



April 20, 2016

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

9590 9401 0037 5168 3777 38

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

RE: Dominion Transmission, Inc. – Title V Renewal Application
Wilsonburg Compressor Station – R30-03300011-2011

Dear Mr. Durham:

Enclosed please find the Title V Renewal Application for Dominion Transmission, Inc.'s (DTI) Wilsonburg Compressor Station, Permit No. R30-03300011-2011. The enclosure consists of one hard copy and two cd copies of the application that includes all attachments.

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

- Equipment removed from the facility:
 - TK06 – 230 gal Vertical Aboveground Storage Tank (Ethylene Glycol)
- Correction to equipment at the facility:
 - TK02 – This tank was previously listed as a 1,000 gallon tank, but the correct capacity is 550 gallons.

In addition, as part of the renewal application, we request the following change to the Title V permit:

- Section 6.0

Permit conditions 6.4.1 and 6.4.4 should be removed from the source-specific section (Section 6) and moved to the facility-wide section (Section 3) as they are facility-wide requirements.

- CAM Applicability

We request that all CAM conditions be removed from the Title V permit as CAM does not apply. The dehy unit (DEHY02) is not subject to CAM since it is subject to NESHAP Subpart HH, which has provisions for compliance monitoring established after 1990. Per 64.2(b)(1)(i), "*emission limitations or standards proposed by the Administrator after November 15, 1990 pursuant to section 111 or 112 of the Act*" are

exempt from CAM. CAM was established to build in provisions for how compliance would be demonstrated for emission limits if not adequately covered by a NSPS or NESHAP rule.

In addition, for VOC purposes, the dehy unit is not subject to CAM per 64.2(b)(1)(vi), which states "*emission limitations or standards for which a part 70 or 71 permit specified a continuous compliance determination method, as defined in 64.1*" is exempt from CAM. Since the R13 permit for the facility (R13-2856B) specifies a "continuous compliance determination method" condition (e.g. continuously monitoring the flare using a thermocouple to detect the presence of a flame) and that R13 condition was rolled into the Title V permit, CAM does not apply.

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

Sincerely,



Amanda B. Tornabene
Director, Energy Infrastructure Environmental Services

**WILSONBURG COMPRESSOR STATION
DOMINION TRANSMISSION, INC.
APPLICATION FOR TITLE V OPERATING PERMIT RENEWAL
TITLE V OPERATING PERMIT NO: R30-03300011-2011**

Dominion Transmission, Inc.
Wilsonburg Compressor Station
Paleo Road
Wilsonburg, WV 26301

APRIL 2016

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

TITLE V OPERATING PERMIT RENEWAL APPLICATION

TABLE OF CONTENTS

Title V Permit Application Checklist for Administrative Completeness Cross Reference

Section 1: Introduction

Section 2: Title V Renewal Permit Application – General Forms

ATTACHMENTS

Attachment A: Area Map

Attachment B: Plot Plan

Attachment C: Process Flow Diagrams

Attachment D: Title V Equipment Table

Attachment E: Emission Unit Forms

Attachment G: Air Pollution Control Device Form

Attachment H: Compliance Assurance Monitoring (CAM) Plan Form

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

TITLE V PERMIT APPLICATION CHECKLIST FOR ADMINISTRATIVE COMPLETENESS

Requirement	Application
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:

Wilsonburg Station is a natural gas compressor station used to compress natural gas collected from gathering lines for conveyance to a downstream processing facility and ultimately for transportation on Dominion Transmission, Inc.'s transmission pipeline system in West Virginia. Wilsonburg Station is located in Wilsonburg, Harrison County, WV.

Wilsonburg Station has the potential to emit in excess of 100 tons per year of nitrogen oxides (NOx) and volatile organic compounds (VOCs). The station is classified as a major stationary source under 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. Wilsonburg Station is 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.

The last Title V Operating Permit renewal application was submitted in October 2010, and the renewed Title V Operating Permit was issued on October 11, 2011, with an expiration date of October 21, 2016. Wilsonburg Station is also subject to the underlying State Operating Permit (Rule 13 Permit No: R13-2856B). The Title V operating permit is for the operation of one (1) 360 hp natural gas fired reciprocating engine (EN02), one (1) 800 hp natural gas fired reciprocating engine (EN03), one (1) glycol dehydrator system (DEHY02) with a flare (F3), one (1) dehydration unit reboiler (RBR02), two (2) 192.5 bhp emergency generators (EG01 and EG02), and six (6) above ground storage tanks of various sizes (TK01 – TK05 and TK07).

PROCESS DESCRIPTION

Wilsonburg Station is a compressor facility that services a natural gas pipeline system. The compressor engines (EN02 and EN03) 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 (DEHY02). The dehydration unit removes moisture and impurities from the gas stream. Emergency backup power is supplied by emergency generators (EG01 and EG02).

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 (RBR02), 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 some hydrocarbons, is regenerated in the still column (DEHY02) using the heat generated from the natural gas-fired reboiler (RBR02) to liberate the moisture and hydrocarbon vapors. The regenerator vapors are vented to the flare (F3) to combust the 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 Wilsonburg Station:

One (1) 360 hp Ajax DPC-360 natural gas-fired reciprocating engine/integral compressor

- Emission unit ID: 001-02
- Emission point ID: EN02

One (1) 800 hp Ajax DPC-800 natural gas-fired reciprocating engine/integral compressor

- Emission unit ID: 001-03
- Emission point ID: EN03

Two (2) 192.5 hp Cummins GM8.1L emergency generators

- Emission unit ID: 005-01 and 005-02
- Emission point ID: EG01 and EG02

One (1) 1.104 MMBtu/hr natural gas-fired dehydration unit reboiler

- Emission unit ID: RBR02
- Emission point ID: RBR02

One (1) 13.5 MMscf wet gas/day glycol dehydration system

- Emission unit ID: DEHY02
- Emission point ID: F3

One (1) 71.2 scfm flare

- Emission unit ID: F3
- Emission point ID: F3

One (1) 2,000 gallon horizontal aboveground ethylene glycol storage tank

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

One (1) 550 gallon horizontal aboveground tri-ethylene glycol storage tank

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

One (1) 5,000 gallon horizontal aboveground produced fluids storage tank

- Emission unit ID: TK03
- Emission point ID: TK03

One (1) 3,000 gallon horizontal aboveground engine oil storage tank

- Emission unit ID: TK04
- Emission point ID: TK04

One (1) 500 gallon vertical aboveground wastewater storage tank

- Emission unit ID: TK05
- Emission point ID: TK05

One (1) 3,000 gallon horizontal aboveground used oil storage tank

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

SECTION 2

Title V Operating Permit
Renewal 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

1. Name of Applicant (As registered with the WV Secretary of State's Office): Dominion Transmission, Inc.	2. Facility Name or Location: Wilsonburg Station
3. DAQ Plant ID No.: 0 3 3 — 0 0 0 1 1	4. Federal Employer ID No. (FEIN): 5 5 0 6 2 9 2 0 3
5. Permit Application Type: <input type="checkbox"/> Initial Permit <input checked="" type="checkbox"/> Permit Renewal <input type="checkbox"/> Update to Initial/Renewal Permit Application When did operations commence? 1972 What is the expiration date of the existing permit? 10/21/2016	
6. Type of Business Entity: <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Governmental Agency <input type="checkbox"/> LLC <input type="checkbox"/> Partnership <input type="checkbox"/> Limited Partnership	7. Is the Applicant the: <input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Both If the Applicant is not both the owner and operator, please provide the name and address of the other party. _____ _____ _____
8. Number of onsite employees: 0	
9. Governmental Code: <input checked="" type="checkbox"/> Privately owned and operated; 0 <input type="checkbox"/> County government owned and operated; 3 <input type="checkbox"/> Federally owned and operated; 1 <input type="checkbox"/> Municipality government owned and operated; 4 <input type="checkbox"/> State government owned and operated; 2 <input type="checkbox"/> District government owned and operated; 5	
10. Business Confidentiality Claims Does this application include confidential information (per 45CSR31)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, identify each segment of information on each page that is submitted as confidential, and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's "PRECAUTIONARY NOTICE-CLAIMS OF CONFIDENTIALITY" guidance.	

11. Mailing Address		
Street or P.O. Box: 925 White Oaks Blvd.		
City: Bridgeport	State: WV	Zip: 26330
Telephone Number: (681) 842-3000	Fax Number: (681) 842-3323	

12. Facility Location		
Street: Paleo Road	City: Wilsonburg	County: Harrison
UTM Easting: 549.9 km	UTM Northing: 4,348.7 km	Zone: <input checked="" type="checkbox"/> 17 or <input type="checkbox"/> 18
Directions: From the intersection of Route 50 and SR98 near Clarksburg, go west on Route 50 for 1.3 miles to intersection. Turn right onto Paleo Road and travel 100 feet to gravel road on the right. Go through the gate and follow gravel road to the station.		
Portable Source? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Is facility located within a nonattainment area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, for what air pollutants?
Is facility located within 50 miles of another state? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If yes, name the affected state(s). Pennsylvania
Is facility located within 100 km of a Class I Area¹? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, do emissions impact a Class I Area¹? <input type="checkbox"/> Yes <input type="checkbox"/> No		If yes, name the area(s). Dolly Sods Wilderness Area Otter Creek Wilderness Area
¹ 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.		

13. Contact Information		
Responsible Official: Brian C Sheppard		Title: Vice President, Pipeline Operations
Street or P.O. Box: 925 White Oaks Blvd.		
City: Bridgeport	State: WV	Zip: 26330
Telephone Number: (681) 842-3733	Fax Number: (681) 842-3323	
E-mail address: Brian.C.Sheppard@dom.com		
Environmental Contact: Rebekah Remick		Title: Environmental Consultant
Street or P.O. Box: 5000 Dominion Blvd.		
City: Glen Allen	State: VA	Zip: 23060
Telephone Number: (804) 273-3536	Fax Number: (804) 273-2964	
E-mail address: Rebekah.J.Remick@dom.com		
Application Preparer: Rebekah Remick		Title: Environmental Consultant
Company: Dominion Resources, Inc.		
Street or P.O. Box: 5000 Dominion Blvd.		
City: Glen Allen	State: VA	Zip: 23060
Telephone Number: (804) 273-3536	Fax Number: (804) 273-2964	
E-mail address: 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	486120	4922

Provide a general description of operations.

Wilsonburg Station is a compressor facility that services a natural gas pipeline system. The compressor engines (EN02 and EN03) 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 (DEHY02). 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

18. Applicable Requirements Summary	
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 checked="" 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 type="checkbox"/> Compliance Assurance Monitoring (40CFR64)
<input type="checkbox"/> CAIR NO _x Annual Trading Program (45CSR39)	<input type="checkbox"/> CAIR NO _x Ozone Season Trading Program (45CSR40)
<input type="checkbox"/> CAIR SO ₂ Trading Program (45CSR41)	
19. Non Applicability Determinations	
<p>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.</p> <p>45 CSR 10 – Compressor engines (EN02 and EN03) have been excluded from the applicability of SO₂ and H₂S limits. WVDAQ determined that 45 CSR 10 is not applicable to compressor engines.</p> <p>40 CFR 60 Subpart JJJJ – The compressor engines (EN02 and EN03) are not subject to this subpart since they were installed in 1983 and 1987, 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 does not have gas wells, centrifugal compressors, reciprocating compressors, tanks, and/or pneumatic controllers constructed, modified, or reconstructed after August 23, 2011.</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 (RBR02) 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 (RBR02) is not applicable to this subpart since it is considered a “process heater,” which is excluded from the definition of “boiler” in §63.11237.</p> <p>40 CFR 64 – The dehy unit (DEHY02) is not subject to CAM since the unit is subject to NESHAP Subpart HH, which has provisions for compliance monitoring established after 1990 (exemption per 64.2(b)(1)(i)). In addition, since the R13-2856B permit specifies a “continuous compliance determination method” condition (e.g. continuously monitoring the flare using a thermocouple to detect the presence of a flame) which was included in the Title V permit, CAM does not apply (exemption per 64.2(b)(1)(vi)).</p>	
<input checked="" 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)
45 CSR 6-3.2 – Open burning exemption (TV 3.1.2)
40 CFR Part 61 and 45 CSR 15 – Asbestos inspection and removal (TV 3.1.3)
45 CSR 4-3.1 – No objectionable odors (TV 3.1.4)
45 CSR 11-5.2 – Standby plans for emergency episodes (TV 3.1.5)
WV Code 22-5-4 (a) (14) – 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 CSR 17-3.1 – Fugitive Particulate Matter (TV 3.1.9)
45 CSR 13 – Minor source of Hazardous Air Pollutants (HAP) (TV 6.1.1)

☐ 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 notify if open burning occurs (TV 3.1.2)
40 CFR Part 61 and 45 CSR 15 – Prior to demolition/construction buildings will be inspected for asbestos (TV 3.1.3)
45 CSR 11 – 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 (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 CSR 17 – The permittee will limit fugitive particulate matter emissions from the facility by burning only pipeline quality natural gas (TV 3.1.9)
45 CSR 13 and WV Code 22-5-4 (a) (14-15) – Testing Requirements (TV 3.3.1)
45 CSR 30 – Recordkeeping Requirements (TV 3.4)
45 CSR 30-5.1.c.2.A and 13 – The permittee shall keep records of monitoring information (TV 3.4.1; R13-2856B 4.4.1)
45 CSR 4-3.1 – Permittee shall maintain records of all odor complaints received (TV 3.4.3)
45 CSR 30 – Reporting Requirements (TV 3.5)
45 CSR 30-8 – The permittee shall submit a certified emissions statement and pay fees on an annual basis (TV 3.5.4)
45 CSR 30-5.3.e – The permittee shall submit annual compliance certifications (TV 3.5.5)
45 CSR 30-5.1.c.3.A – The permittee shall submit semi-annual monitoring reports (TV 3.5.6)
45 CSR 13 – HAP emissions from the facility shall be limited below 10 tons/yr of a single HAP and 25 tons/yr of combined HAPs (TV 6.4.1; R13-2856B, 4.4.4)

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

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

21. Active Permits/Consent Orders		
Permit or Consent Order Number	Date of Issuance MM/DD/YYYY	List any Permit Determinations that Affect the Permit (<i>if any</i>)
R13-2856B	05/07/2015	N/A

22. Inactive Permits/Obsolete Permit Conditions		
Permit Number	Date of Issuance	Permit Condition Number
N/A		

Section 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year]	
Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	34.97
Nitrogen Oxides (NO _x)	186.42
Lead (Pb)	N/A
Particulate Matter (PM _{2.5}) ¹	2.12
Particulate Matter (PM ₁₀) ¹	2.12
Total Particulate Matter (TSP)	2.56
Sulfur Dioxide (SO ₂)	0.03
Volatile Organic Compounds (VOC)	106.65
Hazardous Air Pollutants ²	Potential Emissions
Acetaldehyde	0.32
Acrolein	0.32
Benzene	0.34
Ethylbenzene	0.17
Formaldehyde	2.28
Hexane	0.53
Toluene	0.51
Xylene	1.45
Regulated Pollutants other than Criteria and HAP	Potential Emissions
¹ PM _{2.5} and PM ₁₀ are components of TSP. ² 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. Insignificant Activities (Check all that apply)	
<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 checked="" 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 ₂ lasers, used only on metals and other materials which do not emit HAP in the process.
<input checked="" type="checkbox"/>	11. Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.
<input checked="" 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"/>	<p>19. Emission units which do not have any applicable requirements and which emit criteria pollutants (CO, NO_x, SO₂, 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.</p> <p>Please specify all emission units for which this exemption applies along with the quantity of criteria pollutants emitted on an hourly and annual basis:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>

24. Insignificant Activities (Check all that apply)	
<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 checked="" 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 checked="" 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.

24. Insignificant Activities (Check all that apply)	
<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 owners/operators must still get a permit if otherwise requested.)
<input checked="" 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

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 .

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: Brian C. Sheppard
(Must be signed and dated in blue ink)

Signature Date: 04-12-16

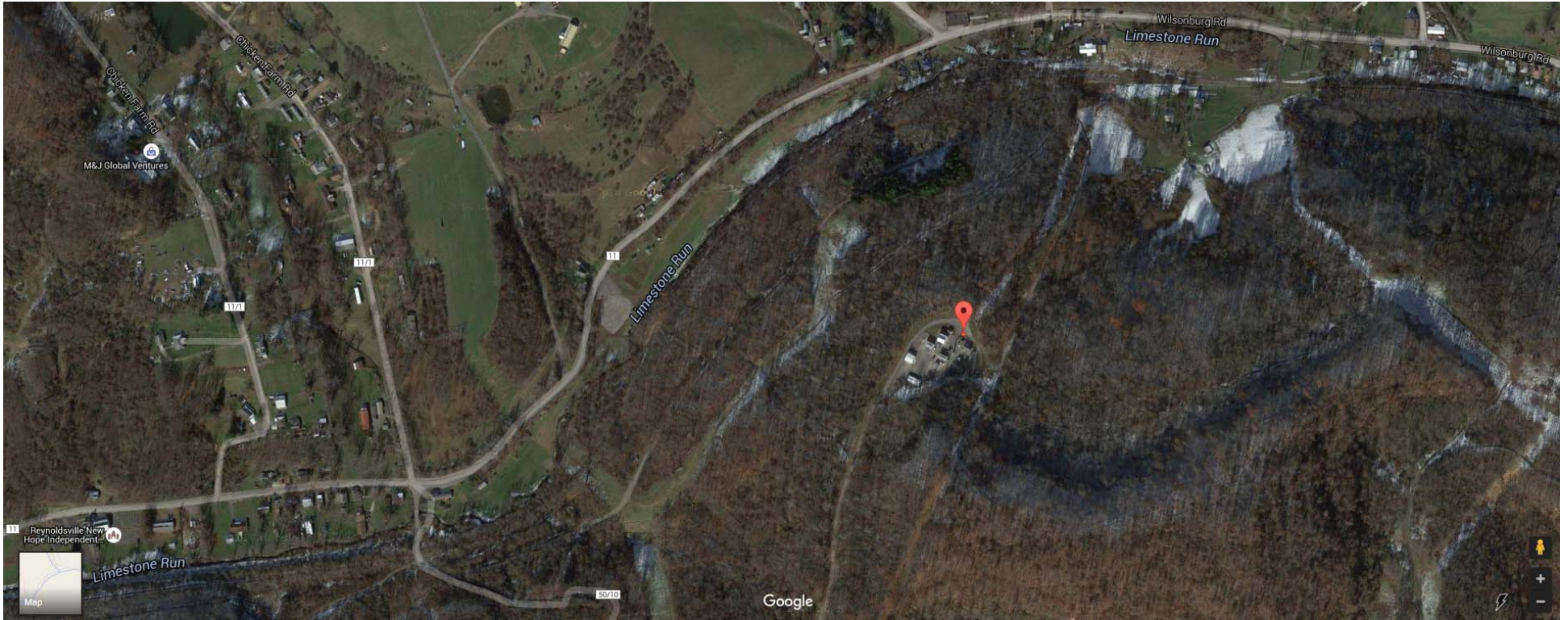
Note: Please check all applicable attachments included with this permit application:

- | | |
|-------------------------------------|---|
| <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/dag, requested by phone (304) 926-0475, and/or obtained through the mail.

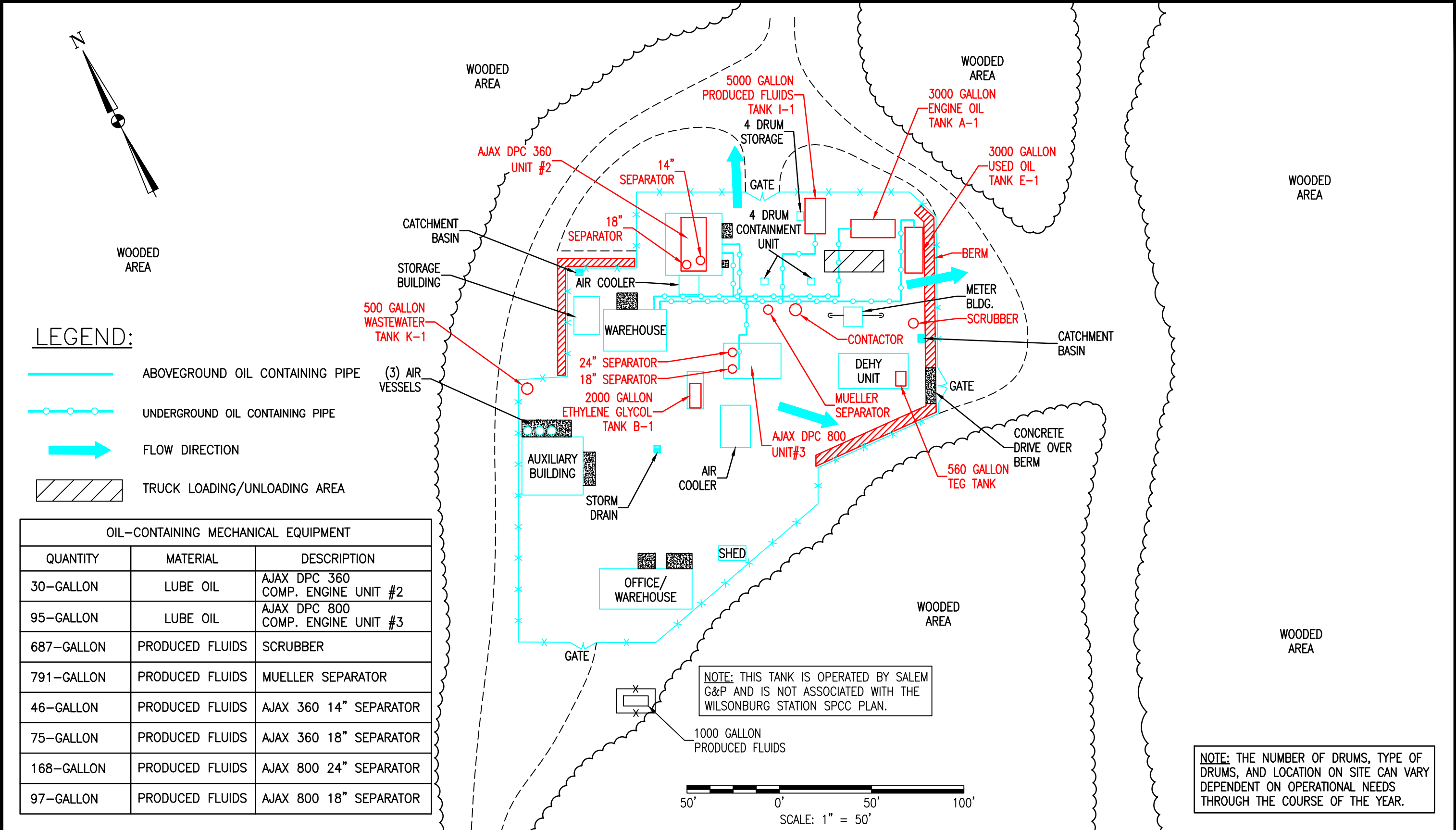
Attachment A

Area Map

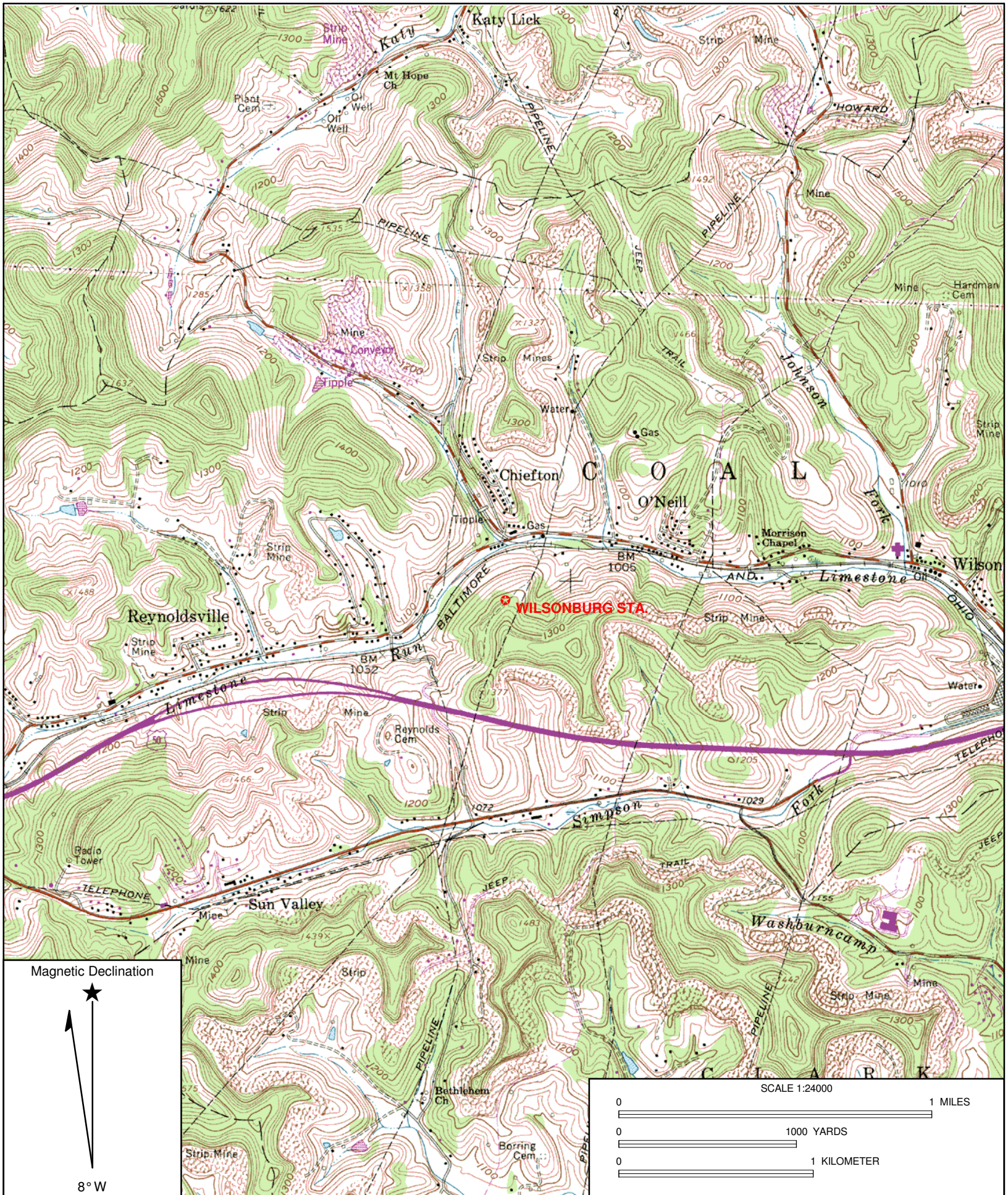


Attachment B

Plot Plan



SYM.	DATE	BY	REVISION DESCRIPTION	PRJ/TSK	APP.	SCALE	1" = 50'	DATE	Dominion Transmission, Inc.				
5	09/15/15	TBB	ADDED LOADING/UNLOADING AREA & REVISED OFF-SITE TANK			DRAWN	SAR	09/27/07	445 West Main St. Clarksburg, West Virginia 26301 / Phone: (304) 623-8000				
4	08/26/15	TBB	MINOR REVISIONS MADE PER TIM JACKSON			CHECKED	DTC		FOR: WILSONBURG COMPRESSOR STATION				
3	11/18/14	TBB	SCALED, ADDED BAR SCALE, ADDED ADJACENT PROPERTIES, & REVISED NORTH ARROW			APP. FOR BID			TITLE: ENVIRONMENTAL EMERGENCY SITE PLAN				
2	02/22/13	TBB	REVISED PER TIM JACKSONS MARK UPS			APP. FOR CONST.			DIR: DOCUMENTUM	GROUP	DWG. NO.	REV.	
1	04/22/10	JDB	REVISED PER RUSS EVANS MARK UPS			TOWN: WILSONBURG, WV	COUNTY: HARRISON		FILE:	PRJ/TSK:	PD	X7703B	5



Name: WOLF SUMMIT
Date: 8/24/2006
Scale: 1 inch equals 2000 feet

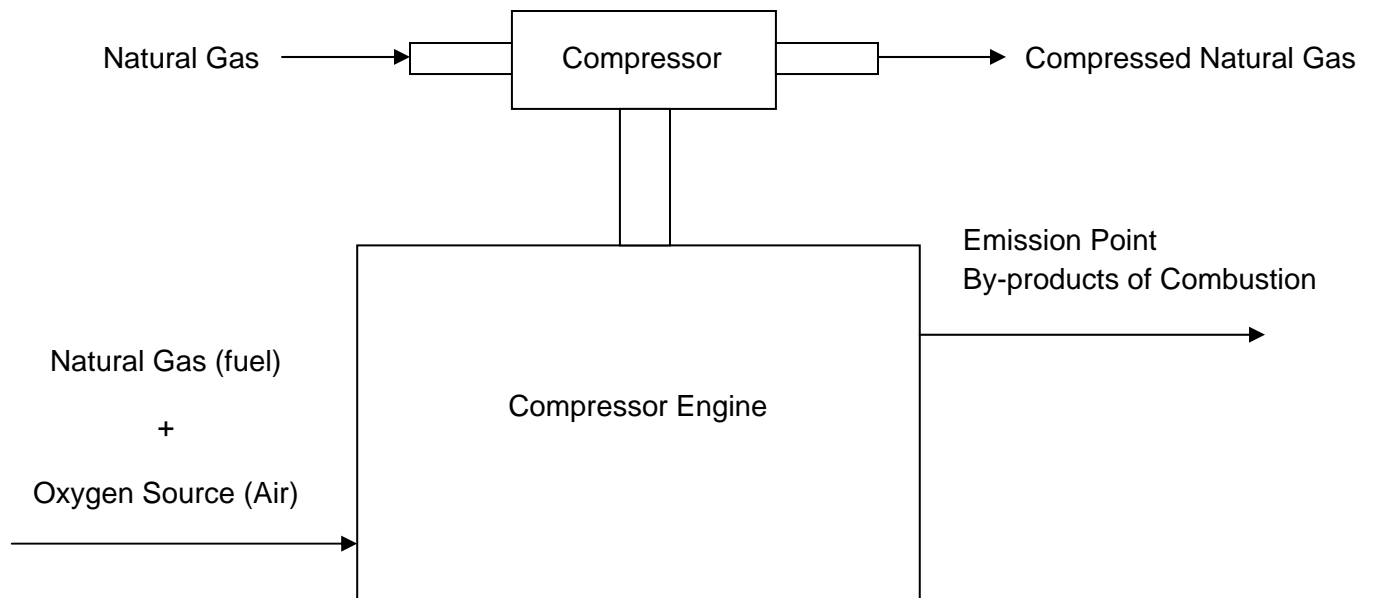
Location: 039.2908589° N 080.4205000° W NAD 83
Caption: WILSONBURG STA.

Attachment C

Process Flow Diagrams

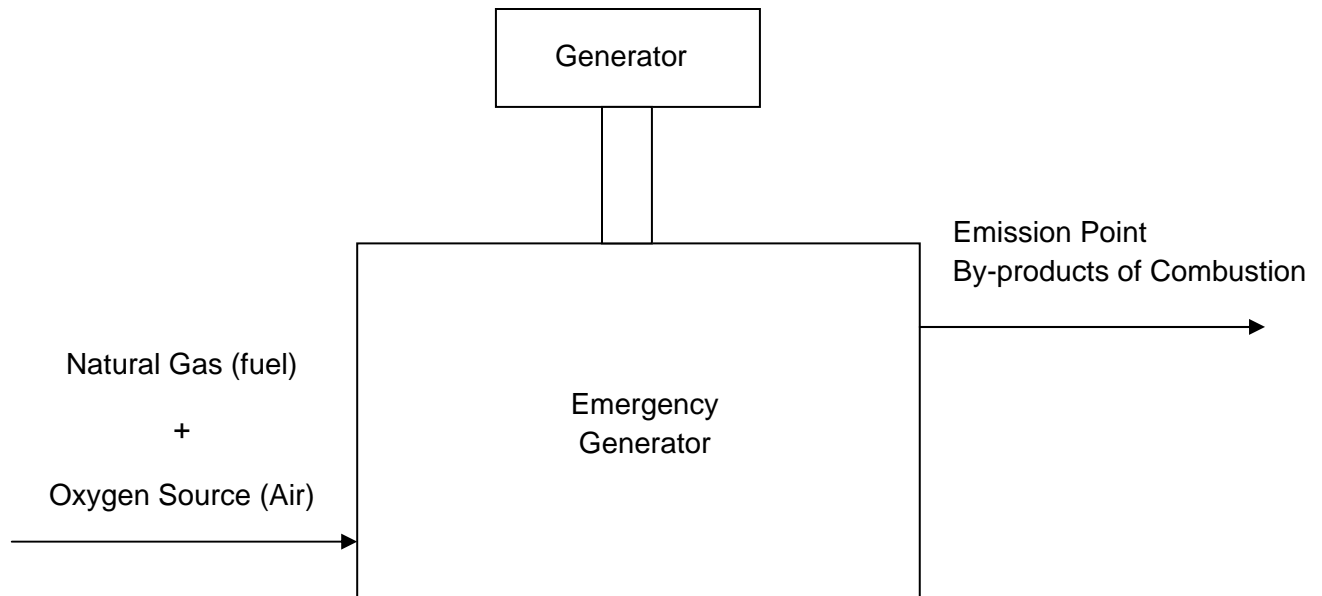
Dominion Transmission, Inc.
Wilsonburg Compressor Station

Compressor Engines (EN02 – EN03) Process Flow Diagram



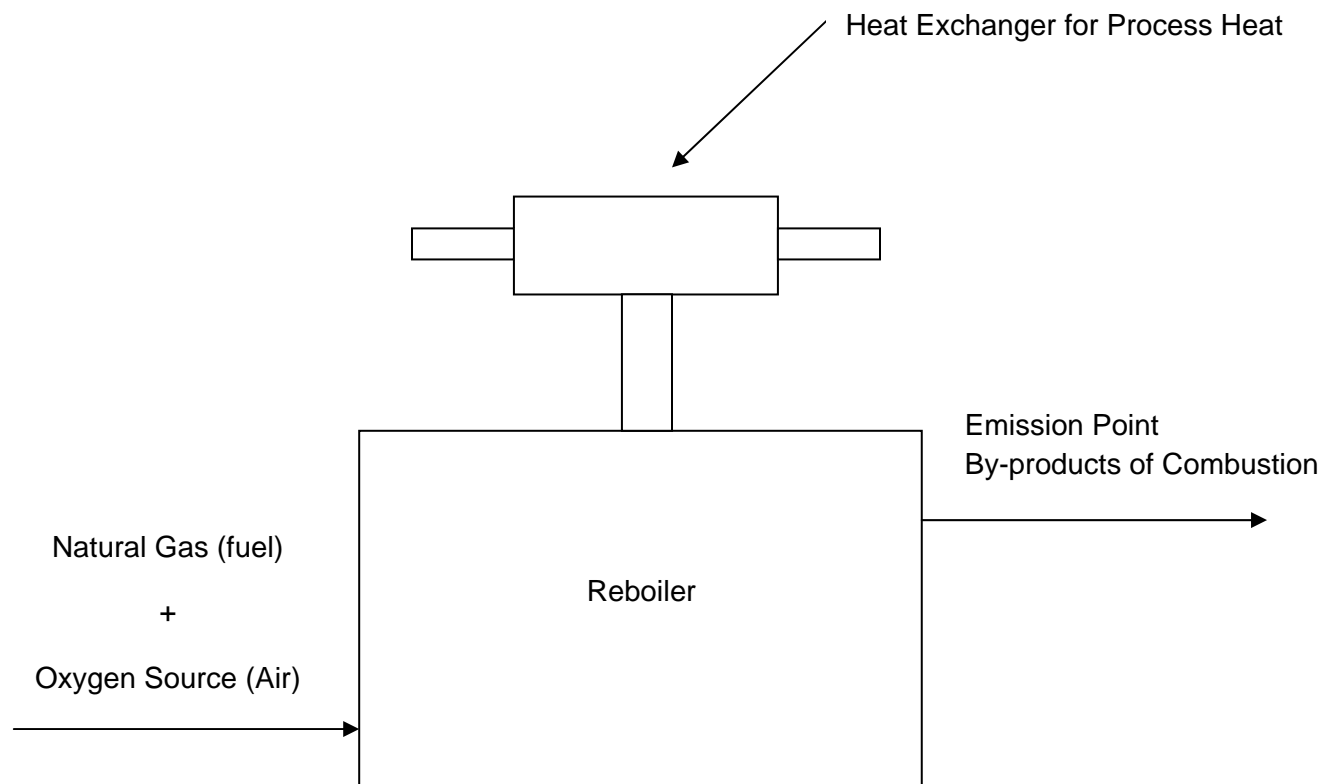
Dominion Transmission, Inc.
Wilsonburg Compressor Station

Emergency Generators (EG01 and EG02) Process Flow Diagram



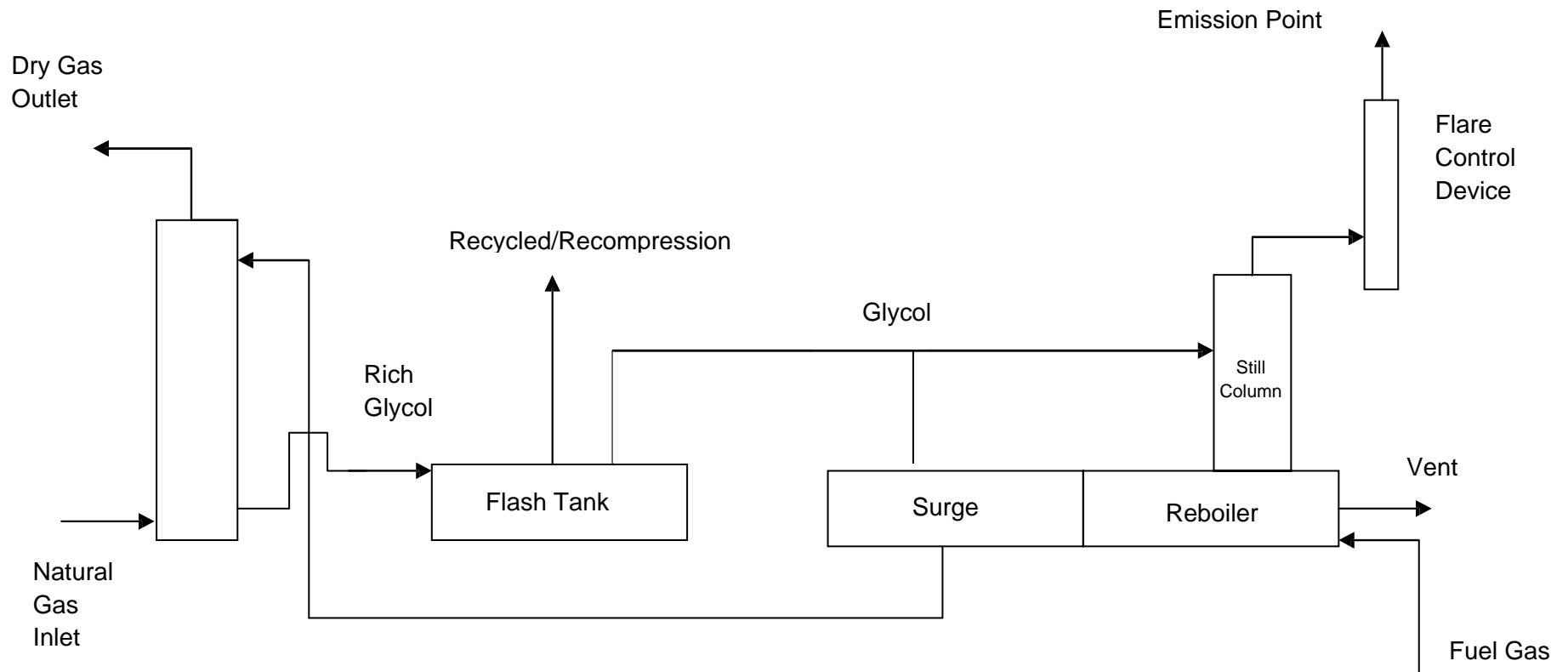
Dominion Transmission, Inc.
Wilsonburg Compressor Station

Reboiler (RBR02) Process Flow Diagram



Dominion Transmission, Inc.
Wilsonburg Compressor Station

Dehydration Unit (F3, DEHY02, and RBR02) 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 ¹	Control Device ¹	Emission Unit ID ¹	Emission Unit Description	Design Capacity	Year Installed/Modified
EN02	N/A	001-02	Reciprocating Engine/Integral Compressor; Ajax DPC-360	360 hp	1987
EN03	N/A	001-03	Reciprocating Engine/Integral Compressor; Ajax DPC-800	800 hp	1983
EG01	N/A	005-01	Emergency Generator	192.5 bhp	2010
EG02	N/A	005-02	Emergency Generator	192.5 bhp	2010
F3	F3	DEHY02	Cameron Dehydration Unit	13.5 MMscf/day	2011
RBR02	N/A	RBR02	Cameron Reboiler	1.104 MMBtu/hr	2011
F3	N/A	F3	Enclosed Flare Questor Q100	71.2 scfm	2015
TK01	N/A	TK01	Horizontal Aboveground Ethylene Glycol Storage Tank	2,000 Gallons	1991
TK03	N/A	TK03	Horizontal Aboveground Produced Fluids Tank	5,000 Gallons	2002
TK04	N/A	TK04	Horizontal Aboveground Engine Oil Tank	3,000 Gallons	1997
TK05	N/A	TK05	Vertical Aboveground Wastewater Tank	500 Gallons	1971
TK07	N/A	TK07	Horizontal Aboveground Used Oil Tank	3,000 Gallons	1997
New units (and updates) to equipment list:					
TK02	N/A	TK02	Horizontal Aboveground Tri-Ethylene Glycol Storage Tank	550 Gallons	1983
Units that have been removed:					
TK06	N/A	TK06	Vertical Aboveground Used Ethylene Glycol Tank	230 Gallons	1972

¹For 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: DEHY02	Emission unit name: DEHY02 Glycol Dehydration Unit	List any control devices associated with this emission unit: Flare (F3)
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Dehydration unit still column

Manufacturer: Cameron	Model number: 5GR-750	Serial number: N/A
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Construction date: N/A	Installation date: 2011	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
13.5 MMscf/day

Maximum Hourly Throughput: 13.5 MMscf/day (daily)	Maximum Annual Throughput: 4,928 MMscf/yr	Maximum Operating Schedule: 8,760 hrs/yr
---	---	--

Fuel Usage Data (fill out all applicable fields)

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

Maximum design heat input and/or maximum horsepower rating: N/A	Type and Btu/hr rating of burners: N/A
---	--

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 daily wet gas throughput = 13.5 MMscf/day
 - Maximum annual wet gas throughput = 4,928 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
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO _x)	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	N/A	N/A
Particulate Matter (PM ₁₀)	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO ₂)	N/A	N/A
Volatile Organic Compounds (VOC)	5.00	21.89
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Benzene	0.06	0.26
Ethylbenzene	0.04	0.16
n-Hexane	0.12	0.51
Toluene	0.11	0.47
Xylenes	0.33	1.44
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>Emission rates for the dehydration unit were obtained from GRI GLYCalc 4.0 with a 95% destruction efficiency from the flare. A safety factor of 20% is included in the total.</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 13 – Maximum wet natural gas throughput limit of 13.5 MMscf/day (TV 5.1.1; R13-2856B 5.1.1)
45 CSR 13 – Emission limits (TV 5.1.2; R13-2856B 5.1.2)
45 CSR 13 & 34 and 40 CFR Part 63 Subpart HH – Determining potential HAP emissions using methods in NESHAP Subpart HH (TV 5.1.3; R13-2856B 5.1.3)
45 CSR 10-4.1 – SO₂ emissions shall not exceed 2,000 ppm by volume (TV 5.1.9)
45 CSR 10-5.1 – H₂S emissions shall not exceed 50 gr/100 cf of gas (TV 5.1.10)
45 CSR 13 & 34 and 40 CFR Part 63 Subpart HH – Actual average emissions of benzene are less than 0.90 megagram per year (TV 5.1.13; R13-2856B 5.1.6)

____ 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 – Wet gas throughput shall be monitored on a monthly basis (TV 5.2.2; R13-2856B 5.2.2)
45 CSR 30-5.1(c) – SO₂ emissions shall be complied with by annual sampling of inlet natural gas stream (TV 5.2.4)
45 CSR 30-5.1(c) – H₂S emissions shall be complied with by annual sampling of inlet natural gas stream (TV 5.2.5)
45 CSR 13 & 34 and 40 CFR Part 63 Subpart HH – Benzene emissions shall be calculated using GRI-GYLCalc V3 or higher using inputs that are representative of actual operating conditions of the dehydration unit (TV 5.3.3; R13-2856B 5.3.3)
45 CSR 13 and 30-5.1.c – Maintain records of the wet gas throughput and annual sampling for SO₂ and H₂S (TV 5.4.4, 5.4.7, and 5.4.10; R13-2856 5.4.4 and 5.4.7)
45 CSR 13, 34, & and 30-5.1.c and 40 CFR Part 63 Subpart HH – Maintain records of benzene emissions (TV 5.4.6 and 5.4.10; R13-2856 5.4.6)

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

Emission unit ID number: 005-01	Emission unit name: EG01 Emergency Generator	List any control devices associated with this emission unit: N/A
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Natural gas-fired emergency generator

Manufacturer: Cummins/GM	Model number: Cummins: GGLA-6209497 GM: 8.1L	Serial number:
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Construction date: 12/2010	Installation date: 2011	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
192.5 hp

Maximum Hourly Throughput: 1,667 scf/hr	Maximum Annual Throughput: 0.83 MMscf/yr	Maximum Operating Schedule: 500 hrs/yr
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Fuel Usage Data (fill out all applicable fields)

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

Maximum design heat input and/or maximum horsepower rating: 192.5 HP	Type and Btu/hr rating of burners: 1.67 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.

Pipeline quality natural gas
 - Maximum hourly fuel usage = 1,667 scf/hr
 - Maximum annual fuel usage = 0.83 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

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.39	0.10
Nitrogen Oxides (NO _x)	0.03	0.01
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	0.02	< 0.01
Particulate Matter (PM ₁₀)	0.02	< 0.01
Total Particulate Matter (TSP)	0.03	0.01
Sulfur Dioxide (SO ₂)	< 0.01	< 0.01
Volatile Organic Compounds (VOC)	0.19	0.05
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	< 0.01	< 0.01
Acrolein	< 0.01	< 0.01
Benzene	< 0.01	< 0.01
Ethylbenzene	< 0.01	< 0.01
Formaldehyde	0.03	0.01
Toluene	< 0.01	< 0.01
Xylene	< 0.01	< 0.01
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <ul style="list-style-type: none"> - NO_x, CO, and VOC data taken from engine manufacturer's technical data sheet - PM, SO₂, and HAP emissions calculated from AP-42, Section 3.2, Natural Gas-Fired Reciprocating Engines, Table 3.2-3, 7/00 		

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 & 16 and 40 CFR Part 60 Subpart JJJJ – Comply with all applicable provisions (TV 6.1.2; R13-2856B, 4.1.2)

45 CSR 13 & 16 and 40 CFR Part 60 Subpart JJJJ – NSPS emission limits (TV 6.1.3; R13-2856B 4.1.3)

45 CSR 13 & 16 and 40 CFR Part 60 Subpart JJJJ – Install, operate and maintain engine to achieve emission limits and other applicable requirements (TV 6.1.4 and 6.1.5; R13-2856B 4.1.4 and 4.1.5)

45 CSR 13 – Emission limits (TV 6.1.7; R13-2856B 4.1.7)

45 CSR 13 – Limit emergency engine to 500 hours/yr (TV 6.1.8; R13-2856B 4.1.8)

____ 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 & 16 and 40 CFR Part 60 Subpart JJJJ - Purchase a certified engine to meet NSPS emission limits; maintain records of conducted maintenance (TV 6.1.6; R13-2856B 4.1.6)

45 CSR 13 & 16 and 40 CFR Part 60 Subpart JJJJ - Maintain all records of notifications, maintenance conducted, documentation from manufacturer, and engine certification (TV 6.4.2; R13-2856B 4.4.5)

45 CSR 13 – Maintain log of date, time, number of hours operated, and twelve-month rolling total of hours operated (TV 6.4.3; R13-2856B 4.4.6)

40 CFR Part 63 Subpart ZZZZ – Compliance with NSPS Subpart JJJJ shows compliance with NESHAP Subpart ZZZZ.

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

Emission unit ID number: 005-02	Emission unit name: EG02 Emergency Generator	List any control devices associated with this emission unit: N/A
---	---	--

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

Natural gas-fired emergency generator

Manufacturer: Cummins/GM	Model number: Cummins: GGLA-6209497 GM: 8.1L	Serial number:
------------------------------------	---	-----------------------

Construction date: 12/2010	Installation date: 2011	Modification date(s): N/A
--------------------------------------	-----------------------------------	-------------------------------------

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

Maximum Hourly Throughput: 1,667 scf/hr	Maximum Annual Throughput: 0.83 MMscf/yr	Maximum Operating Schedule: 500 hrs/yr
---	--	--

Fuel Usage Data (fill out all applicable fields)

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

Maximum design heat input and/or maximum horsepower rating: 192.5 HP	Type and Btu/hr rating of burners: 1.67 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.

Pipeline quality natural gas
 - Maximum hourly fuel usage = 1,667 scf/hr
 - Maximum annual fuel usage = 0.83 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

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.39	0.10
Nitrogen Oxides (NO _x)	0.03	0.01
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	0.02	< 0.01
Particulate Matter (PM ₁₀)	0.02	< 0.01
Total Particulate Matter (TSP)	0.03	0.01
Sulfur Dioxide (SO ₂)	< 0.01	< 0.01
Volatile Organic Compounds (VOC)	0.19	0.05
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	< 0.01	< 0.01
Acrolein	< 0.01	< 0.01
Benzene	< 0.01	< 0.01
Ethylbenzene	< 0.01	< 0.01
Formaldehyde	0.03	0.01
Toluene	< 0.01	< 0.01
Xylene	< 0.01	< 0.01
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <ul style="list-style-type: none"> - NO_x, CO, and VOC data taken from engine manufacturer's technical data sheet - PM, SO₂, and HAP emissions calculated from AP-42, Section 3.2, Natural Gas-Fired Reciprocating Engines, Table 3.2-3, 7/00 		

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 & 16 and 40 CFR Part 60 Subpart JJJJ – Comply with all applicable provisions (TV 6.1.2; R13-2856B, 4.1.2)

45 CSR 13 & 16 and 40 CFR Part 60 Subpart JJJJ – NSPS emission limits (TV 6.1.3; R13-2856B 4.1.3)

45 CSR 13 & 16 and 40 CFR Part 60 Subpart JJJJ – Install, operate and maintain engine to achieve emission limits and other applicable requirements (TV 6.1.4 and 6.1.5; R13-2856B 4.1.4 and 4.1.5)

45 CSR 13 – Emission limits (TV 6.1.7; R13-2856B 4.1.7)

45 CSR 13 – Limit emergency engine to 500 hours/yr (TV 6.1.8; R13-2856B 4.1.8)

____ 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 & 16 and 40 CFR Part 60 Subpart JJJJ - Purchase a certified engine to meet NSPS emission limits; maintain records of conducted maintenance (TV 6.1.6; R13-2856B 4.1.6)

45 CSR 13 & 16 and 40 CFR Part 60 Subpart JJJJ - Maintain all records of notifications, maintenance conducted, documentation from manufacturer, and engine certification (TV 6.4.2; R13-2856B 4.4.5)

45 CSR 13 – Maintain log of date, time, number of hours operated, and twelve-month rolling total of hours operated (TV 6.4.3; R13-2856B 4.4.6)

40 CFR Part 63 Subpart ZZZZ – Compliance with NSPS Subpart JJJJ shows compliance with NESHAP Subpart ZZZZ.

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

Emission unit ID number: 001-02	Emission unit name: EN02 Reciprocating Engine/Integral Compressor	List any control devices associated with this emission unit: 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

Manufacturer: Ajax	Model number: DPC-360	Serial number: 82943
Construction date: 1987	Installation date: 1987	Modification date(s): N/A

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

360 hp

Maximum Hourly Throughput: 0.003 MMscf/hr	Maximum Annual Throughput: 25.86 MMscf/yr	Maximum Operating Schedule: 8,760 hrs/yr
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> Direct Fired
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Maximum design heat input and/or maximum horsepower rating: 360 hp	Type and Btu/hr rating of burners: 8,200 Btu/hp-hr 0.003 MMscf/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 = 0.003 MMscf/hr
 - Maximum annual fuel usage = 25.86 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

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	2.38	10.43
Nitrogen Oxides (NO _x)	5.40	23.64
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	0.11	0.50
Particulate Matter (PM ₁₀)	0.11	0.50
Total Particulate Matter (TSP)	0.14	0.62
Sulfur Dioxide (SO ₂)	< 0.01	0.01
Volatile Organic Compounds (VOC)	2.34	10.25
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.02	0.10
Acrolein	0.02	0.10
Benzene	0.01	0.03
Ethylbenzene	< 0.01	< 0.01
Formaldehyde	0.16	0.71
Hexane	< 0.01	0.01
Toluene	< 0.01	0.01
Xylene	< 0.01	< 0.01
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
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.). <ul style="list-style-type: none"> - CO, NO_x, and VOC emission rates based on manufacturer specs. - PM₁₀, PM_{2.5}, SO₂, and HAP emission factors based on AP-42 Section 3.2, Table 3.2-1, 8/00. 		

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 7.1.2)

40 CFR Part 63 Subpart ZZZZ – NESHAP operating requirements (TV 7.1.3)

40 CFR Part 63 Subpart ZZZZ – NESHAP continuous compliance requirements (TV 7.1.4)

40 CFR Part 63 Subpart ZZZZ – NESHAP general requirements/provisions (TV 7.1.5)

____ 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 – Operate and maintain the RICE according to the manufacturer's instructions OR develop and follow your own maintenance plan (TV 7.2.1 (a))

40 CFR Part 63 Subpart ZZZZ – Minimize the engine's time spent at idling during startup, not to exceed 30 minutes (TV 7.2.1 (b))

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 one first, or utilize an oil analysis program (TV 7.1.2 and 7.2.1(c))

40 CFR Part 63 Subpart ZZZZ - Comply with all applicable recordkeeping requirements (TV 7.4.1)

40 CFR Part 63 Subpart ZZZZ – Keep records of maintenance on the stationary RICE (TV 7.4.2 and 7.4.3)

40 CFR Part 63 Subpart ZZZZ – Permit deviation reporting (TV 7.5.1)

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

Emission unit ID number: 001-03	Emission unit name: EN03 Reciprocating Engine/Integral Compressor	List any control devices associated with this emission unit: 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

Manufacturer: Ajax	Model number: DPC-800	Serial number: 8001
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Construction date: 1983	Installation date: 1983	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
800 hp

Maximum Hourly Throughput: 0.0064 MMscf/hr	Maximum Annual Throughput: 56.06 MMscf/yr	Maximum Operating Schedule: 8,760 hrs/yr
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> Direct Fired
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Maximum design heat input and/or maximum horsepower rating: 800 hp	Type and Btu/hr rating of burners: 8,000 Btu/hp-hr 0.0064 MMscf/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 = 0.0064 MMscf/hr
 - Maximum annual fuel usage = 56.06 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

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	5.47	23.95
Nitrogen Oxides (NO _x)	36.86	161.45
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	0.25	1.08
Particulate Matter (PM ₁₀)	0.25	1.08
Total Particulate Matter (TSP)	0.31	1.35
Sulfur Dioxide (SO ₂)	< 0.01	0.02
Volatile Organic Compounds (VOC)	5.03	22.02
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.05	0.22
Acrolein	0.05	0.22
Benzene	0.01	0.05
Ethylbenzene	< 0.01	< 0.01
Formaldehyde	0.35	1.55
Hexane	< 0.01	0.01
Toluene	0.01	0.03
Xylene	< 0.01	0.01
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
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.). <ul style="list-style-type: none"> - CO, NO_x, and VOC emission rates based on manufacturer specs. - PM₁₀, PM_{2.5}, SO₂, and HAP emission factors based on AP-42 Section 3.2, Table 3.2-1, 8/00. 		

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 7.1.2)

40 CFR Part 63 Subpart ZZZZ – NESHAP operating requirements (TV 7.1.3)

40 CFR Part 63 Subpart ZZZZ – NESHAP continuous compliance requirements (TV 7.1.4)

40 CFR Part 63 Subpart ZZZZ – NESHAP general requirements/provisions (TV 7.1.5)

____ 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 – Operate and maintain the RICE according to the manufacturer's instructions OR develop and follow your own maintenance plan (TV 7.2.1 (a))

40 CFR Part 63 Subpart ZZZZ – Minimize the engine's time spent at idling during startup, not to exceed 30 minutes (TV 7.2.1 (b))

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 one first, or utilize an oil analysis program (TV 7.1.2 and 7.2.1(c))

40 CFR Part 63 Subpart ZZZZ - Comply with all applicable recordkeeping requirements (TV 7.4.1)

40 CFR Part 63 Subpart ZZZZ – Keep records of maintenance on the stationary RICE (TV 7.4.2 and 7.4.3)

40 CFR Part 63 Subpart ZZZZ – Permit deviation reporting (TV 7.5.1)

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

Emission unit ID number: F3	Emission unit name: F3 Flare	List any control devices associated with this emission unit: N/A
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Dehydration Unit Flare

Manufacturer: Questor	Model number: Q100	Serial number:
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Construction date: 2015	Installation date: 2015	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

Flare Rating: 71.2 scfm
 Pilot Burner: 52,500 Btu/hr

Maximum Hourly Throughput: Fuel to pilot flame: 50 scf/hr	Maximum Annual Throughput: Fuel to pilot flame: 0.438 MMscf/yr	Maximum Operating Schedule: 8760 hrs/yr
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> Direct Fired
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Maximum design heat input and/or maximum horsepower rating: Flare Rating: 71.2 scfm Pilot Burner: 52,500 Btu/hr	Type and Btu/hr rating of burners: Flare Rating: 71.2 scfm Pilot Burner: 52,500 Btu/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.

Natural gas

- Maximum hourly fuel to pilot throughput = 50 scf/hr
- Maximum annual fuel to pilot throughput = 0.438 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

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.01	0.05
Nitrogen Oxides (NO _x)	0.20	0.87
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	0.12	0.53
Particulate Matter (PM ₁₀)	0.12	0.53
Total Particulate Matter (TSP)	0.12	0.53
Sulfur Dioxide (SO ₂)	N/A	N/A
Volatile Organic Compounds (VOC)	< 0.01	< 0.01
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Benzene	< 0.01	< 0.01
Formaldehyde	< 0.01	< 0.01
n-Hexane	< 0.01	< 0.01
Toluene	< 0.01	< 0.01
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>Emissions were added together for the pilot and combustor:</p> <p><u>Pilot:</u></p> <ul style="list-style-type: none"> - PM, SO₂ and VOC emission factors based on AP-42, Section 1.4, Natural Gas Combustion, Table 1.4-2, 7/98. - HAP emission factors based on AP-42, Section 1.4, Natural Gas Combustion, Table 1.4-3, 7/98. <p><u>Combustor:</u></p> <ul style="list-style-type: none"> - NO_x and CO emission rates based on vendor specifications: maximum flowrate = 102.5 Mscf/day; waste to fuel gas ratio of 1:0.1. - PM emission factor based on AP-42, Section 13.5, Industrial Flares, Table 13.5-1 for soot, assuming lightly smoking flare (40 ug/L). According to May 2011 Emission Estimation Protocol for Petroleum Refineries, approved by the US EPA on March 28, 2011, 40 ug/L is equivalent to 0.027 lb/MMBtu, assuming 3% O₂ in exhaust gas stream. 		

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.

Requirements are listed under Attachment G – Air Pollution Control Device Form.

____ 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.)

Requirements are listed under Attachment G – Air Pollution Control Device Form.

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

Emission unit ID number: RBR02	Emission unit name: RBR02 Reboiler	List any control devices associated with this emission unit: N/A
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Natural gas-fired reboiler

Manufacturer: Cameron (Natco)	Model number: 5GR-750	Serial number:
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Construction date:	Installation date: 2011	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
1.104 MMBtu/hr

Maximum Hourly Throughput: 895 cf/hr	Maximum Annual Throughput: 7.84 MMscf/yr	Maximum Operating Schedule: 8,760 hrs/yr
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Fuel Usage Data (fill out all applicable fields)

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

Maximum design heat input and/or maximum horsepower rating: 1.104 MMBtu/hr	Type and Btu/hr rating of burners: 1.104 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 = 895 cf/hr
- Maximum annual fuel usage = 7.84 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

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.08	0.35
Nitrogen Oxides (NO _x)	0.10	0.44
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	<0.01	0.01
Particulate Matter (PM ₁₀)	<0.01	0.01
Total Particulate Matter (TSP)	0.01	0.03
Sulfur Dioxide (SO ₂)	< 0.01	< 0.01
Volatile Organic Compounds (VOC)	0.05	0.22
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Benzene	< 0.01	< 0.01
Formaldehyde	< 0.01	< 0.01
n-Hexane	< 0.01	0.01
Naphthalene	< 0.01	< 0.01
Toluene	< 0.01	<0.01
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
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.). <ul style="list-style-type: none"> - NO_x, CO, and VOC emission factors from Dominion Spec Sheet dated 1/3/2011. - PM, PM₁₀, PM_{2.5}, and SO₂ emission factors from AP-42, Section 1.4, Natural Gas Combustion, Table 1.4-2, 7/98. - HAP emission factors from AP-42, Section 1.4, Natural Gas Combustion, Tables 1.4-3, 4, 7/98. 		

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 limit of less than ten (10) percent (TV 4.1.1)

____ 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 -- Opacity readings will be conducted 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		
Control device ID number: F3	List all emission units associated with this control device. DEHY02	
Manufacturer: Questor	Model number: Q100	Installation date: 2015
Type of Air Pollution Control Device:		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input type="checkbox"/> Baghouse/Fabric Filter</div> <div style="width: 33%;"><input type="checkbox"/> Venturi Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Multiclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Bed Adsorber</div> <div style="width: 33%;"><input type="checkbox"/> Packed Tower Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Single Cyclone</div> <div style="width: 33%;"><input type="checkbox"/> Carbon Drum(s)</div> <div style="width: 33%;"><input type="checkbox"/> Other Wet Scrubber</div> <div style="width: 33%;"><input type="checkbox"/> Cyclone Bank</div> <div style="width: 33%;"><input type="checkbox"/> Catalytic Incinerator</div> <div style="width: 33%;"><input type="checkbox"/> Condenser</div> <div style="width: 33%;"><input type="checkbox"/> Settling Chamber</div> <div style="width: 33%;"><input type="checkbox"/> Thermal Incinerator</div> <div style="width: 33%;"><input checked="" type="checkbox"/> Flare</div> <div style="width: 33%;"><input type="checkbox"/> Other (describe) _____</div> <div style="width: 33%;"><input type="checkbox"/> Wet Plate Electrostatic Precipitator</div> <div style="width: 33%;"><input type="checkbox"/> Dry Plate Electrostatic Precipitator</div> </div>		
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.). QTI dehydration unit flare 71.2 scf/min, non-assisted burner		
Is this device subject to the CAM requirements of 40 C.F.R. 64? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
If Yes, Complete ATTACHMENT H		
If No, Provide justification. The dehy unit (DEHY02) is not subject to CAM since it is subject to NESHAP Subpart HH, which has provisions for compliance monitoring established after 1990. Per 64.2(b)(1)(i), “ <i>emission limitations or standards proposed by the Administrator after November 15, 1990 pursuant to section 111 or 112 of the Act</i> ” are exempt from CAM. CAM was established to build in provisions for how compliance would be demonstrated for emission limits if not adequately covered by a NSPS or NESHAP rule.		
In addition, for VOC purposes, the dehy unit is not subject to CAM per 64.2(b)(1)(vi), which states “ <i>emission limitations or standards for which a part 70 or 71 permit specified a continuous compliance determination method, as defined in 64.1</i> ” is exempt from CAM. Since the R13 permit for the facility (R13-2856B) specifies a “continuous compliance determination method” condition (e.g continuously monitoring the flare using a thermocouple to detect the presence of a flame) and that R13 condition was rolled into the Title V permit, CAM does not apply.		

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

45 CSR 13 – Emission limits (TV 5.1.2; R13-2856B 5.1.2)
45 CSR 13 & 6-4.3 – Operation and design of the flare (TV 5.1.4, R13-2856B 5.1.4)
45 CSR 13 – Conduct a flare design evaluation (TV 5.1.5; R13-2856B 5.1.5)
45 CSR 6-4.1 – Particulate Matter emission limit (TV 5.1.6)
45 CSR 6-4.5 – Incinerator particles in the open air requirements (TV 5.1.7)
45 CSR 6-4.6 – Incinerator odor prevention requirements (TV 5.1.8)

Monitoring

45 CSR 13 & 30-5.1.c – Monitor the presence or absence of the flare pilot flame using a thermocouple (TV 5.2.1; R13-2856B 5.2.1)
45 CSR 30-5.1c – Conduct monthly visible emission observations (TV 5.2.3)

Testing

45 CSR 13 – Conduct an initial Method 22 opacity test within one (1) year of permit issuance or initial startup of the flare, whichever is later (TV 5.3.1; R13-2856B 5.3.1)
45 CSR 13 – Flare compliance assessment shall be conducted if required (TV 5.3.2; R13-2856B 5.3.2)

Recordkeeping

45 CSR 13 – Records of the times and duration of all periods which the pilot flame was absent (TV 5.4.1 and 5.4.3; R13-2856B 5.4.1 and 5.4.3)
45 CSR 13 – Records of the flare design evaluation (TV 5.4.2, R13-2856B 5.4.2)
45 CSR 13 & 30-5.1.c – Records of visible emission observations and initial Method 22 (TV 5.4.5; R13-2856B 5.4.5)

Reporting

45 CSR 13 – Reporting of deviations of visible emission and opacity observations (TV 5.5.2; R13-2856B 5.5.2)
45 CSR 13 – Reporting of any deviation from the flare design and operation criteria (TV 5.5.3; R13-2856B 5.5.3)
45 CSR 13 – Reporting of violations of visible emission and opacity observations (TV 5.5.4; R13-2856B 5.5.4)

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) ^a 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	^b EMISSION LIMITATION or STANDARD	^c MONITORING REQUIREMENT
Request to delete the CAM Plan as the unit is subject to NESHAP Subpart HH, which has provisions for compliance monitoring established after 1990 (per 64.2(b)(1)(i)). In addition, for VOC purposes, the facility is not subject to CAM per 64.2(b)(1)(vi) since the Title V permit specifies a "continuous compliance determination method" condition.					
<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

^a 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).

^b 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).

^c Indicate the monitoring requirements for the PSEU that are required by an applicable regulation or permit condition.