



October 22, 2015

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

7014 3490 0000 0448 4587

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

**RE: Dominion Transmission, Inc. – Title V Renewal Application
Camden Compressor Station – R30-04100010-2011**

Dear Mr. Durham:

Enclosed please find the Title V Renewal Application for Dominion Transmission, Inc.'s Camden Compressor Station, Permit No. R30-04100010-2011. 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 Camden Station:

- Equipment removed from the facility
 - CPR01 – Air Compressor; Wisconsin; 4SRB SI engine
 - TK05 – 2,000 gal Horizontal Aboveground Storage Tank (Produced Fluids)
- Equipment added to the facility:
 - TK08 – 8,000 gal Horizontal Aboveground Storage Tank (Produced Fluids)

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

- Section 6.0 – Emergency Generators

We request that the G60-C014 requirements be spelled out and included in the Title V permit (instead of just attached to the Title V permit) to improve clarity and ensure compliance. Therefore, all requirements for the facility will be in one permit (Title V).

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

Sincerely,

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

Amanda B. Tornabene
Director, Gas Environmental Services

**CAMDEN COMPRESSOR STATION
DOMINION TRANSMISSION INC.
APPLICATION FOR TITLE V OPERATING PERMIT RENEWAL
TITLE V OPERATING PERMIT NO: R30-04100010-2011**

Dominion Transmission, Inc.
Camden Compressor Station
Route 2
Camden, WV 26338

OCTOBER 2015

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

TITLE V 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) 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:

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

Camden Station has the potential to emit in excess of 100 tons per year of nitrogen oxides (NO_x) and 100 tons per year of volatile organic compounds (VOCs). The station 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. Camden 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.

Camden Station was originally issued a Title V Operating Permit (Permit No: R30-04100010-2006) in 2006 for a period of five (5) years, with an expiration date of August 25, 2011. Camden Station is also subject to the underlying State Operating Permit (Rule 13 Permit No: R13-2792) and General Permit (Permit No: G60-C014). The Title V operating permit is for the operation of five (5) 660 hp natural gas fired reciprocating engines (EN01 – EN05), one (1) glycol dehydrator system (DEHY01) with flare (F1), one (1) dehydration unit reboiler (RBR01), one (1) 475 hp emergency generator (EG01), and seven (7) above ground storage tanks of various sizes (TK01 – TK04 and TK06 - TK08).

The last Title V renewal application was submitted in 2010, with the Title V Operating Permit Renewal being issued on April 26, 2011, with an expiration date of April 26, 2016.

PROCESS DESCRIPTION

Camden Station is a compressor facility that services a natural gas pipeline system. The compressor engines (EN01 – EN05) 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 (DEHY01). The dehydration unit removes moisture and impurities from the gas stream. Emergency backup power is supplied by emergency generator (EG01).

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 (RBR01), 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 (DEHY01) using the heat generated from the natural gas-fired reboiler (RBR01) to liberate the moisture and hydrocarbon vapors. The regenerator vapors are vented to the flare (F1) to combust the hydrocarbons; thereby, reducing overall emissions and odor. The flare is permitted with a destruction efficiency of 95%. The compressed, dehydrated gas then enters the pipeline.

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

Five (5) 660 hp Cooper GMXE-8 natural gas-fired reciprocating engines/integral compressors

- Emission unit ID: EN01, EN02, EN03, EN04, and EN05
- Emission point ID: EN01, EN02, EN03, EN04, and EN05

One (1) 475 hp Cummins GTA 19 GS2 emergency generator

- Emission unit ID: EG01
- Emission point ID: EG01

One (1) 1.0 MMBtu/hr NATCO natural gas-fired dehydration unit reboiler

- Emission unit ID: RBR01
- Emission point ID: RBR01

One (1) 27.6 MMscf/day dehydration unit/still column

- Emission unit ID: DEHY01
- Emission point ID: DEHY01

One (1) 10 MMBtu/hr dehydration unit controlled flare

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

One (1) 2730 gallon vertical aboveground triethylene glycol storage tank

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

One (1) 2730 gallon vertical aboveground used oil storage tank

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

One (1) 4200 gallon vertical aboveground ethylene glycol storage tank

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

One (1) 2100 gallon vertical aboveground ethylene glycol storage tank

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

One (1) 2730 gallon vertical aboveground wastewater storage tank

- Emission unit ID: TK06
- Emission point ID: TK06

One (1) 7000 gallon horizontal aboveground lube oil storage tank

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

One (1) 8000 gallon horizontal aboveground process fluids storage tank

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

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 (As registered with the WV Secretary of State's Office): Dominion Transmission, Inc. 2. Facility Name or Location: Camden Station 3. DAQ Plant ID No.: 0 4 1 — 0 0 0 1 0 4. Federal Employer ID No. (FEIN): 5 5 0 6 2 9 2 0 3 5. Permit Application Type: [X] Permit Renewal When did operations commence? 1972 What is the expiration date of the existing permit? 04/26/2016 6. Type of Business Entity: [X] Corporation [] Governmental Agency [] LLC [] Partnership [] Limited Partnership 7. Is the Applicant the: [] Owner [] Operator [X] Both 8. Number of onsite employees: 0 9. Governmental Code: [X] Privately owned and operated; 0 [] County government owned and operated; 3 [] Federally owned and operated; 1 [] Municipality government owned and operated; 4 [] State government owned and operated; 2 [] District government owned and operated; 5 10. Business Confidentiality Claims Does this application include confidential information (per 45CSR31)? [] Yes [X] No

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: Route 2	City: Camden	County: Lewis
UTM Easting: 534.84 km	UTM Northing: 4,323.27 km	Zone: <input checked="" type="checkbox"/> 17 or <input type="checkbox"/> 18
Directions: From Interstate 79 North, take the Weston exit. Turn left on Route 33 West through Weston. Turn left onto Smith Run Road and travel 1.5 miles. Turn left onto gravel road and proceed 0.3 miles to station on the left.		
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 Area ¹ ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, name the area(s). Dolly Sobs Wilderness Area Otter Creek Wilderness Area	
If no, do emissions impact a Class I Area ¹ ? <input type="checkbox"/> Yes <input type="checkbox"/> No		
¹ Class I areas include Dolly Sobs 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.

Camden Station is a compressor facility that services a natural gas pipeline system. The compressor engines (EN01 – EN05) at the facility receive natural gas flowing through a valve on the pipeline and recompresses 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 (DEHY01). 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 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 checked="" 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>40 CFR Subpart JJJJ – The compressor engines (EN01 – EN05) are not subject to this subpart since they were installed in 1962 and 1964, 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 tanks, gas wells, centrifugal compressors, reciprocating compressors, 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 (RBR01) 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 (RBR01) 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)
45 CSR 6-3.2 – Open burning exemption (TV 3.1.2)
40 CFR Part 61 and 45 CSR 34 – Asbestos inspection and removal (TV 3.1.3)
State Only: 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) – The 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)
State Only: 45 CSR 17-3.1 – Fugitive particulate matter (TV 3.1.10)
45 CSR 13 – Minor source of HAP (TV 3.1.11; R13-2792 4.1.2)

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 34 – 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 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 CSR 17 – The permittee will limit fugitive emissions from the facility by burning only pipeline quality natural gas (TV 3.1.10)
45 CSR 13 – The permittee shall maintain minor source of HAP status (TV 3.1.11; R13-2792 4.1.2)
45 CSR 13 and WV Code 22-5-4 (a) (15) – Testing requirements (TV 3.3.1)
45 CSR 30 – Recordkeeping Requirements (TV 3.4)
45 CSR 30 – Reporting Requirements (TV 3.5)
45 CSR 30 - The permittee shall submit a certified emissions statement and pay fees annually (TV 3.5.4)
45 CSR 30 - The permittee shall submit semi-annual monitoring reports (TV 3.5.6)

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>)
R13-2792	03/04/2009	N/A
G60-C014	12/04/2009	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)	98.09
Nitrogen Oxides (NO _x)	647.08
Lead (Pb)	N/A
Particulate Matter (PM _{2.5}) ¹	4.56
Particulate Matter (PM ₁₀) ¹	4.56
Total Particulate Matter (TSP)	5.77
Sulfur Dioxide (SO ₂)	0.07
Volatile Organic Compounds (VOC)	197.47
Hazardous Air Pollutants ²	Potential Emissions
Acetaldehyde	0.92
Acrolein	0.92
Benzene	0.75
Ethylbenzene	0.32
Formaldehyde	6.55
Hexane	0.39
Toluene	1.02
Xylene	1.59
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 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 checked="" 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 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"/>	19. Emission units which do not have any applicable requirements and which emit criteria pollutants (CO, NO _x , SO ₂ , 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: _____ _____ _____ _____ _____ _____ _____ _____

24. Insignificant Activities (Check all that apply)	
<input type="checkbox"/>	20. Emission units which do not have any applicable requirements and which emit hazardous air pollutants into the atmosphere at a rate of less than 0.1 pounds per hour and less than 1,000 pounds per year aggregate total for all HAPs from all emission sources. This limitation cannot be used for any source which emits dioxin/furans nor for toxic air pollutants as per 45CSR27. Please specify all emission units for which this exemption applies along with the quantity of hazardous air pollutants emitted on an hourly and annual basis: _____ _____ _____ _____ _____
<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 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 checked="" 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: 
(Must be signed and dated in blue ink)

Signature Date: 10/19/15

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

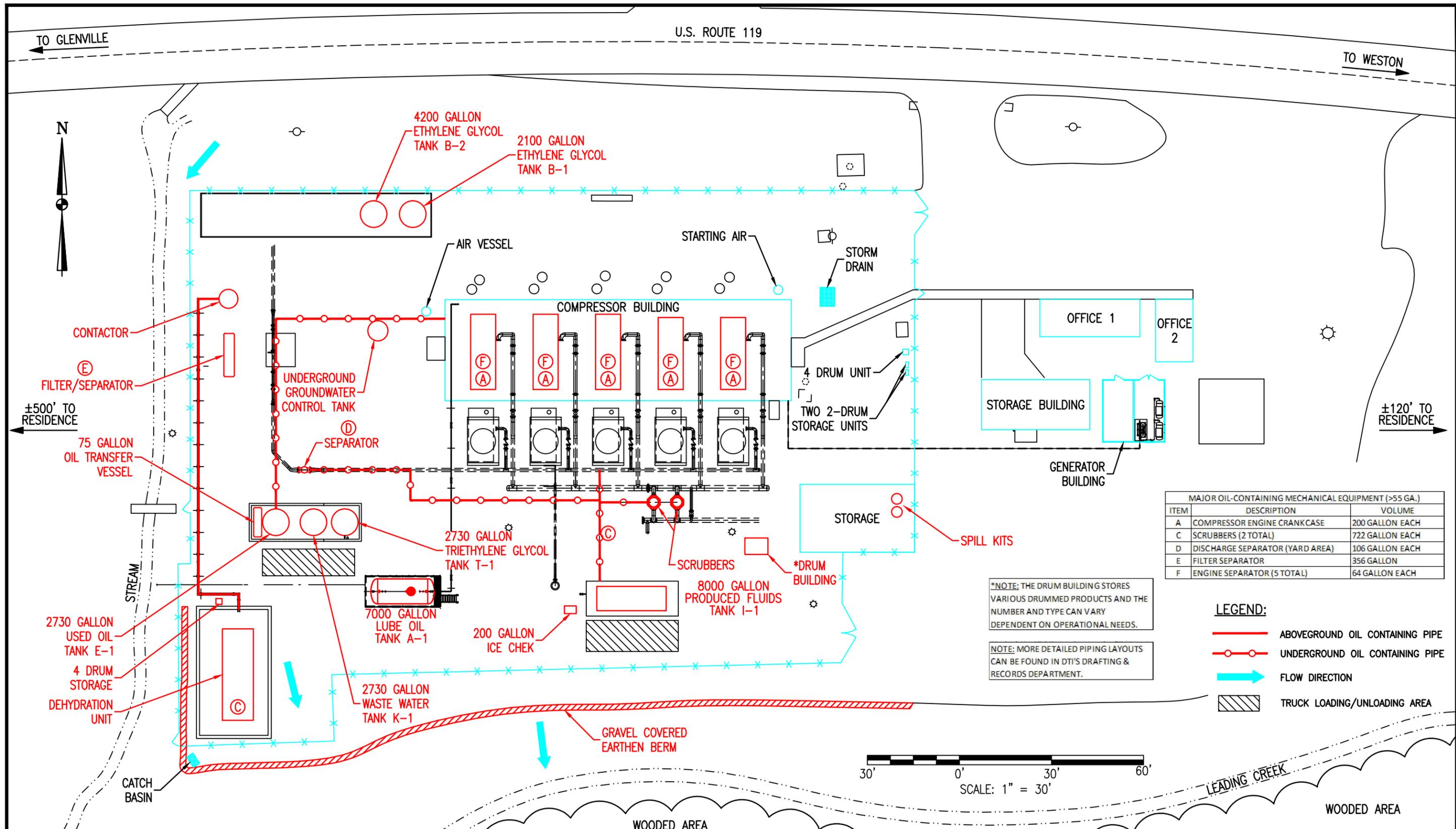
Attachment A

Area Map



Attachment B

Plot Plan

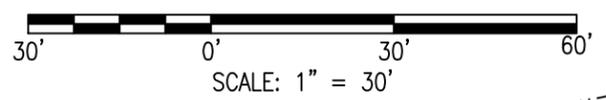


MAJOR OIL-CONTAINING MECHANICAL EQUIPMENT (>55 GA.)		
ITEM	DESCRIPTION	VOLUME
A	COMPRESSOR ENGINE CRANK CASE	200 GALLON EACH
C	SCRUBBERS (2 TOTAL)	722 GALLON EACH
D	DISCHARGE SEPARATOR (YARD AREA)	106 GALLON EACH
E	FILTER SEPARATOR	356 GALLON
F	ENGINE SEPARATOR (5 TOTAL)	64 GALLON EACH

*NOTE: THE DRUM BUILDING STORES VARIOUS DRUMMED PRODUCTS AND THE NUMBER AND TYPE CAN VARY DEPENDENT ON OPERATIONAL NEEDS.

NOTE: MORE DETAILED PIPING LAYOUTS CAN BE FOUND IN DTI'S DRAFTING & RECORDS DEPARTMENT.

- LEGEND:**
- ABOVEGROUND OIL CONTAINING PIPE
 - o-o- UNDERGROUND OIL CONTAINING PIPE
 - FLOW DIRECTION
 - TRUCK LOADING/UNLOADING AREA



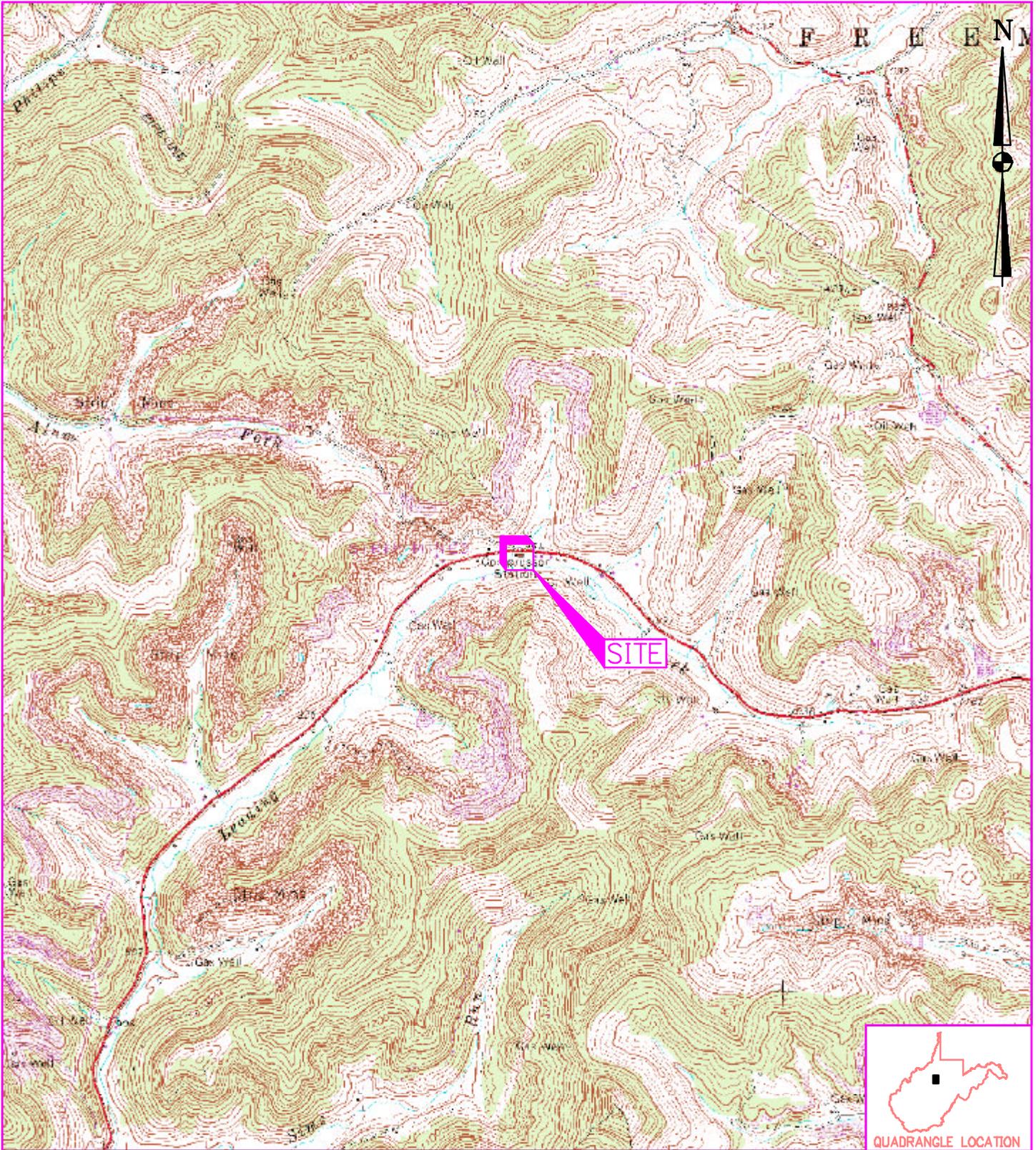
SYM.	DATE	BY	REVISION DESCRIPTION	PRJ/TSK	APP.	SCALE	DATE
						1" = 30'	
						DRAWN	
4	09/15/15	TBB	ADDED ABOVEGROUND PIPING, DRUM STORAGE UNITS, & REVISED TABLE			CHECKED	
3	08/27/15	TBB	ADDED UNDERGROUND PIPING AND OTHER MINOR REVISIONS PER TIM JACKSON			APP. FOR BID	
2	10/13/14	TBB	SCALED, ADDED BAR SCALE, & ADDED ADJACENT PROPERTIES			APP. FOR CONST.	
1	12/01/10	JDB	PER RUSS EVANS MARK UPS			TOWN: FREEMANS CREEK, WV	COUNTY: LEWIS

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

FOR: **CAMDEN COMPRESSOR STATION**

TITLE: **ENVIRONMENTAL EMERGENCY SITE PLAN**

DIR: DOCUMENTUM	GROUP: PD	DWG. NO.: X4154K	REV.: 4
FILE:	PRJ/TSK:		



REFERENCE: USGS 7.5' QUADRANGLE MAP OF: CAMDEN, WEST VIRGINIA; DATED 1964, PHOTOREVISED 1976.

DRAWN BY	DJF
DATE	
CHECKED BY	
SET JOB NO.	205032
SET DWG FILE	CAMDENm01.dwg
DRAWING SCALE	1" = 2000'



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

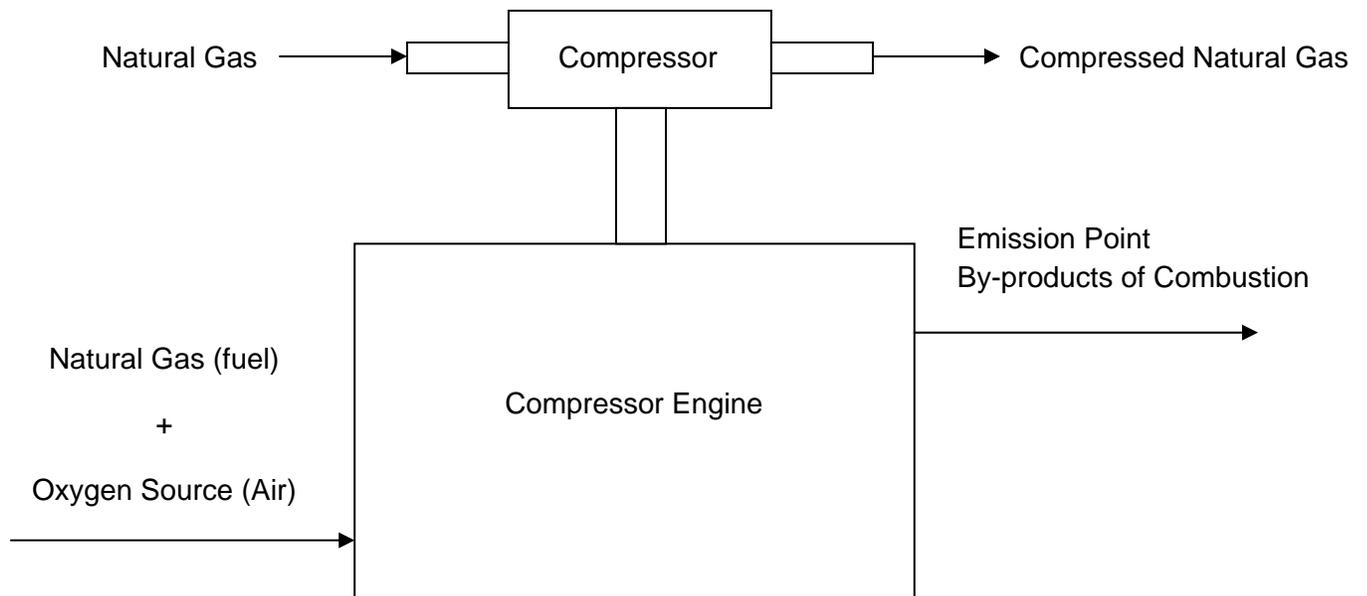
DOMINION TRANSMISSION	
CAMDEN COMPRESSOR STATION FREEMANS CREEK DISTRICT LEWIS COUNTY, WEST VIRGINIA SITE LOCATION MAP	
DRAWING NO.	FIGURE 1
REV.	0

Attachment C

Process Flow Diagrams

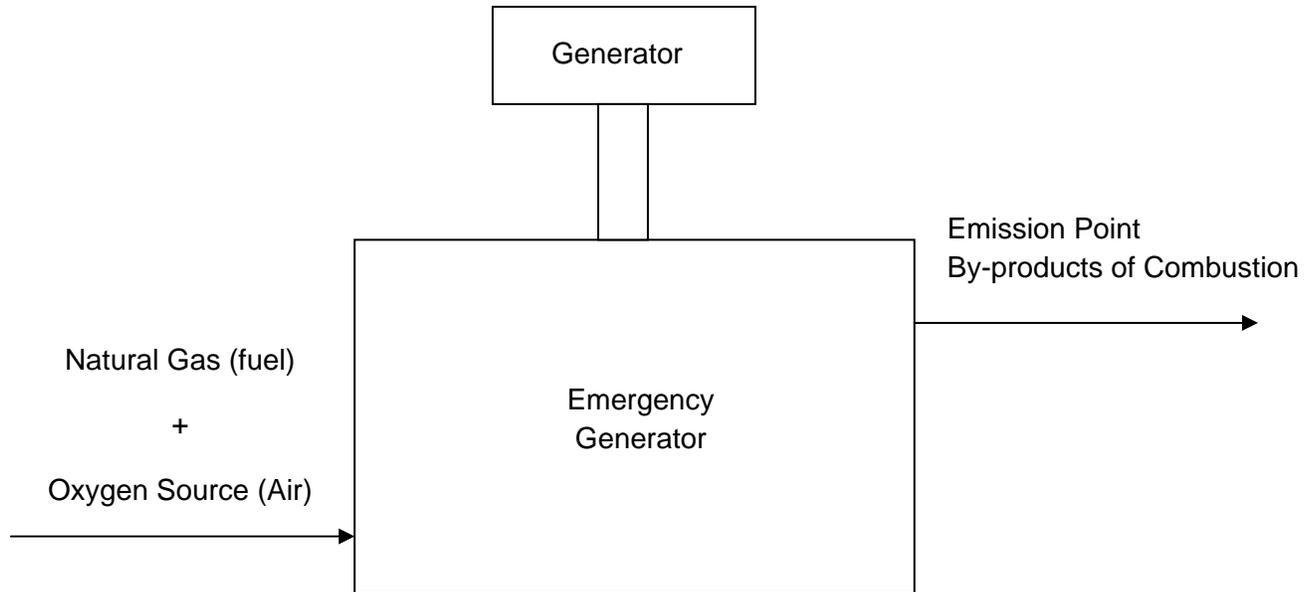
Dominion Transmission, Inc.
Camden Compressor Station

Compressor Engines (EN01 – EN05) Process Flow Diagram



Dominion Transmission, Inc.
Camden Compressor Station

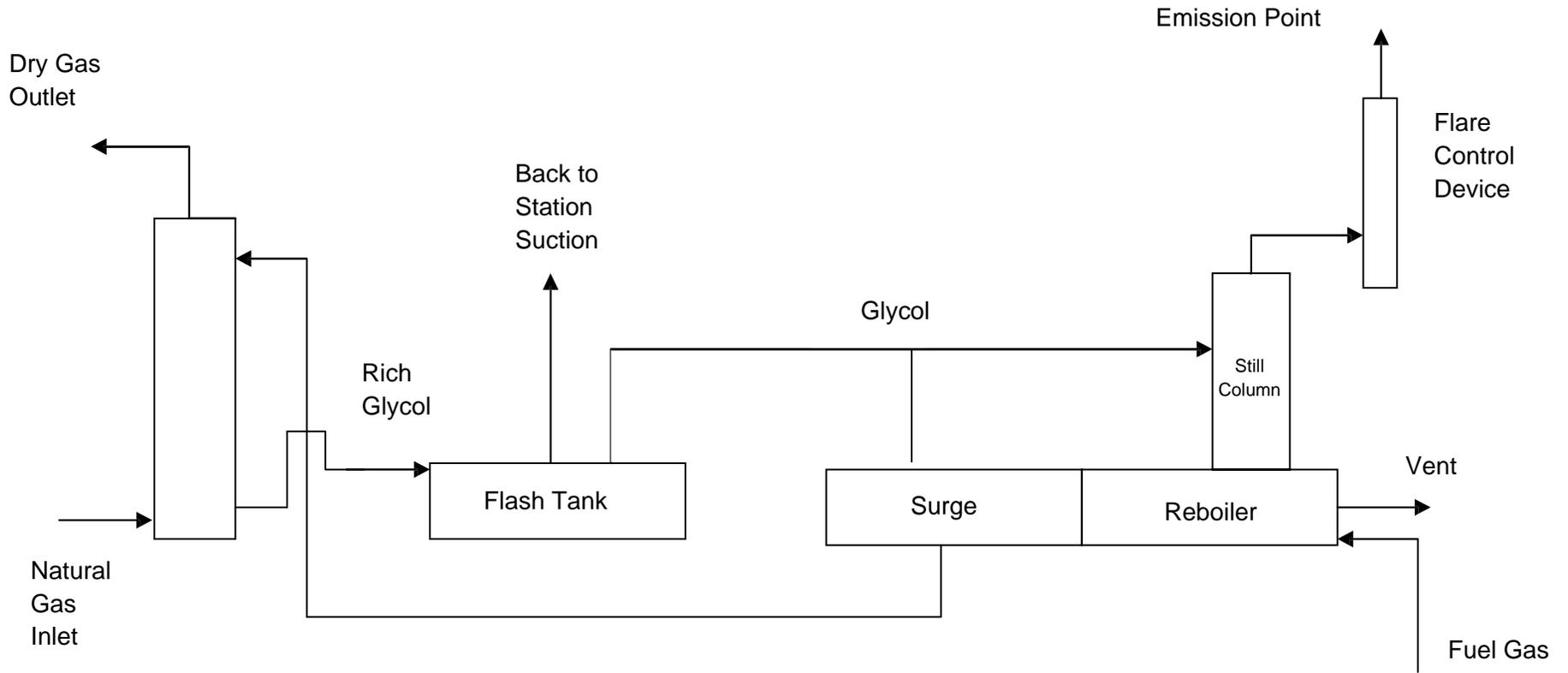
Emergency Generator (EG01) Process Flow Diagram



Dominion Transmission, Inc.

Camden Compressor Station

Dehydration Unit (F1, DEHY01, and RBR01) 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
EN01	N/A	EN01	Reciprocating Engine/Integral Compressor; Cooper GMXE-8; 2SLB SI engine	660 hp	1962
EN02	N/A	EN02	Reciprocating Engine/Integral Compressor; Cooper GMXE-8; 2SLB SI engine	660 hp	1962
EN03	N/A	EN03	Reciprocating Engine/Integral Compressor; Cooper GMXE-8; 2SLB SI engine	660 hp	1964
EN04	N/A	EN04	Reciprocating Engine/Integral Compressor; Cooper GMXE-8; 2SLB SI engine	660 hp	1964
EN05	N/A	EN05	Reciprocating Engine/Integral Compressor; Cooper GMXE-8; 2SLB SI engine	660 hp	1964
RBR01	F1	RBR01	Glycol Dehydration Unit Reboiler	1.0 MMBtu/hr	2009
DEHY01	F1	DEHY01	Glycol Dehydration Unit Still Column	27.6 MMscf/day	2009
F1	N/A	F1	Glycol Dehydration Unit Flare	10 MMBtu/hr	2009
EG01	N/A	EG01	Emergency Generator – Cummins GTA 19 G2	475 hp	2009
TK01	N/A	TK01	Vertical Aboveground Storage Tank – Triethylene Glycol	2,730 gallon	1991
TK02	N/A	TK02	Vertical Aboveground Storage Tank – Used Oil	2,730 gallon	1991
TK03	N/A	TK03	Vertical Aboveground Storage Tank – Ethylene Glycol	4,200 gallon	1991
TK04	N/A	TK04	Vertical Aboveground Storage Tank – Ethylene Glycol	2,100 gallon	1962
TK06	N/A	TK06	Vertical Aboveground Storage Tank –Wastewater	2,730 gallon	1962
TK07	N/A	TK07	Horizontal Aboveground Storage Tank –Lube Oil	7,000 gallon	2003

New units (updates) to equipment list:

TK08	N/A	TK08	Horizontal Aboveground Storage Tank – Produced Fluids	8,000 gallon	2011
------	-----	------	--	--------------	------

Units that have been removed:

CPR01	N/A	CPR01	Air Compressor; Wisconsin; 4SRB SI engine	15 hp	1972
TK05	N/A	TK05	Horizontal Aboveground Storage Tank – Produced Fluids	2,000 gallon	2003

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: DEHY01	Emission unit name: DEHY01 Dehydration Unit	List any control devices associated with this emission unit: F1
---	--	---

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

Dehydration unit still column

Manufacturer: NATCO	Model number: 450/750	Serial number:
Construction date: 2009	Installation date: 2009	Modification date(s): N/A

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

27.6 MMscf /day

Maximum Hourly Throughput: 27.6 MMscf /day	Maximum Annual Throughput: 10,074 MMscf/yr	Maximum Operating Schedule: 8760 hrs/yr
--	--	---

Fuel Usage Data (fill out all applicable fields)

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

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

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 = 27.6 MMscf/day
 - Maximum annual wet gas usage = 10,074 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

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.25	1.08
Nitrogen Oxides (NO _x)	0.05	0.20
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	< 0.01
Sulfur Dioxide (SO ₂)	< 0.01	< 0.01
Volatile Organic Compounds (VOC)	4.86	21.28
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Benzene	0.12	0.52
Ethylbenzene	0.07	0.31
n-Hexane	0.08	0.33
Toluene	0.21	0.90
Xylenes	0.36	1.55
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>VOC and HAP emission rates for the dehydration unit were obtained from GRI GLYCalc V4.0 with a 95% destruction efficiency NO_x, CO, and VOC emission factors for the flare were obtained from Table 13.5-1 of AP-42</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 – The maximum wet natural gas shall not exceed 27.6 MMcf/day (TV 5.1.9, R13-2792 5.1.1)
- 45 CSR 13 – Maximum Emission Limits (TV 5.1.10, R13-2792 5.1.2)
- 40 CFR 63.764(a) – Compliance with 40 CFR, Part 63, Subpart A, as listed in Table 2 of 40 CFR, Part 63, Subpart HH (TV 5.1.12)
- 40 CFR 63.760(f)(6) – Compliance with 40 CFR, Part 63, Subpart HH is required upon initial start-up (TV 5.1.13)
- 45 CSR 13 – 40 CFR 63 Subpart HH Benzene exemption requirements (TV 5.1.14, R13-2792 6.1.1)
- 45 CSR 13 – Compliance with TV 5.1.14 shall be achieved by meeting conditions a, b, and c of this condition (TV 5.1.15, R13-2792 6.1.2)

____ 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 - Compliance with TV 5.1.5 will be demonstrated by using GLYCalc V3 or higher and monitoring actual operating parameters (TV 5.2.1, R13-2792 5.3.3)
- 45 CSR 30-5.1(c) – SO₂ emissions shall be complied with by annual sampling of inlet natural gas stream (TV 5.2.3)
- 45 CSR 30-5.1(c) – H₂S emissions shall be complied with by annual sampling of inlet natural gas stream (TV 5.2.4)
- 45 CSR 13 – Wet Gas Throughput shall be monitored on a monthly basis (TV 5.2.6, R13-2792 5.2.2)
- 45 CSR 30-5.1.c – Wet Gas Sampling (TV 5.3.1)
- 40 CFR 63.772(b)(2) – Procedures for determining benzene emissions for exemption under 40 CFR 63.764(e)(1) (TV 5.3.3)
- 45 CSR 13 – Facility-wide HAP emission calculations shall be maintained to demonstrate compliance with TV 5.1.5 (TV 5.4.8, R13-2792 5.4.6)
- 45 CSR 13 – Wet gas throughput records shall be maintained to demonstrate compliance with TV 5.2.6 (TV 5.4.9, R13-2792 5.4.7)
- 45 CSR 13 – Records for TV conditions 5.4.3 through 5.4.10 shall be maintained and made available for inspection (TV 5.4.10, R13-2792 5.4.8)
- 45 CFR 63.774(d)(1)(ii) – Maintain records of the actual benzene emissions (TV 5.4.11)
- 45 CSR 30-5.1.c – Reporting of sampling results for TV 5.3.1 (TV 5.5.2)

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: EG01	Emission unit name: 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 auxiliary generator

Manufacturer: Cummins	Model number: GTA 19 G2	Serial number: 25341415
---------------------------------	-----------------------------------	-----------------------------------

Construction date: 2009	Installation date: 2009	Modification date(s): N/A
-----------------------------------	-----------------------------------	-------------------------------------

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

475 hp / 1800 rpm

Maximum Hourly Throughput: 4,200 cf/hr	Maximum Annual Throughput: 2.10 MMcf/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: 475 hp / 1800 rpm	Type and Btu/hr rating of burners: 4.28 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 = 4,200 cf/hr
 - Maximum annual fuel usage = 2.10 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

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	4.19	1.05
Nitrogen Oxides (NO _x)	2.09	0.52
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	0.04	0.01
Particulate Matter (PM ₁₀)	0.04	0.01
Total Particulate Matter (TSP)	0.08	0.02
Sulfur Dioxide (SO ₂)	< 0.01	< 0.01
Volatile Organic Compounds (VOC)	1.05	0.26
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	0.09	0.02
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"> - CO, NO_x, and VOC emission rates were based on manufacturer's technical data sheet. - All other emission rates were based off of USEPA's AP-42, Section 3.2, Natural Gas-Fired Reciprocating Engines, 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 – Operate and maintain according to manufacturer (G60-C014 5.1.1)
- 45 CSR 13 – Emission limits (TV 6.1.1, G60-C014 5.1.2)
- 45 CSR 13 – Maximum fuel consumption (G60-C014 5.1.3)
- 40 CFR Part 60 Subpart JJJJ – NSPS emission limits (G60-C014 8.2.5)
- 40 CFR Part 60 Subpart JJJJ – NSPS emergency definition; limitation on maintenance and readiness testing to 100 hrs/yr (G60-C029 8.4.4)
- 40 CFR Part 63 Subpart ZZZZ – RICE NESHAP as a new, emergency, spark ignition engine at an area source (40 CFR 63 Subpart ZZZZ)

____ 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 – Record hours of operation and fuel consumption on a monthly basis; keep records for 5 years (G60-C014 5.4.1)
- 40 CFR Part 60 Subpart JJJJ – Purchase a certified engine to meet NSPS emission limits (G60-C014 8.4.1)
- 40 CFR Part 60 Subpart JJJJ – Install non-resettable hour meter to demonstrate compliance with 7.1.4 (G60-C014 8.3.8)
- 40 CFR Part 60 Subpart JJJJ – Comply with all applicable monitoring, reports, and recordkeeping requirements (G60-C014 8.6.1)
- 40 CFR Part 63 Subpart ZZZZ – Compliance with NSPS Subpart JJJJ shows compliance with NESHAP Subpart ZZZZ (TV 6.1.1)

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: EN01	Emission unit name: EN01 Reciprocating Engine/Integral Compressor	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 reciprocating engine/integral compressor

Manufacturer: Cooper	Model number: GMXE-8	Serial number: 45641
--------------------------------	--------------------------------	--------------------------------

Construction date:	Installation date: 1962	Modification date(s): N/A
---------------------------	-----------------------------------	-------------------------------------

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

Maximum Hourly Throughput: 0.0054 MMscf/hr	Maximum Annual Throughput: 47.3 MMscf/yr	Maximum Operating Schedule: 8,760 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: 660 hp	Type and Btu/hr rating of burners: 8,200 Btu/hp-hr 0.0054 MMscf/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 = 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

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	4.37	19.12
Nitrogen Oxides (NO _x)	29.49	129.18
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	0.21	0.91
Particulate Matter (PM ₁₀)	0.21	0.91
Total Particulate Matter (TSP)	0.26	1.14
Sulfur Dioxide (SO ₂)	< 0.01	0.014
Volatile Organic Compounds (VOC)	3.30	14.47
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.042	0.184
Acrolein	0.042	0.184
Benzene	0.01	0.05
Ethylbenzene	< 0.01	< 0.01
Formaldehyde	0.30	1.31
Hexane	< 0.01	0.011
Toluene	0.01	0.023
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"> - CO, NO_x, and VOC emission rates based on emission statement submittals to WVDEP. - PM₁₀, PM_{2.5}, SO₂, and HAP emission factors based on AP-42 Section 3.2, Table 3.2-1. 		

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 7.1.1 and 7.1.4)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP general requirements/provisions (TV 7.1.3 and 7.1.5)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP monitoring requirements (TV 7.2.1)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP recordkeeping requirements (TV 7.4.1)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP reporting requirements (TV 7.5.1)

____ 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 7.1.1)
- 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 7.1.4)
- 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable general requirements/provisions (TV 7.1.3 and 7.1.5)
- 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable monitoring, recordkeeping, and reporting requirements (TV 7.2.1, 7.4.1, and 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: EN02	Emission unit name: EN02 Reciprocating Engine/Integral Compressor	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 reciprocating engine/integral compressor

Manufacturer: Cooper	Model number: GMXE-8	Serial number: 45642
--------------------------------	--------------------------------	--------------------------------

Construction date:	Installation date: 1962	Modification date(s): N/A
---------------------------	-----------------------------------	-------------------------------------

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

Maximum Hourly Throughput: 0.0054 MMscf/hr	Maximum Annual Throughput: 47.3 MMscf/yr	Maximum Operating Schedule: 8,760 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: 660 hp	Type and Btu/hr rating of burners: 8,200 Btu/hp-hr 0.0054 MMscf/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 = 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

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	4.37	19.12
Nitrogen Oxides (NO _x)	29.49	129.18
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	0.21	0.91
Particulate Matter (PM ₁₀)	0.21	0.91
Total Particulate Matter (TSP)	0.26	1.14
Sulfur Dioxide (SO ₂)	< 0.01	0.014
Volatile Organic Compounds (VOC)	3.30	14.47
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.042	0.184
Acrolein	0.042	0.184
Benzene	0.01	0.05
Ethylbenzene	< 0.01	< 0.01
Formaldehyde	0.30	1.31
Hexane	< 0.01	0.011
Toluene	0.01	0.023
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"> - CO, NO_x, and VOC emission rates based on emission statement submittals to WVDEP. - PM₁₀, PM_{2.5}, SO₂, and HAP emission factors based on AP-42 Section 3.2, Table 3.2-1. 		

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 7.1.1 and 7.1.4)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP general requirements/provisions (TV 7.1.3 and 7.1.5)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP monitoring requirements (TV 7.2.1)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP recordkeeping requirements (TV 7.4.1)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP reporting requirements (TV 7.5.1)

____ 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 7.1.1)
- 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 7.1.4)
- 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable general requirements/provisions (TV 7.1.3 and 7.1.5)
- 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable monitoring, recordkeeping, and reporting requirements (TV 7.2.1, 7.4.1, and 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: EN03	Emission unit name: EN03 Reciprocating Engine/Integral Compressor	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 reciprocating engine/integral compressor

Manufacturer: Cooper	Model number: GMXE-8	Serial number: 45997
--------------------------------	--------------------------------	--------------------------------

Construction date:	Installation date: 1964	Modification date(s): N/A
---------------------------	-----------------------------------	-------------------------------------

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

Maximum Hourly Throughput: 0.0054 MMscf/hr	Maximum Annual Throughput: 47.3 MMscf/yr	Maximum Operating Schedule: 8,760 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: 660 hp	Type and Btu/hr rating of burners: 8,200 Btu/hp-hr 0.0054 MMscf/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 = 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

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	4.37	19.12
Nitrogen Oxides (NO _x)	29.49	129.18
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	0.21	0.91
Particulate Matter (PM ₁₀)	0.21	0.91
Total Particulate Matter (TSP)	0.26	1.14
Sulfur Dioxide (SO ₂)	< 0.01	0.014
Volatile Organic Compounds (VOC)	3.30	14.47
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.042	0.184
Acrolein	0.042	0.184
Benzene	0.01	0.05
Ethylbenzene	< 0.01	< 0.01
Formaldehyde	0.30	1.31
Hexane	< 0.01	0.011
Toluene	0.01	0.023
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"> - CO, NO_x, and VOC emission rates based on emission statement submittals to WVDEP. - PM₁₀, PM_{2.5}, SO₂, and HAP emission factors based on AP-42 Section 3.2, Table 3.2-1. 		

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 7.1.1 and 7.1.4)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP general requirements/provisions (TV 7.1.3 and 7.1.5)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP monitoring requirements (TV 7.2.1)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP recordkeeping requirements (TV 7.4.1)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP reporting requirements (TV 7.5.1)

____ 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 7.1.1)
- 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 7.1.4)
- 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable general requirements/provisions (TV 7.1.3 and 7.1.5)
- 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable monitoring, recordkeeping, and reporting requirements (TV 7.2.1, 7.4.1, and 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: EN04	Emission unit name: EN04 Reciprocating Engine/Integral Compressor	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 reciprocating engine/integral compressor

Manufacturer: Cooper	Model number: GMXE-8	Serial number: 45999
Construction date:	Installation date: 1964	Modification date(s): N/A

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

Maximum Hourly Throughput: 0.0054 MMscf/hr	Maximum Annual Throughput: 47.3 MMscf/yr	Maximum Operating Schedule: 8,760 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: 660 hp	Type and Btu/hr rating of burners: 8,200 Btu/hp-hr 0.0054 MMscf/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 = 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

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	4.37	19.12
Nitrogen Oxides (NO _x)	29.49	129.18
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	0.21	0.91
Particulate Matter (PM ₁₀)	0.21	0.91
Total Particulate Matter (TSP)	0.26	1.14
Sulfur Dioxide (SO ₂)	< 0.01	0.014
Volatile Organic Compounds (VOC)	3.30	14.47
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.042	0.184
Acrolein	0.042	0.184
Benzene	0.01	0.05
Ethylbenzene	< 0.01	< 0.01
Formaldehyde	0.30	1.31
Hexane	< 0.01	0.011
Toluene	0.01	0.023
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"> - CO, NO_x, and VOC emission rates based on emission statement submittals to WVDEP. - PM₁₀, PM_{2.5}, SO₂, and HAP emission factors based on AP-42 Section 3.2, Table 3.2-1. 		

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 7.1.1 and 7.1.4)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP general requirements/provisions (TV 7.1.3 and 7.1.5)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP monitoring requirements (TV 7.2.1)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP recordkeeping requirements (TV 7.4.1)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP reporting requirements (TV 7.5.1)

____ 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 7.1.1)
- 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 7.1.4)
- 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable general requirements/provisions (TV 7.1.3 and 7.1.5)
- 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable monitoring, recordkeeping, and reporting requirements (TV 7.2.1, 7.4.1, and 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: EN05	Emission unit name: EN05 Reciprocating Engine/Integral Compressor	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 reciprocating engine/integral compressor

Manufacturer: Cooper	Model number: GMXE-8	Serial number: 45998
--------------------------------	--------------------------------	--------------------------------

Construction date:	Installation date: 1964	Modification date(s): N/A
---------------------------	-----------------------------------	-------------------------------------

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

Maximum Hourly Throughput: 0.0054 MMscf/hr	Maximum Annual Throughput: 47.3 MMscf/yr	Maximum Operating Schedule: 8,760 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: 660 hp	Type and Btu/hr rating of burners: 8,200 Btu/hp-hr 0.0054 MMscf/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 = 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

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	4.37	19.12
Nitrogen Oxides (NO _x)	29.49	129.18
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	0.21	0.91
Particulate Matter (PM ₁₀)	0.21	0.91
Total Particulate Matter (TSP)	0.26	1.14
Sulfur Dioxide (SO ₂)	< 0.01	0.014
Volatile Organic Compounds (VOC)	3.30	14.47
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.042	0.184
Acrolein	0.042	0.184
Benzene	0.01	0.05
Ethylbenzene	< 0.01	< 0.01
Formaldehyde	0.30	1.31
Hexane	< 0.01	0.011
Toluene	0.01	0.023
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"> - CO, NO_x, and VOC emission rates based on emission statement submittals to WVDEP. - PM₁₀, PM_{2.5}, SO₂, and HAP emission factors based on AP-42 Section 3.2, Table 3.2-1. 		

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 7.1.1 and 7.1.4)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP general requirements/provisions (TV 7.1.3 and 7.1.5)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP monitoring requirements (TV 7.2.1)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP recordkeeping requirements (TV 7.4.1)
- 40 CFR Part 63 Subpart ZZZZ – NESHAP reporting requirements (TV 7.5.1)

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 7.1.1)
- 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 7.1.4)
- 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable general requirements/provisions (TV 7.1.3 and 7.1.5)
- 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable monitoring, recordkeeping, and reporting requirements (TV 7.2.1, 7.4.1, and 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: RBR01	Emission unit name: RBR01 Dehydration Unit Reboiler	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.):

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

Manufacturer: NATCO	Model number: 450/750	Serial number: ED080284
Construction date: 2009	Installation date: 2009	Modification date(s): N/A

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

1.0 MMBtu/hr

Maximum Hourly Throughput: 1000 cf/hr	Maximum Annual Throughput: 8.76 MMcf/yr	Maximum Operating Schedule: 8760 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: 1.0 MMBtu/hr	Type and Btu/hr rating of burners:
--	---

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 = 1000 cf/hr
 - Maximum annual fuel usage = 8.76 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

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.08	0.37
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)	0.01	0.02
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Benzene	<0.01	<0.01
Ethylbenzene	<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> <ul style="list-style-type: none"> - NO_x and CO emission factors from AP-42, Section 1.4, Natural Gas Combustion, Table 1.4-1, 7/98 - PM, PM₁₀, PM_{2.5}, SO₂, and VOC 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 13 – Visible Emission Limits (TV 4.1.1, 45 CSR 2-3.1)

___ 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 – Compliance with 4.1.1 is demonstrated by combusting natural gas.

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: F1	List all emission units associated with this control device. DEHY01, RBR01
--	--

Manufacturer: NATCO	Model number: Q250	Installation date: 2009
-------------------------------	------------------------------	-----------------------------------

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.).

NATCO dehydration unit controlled flare
10 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.

- 45 CSR 6-4.1 – Particulate Matter emission limit (TV 5.1.1)
- 45 CSR 6-4.3 – Flare operating requirements (TV 5.1.2, R13-2792 5.1.4)
- 45 CSR 6-4.5 – Incinerator operating requirements (TV 5.1.3)
- 45 CSR 6-4.6 – Incinerator odor prevention requirements (TV 5.1.4)
- 40 CFR 63.10(b)(3) – Facility shall maintain minor source of HAPs by complying with 3.1.10 (TV 5.1.5, R13-2792 5.1.3)
- 45 CSR 10-4.1 – Sulfur Dioxide emission limit (TV 5.1.6)
- 45 CSR 10-5.1 – Hydrogen Sulfide emission limit (TV 5.1.7)
- 45 CSR 13 – Operation and Maintenance of air pollution control equipment (TV 5.1.8, R13-2792 4.1.3)
- 45 CSR 13 – Flare design evaluation (TV 5.1.11, R13-2792 5.1.5)

Monitoring

- 45 CSR 30-5.1c – Compliance with 5.1.2 shall be demonstrated by conducting Monthly Visible Emission Observations (TV 5.2.2, R13-2792 5.3.1)
- 45 CSR 30-5.1.c – Compliance with 5.1.6 shall be demonstrated by annual inlet wet gas sampling (TV 5.2.3)
- 45 CSR 30-5.1.c – Compliance with 5.1.7 shall be demonstrated by annual inlet wet gas sampling (TV 5.2.4)

CAM

- 40 CFR 64.3(a) – Compliance with 5.1.2.c shall be demonstrated by monitoring the presence or absence of a flare pilot flame (TV 5.2.5, R13-2792 5.2.1, 45 CSR 30-5.1.c)
- 40 CFR 64.7(a) – Monitoring of Flare (TV 5.2.7, 45 CSR 30-5.1.c)
- 40 CFR 64.7(b) – Proper Maintenance of air pollution control device equipment (TV 5.2.8, 45 CSR 30-5.1.c)
- 40 CFR 64.7(c) – Continuous Monitoring of Flare (TV 5.2.9, 45 CSR 30-5.1.c)
- 40 CFR 64.7(e) – Documentation of Need for Improved Monitoring of Flare (TV 5.2.10, 45 CSR 30-5.1.c)
- 40 CFR 64.8 – Quality Improvement Plan shall be developed if required (TV 5.2.11, 45 CSR 30-5.1.c)
- 40 CFR 64.6(c)(2) – Flame Detector Excursions (TV 5.2.12, 45 CSR 30-5.1.c)
- 40 CFR 64.7(d) – Response to Excursion or Exceedances (TV 5.4.12, 45 CSR 30-5.1.c)
- 40 CFR 64.9(b) – General recordkeeping requirements for 40 CFR 64 CAM (TV 5.4.13, 45 CSR 30-5.1.c.1)
- 40 CFR 64.9(a) – General reporting requirements for 40 CFR Part 64 CAM (TV 5.5.6, 45 CSR 30-5.1.c)

Testing

- 45 CSR 13 – Flare Compliance Assessment shall be conducted if required (TV 5.3.2, R13-2792 5.3.2)

Recordkeeping

- 45 CSR 30-5.1.c – Monitoring data shall be maintained to demonstrate compliance with 5.1.2.b, 5.1.2.i, and 5.2.2 (TV 5.4.1)
- 45 CSR 13 – Records of Malfunctions of air pollution control equipment shall be maintained (TV 5.4.2, R13-2792 4.1.4)
- 45 CSR 13 – Pilot Flame Absence records shall be maintained to demonstrate compliance with 5.1.2.c and 5.2.5 (TV 5.4.3, R13-2792 5.4.1)
- 45 CSR 13 – Flare design evaluation records shall be maintained to demonstrate compliance with 5.1.2 and 5.3.2 (TV 5.4.4, R13-2792 5.4.2)
- 45 CSR 13 – Testing records for 5.2.1 shall be maintained to demonstrate compliance with 5.1.2 and 5.2.1 (TV 5.4.5, 45 CSR 13, R13-2792, 5.4.3)
- 45 CSR 13 – Monitoring records for 5.2 and testing records for 5.3 shall be maintained (TV 5.4.6, R13-2792 5.4.4)
- 45 CSR 13 – Visible Emission Test records shall be maintained to demonstrate compliance with 5.1.2.b (TV 5.4.7, R13-2792 5.4.5)
- 45 CSR 13 – Records for conditions 5.4.3 through 5.4.10 shall be maintained and made available for inspection (TV 5.4.10, R13-2792 5.4.8)

Reporting

- 45 CSR 30-5.1.c – Reporting of Visible Emission Limit Exceedances (TV 5.5.1)
- 45 CSR 13 – Reporting of deviations of visible emissions requirement (TV 5.5.4, R13-2792 5.5.2)
- 45 CSR 13 – Report deviation from flare design and operation criteria (TV 5.5.5, R13-2792 5.5.3)

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
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

^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.