



April 30, 2015

**BY: U.S. CERTIFIED MAIL, RETURN RECEIPT REQUESTED**

7014 3490 0000 0448 3900

William F. Durham  
Director, Division of Air Quality  
WVDEP  
601 57<sup>th</sup> Street  
Charleston, WV 25304

**RE: Dominion Transmission, Inc. – Title V Renewal Application**  
**Jones Compressor Station – R30-02100002-2010**

Dear Mr. Durham:

Enclosed please find the Title V Renewal Application for Dominion Transmission, Inc.'s Jones Compressor Station, Permit No. R30-02100002-2010. The enclosure consists of one hard copy and two cd copies of the application that includes all attachments.

As part of the renewal application, the equipment list has been updated based on recent updates to the Jones Station:

- Storage tanks removed from the facility
  - TK03 - 5000 gallon horizontal above ground produced fluids storage tank
  - TK04 – 2730 gallon vertical above ground lube oil storage tank
  - TK05 – 4200 gallon vertical above ground lube oil storage tank
  - TK06 – 550 gallon horizontal above ground used oil storage tank
  
- New storage tanks added to the facility:
  - TK09 – 4000 gallon horizontal above ground produced fluids storage tank
  - TK10 – 6000 gallon vertical above ground lube oil storage tank
  - TK11 – 1000 gallon horizontal above ground used oil storage tank

If you require any additional information, please contact Rebekah Remick at (804) 273-3536 or via email at [Rebekah.J.Remick@dom.com](mailto:Rebekah.J.Remick@dom.com).

Sincerely,

A handwritten signature in blue ink that reads "Amanda B. Tornabene".

Amanda B. Tornabene  
Director, Gas Environmental Services

**JONES COMPRESSOR STATION  
DOMINION TRANSMISSION INC.  
APPLICATION FOR TITLE V OPERATING PERMIT RENEWAL  
TITLE V OPERATING PERMIT NO: R30-02100002-2010**

**Dominion Transmission, Inc.**  
Jones Compressor Station  
Route 33  
Lockney, WV 25267

**APRIL 2015**

**DOMINION TRANSMISSION, INC.  
JONES COMPRESSOR STATION**

**TITLE V PERMIT RENEWAL APPLICATION**

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**ATTACHMENTS**

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Attachment C: Process Flow Diagrams

Attachment D: Title V Equipment Table

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Attachment G: Air Pollution Control Device Form

Attachment H: Compliance Assurance Monitoring (CAM) Form

**\*\*Note:** There is no Attachment F for this permit application.

**TITLE V PERMIT APPLICATION CHECKLIST FOR ADMINISTRATIVE  
COMPLETENESS**

<b>Requirement</b>	<b>Application</b>
One signed copy of the application (per WVDEP email correspondence 4/16/15)	Enclosed – Section 2
Correct number of copies of the application on separate CDs or diskettes, (i.e. at least one disc per copy)	Enclosed – 2 CDs
*Table of Contents (needs to be included but not for administrative completeness)	Table of Contents
Facility Information	Section 1/Section 2
Description of process and products, including NAICS and SIC codes, and including alternative operating scenarios	Section 1 / Section 2: TV Renewal Application Form Section #14
Area map showing plant location	Attachment A
Plot plan showing buildings and process areas	Attachment B
Process flow diagram(s), showing all emission units, control equipment, emission points, and their relationships	Attachment C
Identification of all applicable requirements with a description of the compliance status, the methods used for demonstrating compliance, and a Schedule of Compliance Form (ATTACHMENT F) for all requirements for which the source is not in compliance	Not Applicable
Listing of all active permits and consent orders (if applicable)	Section 2: TV Renewal Application Form Section #21

Facility-wide emissions summary	Section 2: TV Renewal Application Form Section #23
Identification of Insignificant Activities	Section 2: TV Renewal Application Form Section #24
ATTACHMENT D – Title V Equipment Table completed for all emission units at the facility except those designated as insignificant activities	Attachment D
ATTACHMENT E – Emission Unit Form completed for each emission unit listed in the Title V Equipment Table (ATTACHMENT D) and a Schedule of Compliance Form (ATTACHMENT F) for all requirements for which the emission unit is not in compliance	Attachment E Attachment F not applicable
ATTACHMENT G – Air Pollution Control Device Form completed for each control device listed in the Title V Equipment Table (ATTACHMENT D)	Attachment G
ATTACHMENT H – Compliance Assurance Monitoring (CAM) Plan Form completed for each new control device for which the “Is the device subject to CAM?” question is answered “Yes” on the Air Pollution Control Device Form (ATTACHMENT G)	Attachment H
General Application Forms signed by a Responsible Official	Enclosed – Section 2
Confidential Information submitted in accordance with 45CSR31	Not Applicable

# **SECTION 1**

Introduction

## **INTRODUCTION:**

Jones Station is a natural gas compressor station used to compress gas for Dominion Transmission, Inc.'s transmission pipeline system in West Virginia. Jones Station is located in Lockney, WV.

Jones Station has the potential to emit in excess of 250 tons per year of nitrogen oxides (NOx) and is classified as a major stationary source 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. Jones Station is also an area source of hazardous air pollutants (HAPs) since the potential to emit is less than 10 tons per year for individual HAPs and less than 25 tons per year of combined HAPs.

Jones Station was originally issued a Title V Operating Permit (Permit No: R30-02100002-2006) in 2006 for a period of five (5) years, with an expiration date of May 24, 2011. Jones Station is also subject to the underlying State Operating Permit (Rule 13 Permit No: R13-2669). These permits are for the operation of two (2) 660-hp reciprocating engines (EN01 and EN02), one (1) 112.2-hp auxiliary engine (EG01), one (1) dehydration unit (D1), one (1) 0.30 MMBtu/hr natural gas fired reboiler (RB01), one (1) flare (F1), and seven (7) above ground storage tanks of various sizes (TK01, TK02, TK07 – TK11).

The last Title V renewal application was submitted in 2010, with the Title V Operating Permit Renewal being issued on November 3, 2010, with an expiration date of November 3, 2015.

## **PROCESS DESCRIPTION**

Jones Station is a compressor facility that services a natural gas pipeline system. The compressor engines (EN01 and EN02) at the facility receive natural gas flowing through a valve on the pipeline and recompresses that natural gas in order to further transport the natural gas through the pipeline system. Prior to exiting the facility through the pipeline, the compressed natural gas is processed by the dehydration unit (D1). The dehydration unit removes moisture and impurities from the gas stream.

The dehydration process begins with the compressed natural gas entering the unit and then being passed through a triethylene glycol dehydration system consisting of a contactor bed, a reboiler (RB01), and associated equipment. As a result of this process, the natural gas is stripped of moisture and impurities, along with a small amount of hydrocarbons. The wet gas enters the contactor where moisture and some hydrocarbons are absorbed into the lean glycol. The glycol, which has become rich with absorbed moisture and hydrocarbons, is regenerated in the still column (D1) using the heat generated from the natural gas-fired reboiler (RB01) to liberate the moisture and hydrocarbons, thereby, reducing overall emissions and odor. The compressed, dehydrated gas then enters the pipeline.

Listed below is a description of the equipment located at the Jones Station:

Two (2) Cooper GMXE-8 660 hp natural gas-fired reciprocating engines

- Emission unit ID: 001-01 and 001-02
- Emission point ID: EN01 and EN02

One (1) 112.2-hp Cummins 75GGHF auxiliary generator

- Emission unit ID: 002-01
- Emission point ID: EG01

One (1) 0.30 MMBtu/hr NATCO natural gas-fired dehydration unit reboiler

- Emission unit ID: D2
- Emission point ID: RB01

One (1) 7.0 MMcf/day dehydration unit/still column

- Emission unit ID: D1
- Emission point ID: D1

One (1) 4.0 MMBtu/hr dehydration unit controlled flare

- Emission unit ID: D1
- Emission point ID: F1

One (1) 1000 gallon horizontal aboveground ethylene glycol storage tank

- Emission unit ID: TK01
- Emission point ID: TK01

One (1) 1000 gallon horizontal aboveground triethylene glycol storage tank

- Emission unit ID: TK02
- Emission point ID: TK02

One (1) 500 gallon vertical aboveground wastewater storage tank

- Emission unit ID: TK07
- Emission point ID: TK07

One (1) 1000 gallon vertical aboveground used triethylene glycol storage tank

- Emission unit ID: TK08
- Emission point ID: TK08

One (1) 4000 gallon horizontal aboveground produced fluid storage tank

- Emission unit ID: TK09
- Emission point ID: TK09

One (1) 6000 gallon vertical aboveground lube oil storage tank

- Emission unit ID: TK10
- Emission point ID: TK10

One (1) 1000 gallon horizontal aboveground used oil storage tank

- Emission unit ID: TK11
- Emission point ID: TK11

**\*\*Note:** Updates to the storage tanks with this Title V renewal application are as follows:

Removed:

- TK03 - 5000 gallon horizontal above ground produced fluids storage tank
- TK04 – 2730 gallon vertical above ground lube oil storage tank
- TK05 – 4200 gallon vertical above ground lube oil storage tank
- TK06 – 550 gallon horizontal above ground used oil storage tank

Added:

- TK09 – 4000 gallon horizontal above ground produced fluids storage tank
- TK10 – 6000 gallon vertical above ground lube oil storage tank
- TK11 – 1000 gallon horizontal above ground used oil storage tank

## **SECTION 2**

Title V Renewal Permit Application -  
General Forms



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

601 57th 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

Form with 10 sections: 1. Name of Applicant, 2. Facility Name or Location, 3. DAQ Plant ID No., 4. Federal Employer ID No. (FEIN), 5. Permit Application Type, 6. Type of Business Entity, 7. Is the Applicant the, 8. Number of onsite employees, 9. Governmental Code, 10. Business Confidentiality Claims.

<b>11. Mailing Address</b>		
<b>Street or P.O. Box:</b> 445 West Main Street		
<b>City:</b> Clarksburg	<b>State:</b> WV	<b>Zip:</b> 26301
<b>Telephone Number:</b> (304) 627-3225	<b>Fax Number:</b> (304) 627-3222	

<b>12. Facility Location</b>		
<b>Street:</b> Route 33 HC 70 Box 21	<b>City:</b> Lockney	<b>County:</b> Gilmer
<b>UTM Easting:</b> 502.87 km	<b>UTM Northing:</b> 4300.26 km	<b>Zone:</b> <input checked="" type="checkbox"/> 17 or <input type="checkbox"/> 18
<b>Directions:</b> Take I-79 to Exit 79 Burnsville. Turn right on Route 5 West. Go approximately 15 miles to junction of Route 33/119 and turn left. Continue on Route 33.119 for approximately 14 miles; the station is on the left.		
<b>Portable Source?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
<b>Is facility located within a nonattainment area?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, for what air pollutants?</b>	
<b>Is facility located within 50 miles of another state?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, name the affected state(s).</b>	
<b>Is facility located within 100 km of a Class I Area<sup>1</sup>?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If yes, name the area(s).</b>	
<b>If no, do emissions impact a Class I Area<sup>1</sup>?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
<sup>1</sup> Class I areas include Dolly Sods and Otter Creek Wilderness Areas in West Virginia, and Shenandoah National Park and James River Face Wilderness Area in Virginia.		

<b>13. Contact Information</b>		
<b>Responsible Official:</b> Brian C. Sheppard		<b>Title:</b> Vice President, Pipeline Operations
<b>Street or P.O. Box:</b> 445 West Main Street		
<b>City:</b> Clarksburg	<b>State:</b> WV	<b>Zip:</b> 26301
<b>Telephone Number:</b> (304) 627-3733	<b>Fax Number:</b> (304) 627-3323	
<b>E-mail address:</b> Brian.C.Sheppard@dom.com		
<b>Environmental Contact:</b> Rebekah (Becky) Remick		<b>Title:</b> Environmental Specialist III
<b>Street or P.O. Box:</b> 5000 Dominion Blvd.		
<b>City:</b> Glen Allen	<b>State:</b> VA	<b>Zip:</b> 23060
<b>Telephone Number:</b> (804) 273-3536	<b>Fax Number:</b> (804) 273-2964	
<b>E-mail address:</b> Rebekah.J.Remick@dom.com		
<b>Application Preparer:</b> Rebekah (Becky) Remick		<b>Title:</b> Environmental Specialist III
<b>Company:</b> Dominion Resources, Inc.		
<b>Street or P.O. Box:</b> 5000 Dominion Blvd.		
<b>City:</b> Glen Allen	<b>State:</b> VA	<b>Zip:</b> 23060
<b>Telephone Number:</b> (804) 273-3536	<b>Fax Number:</b> (804) 273-2964	
<b>E-mail address:</b> Rebekah.J.Remick@dom.com		

**14. Facility Description**

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	48612	4922

**Provide a general description of operations.**

The Jones Station is a compressor facility that services a natural gas pipeline system. The compressor engines (EN01 and EN02) at the facility receive natural gas flowing through a valve on the pipeline and recompress the natural gas in order to further transport the natural gas through the pipeline system. Prior to exiting the facility through the pipeline, the compressed natural gas is processed by the dehydration unit. The dehydration unit removes moisture and impurities from the gas stream.

- 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**

<b>18. Applicable Requirements Summary</b>	
Instructions: Mark all applicable requirements.	
<input type="checkbox"/> SIP	<input type="checkbox"/> FIP
<input checked="" type="checkbox"/> Minor source NSR (45CSR13)	<input type="checkbox"/> PSD (45CSR14)
<input checked="" type="checkbox"/> NESHAP (45CSR34)	<input type="checkbox"/> Nonattainment NSR (45CSR19)
<input checked="" type="checkbox"/> Section 111 NSPS	<input type="checkbox"/> Section 112(d) MACT standards
<input type="checkbox"/> Section 112(g) Case-by-case MACT	<input type="checkbox"/> 112(r) RMP
<input type="checkbox"/> Section 112(i) Early reduction of HAP	<input type="checkbox"/> Consumer/commercial prod. reqts., section 183(e)
<input type="checkbox"/> Section 129 Standards/Reqts.	<input type="checkbox"/> Stratospheric ozone (Title VI)
<input type="checkbox"/> Tank vessel reqt., section 183(f)	<input type="checkbox"/> Emissions cap 45CSR§30-2.6.1
<input type="checkbox"/> NAAQS, increments or visibility (temp. sources)	<input type="checkbox"/> 45CSR27 State enforceable only rule
<input checked="" type="checkbox"/> 45CSR4 State enforceable only rule	<input type="checkbox"/> Acid Rain (Title IV, 45CSR33)
<input type="checkbox"/> Emissions Trading and Banking (45CSR28)	<input checked="" type="checkbox"/> Compliance Assurance Monitoring (40CFR64)
<input type="checkbox"/> CAIR NO <sub>x</sub> Annual Trading Program (45CSR39)	<input type="checkbox"/> CAIR NO <sub>x</sub> Ozone Season Trading Program (45CSR40)
<input type="checkbox"/> CAIR SO <sub>2</sub> Trading Program (45CSR41)	

<b>19. Non Applicability Determinations</b>
<p><b>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.</b></p> <p>45 CSR 10 – Compressor engines (EN01 and EN02) have been excluded from the applicability of SO2 and H2S limits. WVDEP determined that 45 CSR 10 is not applicable to compressor engines.</p> <p>40 CFR Subpart JJJJ – The compressor engines (EN01 and EN02) are not subject to this subpart since they were installed in 1965, before the applicability date.</p> <p>40 CFR 60 Subpart OOOO – This subpart does not apply to the facility since the facility is a gathering facility that has tanks constructed, modified, or reconstructed after August 23, 2011 that are below 6 tons VOC/yr.</p> <p>40 CFR 63 Subpart HHH – This subpart does not apply to the facility since the facility is not a transmission or storage station and is not a major source of HAPs.</p> <p>40 CFR 63 Subpart DDDDD – The reboiler (RB01) is not subject to this subpart since it is exempt by §63.7491(h) and facility is not major source of HAPs.</p> <p>40 CFR 63 Subpart JJJJJ – The reboiler (RB01) is not applicable to this subpart since it is considered a “process heater,” which is excluded from the definition of “boiler”.</p>
<input type="checkbox"/> 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; R13-2669B 3.1.1)
- 45 CSR 6-3.2 – Open Burning exemption (TV 3.1.2; R13-2669B 3.1.2)
- 40 CFR Part 61 – Asbestos inspection and removal (TV 3.1.3; R13-2669B 3.1.3)
- 45 CSR 15 – Asbestos inspection and removal (TV 3.1.3; R13-2669B 3.1.3)
- 45 CSR 4 – No Objectionable odors (TV 3.1.4; R13-2669B 3.1.4)
- 45 CSR 11-5.2 – Standby plans for emergency episodes (TV 3.1.5)
- WV Code 22-5-4 (a) (14) – The Secretary can request any pertinent information such as annual emission inventory reporting (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 CR 10-4.1 – Emission of Sulfur Oxides (TV 3.1.9)
- 45 CF 10-5.1 – Emission of Hydrogen Sulfides (TV 3.1.10)
- 45 CSR 17-3.1 – Fugitive Particulate Matter (TV 3.1.11)
- 45 CSR 13 – Operating Permit requirements (TV 3.1.12, R13-2669B 4.1.2)
- 45 CSR 30-5.1(c) – Visible Emission checks (TV 3.2.1)
- 45 CSR 30-5.1(c) – Annual sulfur analysis of inlet gas stream (TV 3.2.2)
- 45 CSR 30-5.1(c) – Annual H<sub>2</sub>S analysis of inlet gas stream (TV 3.2.3)
- 45 CSR 13 – Emission limit averaging time (TV 3.2.4; R13-2669B 3.2.1)
- 45 CSR 30-5.1(c)(3)(a) – The permittee shall submit semi-annual monitoring reports (TV 3.5.6)
- 45 CSR 13 – Testing requirements (TV 3.3.1; WV Code 22-5-4 (a)(15))
- 45 CSR 30-5.1(c)(2)(A) – Recordkeeping requirements (TV 3.4.1; R13-2669 4.1.1)
- 45 CSR 30-5.1(c)(2)(B) – Recordkeeping requirements (TV 3.4.2)
- 45 CSR 30-5.1(c) – Recordkeeping requirements (TV 3.4.3; R13-2669B 3.4.2)
- 45 CSR 13 – Recordkeeping requirements (TV 3.4.3; R13-2669B 3.4.2)
- 45 CSR 30-5.1(c)(3)(D) – Recordkeeping requirements (TV 3.5.1)
- 45 CSR 30-5.1(c)(3)(E) – Recordkeeping requirements (TV 3.5.2)
- 45 CSR 30-8 – Recordkeeping requirements (TV 3.5.4)
- 45 CSR 30-5.3(e) – Recordkeeping requirements (TV 3.5.5)
- 45 CSR 30-5.1(c)(3)(A) – Recordkeeping requirements (TV 3.5.6)
- 45 CSR 30-5.1(c)(3)(C) – Recordkeeping requirements (TV 3.5.8)
- 45 CSR 30-5.1(c)(3)(B) – Recordkeeping requirements (TV 3.5.8)
- 45 CSR 30-4.3(h)(1)(B) – Recordkeeping requirements (TV 3.5.9)
- 40 CFR Subpart JJJJ – Engine NSPS (TV 7.1.3; R13-2669 7.1.3)
- 40 CFR Subpart HH – Dehydration Unit NESHAP (TV 5.1.11)
- 40 CFR 63 Subpart ZZZZ – RICE NESHAP (TV 6.1.2 and 7.1.6; R13-2669B)

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 (TV 3.1.1)

45 CSR 6-3.2 – The permittee shall prohibit open burning (TV 3.1.2)

40 CFR Part 61 – Prior to demolition/construction, buildings will be inspected for asbestos (TV 3.1.3)

45 CSR 15 – Prior to demolition//construction, buildings will be inspected for asbestos (TV 3.1.3)

45 CSR 4 – Permittee shall maintain records of all odor complaints received (TV 3.1.4)

45 CSR 11 – Upon request by the Secretary, the permittee shall prepare a standby plan (TV 3.1.5)

WV 22-5-4 – The permittee shall submit semi-annual emission inventory reports (TV 3.1.6)

40 CFR Part 82 Subpart F – The permittee will prohibit maintenance, service, or repair of appliances containing ozone depleting substances (TV 3.1.7)

40 CFR Part 68 – Should the permittee become subject to 40 CFR Part 68, a RMP shall be submitted (TV 3.1.8)

45 CR 10-4.1(c) – Emission of Sulfur Oxides shall be limited by burning only pipeline quality natural gas (TV 3.1.9)

45 CR 10-5.1(c) – Emission of Hydrogen Sulfides shall be limited by burning only pipeline natural gas (TV 3.1.10)

45 CSR 17 – The permittee will limit fugitive emissions from the facility (TV 3.1.11)

45 CSR 13 – HAP Emissions from the facility shall be limited by burning pipeline quality natural gas and by use of the dehydration unit flare (TV 3.1.12, R13-2669B 4.1.2)

45 CSR 13 – O&M will be performed on the air pollution emitting equipment at the facility (R13-2669B 4.1.3 )

45 CSR 30 – The permittee shall conduct and maintain records of monthly visible emission checks on the flare (TV 3.2.1)

45 CSR 30-5.1(c) – Semi-Annual inlet gas stream shall be sampled for total sulfur (TV 3.2.2)

45 CSR 30-5.1(c) – Semi-Annual inlet gas steam shall be sampled for H<sub>2</sub>S (TV 3.2.3)

45 CSR 13 – The permittee shall maintain records of compliance tests for a duration of five (5) years (TV 3.4.2)

45 CSR 30-5.1(c) – The permittee shall maintain records of maintenance, complaints, monitoring, and malfunctions (TV 3.4)

45 CSR 30-5.1(c) – The permittee shall certify and submit monitoring reports, compliance reports, and emissions statements as specified (TV 3.5)

40 CFR 60 Subpart JJJJ – For the Auxiliary Generator only: The permittee shall comply with all applicable requirements for a new, emergency, spark ignition engine.

40 CFR 63 Subpart HH – The permittee shall comply with all applicable requirements while taking the benzene exemption.

40 CFR 63 Subpart ZZZZ – For the Auxiliary Generator only: The permittee shall comply with all applicable requirements for a new, emergency, spark ignition engine at an area source.

**Are you in compliance with all facility-wide applicable requirements?**  Yes  No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

<b>21. Active Permits/Consent Orders</b>		
Permit or Consent Order Number	Date of Issuance MM/DD/YYYY	List any Permit Determinations that Affect the Permit <i>(if any)</i>
R13-2669B	09/10/2012	N/A

<b>22. Inactive Permits/Obsolete Permit Conditions</b>		
Permit Number	Date of Issuance	Permit Condition Number

**Section 3: Facility-Wide Emissions**

<b>23. Facility-Wide Emissions Summary [Tons per Year]</b>	
Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	42.36
Nitrogen Oxides (NO <sub>x</sub> )	259.08
Lead (Pb)	N/A
Particulate Matter (PM <sub>2.5</sub> ) <sup>1</sup>	0.02
Particulate Matter (PM <sub>10</sub> ) <sup>1</sup>	0.50
Total Particulate Matter (TSP)	0.50
Sulfur Dioxide (SO <sub>2</sub> )	0.03
Volatile Organic Compounds (VOC)	63.61
Hazardous Air Pollutants <sup>2</sup>	Potential Emissions
Acetaldehyde	0.37
Acrolein	0.37
Benzene	0.25
Ethylbenzene	0.48
Formaldehyde	1.78
Hexane	0.24
Toluene	0.71
Xylene	1.69
Regulated Pollutants other than Criteria and HAP	Potential Emissions

Greenhouse Gases (GHGs)	Potential Emissions
Carbon Dioxide (CO <sub>2</sub> )	5,864
Nitrous Oxide (N <sub>2</sub> O)	0.01
Methane (CH <sub>4</sub> )	293
Hydrofluorocarbons (HFCs)	N/A
Perfluorocarbons (PFCs)	N/A
Sulfur hexafluoride (SF <sub>6</sub> )	N/A
CO <sub>2</sub> equivalent (CO <sub>2</sub> e)	13,204
<sup>1</sup> PM <sub>2.5</sub> and PM <sub>10</sub> are components of TSP. <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**

<b>24. Insignificant Activities (Check all that apply)</b>	
<input checked="" type="checkbox"/>	1. Air compressors and pneumatically operated equipment, including hand tools.
<input type="checkbox"/>	2. Air contaminant detectors or recorders, combustion controllers or shutoffs.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	4. Bathroom/toilet vent emissions.
<input type="checkbox"/>	5. Batteries and battery charging stations, except at battery manufacturing plants.
<input type="checkbox"/>	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.
<input type="checkbox"/>	7. Blacksmith forges.
<input type="checkbox"/>	8. Boiler water treatment operations, not including cooling towers.
<input type="checkbox"/>	9. Brazing, soldering or welding equipment used as an auxiliary to the principal equipment at the source.
<input type="checkbox"/>	10. CO <sub>2</sub> lasers, used only on metals and other materials which do not emit HAP in the process.
<input type="checkbox"/>	11. Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.
<input type="checkbox"/>	12. Combustion units designed and used exclusively for comfort heating that use liquid petroleum gas or natural gas as fuel.
<input checked="" type="checkbox"/>	13. Comfort air conditioning or ventilation systems not used to remove air contaminants generated by or released from specific units of equipment.
<input type="checkbox"/>	14. Demineralized water tanks and demineralizer vents.
<input type="checkbox"/>	15. Drop hammers or hydraulic presses for forging or metalworking.
<input type="checkbox"/>	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.
<input type="checkbox"/>	17. Emergency (backup) electrical generators at residential locations.
<input type="checkbox"/>	18. Emergency road flares.
<input type="checkbox"/>	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:  _____  _____  _____  _____  _____  _____  _____  _____

<b>24. Insignificant Activities (Check all that apply)</b>	
<input type="checkbox"/>	<p>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.</p> <p>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:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
<input type="checkbox"/>	21. Environmental chambers not using hazardous air pollutant (HAP) gases.
<input type="checkbox"/>	22. Equipment on the premises of industrial and manufacturing operations used solely for the purpose of preparing food for human consumption.
<input type="checkbox"/>	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.
<input type="checkbox"/>	24. Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.
<input type="checkbox"/>	25. Equipment used for surface coating, painting, dipping or spray operations, except those that will emit VOC or HAP.
<input type="checkbox"/>	26. Fire suppression systems.
<input type="checkbox"/>	27. Firefighting equipment and the equipment used to train firefighters.
<input type="checkbox"/>	28. Flares used solely to indicate danger to the public.
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	30. Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation.
<input checked="" type="checkbox"/>	31. Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic.
<input type="checkbox"/>	32. Humidity chambers.
<input type="checkbox"/>	33. Hydraulic and hydrostatic testing equipment.
<input type="checkbox"/>	34. Indoor or outdoor kerosene heaters.
<input checked="" type="checkbox"/>	35. Internal combustion engines used for landscaping purposes.
<input type="checkbox"/>	36. Laser trimmers using dust collection to prevent fugitive emissions.
<input type="checkbox"/>	37. Laundry activities, except for dry-cleaning and steam boilers.
<input type="checkbox"/>	38. Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.
<input type="checkbox"/>	39. Oxygen scavenging (de-aeration) of water.
<input type="checkbox"/>	40. Ozone generators.
<input checked="" type="checkbox"/>	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

<b>24. Insignificant Activities (Check all that apply)</b>	
	owners/operators must still get a permit if otherwise requested.)
<input type="checkbox"/>	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.
<input type="checkbox"/>	43. Process water filtration systems and demineralizers.
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	45. Repairs or maintenance where no structural repairs are made and where no new air pollutant emitting facilities are installed or modified.
<input type="checkbox"/>	46. Routing calibration and maintenance of laboratory equipment or other analytical instruments.
<input type="checkbox"/>	47. Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants. Shock chambers.
<input type="checkbox"/>	48. Shock chambers.
<input type="checkbox"/>	49. Solar simulators.
<input type="checkbox"/>	50. Space heaters operating by direct heat transfer.
<input type="checkbox"/>	51. Steam cleaning operations.
<input type="checkbox"/>	52. Steam leaks.
<input type="checkbox"/>	53. Steam sterilizers.
<input type="checkbox"/>	54. Steam vents and safety relief valves.
<input type="checkbox"/>	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.
<input type="checkbox"/>	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.
<input type="checkbox"/>	57. Such other sources or activities as the Director may determine.
<input type="checkbox"/>	58. Tobacco smoking rooms and areas.
<input type="checkbox"/>	59. Vents from continuous emissions monitors and other analyzers.

*Section 5: Emission Units, Control Devices, and Emission Points*

<b>25. Equipment Table</b>
Fill out the <b>Title V Equipment Table</b> and provide it as <b>ATTACHMENT D</b> .
<b>26. Emission Units</b>
For each emission unit listed in the <b>Title V Equipment Table</b> , fill out and provide an <b>Emission Unit Form</b> as <b>ATTACHMENT E</b> .
For each emission unit not in compliance with an applicable requirement, fill out a <b>Schedule of Compliance Form</b> as <b>ATTACHMENT F</b> .
<b>27. Control Devices</b>
For each control device listed in the <b>Title V Equipment Table</b> , fill out and provide an <b>Air Pollution Control Device Form</b> as <b>ATTACHMENT G</b> .
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 <b>Compliance Assurance Monitoring (CAM) Form(s)</b> for CAM applicability. Fill out and provide these forms, if applicable, for each Pollutant Specific Emission Unit (PSEU) as <b>ATTACHMENT H</b> .

**Section 6: Certification of Information**

**28. Certification of Truth, Accuracy and Completeness and Certification of Compliance**

*Note: 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. Certification of Truth, Accuracy and Completeness**

I certify that I am a responsible official (as defined at 45CSR§30-2.38) and am accordingly authorized to make this submission on behalf of the owners or operators of the source described in this document and its attachments. I certify under penalty of law that I have personally examined and am familiar with the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine and/or imprisonment.

**b. Compliance 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.

**Responsible official (type or print)**

Name: Brian C. Sheppard

Title: Vice President, Pipeline Operations

**Responsible official's signature:**

Signature:  Signature Date: 04-21-15  
 (Must be signed and dated in blue ink)

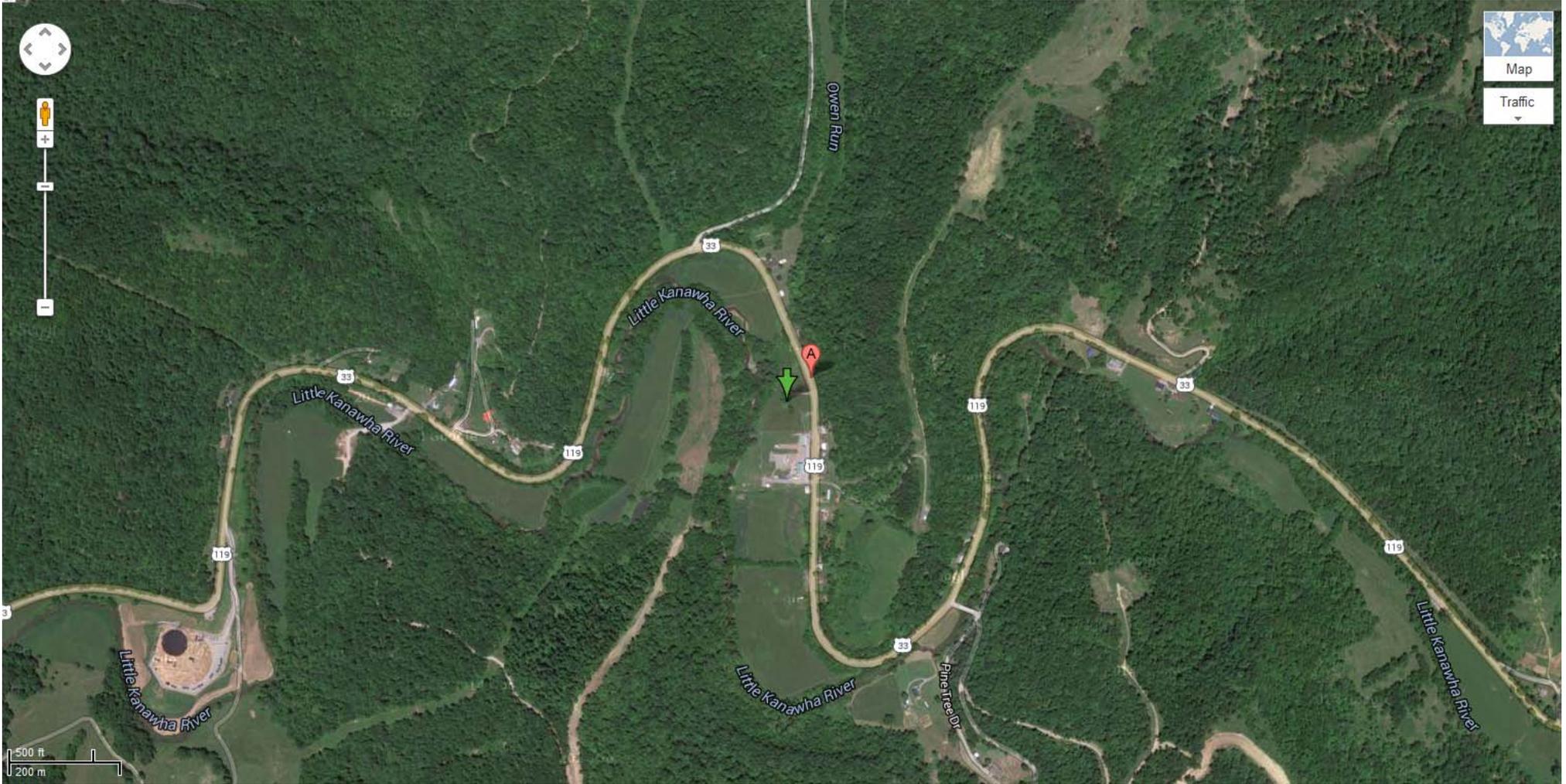
**Note: Please check all applicable attachments included with this permit application:**

<input checked="" type="checkbox"/>	ATTACHMENT A: Area Map
<input checked="" type="checkbox"/>	ATTACHMENT B: Plot Plan(s)
<input checked="" type="checkbox"/>	ATTACHMENT C: Process Flow Diagram(s)
<input checked="" type="checkbox"/>	ATTACHMENT D: Equipment Table
<input checked="" type="checkbox"/>	ATTACHMENT E: Emission Unit Form(s)
<input type="checkbox"/>	ATTACHMENT F: Schedule of Compliance Form(s)
<input checked="" type="checkbox"/>	ATTACHMENT G: Air Pollution Control Device Form(s)
<input checked="" type="checkbox"/>	ATTACHMENT H: Compliance Assurance Monitoring (CAM) Form(s)

**All of the required forms and additional information can be found and downloaded from, the DEP website at [www.dep.wv.gov/daq](http://www.dep.wv.gov/daq), requested by phone (304) 926-0475, and/or obtained through the mail.**

## **Attachment A**

Area Map



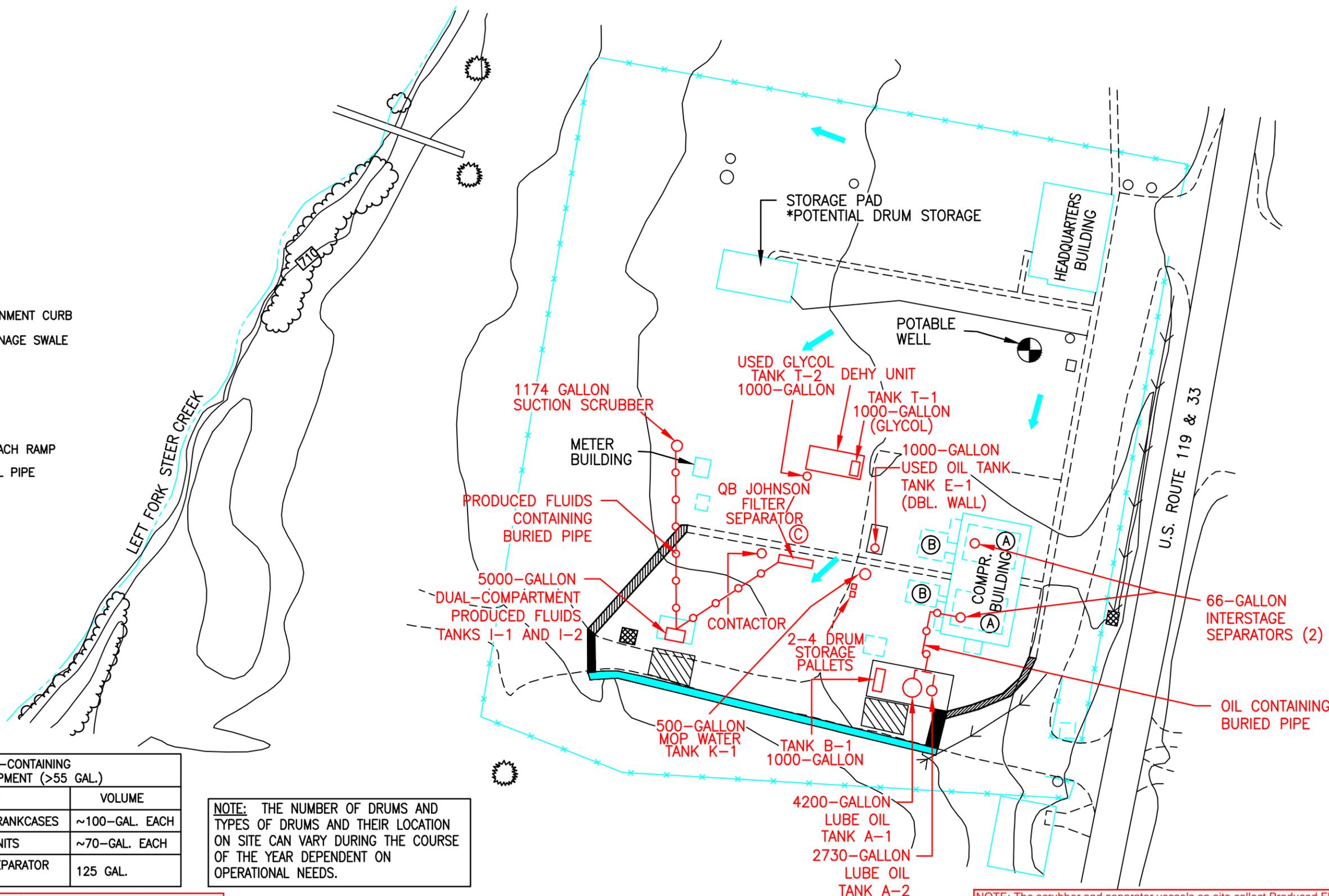
## **Attachment B**

Plot Plan



**LEGEND:**

- CONCRETE CONTAINMENT CURB
- ROCK-LINED DRAINAGE SWALE
- FLOW DIRECTION
- TRUCK LOADING/ UNLOADING AREA
- EARTHEN BERM
- CATCH BASIN
- CONCRETE APPROACH RAMP
- UNDERGROUND OIL PIPE



MAJOR OIL-CONTAINING MECHANICAL EQUIPMENT (>55 GAL.)		
ITEM	DESCRIPTION	VOLUME
A	COOPER BESSEMER CRANKCASES	~100-GAL. EACH
B	HYDRAULIC COOLER UNITS	~70-GAL. EACH
C	HORIZONTAL FILTER SEPARATOR QB JOHNSON	125 GAL.

**NOTE:** THE NUMBER OF DRUMS AND TYPES OF DRUMS AND THEIR LOCATION ON SITE CAN VARY DURING THE COURSE OF THE YEAR DEPENDENT ON OPERATIONAL NEEDS.

**NOTE:** Drum Vacuum unit used inside Compressor Building, location can vary,

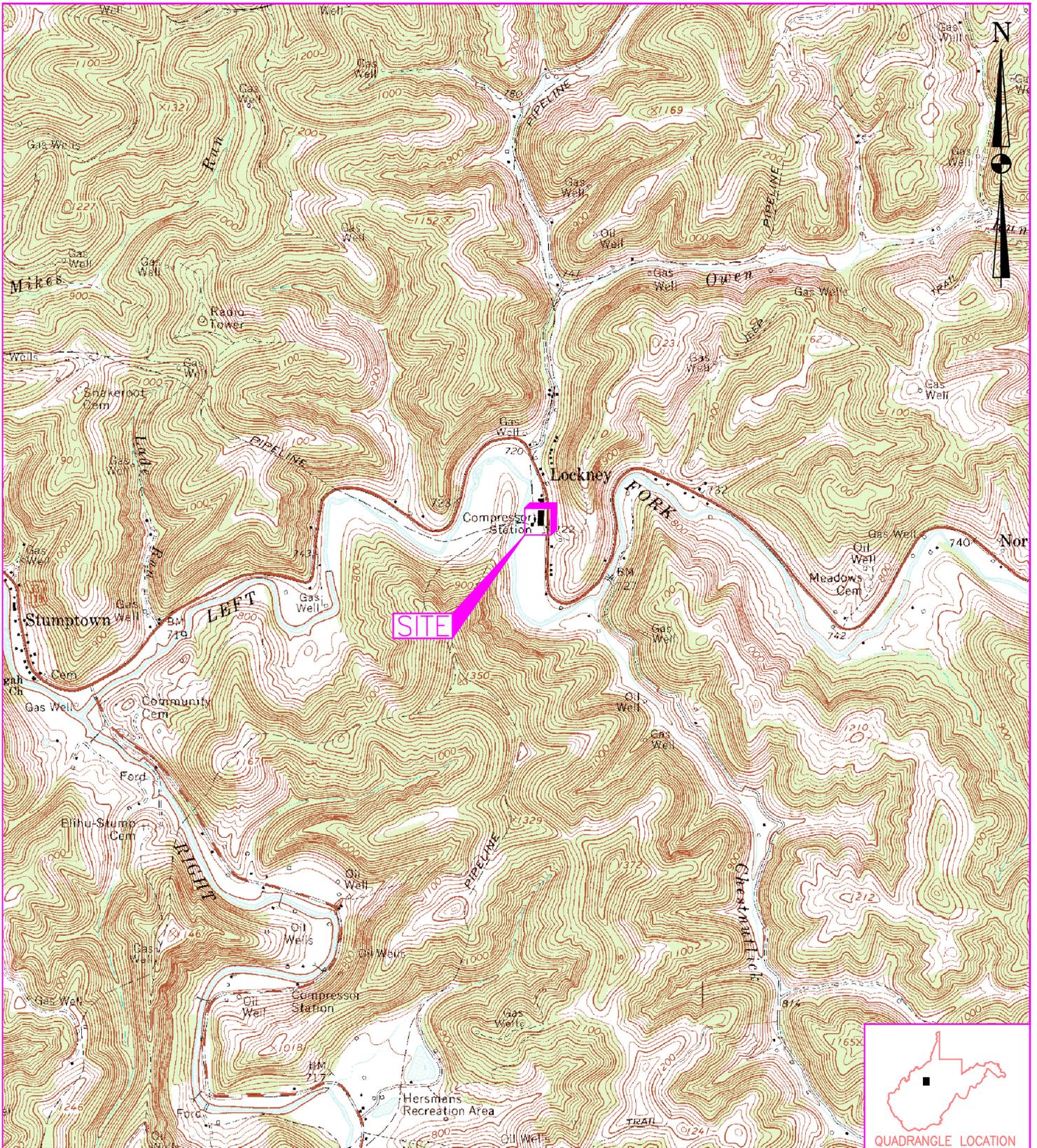
**NOTE:** The scrubber and separator vessels on site collect Produced Fluids.

SYM.	DATE	BY	REVISION DESCRIPTION	PRJ/TSK	APP.	SCALE	DATE
						1"=50'	
						DRAWN	SAR 9/25/07
						CHECKED	
3	02/12/2014	TBB	TIM JACKSON MARK UPS				
2	04/25/2013	TBB	TIM JACKSON MARK UPS				
1	02/10/2010	JDB	RUSS EVANS MARK UPS				

**Dominion Transmission, Inc.**  
445 West Main St. Clarksburg, West Virginia 26301 / Phone: (304) 623-8000

**TITLE: JONES COMPRESSOR STATION  
GILMER COUNTY, WEST VIRGINIA  
ENVIRONMENTAL SITE PLAN**

DIR:	GROUP	DWG. NO.	REV.
FILE:	PRJ/TSK:	PD X9776	3



REFERENCE: USGS 7.5' QUADRANGLE MAP OF: NORMANTOWN, WEST VIRGINIA; DATED 1966; PHOTOINSPECTED 1966.

DRAWN BY	DJF
DATE	
CHECKED BY	
SET JOB NO.	202059-05
SET DWG FILE	JONESm01.dwg
DRAWING SCALE	1"=2000'



98 Vanadium Road Bridgeville, PA 15017 (412) 221-1100

**DOMINION TRANSMISSION**  
 JONES COMPRESSOR STATION  
 CENTER DISTRICT, GILMER COUNTY, WEST VIRGINIA  
 SITE PLAN

DRAWING NO.	FIGURE 1	REV.	0
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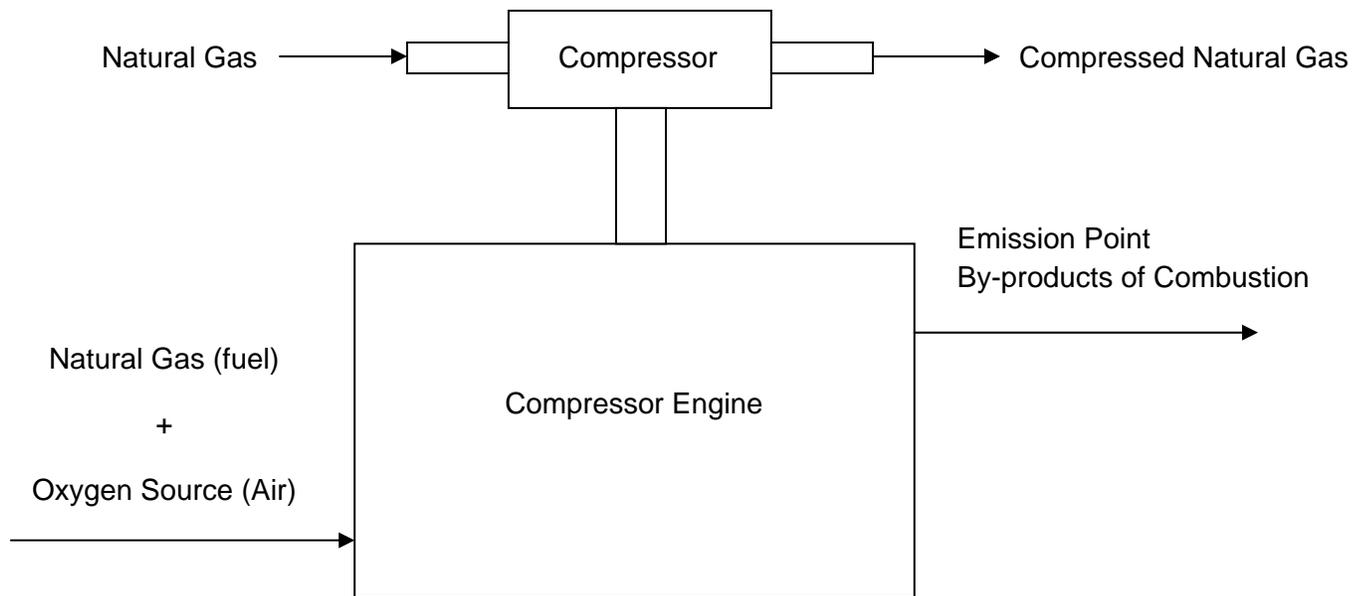
## **Attachment C**

### Process Flow Diagrams

**Dominion Transmission, Inc.**

**Jones Compressor Station**

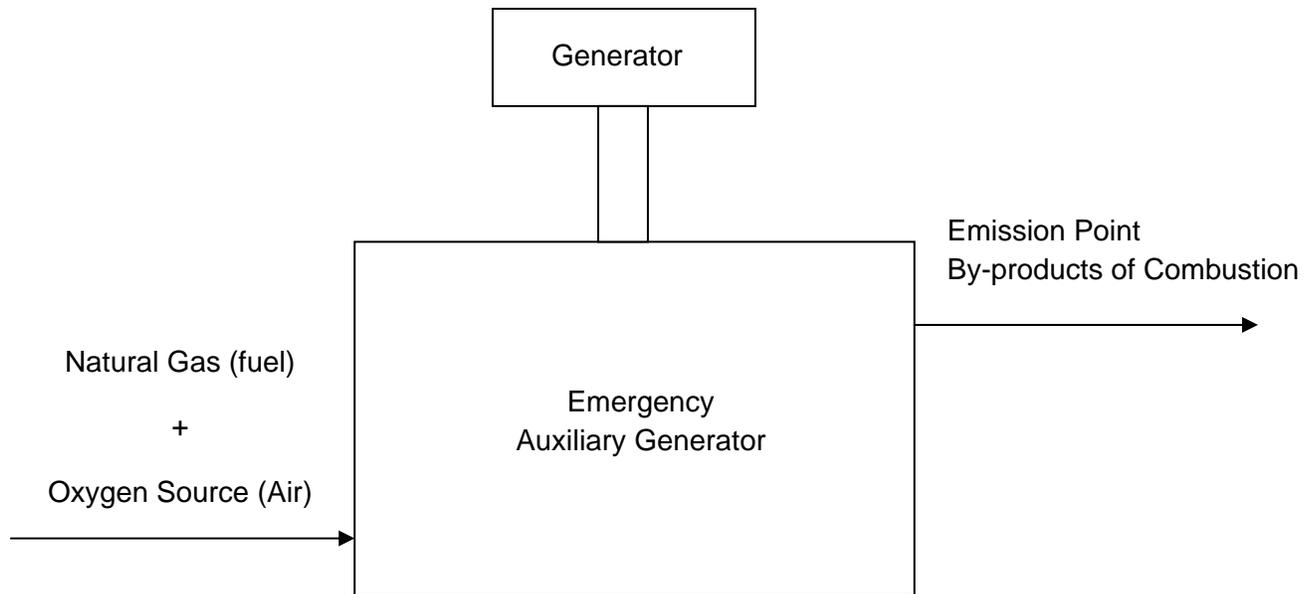
**Compressor Turbine Engine (EN01 and EN02) Process Flow Diagram**



**Dominion Transmission, Inc.**

**Jones Compressor Station**

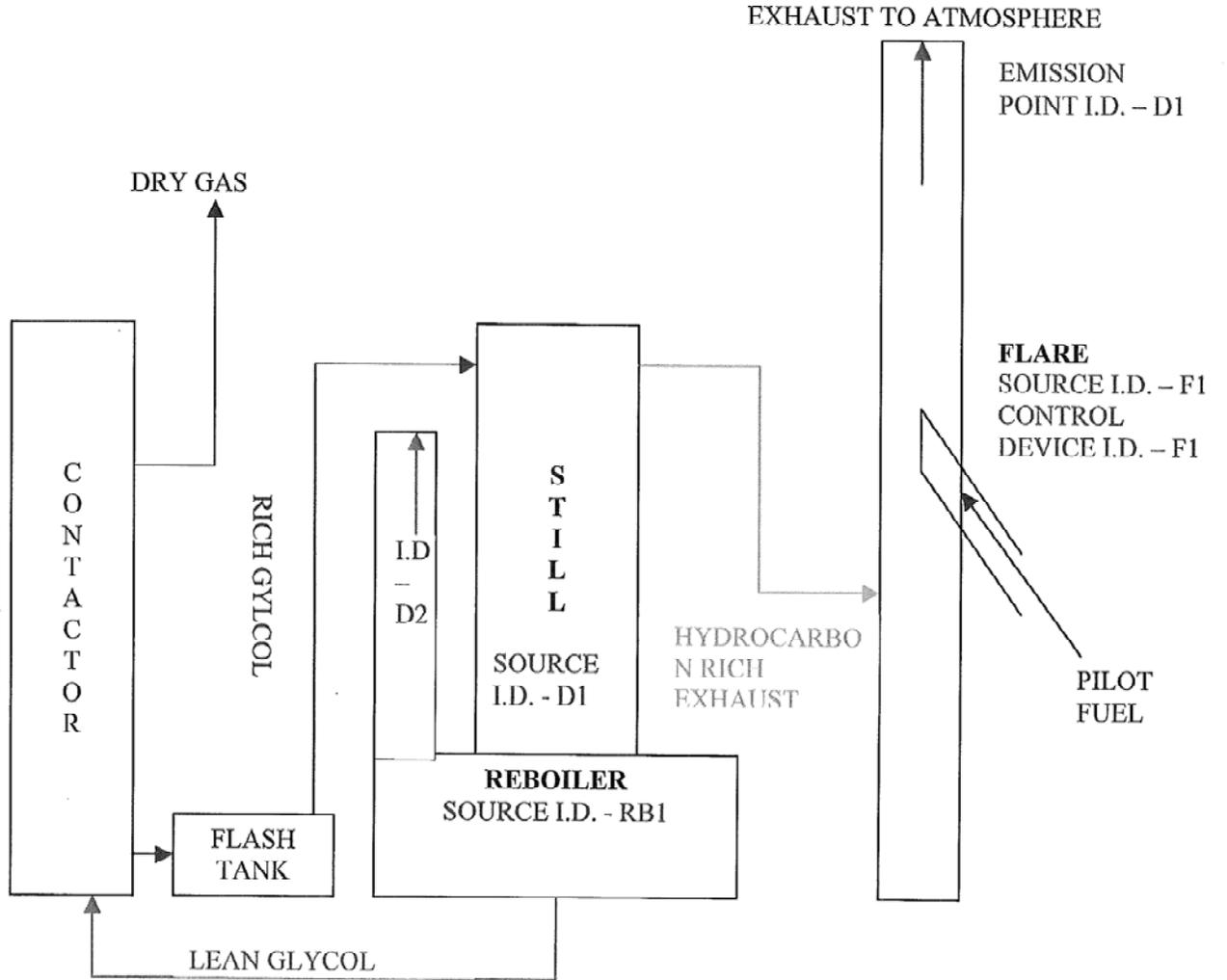
**Emergency Auxiliary Generator (EG01) Process Flow Diagram**



**Dominion Transmission, Inc.**

**Jones Compressor Station**

**Dehydration Unit (F1, D1, and RB01) Process Flow Diagram**



**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	001-01	Reciprocating Engine/Integral Compressor; Cooper GMXE-8	660 hp	1965
EN02	N/A	001-02	Reciprocating Engine/Integral Compressor; Cooper GMXE-8	660 hp	1965
EG01	N/A	002-01	4-Stroke, Rich-Burn Natural Gas-Fired Cummins 75GGHF Auxiliary Generator	112.2 hp	2012
D1	N/A	F1	Dehydration Unit Flare – 95% Control Efficiency	4.0 MMBtu/hr	2006
D1	F1	D1	Dehydration Unit Still Column	7 MMcf/day	2006
D2	N/A	RB01	Dehydration Unit Reboiler	0.3 MMBtu/hr	2006
TK01	N/A	TK01	Horizontal Above Ground Ethylene Glycol Storage Tank	1000 gallons	1980
TK02	N/A	TK02	Horizontal Above Ground Tri-Ethylene Glycol Storage Tank	1000 gallons	1988
TK07	N/A	TK07	Vertical Above Ground Wastewater Storage Tank	500 gallons	2003
TK08	N/A	TK08	Vertical Above Ground Used Triethylene Glycol Tank	1000 gallons	2011
New units (updates) to equipment list:					
TK09	N/A	TK09	Horizontal Above Ground Produced Fluids Storage Tank	4000 gallons	2015
TK10	N/A	TK10	Vertical Above Ground Lube Oil Storage Tank	6000 gallons	2015
TK11	N/A	TK11	Horizontal Above Ground Used Oil Storage Tank	1000 gallons	2013
Units that have been removed:					
TK03	N/A	TK03	Horizontal Above Ground Produced Fluids Storage Tank	5000 gallons	2003
TK04	N/A	TK04	Vertical Above Ground Lube Oil Storage Tank	2730 gallons	1965
TK05	N/A	TK05	Vertical Above Ground Lube Oil Storage Tank	4200 gallons	1965
TK06	N/A	TK06	Horizontal Above Ground Used Oil Storage Tank	550 gallons	2003
<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***

<b>Emission unit ID number:</b> 002-01	<b>Emission unit name:</b> 4-stroke, rich burn natural gas fired auxiliary generator	<b>List any control devices associated with this emission unit:</b> N/A
---	---	--

**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Natural gas-fired emergency auxiliary generator

<b>Manufacturer:</b> GenSet: Cummins Engine: Onan	<b>Model number:</b> GenSet: 75GGHF-1207723 Engine: WSG-1068	<b>Serial number:</b> GenSet: F120356937 Engine: E172A 0105121220259
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<b>Construction date:</b> 5/2012	<b>Installation date:</b> 3/2013	<b>Modification date(s):</b> N/A
-------------------------------------	-------------------------------------	-------------------------------------

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):**

112.2 hp

<b>Maximum Hourly Throughput:</b> 987 scf/hr	<b>Maximum Annual Throughput:</b> 0.49 MMscf/yr	<b>Maximum Operating Schedule:</b> 500 hrs/yr
---	--	--

***Fuel Usage Data (fill out all applicable fields)***

<b>Does this emission unit combust fuel?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> Direct Fired
--	---

<b>Maximum design heat input and/or maximum horsepower rating:</b> 112.2 hp	<b>Type and Btu/hr rating of burners:</b> 0.99 MMBtu/hr
--	--

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

- Natural gas
- Maximum hourly fuel usage = 987 scf/hr
  - Maximum annual fuel usage = 0.49 MMscf/yr

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural gas	20 gr sulfur/100 cf	N/A	1,000 Btu/cf

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	11.47	2.87
Nitrogen Oxides (NO <sub>x</sub> )	1.53	0.38
Lead (Pb)	0.00	0.00
Particulate Matter (PM <sub>2.5</sub> )	0.01	0.00
Particulate Matter (PM <sub>10</sub> )	0.01	0.00
Total Particulate Matter (TSP)	0.01	0.00
Sulfur Dioxide (SO <sub>2</sub> )	0.00	0.00
Volatile Organic Compounds (VOC)	0.30	0.07
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.00	0.00
Acrolein	0.00	0.00
Benzene	0.00	0.00
Ethylbenzene	0.00	0.00
Formaldehyde	0.02	0.01
Toluene	0.00	0.00
Xylene	0.00	0.00
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <ul style="list-style-type: none"> <li>- CO, NO<sub>x</sub>, and VOC emission rates were based on manufacturer's technical data sheet.</li> <li>- All other emission rates were based off of USEPA's AP-42, Section 3.2, Natural Gas-Fired Reciprocating Engines, 7/00</li> </ul>		

**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 13 – Hours of operation (TV 7.1.1; R13-2669B 7.1.1)
- 45 CSR 13 – Emission limits (TV 7.1.2; R13-2669B 7.1.2)
- 40 CFR Part 60 Subpart JJJJ – NSPS emission limits (TV 7.1.3; R13-2669B 7.1.3)
- 40 CFR Part 60 Subpart JJJJ – NSPS emergency definition (TV 7.1.4; R13-2669B 7.1.4)
- 40 CFR Part 60 Subpart JJJJ – NSPS general provisions (TV 7.1.5)
- 40 CFR Part 63 Subpart ZZZZ – RICE NESHAP as a new, emergency, spark ignition engine at an area source (TV 7.1.6)

\_\_\_\_ 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.)

- 45 CSR 13 – Maintain monthly and rolling 12-month records of the hours of operation (TV 7.2.1; R13-2669B 7.2.1)
- 45 CSR 13 – Testing to demonstrate compliance with 7.1.2 upon Director request (TV 7.3.1; R13-2669B 7.3.1)
- 40 CFR Part 60 Subpart JJJJ – Purchase a certified engine to meet NSPS emission limits (TV 7.2.2; R13-2669B 7.2.2)
- 40 CFR Part 60 Subpart JJJJ – Install non-resettable hour meter to demonstrate compliance with 7.1.4 (TV 7.2.2 and 7.2.4; R13-2669B 7.2.2)
- 40 CFR Part 60 Subpart JJJJ – Comply with all applicable monitoring, compliance demonstration, and recordkeeping requirements (TV 7.2.3, 7.4.1, and 7.4.2; R13-2669B 7.2.3 and 7.4.1)
- 40 CFR Part 60 Subpart JJJJ – Comply with all applicable testing requirements (TV 7.3.2; R13-2669B 7.3.2)
- 40 CFR Part 60 Subpart JJJJ – Comply with all applicable reporting requirements (TV 7.4.2 and 7.5.1; R13-2669B 7.5.1)
- 40 CFR Part 63 Subpart ZZZZ – Compliance with NSPS Subpart JJJJ shows compliance with NESHAP Subpart ZZZZ (TV 7.1.6)

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

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## ATTACHMENT E - Emission Unit Form

***Emission Unit Description***

<b>Emission unit ID number:</b> D1	<b>Emission unit name:</b> Dehydration Unit	<b>List any control devices associated with this emission unit:</b> N/A
---------------------------------------	--	--

**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Dehydration unit still column

<b>Manufacturer:</b> NATCO	<b>Model number:</b>	<b>Serial number:</b>
<b>Construction date:</b>	<b>Installation date:</b> 2006	<b>Modification date(s):</b> N/A

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):**

7 MMscf/day

<b>Maximum Hourly Throughput:</b> 7 MMscf/day	<b>Maximum Annual Throughput:</b> 2,555 MMscf/yr	<b>Maximum Operating Schedule:</b> 8760 hrs/yr
--	---	---

***Fuel Usage Data (fill out all applicable fields)***

<b>Does this emission unit combust fuel?</b> ___ Yes <input checked="" type="checkbox"/> No	<b>If yes, is it?</b> ___ Indirect Fired ___ Direct Fired
---	--

<b>Maximum design heat input and/or maximum horsepower rating:</b>	<b>Type and Btu/hr rating of burners:</b>
--	---

**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

- Natural gas
- Maximum hourly wet gas usage = 7 MMscf/day
  - Maximum annual wet gas usage = 2,555 MMscf/yr

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural gas	20 gr sulfur/100 cf	N/A	1,000 Btu/cf

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.19	0.84
Nitrogen Oxides (NO <sub>x</sub> )	0.04	0.15
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	0.01	0.02
Particulate Matter (PM <sub>10</sub> )	0.01	0.02
Total Particulate Matter (TSP)	0.01	0.02
Sulfur Dioxide (SO <sub>2</sub> )	0.00	0.00
Volatile Organic Compounds (VOC)	4.72	20.67
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Benzene	0.04	0.15
Ethylbenzene	0.11	0.46
n-Hexane	0.04	0.17
Toluene	0.15	0.65
Xylenes	0.38	1.67
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Emission rates for the dehydration unit were obtained from GRI GLYCalc V4.0, with 95% destruction efficiency for the flare.</p>		

**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 6-4.1 – Particulate matter (TV 5.1.15)
- 45 CSR 6-4.3 – Visible particulate matter (TV 5.1.4; R13-2669B 5.1.4)
- 45 CSR 6-4.5 – No open burning (TV 5.1.2)
- 45 CSR 6-4.6 – No objectionable odors (TV 5.1.3)
- 45 CSR 13 – Flare must be operated as designed and operated at all times (TV 5.1.4; R13-2669B 5.1.4)
- 45 CSR 13 – Natural gas throughput limit (TV 5.1.6; R13-2669B 5.1.1)
- 45 CSR 13 – Emission limits (TV 5.1.7; R13-2669B 5.1.2)
- 40 CFR 63.10(b)(3) – Compliance with minor source HAP requirements of Subpart HH (TV 5.1.8, 5.1.9, 5.1.11, 5.1.12; R13-2669B 5.1.3, 6.1.1, 6.1.2)
- 45 CSR 13 – Flare design evaluation (TV 5.1.10; R13-5.1.5)
- 45 CSR 13; 45 CSR 30-5.1.c – 1.0 ton benzene/yr (TV 5.1.13)
- 45 CSR 13 – Operate the flare in a manner consistent with safety and good air pollution control practices (TV 5.1.14; R13-2669B 4.1.3)
- 45 CSR 13; 45 CSR 30-5.1.c – Permittee shall demonstrate compliance with 5.1.6 and 5.1.7 using GLYCalc Version 4.0 or higher (TV 5.2.1)
- 45 CSR 13 – Flare pilot flame will be continuously monitored (TV 5.2.2; R13-2669B 5.2.1)
- 45 CSR 13 – Wet gas shall be monitored daily for dehy unit (TV 5.2.3; R13-2669B 5.2.2)
- 45 CSR 13 – Visible emission observations (TV 5.2.4; R13-2669B 5.3.1)
- 45 CSR 13 – Compliance testing (TV 5.3.1; R13-2669B 5.3.3)
- 40 CFR 64; 45 CSR 30-5.1.c – CAM requirements (TV 5.2.5-5.2.10)

\_\_\_\_ 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.)**

- 45 CSR 30-5.1.c; 45 CSR 6-4.3 – Visible emission observation records will be maintained to demonstrate compliance with 5.1.1. and 5.2.4 (TV 5.4.1; R13-2669B 5.4.5)
- 45 CSR 6-4.5 – Open burning will be prohibited to demonstrate compliance with 5.1.2 (45 CSR 13)
- 45 CSR 6-4.6 – Records of objectionable odors will be maintained to demonstrate compliance with 5.1.3 (45 CSR 13)
- 45 CSR 13 – Wet gas throughput shall be monitored to demonstrate compliance with 5.1.6 and 5.1.7 (TV 5.4.2; R13-2669B 5.4.7)
- 45 CSR 13 – Flare pilot flame will be continuously monitored and records of downtime will be maintained to demonstrate compliance with 5.1.5 (TV 5.4.3; R13-2669B 5.4.1)
- 45 CSR 13 – Flare must be operated as designed to demonstrate compliance with 5.1.4 and 5.3.2 (TV 5.4.4; R13-2669B 5.4.2)
- 45 CSR 13; 45 CSR 30-5.1.c – Records to demonstrate compliance with the 1.0 ton benzene/yr limit (TV 5.4.9)
- 45 CSR 13 – Report periods of opacity that exceed the permitted limit (TV 5.5.1; R13-2669B 5.5.2)
- 45 CSR 13 – Report wet gas testing results and HAP PTE calculations using GLYCalc Version 4.0 or higher to demonstrate compliance with 5.1.8, 5.2.4, and 5.3.1 (TV 5.5.2 and 5.5.4; R13-2669B 5.5.1)
- 45 CSR 13 – Report wet gas testing results to demonstrate compliance with 5.3.1 (TV 5.5.4)
- 40 CFR 64; 45 CSR 30-5.1.c – CAM recordkeeping reporting requirements (TV 5.4.11 and 5.5.5)

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

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## ATTACHMENT E - Emission Unit Form

**Emission Unit Description**

<b>Emission unit ID number:</b> 001-01	<b>Emission unit name:</b> Cooper GMXE-8 Reciprocating Engine/Integral Compressor	<b>List any control devices associated with this emission unit:</b> N/A
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Natural gas-fired reciprocating engine/integral compressor – 660 hp (8200 Btu/hp-hr)

<b>Manufacturer:</b> Cooper	<b>Model number:</b> GMXE-8	<b>Serial number:</b> 46319
<b>Construction date:</b> Pre-1965	<b>Installation date:</b> 1965	<b>Modification date(s):</b> N/A

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):**  
660 hp

<b>Maximum Hourly Throughput:</b> 0.0054 MMscf/hr	<b>Maximum Annual Throughput:</b> 47.3 MMscf/yr	<b>Maximum Operating Schedule:</b> 8,760 hrs/yr
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**Fuel Usage Data (fill out all applicable fields)**

<b>Does this emission unit combust fuel?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b> 660 hp	<b>Type and Btu/hr rating of burners:</b> 8200 Btu/hp-hr
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

Pipeline quality natural gas  
 - Maximum hourly fuel usage = 0.0054 MMscf/hr  
 - Maximum annual fuel usage = 47.3 MMscf/yr

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Pipeline quality natural gas	20 gr sulfur/100 cf	N/A	1,000 Btu/cf

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	4.4	19.3
Nitrogen Oxides (NO <sub>x</sub> )	29.5	129.2
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	0.00	0.00
Particulate Matter (PM <sub>10</sub> )	0.05	0.24
Total Particulate Matter (TSP)	0.05	0.24
Sulfur Dioxide (SO <sub>2</sub> )	0.003	0.01
Volatile Organic Compounds (VOC)	3.3	14.5
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.04	0.18
Acrolein	0.04	0.18
Benzene	0.01	0.05
Ethylbenzene	0.00	0.00
Formaldehyde	0.20	0.89
Hexane	0.002	0.01
Toluene	0.005	0.02
Xylene	0.001	0.01
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <ul style="list-style-type: none"> <li>- NO<sub>x</sub>, CO, and VOC emission rates based on emission statement submittals to WVDEP.</li> <li>- PM, PM<sub>10</sub>, and PM<sub>2.5</sub> emission factors were obtained from US EPA's AIRS report (March 1990)</li> <li>- HAP emission factors were based on 2 stroke lean burn engine factors obtained from GRI's HAP Calc v 1.0 (July 1994), except for ethylbenzene and xylene which were obtained from US EPA's AP-42 (July 1993).</li> </ul>		

**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 – NESHAP Maintenance requirements (TV 6.1.2)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP Work or management practices (TV 6.1.4)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP general requirements/provisions (TV 6.1.3 and 6.1.5)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP monitoring requirements (TV 6.2.1)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP recordkeeping requirements (TV 6.4.1)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP reporting requirements (TV 6.5.1)

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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 – Change oil and filter, inspect spark plugs, and inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first (TV 6.2.1)
- 40 CFR Part 63 Subpart ZZZZ – Operate and maintain the RICE according to the manufacturer’s instructions OR develop and follow your own maintenance plan (TV 6.1.4)
- 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable general requirements/provisions (TV 6.1.3 and 6.1.5)
- 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable monitoring, recordkeeping, and reporting requirements (TV 6.2.1, 6.4.1, and 6.5.1)

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

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## ATTACHMENT E - Emission Unit Form

***Emission Unit Description***

<b>Emission unit ID number:</b> 001-02	<b>Emission unit name:</b> Cooper GMXE-8 Reciprocating Engine/Integral Compressor	<b>List any control devices associated with this emission unit:</b>  N/A
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

Natural gas-fired reciprocating engine/integral compressor – 660 hp (8200 Btu/hp-hr)

<b>Manufacturer:</b> Cooper	<b>Model number:</b> GMXE-8	<b>Serial number:</b> 46320
<b>Construction date:</b> Pre-1965	<b>Installation date:</b> 1965	<b>Modification date(s):</b> N/A

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):**  
660 hp

<b>Maximum Hourly Throughput:</b> 0.0054 MMscf/hr	<b>Maximum Annual Throughput:</b> 47.3 MMscf/yr	<b>Maximum Operating Schedule:</b> 8,760 hrs/yr
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***Fuel Usage Data (fill out all applicable fields)***

<b>Does this emission unit combust fuel?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>If yes, is it?</b>  <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b> 660 hp	<b>Type and Btu/hr rating of burners:</b> 8200 Btu/hp-hr
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

- Pipeline quality natural gas
- Maximum hourly fuel usage = 0.0054 MMscf/hr
  - Maximum annual fuel usage = 47.3 MMscf/yr

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Pipeline quality natural gas	20 gr sulfur/100 cf	N/A	1,000 Btu/cf

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	4.4	19.3
Nitrogen Oxides (NO <sub>x</sub> )	29.5	129.2
Lead (Pb)	N/A	N/A
Particulate Matter (PM <sub>2.5</sub> )	0.00	0.00
Particulate Matter (PM <sub>10</sub> )	0.05	0.24
Total Particulate Matter (TSP)	0.05	0.24
Sulfur Dioxide (SO <sub>2</sub> )	0.003	0.01
Volatile Organic Compounds (VOC)	3.3	14.5
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.04	0.18
Acrolein	0.04	0.18
Benzene	0.01	0.05
Ethylbenzene	0.00	0.00
Formaldehyde	0.20	0.89
Hexane	0.002	0.01
Toluene	0.005	0.02
Xylene	0.001	0.01
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <ul style="list-style-type: none"> <li>- NO<sub>x</sub>, CO, and VOC emission rates based on emission statement submittals to WVDEP.</li> <li>- PM, PM<sub>10</sub>, and PM<sub>2.5</sub> emission factors were obtained from US EPA's AIRS report (March 1990)</li> <li>- HAP emission factors were based on 2 stroke lean burn engine factors obtained from GRI's HAP Calc v 1.0 (July 1994), except for ethylbenzene and xylene which were obtained from US EPA's AP-42 (July 1993).</li> </ul>		

**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 – NESHAP Maintenance requirements (TV 6.1.2)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP Work or management practices (TV 6.1.4)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP general requirements/provisions (TV 6.1.3 and 6.1.5)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP monitoring requirements (TV 6.2.1)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP recordkeeping requirements (TV 6.4.1)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP reporting requirements (TV 6.5.1)

\_\_\_\_ 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 – Change oil and filter, inspect spark plugs, and inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first (TV 6.2.1)
- 40 CFR Part 63 Subpart ZZZZ – Operate and maintain the RICE according to the manufacturer’s instructions OR develop and follow your own maintenance plan (TV 6.1.4)
- 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable general requirements/provisions (TV 6.1.3 and 6.1.5)
- 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable monitoring, recordkeeping, and reporting requirements (TV 6.2.1, 6.4.1, and 6.5.1)

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

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

## ATTACHMENT E - Emission Unit Form

***Emission Unit Description***

<b>Emission unit ID number:</b> RB01	<b>Emission unit name:</b> Dehydration Unit Reboiler	<b>List any control devices associated with this emission unit:</b> N/A
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**Provide a description of the emission unit (type, method of operation, design parameters, etc.):**

A natural gas fired boiler used to reheat glycol within the dehydration unit.

<b>Manufacturer:</b> NATCO	<b>Model number:</b> 210-350	<b>Serial number:</b>
<b>Construction date:</b>	<b>Installation date:</b> 2006	<b>Modification date(s):</b> N/A

**Design Capacity (examples: furnaces - tons/hr, tanks - gallons):**

0.30 MMBtu/hr

<b>Maximum Hourly Throughput:</b> 343 cf/hr	<b>Maximum Annual Throughput:</b> 3.0 MMcf/yr	<b>Maximum Operating Schedule:</b> 8760 hrs/yr
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***Fuel Usage Data (fill out all applicable fields)***

<b>Does this emission unit combust fuel?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>If yes, is it?</b>  <input checked="" type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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<b>Maximum design heat input and/or maximum horsepower rating:</b> 0.30 MMBtu/hr	<b>Type and Btu/hr rating of burners:</b>
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**List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.**

- Natural gas
- Maximum hourly fuel usage = 343 cf/hr
  - Maximum annual fuel usage = 3.0 MMcf/yr

**Describe each fuel expected to be used during the term of the permit.**

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural gas	20 gr sulfur/100 cf	N/A	1,000 Btu/cf

<b><i>Emissions Data</i></b>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.03	0.11
Nitrogen Oxides (NO <sub>x</sub> )	0.03	0.13
Lead (Pb)	0.00	0.00
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	0.01
Sulfur Dioxide (SO <sub>2</sub> )	0.00	0.00
Volatile Organic Compounds (VOC)	<0.01	0.01
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Benzene	0.00	0.00
Ethylbenzene	0.00	0.00
n-Hexane	0.00	0.00
Toluene	0.00	0.00
Xylenes	0.00	0.00
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p><b>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</b></p> <p>Emission rates for the dehydration unit reboiler were obtained from AP-42 – 1.4 Natural Gas Combustion.</p>		

***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 2-3.1 – Opacity limitation (TV 4.1.1)

45 CSR 13 – Method 9 emissions observations will be conducted upon request by Department (TV 4.2.1)

\_\_\_\_ 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.)**

45 CSR 2-3.1 – Conduct opacity observations upon request from the Department

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

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

**Attachment G**

Air Pollution Control Device Form

## ATTACHMENT G - Air Pollution Control Device Form

<b>Control device ID number:</b> F1	<b>List all emission units associated with this control device.</b> D1
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<b>Manufacturer:</b> Questor	<b>Model number:</b> Q50	<b>Installation date:</b> 2006
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**Type of Air Pollution Control Device:**

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Baghouse/Fabric Filter               | <input type="checkbox"/> Venturi Scrubber                     | <input type="checkbox"/> Multiclone             |
| <input type="checkbox"/> Carbon Bed Adsorber                  | <input type="checkbox"/> Packed Tower Scrubber                | <input type="checkbox"/> Single Cyclone         |
| <input type="checkbox"/> Carbon Drum(s)                       | <input type="checkbox"/> Other Wet Scrubber                   | <input type="checkbox"/> Cyclone Bank           |
| <input type="checkbox"/> Catalytic Incinerator                | <input type="checkbox"/> Condenser                            | <input type="checkbox"/> Settling Chamber       |
| <input type="checkbox"/> Thermal Incinerator                  | <input checked="" type="checkbox"/> Flare                     | <input type="checkbox"/> Other (describe) _____ |
| <input type="checkbox"/> Wet Plate Electrostatic Precipitator | <input type="checkbox"/> 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		95%
Benzene		95%
Ethylbenzene		95%
n-Hexane		95%
Toluene		95%
Xylene		95%

**Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).**

4.0 MMBtu/hr non-assisted burner

**Is this device subject to the CAM requirements of 40 C.F.R. 64?**  Yes  No

If Yes, **Complete ATTACHMENT H**

If No, **Provide justification.**

**Describe the parameters monitored and/or methods used to indicate performance of this control device.**

5.1.2 – Permittee shall not allow or permit the emission of particles of unburned or partially burned refuse or ash from any incinerator which are large enough to be individually distinguished in the open air.

5.1.3 – Flare shall be operated and maintained so as to prevent objectionable odors.

5.1.4 – Flare must be operated within operational design limits with routine maintenance. The flare shall be operated at all times. Flare's pilot flame will be monitored.

5.1.7 – Emission limits for the flare.

5.1.8 – Maintain minor source of HAPs classification – Permittee shall maintain all PTE calculations, reports, and gas analysis records.

5.1.10 – Conduct a flare design evaluation.

5.1.14 – Install, maintain, and operated the flare in a manner consistent with safety and good air pollution control practices.

5.1.15 – Particulate matter emission limits for the flare.

5.2.2 – Flare shall be maintained and operated to meet manufacturer's design specifications – Permittee shall maintain records of the flare design evaluation and testing results.

5.2.4 – Visible emission observations.

5.3.1 – Wet gas content shall be analyzed.

5.4.1 – Permittee shall maintain visible emission monitoring records.

5.4.3 – Presence of flame shall be monitored and recorded – Permittee shall maintain records of times and duration of flame absence.

5.4.4 – Permittee shall maintain design parameters for flare.

5.4.5 – Permittee shall maintain design parameters and initial determinations for flare.

5.4.12 – Permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the flare.

5.5.3 – Permittee shall maintain records of any deviations from the flare design and operation.

## **Attachment H**

Compliance Assurance Monitoring (CAM) Form

## ATTACHMENT H - Compliance Assurance Monitoring (CAM) Plan Form

For definitions and information about the CAM rule, please refer to 40 CFR Part 64. Additional information (including guidance documents) may also be found at <http://www.epa.gov/ttn/emc/cam.html>

### CAM APPLICABILITY DETERMINATION

1) Does the facility have a PSEU (Pollutant-Specific Emissions Unit considered separately with respect to **EACH** regulated air pollutant) that is subject to CAM (40 CFR Part 64), which must be addressed in this CAM plan submittal? To determine applicability, a PSEU must meet **all** of the following criteria (*If No, then the remainder of this form need not be completed*):

YES  NO

- a. The PSEU is located at a major source that is required to obtain a Title V permit;
- b. The PSEU is subject to an emission limitation or standard for the applicable regulated air pollutant that is **NOT** exempt;

#### LIST OF EXEMPT EMISSION LIMITATIONS OR STANDARDS:

- NSPS (40 CFR Part 60) or NESHAP (40 CFR Parts 61 and 63) proposed after 11/15/1990.
  - Stratospheric Ozone Protection Requirements.
  - Acid Rain Program Requirements.
  - Emission Limitations or Standards for which a WVDEP Division of Air Quality Title V permit specifies a continuous compliance determination method, as defined in 40 CFR §64.1.
  - An emission cap that meets the requirements specified in 40 CFR §70.4(b)(12).
- c. The PSEU uses an add-on control device (as defined in 40 CFR §64.1) to achieve compliance with an emission limitation or standard;
  - d. The PSEU has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than the Title V Major Source Threshold Levels; AND
  - e. The PSEU is **NOT** an exempt backup utility power emissions unit that is municipally-owned.

### BASIS OF CAM SUBMITTAL

2) Mark the appropriate box below as to why this CAM plan is being submitted as part of an application for a Title V permit:

**RENEWAL APPLICATION.** **ALL** PSEUs for which a CAM plan has **NOT** yet been approved need to be addressed in this CAM plan submittal.

**INITIAL APPLICATION** (submitted after 4/20/98). **ONLY** large PSEUs (i. e., PSEUs with potential post-control device emissions of an applicable regulated air pollutant that are equal to or greater than Major Source Threshold Levels) need to be addressed in this CAM plan submittal.

**SIGNIFICANT MODIFICATION TO LARGE PSEUs.** **ONLY** large PSEUs being modified after 4/20/98 need to be addressed in this cam plan submittal. For large PSEUs with an approved CAM plan, **Only** address the appropriate monitoring requirements affected by the significant modification.

**3) <sup>a</sup> BACKGROUND DATA AND INFORMATION**

Complete the following table for all PSEUs that need to be addressed in this CAM plan submittal. This section is to be used to provide background data and information for each PSEU in order to supplement the submittal requirements specified in 40 CFR §64.4. If additional space is needed, attach and label accordingly.

PSEU DESIGNATION	DESCRIPTION	POLLUTANT	CONTROL DEVICE	<sup>b</sup> EMISSION LIMITATION or STANDARD	<sup>c</sup> MONITORING REQUIREMENT
PSEU CAM plan has already been approved; no new plans.					
<u>EXAMPLE</u> Boiler No. 1	Wood-Fired Boiler	PM	Multiclone	45CSR§2-4.1.c.; 9.0 lb/hr	Monitor pressure drop across multiclone: Weekly inspection of multiclone

<sup>a</sup> If a control device is common to more than one PSEU, one monitoring plan may be submitted for the control device with the affected PSEUs identified and any conditions that must be maintained or monitored in accordance with 40 CFR §64.3(a). If a single PSEU is controlled by more than one control device similar in design and operation, one monitoring plan for the applicable control devices may be submitted with the applicable control devices identified and any conditions that must be maintained or monitored in accordance with 40 CFR §64.3(a).

<sup>b</sup> Indicate the emission limitation or standard for any applicable requirement that constitutes an emission limitation, emission standard, or standard of performance (as defined in 40 CFR §64.1).

<sup>c</sup> Indicate the monitoring requirements for the PSEU that are required by an applicable regulation or permit condition.