr, tanks - gallons):		
<b>Maximum Hourly Throughput:</b> ~4,615 cf/hr	Maximum Annual Throughput: NA	Maximum Operation 500	ng Schedule:
Fuel Usage Data (fill out all applic	able fields)	1	
Does this emission unit combust fu	el? <u>X</u> Yes No	If yes, is it?	
		Indirect Fired	_X _Direct Fired
Maximum design heat input and/o 530 HP	r maximum horsepower rating:	Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if the maximum hourly and annual f	applicable, the secondary fuel type(suel usage for each.	s). For each fuel type	listed, provide
Pipeline Quality Natural Gas			
Describe each fuel expected to be u	used during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural Gas	<20 gr/100 ft <sup>3</sup>	N/A	1,000 BTU/ft <sup>3</sup>
Emissions Data			

Criteria Pollutants	Potential Emissions	
	РРН	TPY
Carbon Monoxide (CO)	1.75	0.44
Nitrogen Oxides (NO <sub>X</sub> )	1.69	0.42
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )	< 0.01	< 0.01
Particulate Matter (PM <sub>10</sub> )	< 0.01	< 0.01
Total Particulate Matter (TSP)	0.05	0.01
Sulfur Dioxide (SO <sub>2</sub> )	< 0.01	< 0.01
Volatile Organic Compounds (VOC)	0.21	0.05
Hazardous Air Pollutants	Potentia	al Emissions
	РРН	TPY
Formaldehyde	0.26	0.07
Regulated Pollutants other than	Potential Emissions	
Criteria and HAP	РРН	TPY

NOx, CO, VOC, and formaldehyde emission factors are potential emissions as limited by R13-2866B. SO2 and Particulate Matter emission factors are from AP-42.

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
40 CFR Part 60, Subpart JJJJ, 60.4233and Table 1: Emission limits for NOx of 2.0 g/HP-hr or 160 ppmvd at 15% O2, CO of 4.0 g/HP-hr or 540 ppmvd at 15% O2, and VOC of 1.0 g/HP-hr or 86 ppmvd at 15% O2. (TV 4.1.14)
40 CFR Part 60, Subpart JJJJ, 60.4243(d): a. There is no time limit on the use of emergency stationary RICE in emergency situations. b. Emergency RICE may be operated for maintenance checks and readiness testing as required by government, manufacturer, vendor, insurance, regional transmission or equivalent balancing authority and transmission operator, and emergency demand response in Energy Emergency alert Level 2, etc. for maximum of 100 hours per calendar year. c. Emergency stationary RICE may operate up to 50 hours per year in non-emergency situations (those 50 hours are counted towards the 100 hours per year provided for maintenance and testing and emergency demand response.) (TV 4.1.18)  40 CFR Part 60, Subpart JJJJ, 60.4237(a): Must install and maintain a non-resettable hour meter. (TV 4.1.15)
40 CFR Part 63, Subpart ZZZZ, 63.6590(c): Meet requirements of Subpart ZZZZ by meeting the requirements in 40 CFR Part 60, Subpart JJJJ. No further requirements in Subpart ZZZZ apply.
Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
40 CFR Part 60, Subpart JJJJ, 60.4245(a and b): Keep records of the following: a. Maintenance conducted on engine b. Manufacturer documentation of engine certification c. Operating hours (TV 4.4.6, 4.4.7, 4.4.8)

Are you in compliance with all applicable requirements for this emission unit? X Yes No

ATT	ACHMENT E - Emission Uni	t Form	
Emission Unit Description			
Emission unit ID number:	Emission unit name: RBV1	List any control devices associated with this emission unit:	
Provide a description of the emissio Glycol dehydration system reboiler.	n unit (type, method of operation, d	l esign parameters, etc	.):
Manufacturer: Engineering Technology Incorporated	Model number: NA	Serial number: NA	
Construction date: 2011	Installation date: 2011	Modification date(s): NA	
Design Capacity (examples: furnace 1.155 mmBtu/hr	es - tons/hr, tanks - gallons):		
Maximum Hourly Throughput: 1.155 x 10 <sup>6</sup> BTU/hr	Maximum Annual Throughput: NA	Maximum Operation 8760	ng Schedule:
Fuel Usage Data (fill out all applica	ble fields)		
Does this emission unit combust fue	<b>!?</b> _ <u>X</u> _Yes No	If yes, is it?	
		Indirect Fired	_X _Direct Fired
Maximum design heat input and/or 1.155 x 10 <sup>6</sup> BTU/hr	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if a the maximum hourly and annual fu		s). For each fuel type	listed, provide
Pipeline Quality Natural Gas			
Describe each fuel expected to be us	ed during the term of the permit.		<u> </u>
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural Gas	<20 gr/100 ft <sup>3</sup>	N/A	1,000 BTU/ft <sup>3</sup>

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	TPY
Carbon Monoxide (CO)	0.151	0.66
Nitrogen Oxides (NO <sub>X</sub> )	0.247	1.08
Lead (Pb)	Negligible	Negligible
Particulate Matter (PM <sub>2.5</sub> )	<0.01	0.01
Particulate Matter (PM <sub>10</sub> )	<0.01	0.01
Total Particulate Matter (TSP)	0.01	0.05
Sulfur Dioxide (SO <sub>2</sub> )	<0.01	< 0.01
Volatile Organic Compounds (VOC)	0.116	0.51
Hazardous Air Pollutants	Potential Emissions	
	РРН	TPY
Regulated Pollutants other than	Potential Emissions	
Criteria and HAP	PPH	TPY

CO, NOx, and VOC are based on vendor guarantees (Dominion Quotation DO081010) and as permitted in R13-2866B. All remaining emission factors are from AP-42.

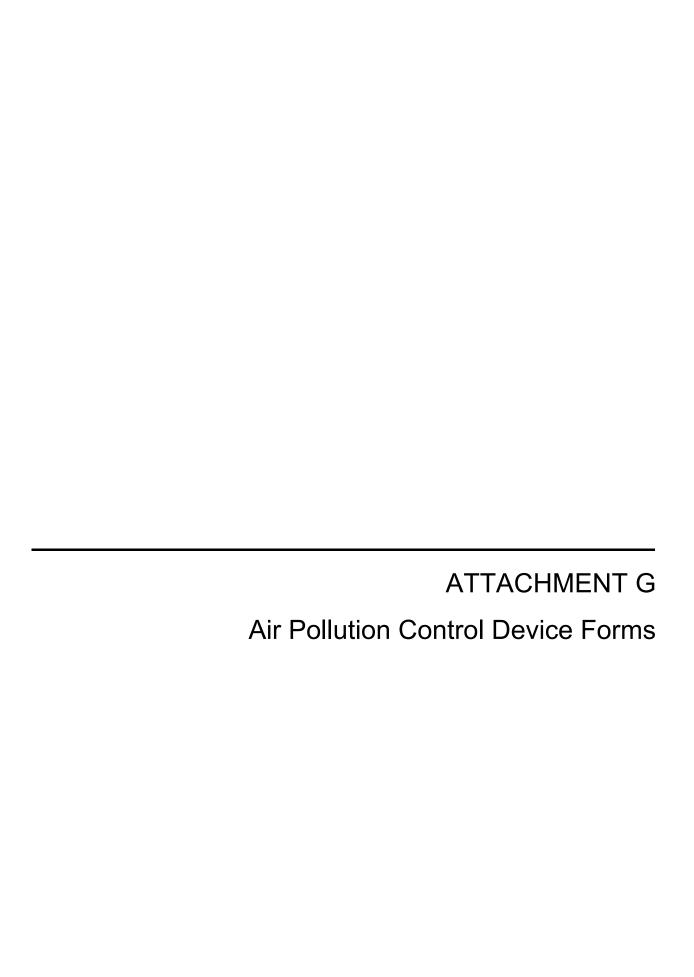
Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
40 CSR 2-3.1 – Emission of Visible Particulate Matter must be less than 10% opacity on a six minute block average.
Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
TV 2.1.7: Proper operation and fuel type will prevent visible particulate matter from exceeding the 10% opacity on six minute block average limit. Emergency situations which cause an exceedance of this limit will be reported.
Are you in compliance with all applicable requirements for this emission unit? X Yes No
If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number: RSV1	Emission unit name:	List any control dev with this emission u	
Provide a description of the emission Glycol dehydration regenerator still.	n unit (type, method of operation, d	l esign parameters, etc.	):
Manufacturer: Engineering Technology, Inc.	Model number: NA	Serial number: NA	
Construction date: 2011	Installation date: 2011	Modification date(s	):
Design Capacity (examples: furnace ~30 mmscfd	s - tons/hr, tanks - gallons):	,	
Maximum Hourly Throughput: NA	Maximum Annual Throughput: ~10,950 mmscf/yr	Maximum Operation 8,760 hrs/yr	ng Schedule:
Fuel Usage Data (fill out all applical	ole fields)		
Does this emission unit combust fuel? _X_Yes No Fuel is combusted in the flare.  Indirect Fired _X_Direct		_X _Direct Fired	
Maximum design heat input and/or maximum horsepower rating:  Flare has a max capacity of 9,381 scf/hr  Type and Btu/hr rating of bu NA		ting of burners:	
List the primary fuel type(s) and if a the maximum hourly and annual fuel Pipeline Quality Natural Gas for supplementary of the primary fuel type(s) and if a the maximum hourly and annual fuel pipeline Quality Natural Gas for supplementary fuel type(s).	el usage for each.	,	listed, provide
Describe each fuel expected to be us			DESTRUCTION OF THE PROPERTY OF
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural Gas	<20 gr/100 ft <sup>3</sup>	N/A	1,000 BTU/ft <sup>3</sup>

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.36	1.57
Nitrogen Oxides (NO <sub>X</sub> )	0.45	1.94
Lead (Pb)		
Particulate Matter (PM <sub>2.5</sub> )	0.08	0.32
Particulate Matter (PM <sub>10</sub> )	0.08	0.32
Total Particulate Matter (TSP)	0.08	0.32
Sulfur Dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)	1.29	5.63
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Hexane	0.03	0.15
Toluene	0.095	0.42
Xylene	0.193	0.85
Regulated Pollutants other than	Potential Emissions	
Criteria and HAP	РРН	TPY

NOx, CO, and PMemission factors are from the flare Manufacturer and included in R13-2866B. VOC and HAP emission factors are from GLYCalc Version 4.0, also as reflected in R13-2866B.

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
45 CSR 6-4.3, 6-4.4: Flare must not cause smoke with opacity of 20% or greater, with the exception of smoke less than 40% opacity for less than 8 minutes during startup. (TV 4.1.4, 4.1.5)
45 CSR 6-4.5: Flare must not release particles of unburned or partially burned refuse or ash. (TV 4.1.6)
45 CSR 6-4.6: Flare must not omit any objectionable odors. (TV 4.1.7)
45 CSR 13-5.11: Flare must be maintained and operated in a manner consistent with safety and good air pollution control practices. (TV 4.1.9)
Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
TV 4.2.2: Conduct monthly visual emission checks.
TV 3.4.3: Maintain a record of odor complaints and responsive actions taken.
TV 4.4.1: Maintain records of inspections and maintenance.
TV 4.4.2: Maintain records of malfunctions.
Are you in compliance with all applicable requirements for this emission unit? X Yes No
If no, complete the Schedule of Compliance Form as ATTACHMENT F.



ATTACHMENT G - Air Pollution Control Device Form		
Control device ID number: CC1	List all emission units associated with this control device. EN03	
Manufacturer: Vanec	Model number: NA	Installation date: 2011
Type of Air Pollution Control Device	:	
Baghouse/Fabric Filter	Venturi Scrubber	Multiclone
Carbon Bed Adsorber	Packed Tower Scrubber	Single Cyclone
Carbon Drum(s)	Other Wet Scrubber	Cyclone Bank
Catalytic Incinerator	Condenser	Settling Chamber
Thermal Incinerator	Flare	X_Other (describe) <u>Catalytic Oxidation</u> and Reduction_
Wet Plate Electrostatic Precipitator	· -	Dry Plate Electrostatic Precipitator
List the pollutants for which this dev	ice is intended to control and th	e capture and control efficiencies.
Pollutant	Capture Efficiency	Control Efficiency
СО	100%	80% (2.75 gr/bhp-hr pre-catalsyt, 0.55 gr/bhp-hr post-catalyst)
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).		
NA		
Is this device subject to the CAM req		Yes <u>X</u> No
If No, <b>Provide justification.</b> The potential pre-control emissions of applicable pollutants does not exceed 100% of the major source threshold. NSPS JJJJ-affected engine.		

Describe the parameters monitored and/or methods used to indicate performance of this control device.
Certified engine; operate in conformance with NSPS JJJJ requirements.

ATTACHMENT G - Air Pollution Control Device Form		
Control device ID number: F1	List all emission units associated with this control device. RSV1	
Manufacturer: Engineering Technology Incorporated	Model number:	Installation date: 2011
Type of Air Pollution Control Device:		
Baghouse/Fabric Filter	Venturi Scrubber	Multiclone
Carbon Bed Adsorber	Packed Tower Scrubber	Single Cyclone
Carbon Drum(s)	Other Wet Scrubber Cyclone Bank	
Catalytic Incinerator	_ Condenser Settling Chamber	
Thermal Incinerator _ <u>X</u> _	X_ Flare Other (describe)	
Wet Plate Electrostatic Precipitator Dry Plate Electrostatic Precipitator		
List the pollutants for which this device is intended to control and the capture and control efficiencies.		
Pollutant	Capture Efficiency	Control Efficiency
VOC		98%
Hexane		98%
Toluene		98%
Xylene		98%
Explain the characteristic design parabags, size, temperatures, etc.).  Capacity of flare: 9,381 scf/hr	meters of this control device (flow	rates, pressure drops, number of

Is this device subject to the CAM requirements of 40 C.F.R. 64? YesX_ No
If Yes, Complete ATTACHMENT H
If No, <b>Provide justification.</b> The potential pre-control emissions of applicable pollutants from RSV1 does not exceed 100% of the major source threshold amount. The Permittee is conducting reasonable assurance compliance monitoring to maintain minor source classification in accordance with the requirements of 40 CFR 63, Subpart HH.
Describe the parameters monitored and/or methods used to indicate performance of this control device.
The system is equipped with a thermocouple which prevents the dehydration system from operating if the flare pilot lights are not operating.