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February 25, 2016

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

9590 9401 0037 5168 3629 32

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

RE: <u>Dominion Transmission, Inc. – Title V Renewal Application</u> Oscar Nelson Compressor Station – R30-10900018-2011

Dear Mr. Durham:

Enclosed please find the Title V Renewal Application for Dominion Transmission, Inc.'s Oscar Nelson Compressor Station, Permit No. R30-10900018-2011. 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 Oscar Nelson Station:

- Equipment removed from the facility
 - TK01 583 gal Vertical Aboveground Storage Tank (Triethylene Glycol)
 - TK04 1,260 gal Vertical Aboveground Storage Tank (Produced Fluids)
 - o TK08 2,700 gal Vertical Aboveground Storage Tank (Produced Fluids)
- Equipment added to the facility:
 - TK09 500 gal Vertical Aboveground Storage Tank (Triethylene Glycol)
 - TK10 2,700 gal Vertical Aboveground Storage Tank (Produced Fluids)
- Correction to equipment at the facility:
 - AUX01 This emergency generator was previously listed as a Waukesha FZ000G engine, but the correct description is a Waukesha <u>F1905 GRU</u> engine.
 - Engines EN01 EN06 The compressor engines were previous listed as 2 stroke rich burn engines, but the correct descriptions are 2 stroke <u>lean</u> burn engines.

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

• We request that permit conditions 3.1.9, 3.1.10, 3.2.1, 3.2.2, and 3.2.3 be removed from the facility-wide section (Section 3) and moved to the source-specific sections (Sections 4 and 5) of the permit as they are source-specific requirements.

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

Sincerely,

nabere no

Amanda B. Tornabene Director, Gas Environmental Services

OSCAR NELSON COMPRESSOR STATION DOMINION TRANSMISSION, INC. APPLICATION FOR TITLE V OPERATING PERMIT RENEWAL TITLE V OPERATING PERMIT NO: R30-10900018-2011

Dominion Transmission, Inc. Oscar Nelson Compressor Station Marianna, WV

FEBRUARY 2016

DOMINION TRANMISSION, INC. OSCAR NELSON COMPRESSOR STATION

TITLE V PERMIT RENEWAL APPLICATION

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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

****Note:** There is no Attachment F or H 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 not applicable
General Application Forms signed by a Responsible Official	Enclosed – Section 2
Confidential Information submitted in accordance with 45CSR31	Not Applicable

SECTION 1

Introduction

INTRODUCTION:

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

Oscar Nelson Station has the potential to emit in excess of 100 tons per year of nitrogen oxides (NOx), volatile organic compounds (VOCs), and carbon monoxide (CO). 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 thereof. Oscar Nelson 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.

Oscar Nelson Station was originally issued a Title V Operating Permit (Permit No: R30-10900018-2006) in 2006 for a period of five (5) years, with an expiration date of May 24, 2011. Oscar Nelson Station is also subject to the underlying State Operating Permit (Rule 13 Permit No: R13-2626D). The Title V operating permit is for the operation of six (6) 880 hp natural gas fired reciprocating engines (EN01 – EN06), one (1) glycol dehydrator system (DEHY1) with a flare (F2), one (1) dehydration unit reboiler (REB1), one (1) 350 hp emergency generator (AUX01), and five (5) above ground storage tanks of various sizes (TK02, TK03, TK07, TK09, and TK10).

The last Title V Operating Permit renewal application was submitted in 2010, and the renewed Title V Operating Permit was issued on September 21, 2011, with an expiration date of September 21, 2016.

PROCESS DESCRIPTION

Oscar Nelson Station is a compressor facility that services a natural gas pipeline system. The compressor engines (EN01 – EN06) 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 (DEHY1). The dehydration unit removes moisture and impurities from the gas stream. Emergency backup power is supplied by an emergency generator (AUX01).

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 (REB1), 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 (DEHY1) using the heat generated from the natural gas-fired reboiler (REB1) to liberate the moisture and hydrocarbon vapors. The regenerator vapors are vented to the flare (F2) 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 Oscar Nelson Station:

Six (6) 880 hp Cooper GMV-8TF natural gas-fired reciprocating engine/integral compressors

- Emission unit ID: EN01 EN06
- Emission point ID: EN01 EN06

One (1) 350 hp Waukesha F1905 GRU auxiliary generator

- Emission unit ID: AUX01
- Emission point ID: AUX01

One (1) 0.75 MMBtu/hr natural gas-fired dehydration unit reboiler

- Emission unit ID: REB1
- Emission point ID: 2E

One (1) 54.0 MMscf wet gas/day glycol dehydration system

- Emission unit ID: DEHY1
- Emission point ID: 1E

One (1) 4.0 MMBtu/hr flare

- Emission unit ID: F2
- Emission point ID: 1E

One (1) 10,000 gallon horizontal aboveground engine oil storage tank

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

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

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

One (1) 2,100 gallon vertical aboveground ethylene glycol storage tank

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

One (1) 500 gallon vertical aboveground triethylene glycol storage tank

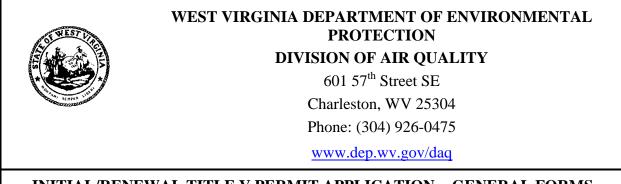
- Emission unit ID: TK09
- Emission point ID: TK09

One (1) 2,700 gallon vertical aboveground produced fluids storage tank

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

SECTION 2

Title V Operating Permit Renewal Application – General Forms



INITIAL/RENEWAL TITLE V PERMIT APPLICATION - GENERAL FORMS

Section 1: General Information

 Name of Applicant (As registered with the WV Secretary of State's Office): Dominion Transmission, Inc. 	2. Facility Name or Location: Oscar Nelson Station	
3. DAQ Plant ID No.:	4. Federal Employer ID No. (FEIN):	
109-00018	5 5 0 6 2 9 2 0 3	
5. Permit Application Type:		
	perations commence? 1947 expiration date of the existing permit? 09/21/2016	
6. Type of Business Entity:	7. Is the Applicant the:	
∑ Corporation ☐ Governmental Agency ☐ LLC ☐ Partnership ☐ Limited Partnership	Owner Operator Both If the Applicant is not both the owner and operator,	
8. Number of onsite employees:14	please provide the name and address of the other party.	
9. Governmental Code:		
 Privately owned and operated; 0 Federally owned and operated; 1 State government owned and operated; 2 	County government owned and operated; 3 Municipality government owned and operated; 4 District government owned and operated; 5	
10. Business Confidentiality Claims		
Does this application include confidential informatio	n (per 45CSR31)? Yes 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 " <i>PRECAUTIONARY NOTICE-CLAIMS OF CONFIDENTIALITY</i> " 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:	City: Marianna	County: Wyoming	
UTM Easting: 445.76 km	UTM Northing: 4161.72 km	Zone: 17 or 18	
Directions: Take Interstate 77 South to the Mabscott/MacArthur Exit. Turn South on State Route 16 and travel approximately 16 miles to Maben in Wyoming County. Turn right onto State Route 97 West and go 20.2 miles to Marianna. Turn left at Phillips Coal Road off of Route 97 (just before Turkey Creek Road). Go across the bridge crossing the Guyandotte River. Turn right at the end of the bridge and go 0.5 miles to the station.			
Portable Source? Yes	No		
Is facility located within a nonattain	nment area? 🗌 Yes 🖾 No	If yes, for what air pollutants?	
Is facility located within 50 miles of	another state? Xes No	If yes, name the affected state(s). Virginia	
Is facility located within 100 km of a	a Class I Area ¹ ? 🗌 Yes 🛛 No	If yes, name the area(s).	
If no, do emissions impact a Class I	Area ¹ ? 🗌 Yes 🛛 No		
¹ Class I areas include Dolly Sods and Otter Face Wilderness Area in Virginia.	Creek Wilderness Areas in West Virginia, and Sl	henandoah National Park and James River	

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) 842-332	3	
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	L	
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	L	
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.

Oscar Nelson Station is a compressor facility that services a natural gas pipeline system. The compressor engines (EN01 – EN06) 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 (DEHY1). 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."
- 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.

18. Applicable Requirements Summary		
Instructions: Mark all applicable requirements.		
SIP	☐ FIP	
Minor source NSR (45CSR13)	D PSD (45CSR14)	
NESHAP (45CSR34)	Nonattainment NSR (45CSR19)	
Section 111 NSPS	Section 112(d) MACT standards	
Section 112(g) Case-by-case MACT	112(r) RMP	
Section 112(i) Early reduction of HAP	Consumer/commercial prod. reqts., section 183(e)	
Section 129 Standards/Reqts.	Stratospheric ozone (Title VI)	
Tank vessel reqt., section 183(f)	Emissions cap 45CSR§30-2.6.1	
NAAQS, increments or visibility (temp. sources)	45CSR27 State enforceable only rule	
☐ 45CSR4 State enforceable only rule	Acid Rain (Title IV, 45CSR33)	
Emissions Trading and Banking (45CSR28)	Compliance Assurance Monitoring (40CFR64)	
CAIR NO _x Annual Trading Program (45CSR39)	CAIR NO _x Ozone Season Trading Program $(45CSR40)$	
CAIR SO ₂ Trading Program (45CSR41)		
19. Non Applicability Determinations		
 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. 45 CSR 10 – Compressor engines (EN01 through EN06) have been excluded from the applicability of SO2 and H2S limits. WVDAQ determined that 45 CSR 10 is not applicable to compressor engines. 40 CFR 60 Subpart JJJJ – The compressor engines (EN01 – EN06) are not subject to this subpart since they were manufactured pre-1947, before the applicability date. 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, and/or pneumatic controllers constructed, modified, or reconstructed after August 23, 2011. 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. 40 CFR 63 Subpart DDDDD – The reboiler (REB1) is not subject to this subpart since it is exempt by §63.7491(h) and facility is not major source of HAPs. 40 CFR 63 Subpart JJJJJJ – The reboiler (REB1) is not applicable to this subpart since it is considered a "process heater," which is excluded from the definition of "boiler" in §63.11237. 40 CFR 64 – The dehy unit (DEHY1) 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 R13-2626D 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)). 		

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) 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) 45 CSR 17-3.1 – Fugitive particulate matter (TV 3.1.11) 45 CSR 13 - Minor source of Hazardous Air Pollutants (HAP) (TV 3.1.12, R13-2626D, 4.1.3) 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 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 17-3.1 – The permittee will limit fugitive particulate matter emissions from the facility by burning only pipeline quality natural gas (TV 3.1.11) 45 CSR 13 and WV Code 22-5-4(a)(14 - 15) - Testing requirements (TV 3.3.1) 45 CSR 30-5.1.c.2.A and 45 CSR 13 – Monitoring records (TV 3.4.1; R13-2626D 4.2.1) 45 CSR 30-5.1.c - Permittee shall maintain records of all odor complaints received (TV 3.4.3) 45 CSR 13 – Records of maintenance of air pollution control equipment (TV 3.4.4; R13-2626D 4.2.2) 45 CSR 13 – Records of malfunctions of air pollution control equipment (TV 3.4.5; R13-2626D 4.2.3) 45 CSR 13 - Records of annual HAP emissions (TV 3.4.6; R13-2626D 4.2.4) 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? X 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>)
R13-2626D	12/13/2013	

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

Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	155.76
Nitrogen Oxides (NO _X)	1,518.78
Lead (Pb)	N/A
Particulate Matter (PM _{2.5}) ¹	7.47
Particulate Matter (PM ₁₀) ¹	7.47
Total Particulate Matter (TSP)	9.42
Sulfur Dioxide (SO ₂)	0.12
Volatile Organic Compounds (VOC)	121.53
Hazardous Air Pollutants ²	Potential Emissions
Acetaldehyde	1.51
Acrolein	1.51
Benzene	0.54
Ethylbenzene	0.48
Formaldehyde	7.24
Hexane	0.12
Toluene	0.75
Xylene	0.63
Regulated Pollutants other than Criteria and HAP	Potential Emissions

the Criteria Pollutants section.

24.	Insign	ificant Activities (Check all that apply)
\square	1.	Air compressors and pneumatically operated equipment, including hand tools.
	2.	Air contaminant detectors or recorders, combustion controllers or shutoffs.
	3.	Any consumer product used in the same manner as in normal consumer use, provided the use results in a duration and frequency of exposure which are not greater than those experienced by consumer, and which may include, but not be limited to, personal use items; janitorial cleaning supplies, office supplies and supplies to maintain copying equipment.
\boxtimes	4.	Bathroom/toilet vent emissions.
	5.	Batteries and battery charging stations, except at battery manufacturing plants.
	6.	Bench-scale laboratory equipment used for physical or chemical analysis, but not lab fume hoods or vents. Many lab fume hoods or vents might qualify for treatment as insignificant (depending on the applicable SIP) or be grouped together for purposes of description.
	7.	Blacksmith forges.
\boxtimes	8.	Boiler water treatment operations, not including cooling towers.
	9.	Brazing, soldering or welding equipment used as an auxiliary to the principal equipment at the source.
	10.	CO ₂ lasers, used only on metals and other materials which do not emit HAP in the process.
	11.	Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.
	12.	Combustion units designed and used exclusively for comfort heating that use liquid petroleum gas or natural gas as fuel.
	13.	Comfort air conditioning or ventilation systems not used to remove air contaminants generated by or released from specific units of equipment.
	14.	Demineralized water tanks and demineralizer vents.
	15.	Drop hammers or hydraulic presses for forging or metalworking.
	16.	Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam.
	17.	Emergency (backup) electrical generators at residential locations.
	18.	Emergency road flares.
	19.	Emission units which do not have any applicable requirements and which emit criteria pollutants (CO, NO_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.	24. Insignificant Activities (Check all that apply)						
	20.	Emission units which do not have any applicable requirements and which emit hazardous air pollutants into the atmosphere at a rate of less than 0.1 pounds per hour and less than 1,000 pounds per year aggregate total for all HAPs from all emission sources. This limitation cannot be used for any source which emits dioxin/furans nor for toxic air pollutants as per 45CSR27.					
		Please specify all emission units for which this exemption applies along with the quantity of hazardous air pollutants emitted on an hourly and annual basis:					
	21.	Environmental chambers not using hazardous air pollutant (HAP) gases.					
	22.	Equipment on the premises of industrial and manufacturing operations used solely for the purpose of preparing food for human consumption.					
	23.	Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouse such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.					
	24.	Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.					
	25.	Equipment used for surface coating, painting, dipping or spray operations, except those that will emit VOC or HAP.					
\square	26.	Fire suppression systems.					
	27.	Firefighting equipment and the equipment used to train firefighters.					
	28.	Flares used solely to indicate danger to the public.					
\square	29.	Fugitive emission related to movement of passenger vehicle provided the emissions are not counted for applicability purposes and any required fugitive dust control plan or its equivalent is submitted.					
	30.	Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation.					
\boxtimes	31.	Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic.					
	32.	Humidity chambers.					
	33.	Hydraulic and hydrostatic testing equipment.					
	34.	Indoor or outdoor kerosene heaters.					
\boxtimes	35.	Internal combustion engines used for landscaping purposes.					
	36.	Laser trimmers using dust collection to prevent fugitive emissions.					
	37.	Laundry activities, except for dry-cleaning and steam boilers.					
	38.	Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.					
	39.	Oxygen scavenging (de-aeration) of water.					
	40.	Ozone generators.					

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

25. Equipment Table

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

26. Emission Units

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

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

27. Control Devices

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

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

28.	8. Certification of Truth, Accuracy and Completeness and Cert	tification of Compliance						
Noi	ote: This Certification must be signed by a responsible official. In submitted with the application. Applications without an orig as incomplete.							
a.	a. Certification of Truth, Accuracy and Completeness							
this I ce sub resp knc fals	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.	b. Compliance Certification							
und	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.							
Res	esponsible official (type or print)							
Nar	Tame: Brian C. Sheppard Title: Vice President, Pipeline Operations							
Res	esponsible official's signature:							
Sig (Mu	Signature: Signature Date: Ozlislic							
Not	Note: Please check all applicable attachments included with this permit application:							
\boxtimes	ATTACHMENT A: Area Map							
\boxtimes	ATTACHMENT B: Plot Plan(s)							
\boxtimes	ATTACHMENT C: Process Flow Diagram(s)							
\boxtimes	ATTACHMENT D: Equipment Table							
\boxtimes	ATTACHMENT E: Emission Unit Form(s)							
	ATTACHMENT F: Schedule of Compliance Form(s)	TTACHMENT F: Schedule of Compliance Form(s)						
\boxtimes	ATTACHMENT G: Air Pollution Control Device Form(s)							
	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							

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

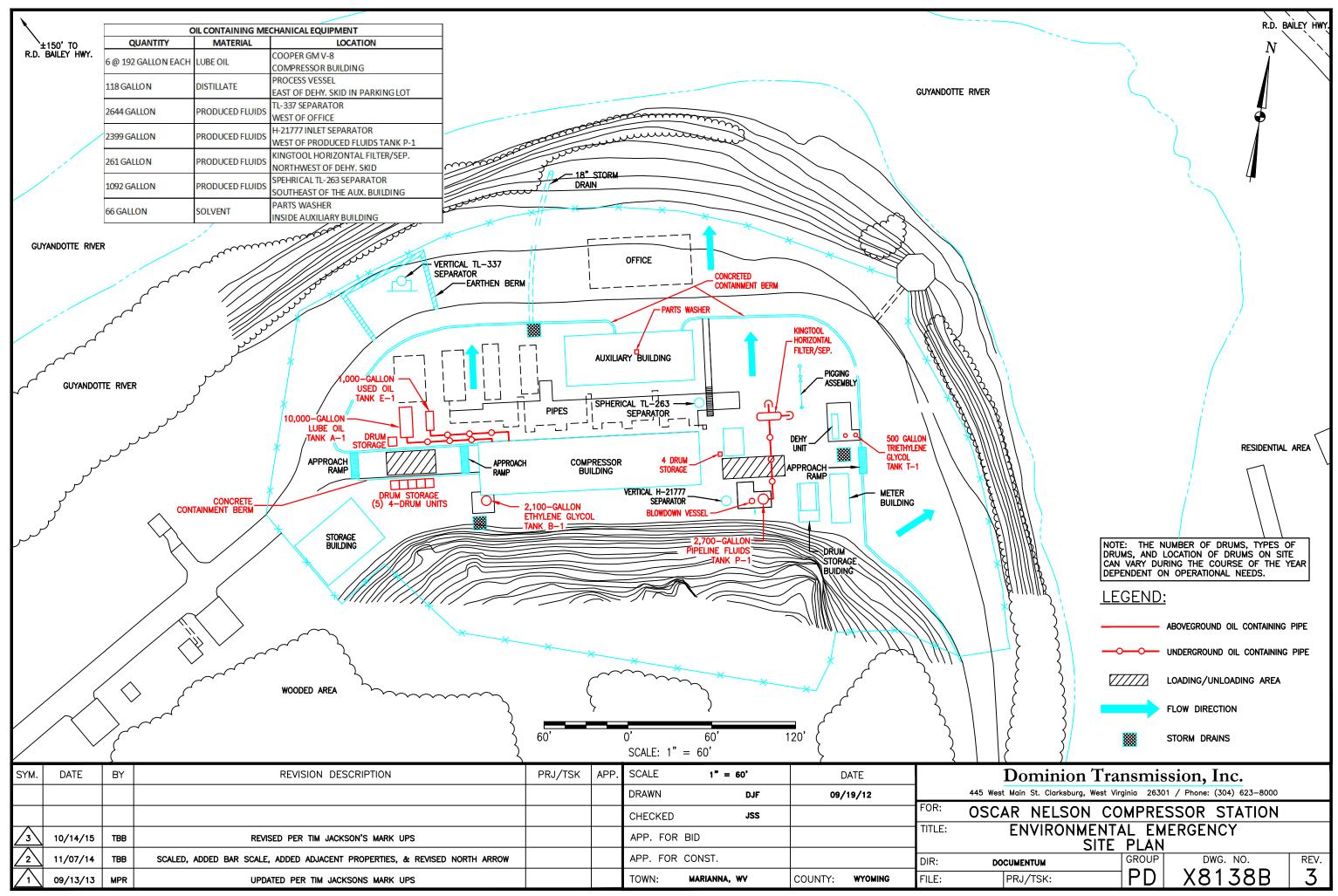
Attachment A

Area Map



Attachment B

Plot Plan



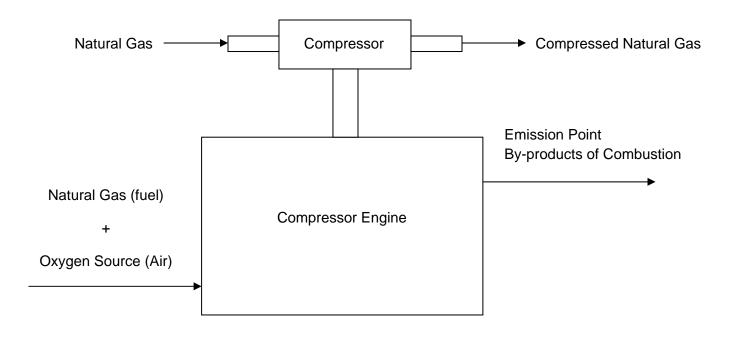
Printed: Oct 14, 2015 @07:36, By: timo409, Filename: PDX8138B.dwg

Attachment C

Process Flow Diagrams

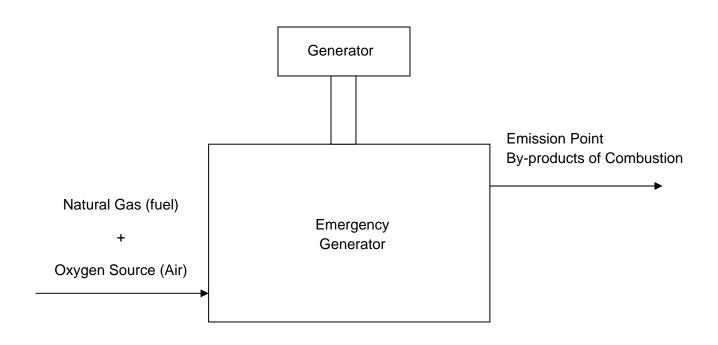
Dominion Transmission, Inc. Oscar Nelson Compressor Station

Compressor Engines (EN01 – EN06) Process Flow Diagram



Dominion Transmission, Inc. Oscar Nelson Compressor Station

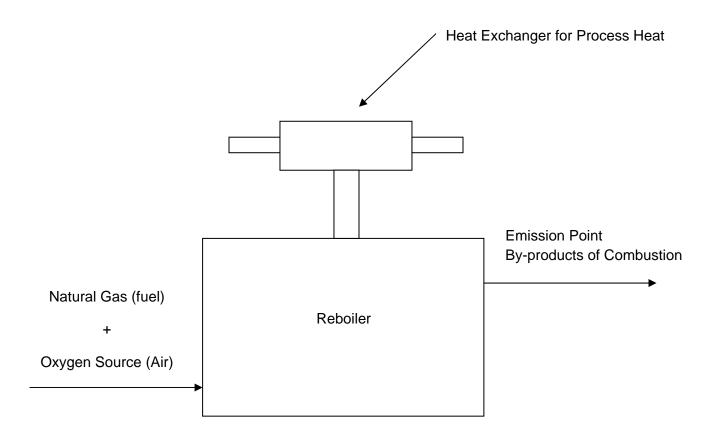
Emergency Generator (AUX01) Process Flow Diagram



Dominion Transmission, Inc.

Oscar Nelson Compressor Station

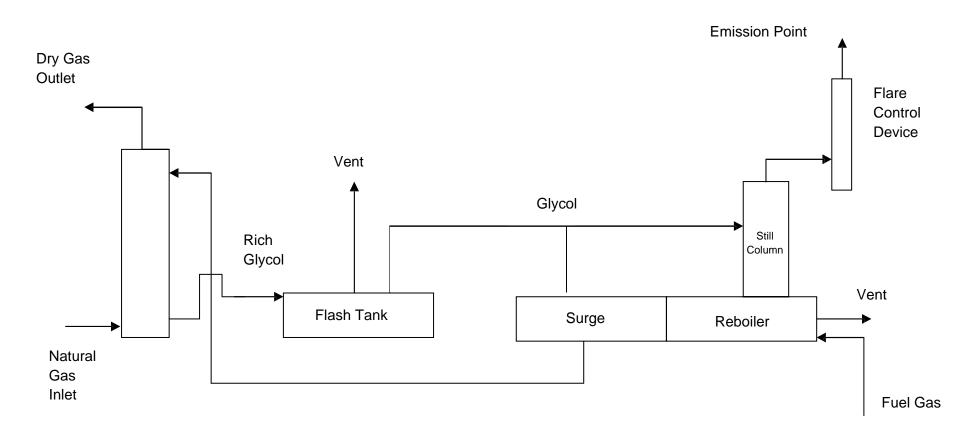
Reboiler (REB1) Process Flow Diagram



Dominion Transmission, Inc.

Oscar Nelson Compressor Station

Dehydration Unit (F2, DEHY1, and REB1) 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)

		insignific	ant activities in Section 4, Item 24 of the General 1	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 GMV-8TF; 2 Cycle Lean Burn	880 hp	1947
EN02	N/A	EN02	Reciprocating Engine/Integral Compressor; Cooper GMV-8TF; 2 Cycle Lean Burn	880 hp	1947
EN03	N/A	EN03	Reciprocating Engine/Integral Compressor; Cooper GMV-8TF; 2 Cycle Lean Burn	880 hp	1947
EN04	N/A	EN04	Reciprocating Engine/Integral Compressor; Cooper GMV-8TF; 2 Cycle Lean Burn	880 hp	1947
EN05	N/A	EN05	Reciprocating Engine/Integral Compressor; Cooper GMV-8TF; 2 Cycle Lean Burn	880 hp	1947
EN06	N/A	EN06	Reciprocating Engine/Integral Compressor; Cooper GMV-8TF; 2 Cycle Lean Burn	880 hp	1947
AUX01	N/A	AUX01	Auxiliary Generator; Waukesha F1905 GRU	350 hp	1988
1E	F2	DEHY1	Glycol Dehydration System	54.0 MMscf wet gas/day	2005
2E	N/A	REB1	Reboiler 1	0.75 MMBtu/hr	2005
1E	N/A	F2	Flare	4.0 MMBtu/hr	2013
TK02	N/A	TK02	Horizontal Aboveground Tank Containing Engine Oil	10,000 Gallons	2004
TK03	N/A	TK03	Horizontal Aboveground Tank Containing Used Oil	1,000 Gallons	2004
TK07	N/A	TK07	Vertical Aboveground Tank Containing Ethylene Glycol	2,100 Gallons	N/A
New units (u	pdates) to eq	uipment list:			
TK09	N/A	TK09	Vertical Aboveground Tank Containing Tri- Ethylene Glycol	500 Gallons	2015
TK10	N/A	TK10	Vertical Aboveground Tank Containing Produced Fluids	2,700 Gallons	2003
Units that hav	ve been remo	oved:			
TK01	N/A	TK01	Vertical Aboveground Tank Containing Tri- Ethylene Glycol	583 Gallons	1947
TK04	N/A	TK04	Vertical Aboveground Tank Containing Produced Fluids	1,260 Gallons	2005
TK08	N/A	TK08	Vertical Aboveground Tank Containing Produced Fluids	2,700 Gallons	1947

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.

Page __1___ of ___1___

Attachment E

Emission Unit Forms

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number:	Emission unit name:	List any control dev	
AUX01	Auxiliary Generator	with this emission u N/A	init:
Provide a description of the emissio Natural gas-fired emergency auxiliary		esign parameters, etc.):
Manufacturer: Waukesha	Model number: F1905 GRU	Serial number: RU19363	
Construction date: Pre-1988	Installation date: 1988	Modification date(s):
Design Capacity (examples: furnace 350 hp	es - tons/hr, tanks - gallons):	I	
Maximum Hourly Throughput: 0.0026 MM scf/hr	Maximum Annual Throughput: 1.31 MMscf/yr	Maximum Operatin 500 hrs/yr	ng Schedule:
Fuel Usage Data (fill out all applica	ble fields)		
Does this emission unit combust fue	l? _X_Yes No	If yes, is it?	
		Indirect Fired _2	KDirect Fired
Maximum design heat input and/or 350 hp	maximum horsepower rating:	Type and Btu/hr ra 2.63 MMBtu/hr	ting of burners:
List the primary fuel type(s) and if a the maximum hourly and annual fu Natural gas - Maximum hourly fuel usage - Maximum annual fuel usage	el usage for each. = 0.0026 MMscf/hr). For each fuel type	listed, provide
Describe each fuel expected to be us	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural gas	20 gr sulfur/100 cf	N/A	1,000 Btu/cf

Criteria Pollutants	Potentia	l Emissions
	РРН	TPY
Carbon Monoxide (CO)	9.94	2.49
Nitrogen Oxides (NO _X)	11.56	2.89
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)	0.05	0.01
Sulfur Dioxide (SO ₂)	< 0.01	< 0.01
Volatile Organic Compounds (VOC)	0.16	0.04
Hazardous Air Pollutants	Potential Emissions	
	РРН	TPY
Acetaldehyde	0.01	< 0.01
Acrolein	0.01	< 0.01
Benzene	< 0.01	< 0.01
Ethylbenzene	< 0.01	< 0.01
Formaldehyde	0.05	0.01
Toluene	< 0.01	< 0.01
Xylene	< 0.01	< 0.01
Regulated Pollutants other than	Potential Emissions	
Criteria and HAP	РРН	TPY

- CO, NOx, and VOC emission rates based on manufacturer specs.

- PM10, PM2.5, SO2, and HAP emission factors based on AP-42 Section 3.2, Table 3.2-3.

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40 CFR Part 63 Subpart ZZZZ – NESHAP maintenance requirements (TV 6.1.1, § 63.6603) 40 CFR Part 63 Subpart ZZZZ – NESHAP operating requirements (TV 6.1.1, § 63.6605 and § 63.6625) 40 CFR Part 63 Subpart ZZZZ – NESHAP continuous compliance requirements (TV 6.1.1, § 63.6640) 40 CFR Part 63 Subpart ZZZZ – NESHAP emergency definition; limitation on maintenance and readiness testing to 100 hrs/yr (TV 6.1.1, § 63.6640) 40 CFR Part 63 Subpart ZZZZ – NESHAP general requirements/provisions (TV 6.1.1, § 63.6665)

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

40 CFR Part 63 Subpart ZZZZ – Change oil and filter and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, or utilize an oil analysis program (TV 6.1.1, § 63.6603 and § 63.6625) 40 CFR Part 63 Subpart ZZZZ – Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first (TV 6.1.1, § 63.6603)

40 CFR Part 63 Subpart ZZZZ – Operate and maintain the RICE according to the manufacturer's instructions OR develop and follow your own maintenance plan (TV 6.1.1, § 63.6625 and TV 6.1.1, § 63.6640)

40 CFR Part 63 Subpart ZZZZ – Install a non-resettable hour meter (TV 6.1.1, § 63.6625)

40 CFR Part 63 Subpart ZZZZ – Comply with all applicable general requirements/provisions (TV 6.1.1, § 63.6665) 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable monitoring and recordkeeping requirements (TV 6.2 and 6.4, § 63.6635, § 63.6655 and § 63.6660)

40 CFR Part 63 Subpart ZZZZ – Keep records of maintenance conducted on the RICE and the hours of operation (TV 6.4.1, § 63.6655)

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ___No

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

ATT	ACHMENT E - Emission Uni	t Form	
Emission Unit Description			
Emission unit ID number: DEHY1	Emission unit name: DEHY1	List any control dev with this emission u	
	Dehydration Unit	Flare (F2)	
Provide a description of the emission	n unit (type, method of operation, de	esign parameters, etc.	.):
Dehydration unit still column			
Manufacturer: ETI	Model number:	Serial number:	
Construction date:	Installation date: 2005	Modification date(s N/A):
Design Capacity (examples: furnace 54.0 MMscf wet gas/day	s - tons/hr, tanks - gallons):		
Maximum Hourly Throughput: 54.0 MMscf wet gas/day	Maximum Annual Throughput: 19,710 MMscf/yr	Maximum Operatir 8,760 hrs/yr	ng Schedule:
Fuel Usage Data (fill out all applicat	ble fields)		
Does this emission unit combust fuel	?Yes _ <u>X</u> No	If yes, is it?	
		Indirect Fired	Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if a the maximum hourly and annual fue). For each fuel type	listed, provide
Natural gas - Maximum hourly wet gas usa - Maximum annual wet gas usa			
Describe each fuel expected to be us	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

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)	0.53	2.32
Hazardous Air Pollutants	Potential Emissions	
	РРН	TPY
Benzene	0.04	0.16
Ethylbenzene	0.11	0.45
n-Hexane	0.01	0.03
Toluene	0.13	0.56
Xylenes	0.13	0.58
Regulated Pollutants other than	Potentia	l Emissions
Criteria and HAP	РРН	TPY

Emission rates for Dehydration Still estimated from GRI-GLYCalc V4.0, with a 95% destruction efficiency of the flare. GLYCalc inputs and emission calculations based on October 2013 application for new flare.

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> 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 10-4.1 – SO₂ emissions shall not exceed 2,000 ppm by volume (TV 3.1.9; R13-2626D, 4.1.2)
45 CSR 10-5.1 – H₂S emissions shall not exceed 50 gr/100 cu ft of gas (TV 3.1.10)
45 CSR 13 – The maximum wet natural gas throughput shall not exceed 54.0 MMscf/day (TV 5.1.7; R13-2626D 6.1.7)
45 CSR 13 – Emission limits (TV 5.1.8; R13-2626D 6.1.8)
45 CSR 34 and 63.764(e)(1)(ii) – Actual average emissions of benzene are less than 1 ton/yr (TV 5.1.9)

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

45 CSR 30-5.1.c - TV 3.1.9 shall be complied with by annual sampling of inlet natural gas stream (TV 3.2.2) 45 CSR 30-5.1.c - TV 3.1.10 shall be complied with by annual sampling of inlet natural gas stream (TV 3.2.3) 45 CSR 30-5.1(c) - TV 5.1.7 will be demonstrated by monitoring daily the wet natural gas throughput fed to the dehydration system (TV 5.2.3; R13-2626D 6.2.3)

45 CSR 30-5.1.c – TV 5.1.9 benzene emissions shall be determined based on GRI- GYLCalc 3.0 or higher using actual operating parameters (TV 5.2.4 and R13-2626D, 6.2.4)

45 CSR 30-5.1.c – Within the 4th year of the permit term, take a BTEX wet gas sample (TV 5.3.1)

45 CSR 13 – Maintain a record of the wet natural gas throughput through the dehydration unit (TV 5.4.1; R13-2626D 6.4.1)

45 CSR 34 and 63.774(d)(1)(ii) – Maintain records of the actual average benzene emissions (TV 5.4.5) 45 CSR 30-5.1.c – By March 31st of the following year, submit a report which incorporates the BTEX wet gas sample (TV 5.5.2)

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ____No

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

ATT	ACHMENT E - Emission Uni	it Form	
Emission Unit Description			
Emission unit ID number: EN01	Emission unit name: EN01	List any control dev with this emission u	
	Reciprocating Engine/Integral Compressor	N/A	
Provide a description of the emission	on unit (type, method of operation,	design parameters, et	tc.):
Natural gas-fired reciprocating engine	e/integral compressor		
Manufacturer: Cooper	Model number: GMV-8TF	Serial number: 41567	
Construction date: Pre-1947	Installation date: 1947	Modification date(s):
Design Capacity (examples: furnac 880 hp	es - tons/hr, tanks - gallons):		
Maximum Hourly Throughput: 0.0074 MMscf/hr	Maximum Annual Throughput: 64.8 MMscf/yr	Maximum Operatio 8,760 hrs/yr	ng Schedule:
Fuel Usage Data (fill out all applica	ble fields)		
Does this emission unit combust fue	el? _X_Yes No	If yes, is it?	
		Indirect Fired Fired	_XDirect
Maximum design heat input and/or 880 hp	r maximum horsepower rating:	Type and Btu/hr ra 8,400 Btu/hp-hr 0.0074 MMscf/hr	ting of burners:
List the primary fuel type(s) and if the maximum hourly and annual fu		(s). For each fuel typ	e listed, provide
Pipeline quality natural gas - Maximum hourly fuel usage - Maximum annual fuel usage			
Describe each fuel expected to be u	sed during the term of the permit.	1	
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	
	РРН	TPY
Carbon Monoxide (CO)	5.82	25.49
Nitrogen Oxides (NO _X)	57.62	252.38
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	0.28	1.24
Particulate Matter (PM ₁₀)	0.28	1.24
Total Particulate Matter (TSP)	0.36	1.56
Sulfur Dioxide (SO ₂)	<0.01	0.02
Volatile Organic Compounds (VOC)	4.46	19.54
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.06	0.25
Acrolein	0.06	0.25
Benzene	0.01	0.06
Ethylbenzene	< 0.01	< 0.01
Formaldehyde	0.28	1.20
Hexane	< 0.01	0.01
Toluene	0.01	0.03
Xylene	< 0.01	0.01
Regulated Pollutants other than	Potentia	l Emissions
Criteria and HAP	PPH	TPY

- CO, NOx, and VOC emission rates based on manufacturer specs.
- PM10, PM2.5, SO₂, and HAP emission factors based on AP-42 Section 3.2, Table 3.2-1.
- Formaldehyde emission rate based on an emission test report conducted in 2006 in accordance with EPA Method 320.

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40 CFR Part 63 Subpart ZZZZ – NESHAP maintenance requirements (TV 6.1.1, § 63.6603) 40 CFR Part 63 Subpart ZZZZ – NESHAP operating requirements (TV 6.1.1, § 63.6605 and § 63.6625) 40 CFR Part 63 Subpart ZZZZ – NESHAP continuous compliance requirements (TV 6.1.1, § 63.6640) 40 CFR Part 63 Subpart ZZZZ – NESHAP general requirements/provisions (TV 6.1.1, § 63.6665)

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

40 CFR Part 63 Subpart ZZZZ – Change oil and filter, inspect spark plugs, and inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, or utilize an oil analysis program (TV 6.1.1, § 63.6603) 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable general requirements/provisions (TV 6.1.1, § 63.6665) 40 CFR Part 63 Subpart ZZZZ – Operate and maintain the RICE according to the manufacturer's instructions OR develop and follow your own maintenance plan (TV 6.1.1, § 63.6625 and TV 6.1.1, § 63.6640) 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable monitoring and recordkeeping requirements (TV 6.2 and 6.4, § 63.6635, § 63.6655 and § 63.6660)

40 CFR Part 63 Subpart ZZZZ – Keep records of maintenance conducted on the RICE and the hours of operation (TV 6.4.1, § 63.6655)

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ___No

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

ATT	ACHMENT E - Emission Uni	it Form	
Emission Unit Description			
Emission unit ID number: EN02	Emission unit name: EN02	List any control de with this emission u	
	Reciprocating Engine/Integral Compressor	N/A	
Provide a description of the emission	on unit (type, method of operation,	design parameters, e	tc.):
Natural gas-fired reciprocating engine	e/integral compressor		
Manufacturer: Cooper	Model number: GMV-8TF	Serial number: 41566	
Construction date: Pre-1947	Installation date: 1947	Modification date(s N/A	3):
Design Capacity (examples: furnac 880 hp	es - tons/hr, tanks - gallons):		
Maximum Hourly Throughput: 0.0074 MMscf/hr	Maximum Annual Throughput: 64.8 MMscf/yr	Maximum Operati 8,760 hrs/yr	ng Schedule:
Fuel Usage Data (fill out all applica	ble fields)		
Does this emission unit combust fue	el? _X_Yes No	If yes, is it?	
		Indirect Fired Fired	_XDirect
Maximum design heat input and/or 880 hp	r maximum horsepower rating:	Type and Btu/hr ra 8,400 Btu/hp-hr 0.0074 MMscf/hr	iting of burners:
List the primary fuel type(s) and if the maximum hourly and annual fu		(s). For each fuel typ	oe listed, provide
Pipeline quality natural gas - Maximum hourly fuel usage - Maximum annual fuel usage			
Describe each fuel expected to be u	sed during the term of the permit.	1	
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	
	РРН	TPY
Carbon Monoxide (CO)	5.82	25.49
Nitrogen Oxides (NO _X)	57.62	252.38
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	0.28	1.24
Particulate Matter (PM ₁₀)	0.28	1.24
Total Particulate Matter (TSP)	0.36	1.56
Sulfur Dioxide (SO ₂)	<0.01	0.02
Volatile Organic Compounds (VOC)	4.46	19.54
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.06	0.25
Acrolein	0.06	0.25
Benzene	0.01	0.06
Ethylbenzene	< 0.01	< 0.01
Formaldehyde	0.28	1.20
Hexane	< 0.01	0.01
Toluene	0.01	0.03
Xylene	< 0.01	0.01
Regulated Pollutants other than	Potentia	l Emissions
Criteria and HAP	PPH	TPY

- CO, NOx, and VOC emission rates based on manufacturer specs.
- PM10, PM2.5, SO₂, and HAP emission factors based on AP-42 Section 3.2, Table 3.2-1.
- Formaldehyde emission rate based on an emission test report conducted in 2006 in accordance with EPA Method 320.

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40 CFR Part 63 Subpart ZZZZ – NESHAP maintenance requirements (TV 6.1.1, § 63.6603) 40 CFR Part 63 Subpart ZZZZ – NESHAP operating requirements (TV 6.1.1, § 63.6605 and § 63.6625) 40 CFR Part 63 Subpart ZZZZ – NESHAP continuous compliance requirements (TV 6.1.1, § 63.6640) 40 CFR Part 63 Subpart ZZZZ – NESHAP general requirements/provisions (TV 6.1.1, § 63.6665)

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

40 CFR Part 63 Subpart ZZZZ – Change oil and filter, inspect spark plugs, and inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, or utilize an oil analysis program (TV 6.1.1, § 63.6603) 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable general requirements/provisions (TV 6.1.1, § 63.6665) 40 CFR Part 63 Subpart ZZZZ – Operate and maintain the RICE according to the manufacturer's instructions OR develop and follow your own maintenance plan (TV 6.1.1, § 63.6625 and TV 6.1.1, § 63.6640) 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable monitoring and recordkeeping requirements (TV 6.2 and 6.4, § 63.6635, § 63.6655 and § 63.6660)

40 CFR Part 63 Subpart ZZZZ – Keep records of maintenance conducted on the RICE and the hours of operation (TV 6.4.1, § 63.6655)

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ___No

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

ATT	ACHMENT E - Emission Uni	t Form	
Emission Unit Description			
Emission unit ID number: EN03	Emission unit name: EN03	List any control de with this emission u	
	Reciprocating Engine/Integral Compressor		
Provide a description of the emission	on unit (type, method of operation,	design parameters, e	tc.):
Natural gas-fired reciprocating engine	e/integral compressor		
Manufacturer: Cooper	Model number: GMV-8TF	Serial number: 41565	
Construction date: Pre-1947	Installation date: 1947	Modification date(s N/A	s):
Design Capacity (examples: furnac 880 hp	es - tons/hr, tanks - gallons):		
Maximum Hourly Throughput: 0.0074 MMscf/hr	Maximum Annual Throughput: 64.8 MMscf/yr	Maximum Operation 8,760 hrs/yr	ng Schedule:
Fuel Usage Data (fill out all applica	ble fields)		
Does this emission unit combust fue	el? _X_Yes No	If yes, is it?	
		Indirect Fired Fired	_XDirect
Maximum design heat input and/o 880 hp	r maximum horsepower rating:	Type and Btu/hr ra 8,400 Btu/hp-hr 0.0074 MMscf/hr	ting of burners:
List the primary fuel type(s) and if the maximum hourly and annual fu		(s). For each fuel typ	e listed, provide
Pipeline quality natural gas - Maximum hourly fuel usage - Maximum annual fuel usage			
Describe each fuel expected to be u	sed 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	
	РРН	TPY
Carbon Monoxide (CO)	5.82	25.49
Nitrogen Oxides (NO _X)	57.62	252.38
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	0.28	1.24
Particulate Matter (PM ₁₀)	0.28	1.24
Total Particulate Matter (TSP)	0.36	1.56
Sulfur Dioxide (SO ₂)	<0.01	0.02
Volatile Organic Compounds (VOC)	4.46	19.54
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.06	0.25
Acrolein	0.06	0.25
Benzene	0.01	0.06
Ethylbenzene	< 0.01	< 0.01
Formaldehyde	0.28	1.20
Hexane	< 0.01	0.01
Toluene	0.01	0.03
Xylene	< 0.01	0.01
Regulated Pollutants other than	Potentia	l Emissions
Criteria and HAP	PPH	TPY

- CO, NOx, and VOC emission rates based on manufacturer specs.
- PM10, PM2.5, SO₂, and HAP emission factors based on AP-42 Section 3.2, Table 3.2-1.
- Formaldehyde emission rate based on an emission test report conducted in 2006 in accordance with EPA Method 320.

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40 CFR Part 63 Subpart ZZZZ – NESHAP maintenance requirements (TV 6.1.1, § 63.6603) 40 CFR Part 63 Subpart ZZZZ – NESHAP operating requirements (TV 6.1.1, § 63.6605 and § 63.6625) 40 CFR Part 63 Subpart ZZZZ – NESHAP continuous compliance requirements (TV 6.1.1, § 63.6640) 40 CFR Part 63 Subpart ZZZZ – NESHAP general requirements/provisions (TV 6.1.1, § 63.6665)

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

40 CFR Part 63 Subpart ZZZZ – Change oil and filter, inspect spark plugs, and inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, or utilize an oil analysis program (TV 6.1.1, § 63.6603) 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable general requirements/provisions (TV 6.1.1, § 63.6665) 40 CFR Part 63 Subpart ZZZZ – Operate and maintain the RICE according to the manufacturer's instructions OR develop and follow your own maintenance plan (TV 6.1.1, § 63.6625 and TV 6.1.1, § 63.6640) 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable monitoring and recordkeeping requirements (TV 6.2 and 6.4, § 63.6635, § 63.6655 and § 63.6660)

40 CFR Part 63 Subpart ZZZZ – Keep records of maintenance conducted on the RICE and the hours of operation (TV 6.4.1, § 63.6655)

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ___No

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

ATT	ACHMENT E - Emission Uni	it Form	
Emission Unit Description			
Emission unit ID number: EN04	Emission unit name: EN04	List any control de with this emission u	
	Reciprocating Engine/Integral Compressor		
Provide a description of the emission	on unit (type, method of operation,	design parameters, e	tc.):
Natural gas-fired reciprocating engine	e/integral compressor		
Manufacturer: Cooper	Model number: GMV-8TF	Serial number: 41568	
Construction date: Pre-1947	Installation date: 1947	Modification date(s N/A	3):
Design Capacity (examples: furnac 880 hp	es - tons/hr, tanks - gallons):		
Maximum Hourly Throughput: 0.0074 MMscf/hr	Maximum Annual Throughput: 64.8 MMscf/yr	Maximum Operati 8,760 hrs/yr	ng Schedule:
Fuel Usage Data (fill out all applica	ble fields)		
Does this emission unit combust fue	el? _X_Yes No	If yes, is it?	
		Indirect Fired Fired	_XDirect
Maximum design heat input and/or 880 hp	r maximum horsepower rating:	Type and Btu/hr ra 8,400 Btu/hp-hr 0.0074 MMscf/hr	ting of burners:
List the primary fuel type(s) and if the maximum hourly and annual fu		(s). For each fuel typ	e listed, provide
Pipeline quality natural gas - Maximum hourly fuel usage - Maximum annual fuel usage			
Describe each fuel expected to be u	sed during the term of the permit.	1	
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	
	РРН	TPY
Carbon Monoxide (CO)	5.82	25.49
Nitrogen Oxides (NO _X)	57.62	252.38
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	0.28	1.24
Particulate Matter (PM ₁₀)	0.28	1.24
Total Particulate Matter (TSP)	0.36	1.56
Sulfur Dioxide (SO ₂)	<0.01	0.02
Volatile Organic Compounds (VOC)	4.46	19.54
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.06	0.25
Acrolein	0.06	0.25
Benzene	0.01	0.06
Ethylbenzene	< 0.01	< 0.01
Formaldehyde	0.28	1.20
Hexane	< 0.01	0.01
Toluene	0.01	0.03
Xylene	< 0.01	0.01
Regulated Pollutants other than	Potentia	l Emissions
Criteria and HAP	PPH	TPY

- CO, NOx, and VOC emission rates based on manufacturer specs.
- PM10, PM2.5, SO₂, and HAP emission factors based on AP-42 Section 3.2, Table 3.2-1.
- Formaldehyde emission rate based on an emission test report conducted in 2006 in accordance with EPA Method 320.

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40 CFR Part 63 Subpart ZZZZ – NESHAP maintenance requirements (TV 6.1.1, § 63.6603) 40 CFR Part 63 Subpart ZZZZ – NESHAP operating requirements (TV 6.1.1, § 63.6605 and § 63.6625) 40 CFR Part 63 Subpart ZZZZ – NESHAP continuous compliance requirements (TV 6.1.1, § 63.6640) 40 CFR Part 63 Subpart ZZZZ – NESHAP general requirements/provisions (TV 6.1.1, § 63.6665)

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

40 CFR Part 63 Subpart ZZZZ – Change oil and filter, inspect spark plugs, and inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, or utilize an oil analysis program (TV 6.1.1, § 63.6603) 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable general requirements/provisions (TV 6.1.1, § 63.6665) 40 CFR Part 63 Subpart ZZZZ – Operate and maintain the RICE according to the manufacturer's instructions OR develop and follow your own maintenance plan (TV 6.1.1, § 63.6625 and TV 6.1.1, § 63.6640) 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable monitoring and recordkeeping requirements (TV 6.2 and 6.4, § 63.6635, § 63.6655 and § 63.6660)

40 CFR Part 63 Subpart ZZZZ – Keep records of maintenance conducted on the RICE and the hours of operation (TV 6.4.1, § 63.6655)

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ___No

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

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number: EN05	Emission unit name: EN05	List any control dev with this emission u		
	Reciprocating Engine/Integral Compressor	N/A		
Provide a description of the emission	n unit (type, method of operation,	design parameters, et	tc.):	
Natural gas-fired reciprocating engine	e/integral compressor			
Manufacturer: Cooper	Model number: GMV-8TF	Serial number: 42413		
Construction date: Pre-1947	Installation date: 1947	Modification date(s N/A):	
Design Capacity (examples: furnac 880 hp	es - tons/hr, tanks - gallons):	I		
Maximum Hourly Throughput: 0.0074 MMscf/hr	Maximum Annual Throughput: 64.8 MMscf/yr	Maximum Operation 8,760 hrs/yr	ng Schedule:	
<i>Fuel Usage Data</i> (fill out all applica	ble fields)	I		
Does this emission unit combust fuel? _X_Yes No If yes, is it?				
Indirect FiredXDirect Fired				
Maximum design heat input and/or maximum horsepower rating: 880 hpType and Btu/hr rating of bu 8,400 Btu/hp-hr 0.0074 MMscf/hr			ting 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.				
 Pipeline quality natural gas Maximum hourly fuel usage = 0.0074 MMscf/hr Maximum annual fuel usage = 64.8 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	
	РРН	TPY
Carbon Monoxide (CO)	5.82	25.49
Nitrogen Oxides (NO _X)	57.62	252.38
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	0.28	1.24
Particulate Matter (PM ₁₀)	0.28	1.24
Total Particulate Matter (TSP)	0.36	1.56
Sulfur Dioxide (SO ₂)	<0.01	0.02
Volatile Organic Compounds (VOC)	4.46	19.54
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.06	0.25
Acrolein	0.06	0.25
Benzene	0.01	0.06
Ethylbenzene	< 0.01	< 0.01
Formaldehyde	0.28	1.20
Hexane	< 0.01	0.01
Toluene	0.01	0.03
Xylene	< 0.01	0.01
Regulated Pollutants other than	Potentia	1 Emissions
Criteria and HAP	PPH	TPY

- CO, NOx, and VOC emission rates based on manufacturer specs.
- PM10, PM2.5, SO₂, and HAP emission factors based on AP-42 Section 3.2, Table 3.2-1.
- Formaldehyde emission rate based on an emission test report conducted in 2006 in accordance with EPA Method 320.

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40 CFR Part 63 Subpart ZZZZ – NESHAP maintenance requirements (TV 6.1.1, § 63.6603) 40 CFR Part 63 Subpart ZZZZ – NESHAP operating requirements (TV 6.1.1, § 63.6605 and § 63.6625) 40 CFR Part 63 Subpart ZZZZ – NESHAP continuous compliance requirements (TV 6.1.1, § 63.6640) 40 CFR Part 63 Subpart ZZZZ – NESHAP general requirements/provisions (TV 6.1.1, § 63.6665)

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

40 CFR Part 63 Subpart ZZZZ – Change oil and filter, inspect spark plugs, and inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, or utilize an oil analysis program (TV 6.1.1, § 63.6603) 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable general requirements/provisions (TV 6.1.1, § 63.6665) 40 CFR Part 63 Subpart ZZZZ – Operate and maintain the RICE according to the manufacturer's instructions OR develop and follow your own maintenance plan (TV 6.1.1, § 63.6625 and TV 6.1.1, § 63.6640) 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable monitoring and recordkeeping requirements (TV 6.2 and 6.4, § 63.6635, § 63.6655 and § 63.6660)

40 CFR Part 63 Subpart ZZZZ – Keep records of maintenance conducted on the RICE and the hours of operation (TV 6.4.1, § 63.6655)

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ___No

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

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number: EN06	Emission unit name: EN06 Reciprocating Engine/Integral	List any control devices associate with this emission unit: N/A		
	Compressor			
Provide a description of the emission	on unit (type, method of operation,	design parameters, e	tc.):	
Natural gas-fired reciprocating engine	e/integral compressor			
Manufacturer: Cooper	Model number: GMV-8TF	Serial number: 41564		
Construction date: Pre-1947	Installation date: 1947	Modification date(s	s):	
Design Capacity (examples: furnac 880 hp	es - tons/hr, tanks - gallons):			
Maximum Hourly Throughput: 0.0074 MMscf/hr	Maximum Annual Throughput: 64.8 MMscf/yr	Maximum Operation 8,760 hrs/yr	ng Schedule:	
Fuel Usage Data (fill out all applica	ble fields)			
Does this emission unit combust fue	el? _X_Yes No	If yes, is it?		
Indirect Fired _XDirect Fired				
Maximum design heat input and/or maximum horsepower rating: 880 hpType and 8,400 Btu 0.0074 M			ting 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.				
 Pipeline quality natural gas Maximum hourly fuel usage = 0.0074 MMscf/hr Maximum annual fuel usage = 64.8 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	
	РРН	TPY
Carbon Monoxide (CO)	5.82	25.49
Nitrogen Oxides (NO _X)	57.62	252.38
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	0.28	1.24
Particulate Matter (PM ₁₀)	0.28	1.24
Total Particulate Matter (TSP)	0.36	1.56
Sulfur Dioxide (SO ₂)	<0.01	0.02
Volatile Organic Compounds (VOC)	4.46	19.54
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.06	0.25
Acrolein	0.06	0.25
Benzene	0.01	0.06
Ethylbenzene	< 0.01	< 0.01
Formaldehyde	0.28	1.20
Hexane	< 0.01	0.01
Toluene	0.01	0.03
Xylene	< 0.01	0.01
Regulated Pollutants other than	Potentia	1 Emissions
Criteria and HAP	PPH	TPY

- CO, NOx, and VOC emission rates based on manufacturer specs.
- PM10, PM2.5, SO₂, and HAP emission factors based on AP-42 Section 3.2, Table 3.2-1.
- Formaldehyde emission rate based on an emission test report conducted in 2006 in accordance with EPA Method 320.

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40 CFR Part 63 Subpart ZZZZ – NESHAP maintenance requirements (TV 6.1.1, § 63.6603) 40 CFR Part 63 Subpart ZZZZ – NESHAP operating requirements (TV 6.1.1, § 63.6605 and § 63.6625) 40 CFR Part 63 Subpart ZZZZ – NESHAP continuous compliance requirements (TV 6.1.1, § 63.6640) 40 CFR Part 63 Subpart ZZZZ – NESHAP general requirements/provisions (TV 6.1.1, § 63.6665)

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

40 CFR Part 63 Subpart ZZZZ – Change oil and filter, inspect spark plugs, and inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, or utilize an oil analysis program (TV 6.1.1, § 63.6603) 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable general requirements/provisions (TV 6.1.1, § 63.6665) 40 CFR Part 63 Subpart ZZZZ – Operate and maintain the RICE according to the manufacturer's instructions OR develop and follow your own maintenance plan (TV 6.1.1, § 63.6625 and TV 6.1.1, § 63.6640) 40 CFR Part 63 Subpart ZZZZ – Comply with all applicable monitoring and recordkeeping requirements (TV 6.2 and 6.4, § 63.6635, § 63.6655 and § 63.6660)

40 CFR Part 63 Subpart ZZZZ – Keep records of maintenance conducted on the RICE and the hours of operation (TV 6.4.1, § 63.6655)

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ___No

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

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number:	Emission unit name:	List any control devices associated		
F2	F2	with this emission u	init:	
	Flare			
Provide a description of the emission	n unit (type, method of operation, de	esign parameters, etc.	.):	
Dehydration Unit Flare				
Manufacturer: Questor	Model number: Q100	Serial number:		
Construction date:	Installation date: 2013	Modification date(s): N/A		
Design Capacity (examples: furnace Combustor Rating: 4.0 MMBtu/hr	s - tons/hr, tanks - gallons):			
Maximum Hourly Throughput: Fuel to pilot flame: 70.8 scf/hr	Maximum Annual Throughput: Fuel to pilot flame: 0.62 MMscf/yr	Maximum Operating Schedule: 8760 hrs/yr		
Fuel Usage Data (fill out all applicat	ble fields)			
Does this emission unit combust fuel? X_Yes No If yes, is it?				
		Indirect Fired	<u>X</u> Direct Fired	
Maximum design heat input and/or maximum horsepower rating: Combustor Rating: 4.0 MMBtu/hrType and Btu/hr rating of burner Combustor Rating: 4.0 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 to pilot throughput = 70.8 scf/hr Maximum annual fuel to pilot throughput = 0.62 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	

TPY 0.05 1.31 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	
1.31 N/A N/A N/A N/A 0.03	
N/A N/A N/A N/A 0.03	
N/A N/A N/A 0.03	
N/A N/A N/A 0.03	
N/A N/A 0.03	
N/A 0.03	
0.03	
sions	
Potential Emissions	
TPY	
N/A	
N/A	
N/A	
N/A	
sions	
TPY	
si	

- Ton/yr values based on Dominion Spec. Sheet dated 08/20/13

Page __2__ of ___3__

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> 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? _X_Yes ___No

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

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number: REB1	Emission unit name: REB1 Dehydration Unit Reboiler	List any control devices associated with this emission unit: N/A		
Provide a description of the emission A natural gas fired boiler used to rehea		esign parameters, etc.):	
Manufacturer: ETI	Model number:	Serial number:		
Construction date:	Installation date: 2005	Modification date(s): N/A		
Design Capacity (examples: furnace 0.75 MMBtu/hr	s - tons/hr, tanks - gallons):			
Maximum Hourly Throughput: 735 scf/hr	Maximum Annual Throughput: 6.44 MMscf/yr	Maximum Operating Schedule: 8,760 hrs/yr		
Fuel Usage Data (fill out all applicat	ble fields)			
Does this emission unit combust fuel? _X_Yes No If yes, is it?				
		Indirect Fired	X_Direct Fired	
Maximum design heat input and/or maximum horsepower rating:Type and Btu/hr rating of burners:0.75 MMBtu/hr			ting 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 = 735 scf/hr				
- Maximum annual fuel usage = 6.44 MMscf/yr				
Describe each fuel expected to be us	ed during the term of the permit.	1 1		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	
Natural gas	20 gr sulfur/100 cf	N/A	1,000 Btu/cf	

Criteria Pollutants	Potential Emissions		
	РРН	TPY	
Carbon Monoxide (CO)	0.06	0.27	
litrogen Oxides (NO _X)	0.07	0.32	
ead (Pb)	N/A	N/A	
articulate Matter (PM _{2.5})	< 0.01	0.01	
articulate Matter (PM ₁₀)	< 0.01	0.01	
otal Particulate Matter (TSP)	0.01	0.02	
ulfur Dioxide (SO ₂)	< 0.01	< 0.01	
olatile Organic Compounds (VOC)	< 0.01	0.02	
Hazardous Air Pollutants	Potential Emissions		
	РРН	TPY	
enzene	< 0.01	< 0.01	
ormaldehyde	< 0.01	< 0.01	
Hexane	< 0.01	0.01	
oluene	< 0.01	< 0.01	
Regulated Pollutants other than	Potential	l Emissions	
Criteria and HAP	РРН	TPY	

- NOx and CO emission factors from AP-42, Section 1.4, Natural Gas Combustion, Table 1.4-1, 7/98
- VOC, PM, PM10, PM2.5, 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

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> 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 10-5.1 – H₂S emissions shall not exceed 50 gr/100 cf of gas (TV 3.1.10) 45 CSR 2-3.1 – Opacity limit of less than 10% on a six minute block average (TV 4.1.1; R13-2626D, 5.1.1) 45 CSR 13 – Fuel consumption limited to 735 scf/hr and 6.44 MMscf/yr of natural gas (TV 4.1.3; R13-2626D 5.1.3)

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 – Compliance with 4.1.1 shall be demonstrated by a Method 9 emission observations, if requested (TV 4.1.2 and 4.2.1; R13-2626D 5.1.2 and 5.2.1)

45 CSR 13 – Compliance with 4.1.3 shall be demonstrated by maintaining monthly records of the amount of natural gas consumed and the hours of operation (TV 4.4.1; R13-2626D 5.4.1)

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ___No

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

Attachment G

Air Pollution Control Device Form

ATTACHMENT G - Air Pollution Control Device Form				
Control device ID number: F2	List all emission units as DEHY1	List all emission units associated with this control device. DEHY1		
Manufacturer: QTI	Model number: Q100	Inst 2013	allation date: 3	
Type of Air Pollution Control De	vice:			
Baghouse/Fabric Filter	Venturi Scrubber	Multi	clone	
Carbon Bed Adsorber	Packed Tower Scrubber	Single	e Cyclone	
Carbon Drum(s)	Other Wet Scrubber	Cyclo	one Bank	
Catalytic Incinerator	Condenser	Settlin	ng Chamber	
Thermal Incinerator	<u>X</u> Flare	Other	(describe)	
Wet Plate Electrostatic Precipitator Dry Plate Electrostatic Precipitato			late Electrostatic Precipitator	
List the pollutants for which this device is intended to control and the capture and control efficiencies.				
Pollutant	Control Efficiency			

Pollutant	Capture Efficiency	Control Efficiency
VOC		95%
Benzene		95%
Ethylbenzene		95%
n-Hexane		95%
Toluene		95%
Xylene		95%

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

4.00 MMBtu/hr burner

Is this device subject to the CAM requirements of 40 C.F.R. 64? _____Yes ____X_No

If Yes, Complete ATTACHMENT H

If No, **Provide justification.** The dehy unit (DEHY1) 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 (R13-2626D) 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.

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

45 CSR 6-4.3 and 45 CSR 13 – Visible emissions (TV 5.1.1, R13-2626D 6.1.1) 45 CSR 30-12.7 and 45 CSR 13 – Operational design limits and routine maintenance (TV 5.1.2, R13-2626D 6.1.2, 6.1.3) 45 CSR 6-4.1 – Particulate matter emission limit (TV 5.1.4, R13-2626D 6.1.4)

45 CSR 6-4.6 - Incinerator odor prevention requirements (TV 5.1.6, R13-2626D 6.1.6)

45 CSR 13 – Emission limits (TV 5.1.8, R13-2626D 6.1.8)

Monitoring

45 CSR 30-5.1.c - Monthly visual emission checks (TV 3.2.1)

45 CSR 13 – Compliance with 5.1.2.c shall be demonstrated by continuously monitoring using a thermocouple to detect a presence of a flame (TV 5.2.1, R13-2626D 6.2.1, 6.1.3)

45 CSR 13 – Compliance with 5.1.1 shall be demonstrated by monthly visible emission checks and/or opacity monitoring (TV 5.2.2, R13-2626D 6.2.2)

Testing

45 CSR §30-5.1.c – Initial Method 22 (TV 5.3.3)

Recordkeeping

45 CSR 13 – Maintain a continuous record of the times and duration of all periods during which the pilot flame was absent (TV 5.4.2, R13-2626D 6.4.2)

45 CSR 30-5.1.c and 45 CSR 13 – Maintain a record of the flare design evaluation (TV 5.4.3; R13-2626D 6.4.3) 45 CSR 30-5.1.c – Maintain records of the initial Method 22 (TV 5.4.6)

Reporting

45 CSR 30-5.1.c and 45 CSR 13 – Reporting of deviations of visible emissions requirements (TV 5.5.1, R13-2626 6.5.1)

45 CSR 30-5.1.c – Reporting of any deviation from the flare design and operation criteria in 5.1.2 (TV 5.5.3)

