Dominion Resources Services, Inc.
5000 Dominion Boulevard, Glen Allen, VA 23060

dom.com

January 8, 2016

BY: U.S. CERTIFIED MAIL, RETURN RECEIPT REQUESTED
9590 9401 0037 5168 3632 29

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

RE: Dominion Transmission, Inc.
Hastings Compressor Station (ID# 103-00006)
R13 Class I Administrative Update (Permit No. R13-3249)

Dear Mr. Durham,

Enclosed are one complete original and two (2) cd copies of a 45 CSR 13 Class I Administrative Update permit application for a request to include AUX06 (Generac QT080 natural gas emergency generator) and all related requirements from Dominion Transmission, Inc.'s (DTI) Mockingbird Hill Compressor Station R13 permit (R13-2555B) to DTI's Hastings Compressor Station R13 permit (R13-3249). The emergency generator is actually located at DTI's Hastings Compressor Station, as stated per the original application submitted 6/5/12. A Class I Administrative Update will also be submitted to WVDEP to request the removal of AUX06 and all related requirements from the R13 permit (R13-2555B) for DTI's Mockingbird Hill Compressor Station.

Currently, the Hastings Compressor Station, Mockingbird Hill Compressor Station, and Lewis Wetzel Compressor Station are under one Title V permit (R30-10300006-2011). The enclosed application also includes the Title V Operating Permit revision forms for the Title V permit.

No application fee is needed for this R13 application since it is a Class I Administrative Update.

If you have any questions regarding this application, please feel free to contact Rebekah Remick at (804) 273-3536 or Rebekah.J.Remick@dom.com.

Sincerely,

Amanda Tornabene

Amanda B. Tornabene
Director, Gas Environmental Services

APPLICATION FOR R13 PERMIT
CLASS I ADMINISTRATIVE UPDATE

Dominion Transmission, Inc.
Hastings Compressor Station
Station ID# 103-00006

January 2016

DOMINION TRANSMISSION, INC.
HASTINGS COMPRESSOR STATION

CLASS I ADMINISTRATIVE UPDATE

TABLE OF CONTENTS

ATTACHMENTS

**Note: There are no Attachments B, C, F, H-K, M, O-R for this permit application per WVDEP correspondence.

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

601 57th Street, SE
Charleston, WV 25304
(304) 926-0475
www.dep.wv.gov/daq

APPLICATION FOR NSR PERMIT AND TITLE V PERMIT REVISION (OPTIONAL)

PLEASE CHECK ALL THAT APPLY TO **NSR (45CSR13)** (IF KNOWN):

☐ **CONSTRUCTION** ☐ **MODIFICATION** ☐ **RELOCATION**
☒ **CLASS I ADMINISTRATIVE UPDATE** ☐ **TEMPORARY**
☐ **CLASS II ADMINISTRATIVE UPDATE** ☐ **AFTER-THE-FACT**

PLEASE CHECK TYPE OF **45CSR30 (TITLE V)** REVISION (IF ANY):

☒ **ADMINISTRATIVE AMENDMENT** ☐ **MINOR MODIFICATION**
☐ **SIGNIFICANT MODIFICATION**

IF ANY BOX ABOVE IS CHECKED, INCLUDE TITLE V REVISION INFORMATION AS **ATTACHMENT S** TO THIS APPLICATION

FOR TITLE V FACILITIES ONLY: Please refer to "Title V Revision Guidance" in order to determine your Title V Revision options (Appendix A, "Title V Permit Revision Flowchart") and ability to operate with the changes requested in this Permit Application.

Section I. General

1. Name of applicant *(as registered with the WV Secretary of State's Office):*
Dominion Transmission, Inc.

2. Federal Employer ID No. ***(FEIN):***
550629203

3. Name of facility *(if different from above):*
Hastings Compressor Station

Currently, the Hastings Compressor Station Title V permit aggregates the emissions from the Hastings Compressor Station, Mockingbird Hill Compressor Station, and the Lewis Wetzel Compressor Station. This permit application is for a Class I Administrative Update proposed at the Hastings Compressor Station.

4. The applicant is the:
☐ **OWNER** ☐ **OPERATOR** ☒ **BOTH**

5A. Applicant's mailing address:
925 White Oaks Blvd.
Bridgeport, WV 26330

5B. Facility's present physical address:
P.O. Box 450, Route 20
Pine Grove, WV 26419

6. **West Virginia Business Registration.** Is the applicant a resident of the State of West Virginia? ☒ **YES** ☐ **NO**

- If **YES,** provide a copy of the **Certificate of Incorporation/Organization/Limited Partnership** (one page) including any name change amendments or other Business Registration Certificate as **Attachment A.**
- If **NO,** provide a copy of the **Certificate of Authority/Authority of L.L.C./Registration** (one page) including any name change amendments or other Business Certificate as **Attachment A.**

7. If applicant is a subsidiary corporation, please provide the name of parent corporation:

8. Does the applicant own, lease, have an option to buy or otherwise have control of the *proposed site?* ☒ **YES** ☐ **NO**

- If **YES,** please explain: Own
- If **NO,** you are not eligible for a permit for this source.

9. Type of plant or facility (stationary source) to be **constructed, modified, relocated, administratively updated** or **temporarily permitted** (e.g., coal preparation plant, primary crusher, etc.): Natural gas compressor station

10. North American Industry Classification System **(NAICS)** code for the facility:
486210

11A. DAQ Plant ID No. (for existing facilities only): 103-00006	11B. List all current 45CSR13 and 45CSR30 (Title V) permit numbers associated with this process (for existing facilities only): R13-2555B and R13-3249 R30-10300006-2011

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

12A.

- For **Modifications, Administrative Updates** or **Temporary permits** at an existing facility, please provide directions to the *present location* of the facility from the nearest state road;
- For **Construction** or **Relocation permits,** please provide directions to the *proposed new site location* from the nearest state road. Include a **MAP** as **Attachment B**.

From Clarksburg, take Route 20 North for 37 miles to Hastings. The Station entrance is on the left side of the road.

12.B. New site address (if applicable):	12C. Nearest city or town: Pine Grove	12D. County: Wetzel
12.E. UTM Northing (KM): 4377.66	12F. UTM Easting (KM): 528.64	12G. UTM Zone: 17

13. Briefly describe the proposed change(s) at the facility:
Removing AUX06 from the Mockingbird Hill Compressor Station R13 permit as AUX06 is actually located at Hastings Compressor Station (per our application submitted 6/5/12).

14A. Provide the date of anticipated installation or change: asap – If this is an **After-The-Fact** permit application, provide the date upon which the proposed change did happen: / /	14B. Date of anticipated Start-Up if a permit is granted: N/A

14C. Provide a **Schedule** of the planned **Installation** of/**Change** to and **Start-Up** of each of the units proposed in this permit application as **Attachment C** (if more than one unit is involved).

15. Provide maximum projected **Operating Schedule** of activity/activities outlined in this application:
Hours Per Day 24 Days Per Week 7 Weeks Per Year 3 (500 hrs/yr)

16. Is demolition or physical renovation at an existing facility involved? ☐ **YES** ☒ **NO**

17**. Risk Management Plans.** If this facility is subject to 112(r) of the 1990 CAAA, or will become subject due to proposed changes (for applicability help see www.epa.gov/ceppo), submit your **Risk Management Plan (RMP)** to U. S. EPA Region III.

18**. Regulatory Discussion.** List all Federal and State air pollution control regulations that you believe are applicable to the proposed process *(if known).* A list of possible applicable requirements is also included in Attachment S of this application (Title V Permit Revision Information). Discuss applicability and proposed demonstration(s) of compliance *(if known).* Provide this information as **Attachment D.**

Section II. Additional attachments and supporting documents.

19. Include a check payable to WVDEP – Division of Air Quality with the appropriate **application fee** (per 45CSR22 and 45CSR13).

20. Include a **Table of Contents** as the first page of your application package.

21. Provide a **Plot Plan,** e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is or is to be located as **Attachment E** (Refer to ***Plot Plan Guidance***) **.**
– Indicate the location of the nearest occupied structure (e.g. church, school, business, residence).

22. Provide a **Detailed Process Flow Diagram(s)** showing each proposed or modified emissions unit, emission point and control device as **Attachment F.**

23. Provide a **Process Description** as **Attachment G.**
– Also describe and quantify to the extent possible all changes made to the facility since the last permit review (if applicable).

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

24. Provide **Material Safety Data Sheets (MSDS)** for all materials processed, used or produced as **Attachment H.**

– For chemical processes, provide a MSDS for each compound emitted to the air.

25. Fill out the **Emission Units Table** and provide it as **Attachment I.**

26. Fill out the **Emission Points Data Summary Sheet (Table 1 and Table 2)** and provide it as **Attachment J.**

27. Fill out the **Fugitive Emissions Data Summary Sheet** and provide it as **Attachment K.**

28. Check all applicable **Emissions Unit Data Sheets** listed below:

☐ Bulk Liquid Transfer Operations	☐ Haul Road Emissions	☐ Quarry
☐ Chemical Processes	☐ Hot Mix Asphalt Plant	☐ Solid Materials Sizing, Handling and Storage Facilities
☐ Concrete Batch Plant	☐ Incinerator	☐ Storage Tanks
☐ Grey Iron and Steel Foundry	☐ Indirect Heat Exchanger	

☒ General Emission Unit, specify Emergency Generator

Fill out and provide the **Emissions Unit Data Sheet(s)** as **Attachment L.**

29. Check all applicable **Air Pollution Control Device Sheets** listed below:

☐ Absorption Systems	☐ Baghouse	☐ Flare (Vapor Incinerator)
☐ Adsorption Systems	☐ Condenser	☐ Mechanical Collector
☐ Afterburner	☐ Electrostatic Precipitator	☐ Wet Collecting System

☐ Other Collectors, specify

Fill out and provide the **Air Pollution Control Device Sheet(s)** as **Attachment M.**

30. Provide all **Supporting Emissions Calculations** as **Attachment N,** or attach the calculations directly to the forms listed in Items 28 through 31.

31. **Monitoring, Recordkeeping, Reporting and Testing Plans.** Attach proposed monitoring, recordkeeping, reporting and testing plans in order to demonstrate compliance with the proposed emissions limits and operating parameters in this permit application. Provide this information as **Attachment O.**

➢ Please be aware that all permits must be practically enforceable whether or not the applicant chooses to propose such measures. Additionally, the DAQ may not be able to accept all measures proposed by the applicant. If none of these plans are proposed by the applicant, DAQ will develop such plans and include them in the permit.

32. **Public Notice.** At the time that the application is submitted, place a **Class I Legal Advertisement** in a newspaper of general circulation in the area where the source is or will be located (See 45CSR§13-8.3 through 45CSR§13-8.5 and ***Example Legal Advertisement*** for details). Please submit the **Affidavit of Publication** as **Attachment P** immediately upon receipt.

33. **Business Confidentiality Claims.** Does this application include confidential information (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 "***Precautionary Notice – Claims of Confidentiality"*** guidance found in the ***General Instructions*** as **Attachment Q.**

Section III. Certification of Information

34. **Authority/Delegation of Authority.** Only required when someone other than the responsible official signs the application. Check applicable **Authority Form** below:

☐ Authority of Corporation or Other Business Entity	☐ Authority of Partnership
☐ Authority of Governmental Agency	☐ Authority of Limited Partnership

Submit completed and signed **Authority Form** as **Attachment R.**

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

35A. **Certification of Information.** To certify this permit application, a Responsible Official (per 45CSR§13-2.22 and 45CSR§30-2.28) or Authorized Representative shall check the appropriate box and sign below.

Certification of Truth, Accuracy, and Completeness

I, the undersigned ☒ **Responsible Official** / ☐ **Authorized Representative,** hereby certify that all information contained in this application and any supporting documents appended hereto, is true, accurate, and complete based on information and belief after reasonable inquiry I further agree to assume responsibility for the construction, modification and/or relocation and operation of the stationary source described herein in accordance with this application and any amendments thereto, as well as the Department of Environmental Protection, Division of Air Quality permit issued in accordance with this application, along with all applicable rules and regulations of the West Virginia Division of Air Quality and W.Va. Code § 22-5-1 et seq. (State Air Pollution Control Act). If the business or agency changes its Responsible Official or Authorized Representative, the Director of the Division of Air Quality will be notified in writing within 30 days of the official change.

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.

SIGNATURE _____ DATE: 01/04/2016

(Please use blue ink) *(Please use blue ink)*

35B. Printed name of signee: Brian Sheppard		35C. Title: Vice President, Pipeline Operations
35D. E-mail: Brian.C.Sheppard@dom.com	36E. Phone: (681) 842-3733	36F. FAX: (681) 842-3323
36A. Printed name of contact person (if different from above): Rebekah Remick		36B. Title: Environmental Consultant
36C. E-mail: Rebekah.J.Remick@dom.com	36D. Phone: 804-273-3536	36E. FAX: 804-273-2964

PLEASE CHECK ALL APPLICABLE ATTACHMENTS INCLUDED WITH THIS PERMIT APPLICATION:

- ☒ **Attachment A: Business Certificate**
- ☐ **Attachment B: Map(s)**
- ☐ **Attachment C: Installation and Start Up Schedule**
- ☒ **Attachment D: Regulatory Discussion**
- ☒ **Attachment E: Plot Plan**
- ☐ **Attachment F: Detailed Process Flow Diagram(s)**
- ☒ **Attachment G: Process Description**
- ☐ **Attachment H: Material Safety Data Sheets (MSDS)**
- ☐ **Attachment I: Emission Units Table**
- ☐ **Attachment J: Emission Points Data Summary Sheet**
- ☐ **Attachment K: Fugitive Emissions Data Summary Sheet**
- ☒ **Attachment L: Emissions Unit Data Sheet(s)**
- ☐ **Attachment M: Air Pollution Control Device Sheet(s)**
- ☒ **Attachment N: Supporting Emissions Calculations**
- ☐ **Attachment O: Monitoring/Recordkeeping/Reporting/Testing Plans**
- ☐ **Attachment P: Public Notice**
- ☐ **Attachment Q: Business Confidential Claims**
- ☐ **Attachment R: Authority Forms**
- ☒ **Attachment S: Title V Permit Revision Information**
- ☐ **Application Fee**

Please mail an original and three (3) copies of the complete permit application with the signature(s) to the DAQ, Permitting Section, at the address listed on the first page of this application. Please DO NOT fax permit applications.

FOR AGENCY USE ONLY – IF THIS IS A TITLE V SOURCE:

- ☐ ***Forward 1 copy of the application to the Title V Permitting Group and:***
- ☐ ***For Title V Administrative Amendments:***
  - ☐ ***NSR permit writer should notify Title V permit writer of draft permit,***
- ☐ ***For Title V Minor Modifications:***
  - ☐ ***Title V permit writer should send appropriate notification to EPA and affected states within 5 days of receipt,***
  - ☐ ***NSR permit writer should notify Title V permit writer of draft permit.***
- ☐ ***For Title V Significant Modifications processed in parallel with NSR Permit revision:***
  - ☐ ***NSR permit writer should notify a Title V permit writer of draft permit,***
  - ☐ ***Public notice should reference both 45CSR13 and Title V permits,***
  - ☐ ***EPA has 45 day review period of a draft permit.***

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

Attachment A

Current Business Certificate

WEST VIRGINIA
STATE TAX DEPARTMENT

BUSINESS REGISTRATION CERTIFICATE

ISSUED TO:
DOMINION TRANSMISSION INC
445 W MAIN ST
CLARKSBURG, WV 26301-2843

BUSINESS REGISTRATION ACCOUNT NUMBER: **1038-3470**

This certificate is issued on: 06/8/2011

This certificate is issued by
the West Virginia State Tax Commissioner
in accordance with Chapter 11, Article 12, of the West Virginia Code

The person or organization identified on this certificate is registered to conduct business in the State of West Virginia at the location above.

This certificate is not transferrable and must be displayed at the location for which issued.

This certificate shall be permanent until cessation of the business for which the certificate of registration was granted or until it is suspended, revoked or cancelled by the Tax Commissioner.

Change in name or change of location shall be considered a cessation of the business and a new certificate shall be required.

TRAVELING/STREET VENDORS: Must carry a copy of this certificate in every vehicle operated by them.
CONTRACTORS, DRILLING OPERATORS, TIMBER/LOGGING OPERATIONS: Must have a copy of this certificate displayed at every job site within West Virginia.

atL006 v.4
L0228957312

Attachment D

Regulatory Discussion

REGULATORY DISCUSSION

This section provides an air quality regulatory review of the proposed Class I Administrative Update to Hastings Compressor Station.

- New Source Performance Standards (NSPS) (40 CFR 60)
- National Emission Standards for Hazardous Air Pollutants (NESHAP) (40 CFR 63)
- West Virginia Minor Source Permitting (WV Regulation 13)

NSPS Subpart JJJJ

The Generac engine is subject to the requirements contained in 40 CFR Part 60, Subpart JJJJ – *Standards of Performance for Stationary Spark Ignition Internal Combustion Engines* (Subpart JJJJ) since the engine commenced construction after June 12, 2006, and the engine has been manufactured on or after January 1, 2009 for emergency engines with maximum engine power greater than 25 hp but less than 130 hp. The engine is considered certified. Below is a summary of the requirements contained in Subpart JJJJ as they pertain to the Generac engine:

- Engine Limits (Manufacturer Date after January 1, 2009 (60.4233(e))
    - NOx = 2.0 g/hp-hr (Emission Standard is in terms of NOx + VOC)
    - CO = 387 g/hp-hr
- Monitoring Requirements – If the engine is built on or after July 1, 2010 and does not meet the standards applicable to non-emergency engines, must install and maintain a non-resettable hour meter to monitor and record the hours of operation of the engine (60.4237(a)).
- Testing Requirements – None. Dominion has purchased a certified engine in accordance with the rule (60.4243(b)(1)).
- Maintenance checks and readiness testing of the engine is limited to no more than 100 hrs/yr. There is no time limit on the use of the emergency SI ICE in emergency situations (60.4243(d)).
- Recordkeeping Requirements
    - Records of conducted maintenance (60.4243(a)(1) and 60.4245(a)(2))
    - Records from manufacturer that the engine is certified (60.4245(a)(3))
    - Records from the non-resettable hour meter of the hours of operation of the engine (60.4245(b))
- Reporting Requirements - None

NESHAP Subpart ZZZZ

The Generac engine is subject to the requirements contained in 40 CFR Part 63, Subpart ZZZZ – *National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE)* (Subpart ZZZZ) since the facility owns/operates the stationary RICE. For the purpose of determining the applicability to this rule, at the time the Generac engine was installed, the Hastings Compressor Station was considered to be a major source of HAP. The engine is then considered a new source at a major source of HAP since the construction of the engine commenced after June 12, 2006.

There are no specific requirements under Subpart ZZZZ for this engine. Per 63.6590(c)(1), new stationary engines located at a major source of HAP must meet the requirements of Subpart

ZZZZ by meeting the requirements in 40 CFR Part 60, Subpart JJJJ. No further requirements in Subpart ZZZZ apply.

West Virginia Minor Source Regulations (R13)

The inclusion of the Generac engine is considered a Class I Administrative Update in accordance with R13 regulations since it is be a correction of a typographical error as stated in 45-13-4.2.a.1. No emission changes are associated with this permit action as they are already accounted for in the Mockingbird Hill Compressor Station R13 permit.

Attachment E

Plot Plan

GALMISH LOADING AREA
SEE FIGURE 1–4F

HASTINGS EXTRACTION PLANT
SEE FIGURE 1–4B

HASTINGS ELECTRIC COMPRESSOR STATION
SEE FIGURE 1–4D

HASTINGS COMPRESSOR STATION
AND LEWIS WETZEL COMPRESSOR STATION
SEE FIGURES 1–4C AND 1–4G

HASTINGS PIG TRAP AND SLUG CATCHER AREA
SEE FIGURE 1–4E

QUADRANGLE LOCATION

REFERENCE: USGS 7.5' QUADRANGLE MAP OF: PINE GROVE, WEST VIRGINIA; DATED 1960, PHOTOREVISED 1976.

DRAWN BY	DJF
DATE	7/18/12
CHECKED BY	RAD
SET JOB NO.	212084
SET DWG FILE	HASTINGS SITEm01.dwg
DRAWING SCALE	1"=1200'

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

DOMINION TRANSMISSION

HASTINGS COMPLEX
WETSEL COUNTY, WEST VIRGINIA
SITE LOCATION MAP

DRAWING NAME	REV.
FIGURES 1–4A & C–10	1

Plot: env045 08/22/2012 10:45 G:\DOMINION\212084\HASTINGS SITE 1–4Am01.dwg

Attachment G

Process Description

PROCESS DESCRIPTION

Dominion Transmission Inc. (DTI) is submitting this Class I Administrative Update permit application for a request to include an emergency generator (AUX06) and all related requirements from DTI's Mockingbird Hill Compressor Station R13 permit (R13-2555B) to DTI's Hastings Compressor Station R13 permit (R13-3249). The emergency generator is actually located at DTI's Hastings Compressor Station, as stated per the original application submitted 6/5/12.

The emergency generator is a Generac QT080 and is considered a certified engine conforming to the standards in 40 CFR Part 60 Subpart JJJJ. The engine is rated at 128 hp and is a 4-stroke, lean burn engine. The generator set is considered an emergency unit and operation is limited to 500 hrs/yr.

Attachment L

Emissions Unit Data Sheet

Attachment L
EMISSIONS UNIT DATA SHEET
GENERAL

To be used for affected sources other than asphalt plants, foundries, incinerators, indirect heat exchangers, and quarries.

Identification Number (as assigned on *Equipment List Form*): AUX06

1. Name or type and model of proposed affected source: One (1) auxiliary generator - Generac QT080, 128 hp
2. On a separate sheet(s), furnish a sketch(es) of this affected source. If a modification is to be made to this source, clearly indicated the change(s). Provide a narrative description of all features of the affected source which may affect the production of air pollutants.
3. Name(s) and maximum amount of proposed process material(s) charged per hour: Natural gas consumption ~ 1,154 cf/hr
4. Name(s) and maximum amount of proposed material(s) produced per hour:
5. Give chemical reactions, if applicable, that will be involved in the generation of air pollutants:

* The identification number which appears here must correspond to the air pollution control device identification number appearing on the *List Form*.

6. Combustion Data (if applicable):

(a) Type and amount in appropriate units of fuel(s) to be burned:

Natural gas consumption ~ 1,154 cf/hr

(b) Chemical analysis of proposed fuel(s), excluding coal, including maximum percent sulfur and ash:

(c) Theoretical combustion air requirement (ACF/unit of fuel):

@ °F and psia.

(d) Percent excess air:

(e) Type and BTU/hr of burners and all other firing equipment planned to be used:

(f) If coal is proposed as a source of fuel, identify supplier and seams and give sizing of the coal as it will be fired:

(g) Proposed maximum design heat input: × 10^6 BTU/hr.

7. Projected operating schedule:

Hours/Day	24	Days/Week	7	Weeks/Year	3 (500 hrs/yr)

8. Projected amount of pollutants that would be emitted from this affected source if no control devices were used:

@ °F and psia

a.	NO_X	1.14	lb/hr	grains/ACF
b.	SO_2	< 0.01	lb/hr	grains/ACF
c.	CO	20.57	lb/hr	grains/ACF
d.	PM_{10}	< 0.01	lb/hr	grains/ACF
e.	Hydrocarbons		lb/hr	grains/ACF
f.	VOCs	0.39	lb/hr	grains/ACF
g.	Pb		lb/hr	grains/ACF
h.	Specify other(s)			
	Negligible, Refer to Attachment N		lb/hr	grains/ACF
			lb/hr	grains/ACF
			lb/hr	grains/ACF
			lb/hr	grains/ACF

NOTE: (1) An Air Pollution Control Device Sheet must be completed for any air pollution device(s) used to control emissions from this affected source.

(2) Complete the Emission Points Data Sheet.

9. Proposed Monitoring, Recordkeeping, Reporting, and Testing
Please propose monitoring, recordkeeping, and reporting in order to demonstrate compliance with the proposed operating parameters. Please propose testing in order to demonstrate compliance with the proposed emissions limits.

MONITORING	RECORDKEEPING
Refer to Regulatory Discussion in Attachment D for a description of all monitoring, testing, recordkeeping, and reporting requirements.	Refer to Regulatory Discussion in Attachment D for a description of all monitoring, testing, recordkeeping, and reporting requirements.
REPORTING	**TESTING**
Refer to Regulatory Discussion in Attachment D for a description of all monitoring, testing, recordkeeping, and reporting requirements.	Refer to Regulatory Discussion in Attachment D for a description of all monitoring, testing, recordkeeping, and reporting requirements.

MONITORING. PLEASE LIST AND DESCRIBE THE PROCESS PARAMETERS AND RANGES THAT ARE PROPOSED TO BE MONITORED IN ORDER TO DEMONSTRATE COMPLIANCE WITH THE OPERATION OF THIS PROCESS EQUIPMENT OPERATION/AIR POLLUTION CONTROL DEVICE.

RECORDKEEPING. PLEASE DESCRIBE THE PROPOSED RECORDKEEPING THAT WILL ACCOMPANY THE MONITORING.

REPORTING. PLEASE DESCRIBE THE PROPOSED FREQUENCY OF REPORTING OF THE RECORDKEEPING.

TESTING. PLEASE DESCRIBE ANY PROPOSED EMISSIONS TESTING FOR THIS PROCESS EQUIPMENT/AIR POLLUTION CONTROL DEVICE.

10. Describe all operating ranges and maintenance procedures required by Manufacturer to maintain warranty

Attachment N

Supporting Emission Calculations

Auxiliary Generator (AUX06) Potential Emissions — Updated: Dec 2015
Dominion Transmission, Inc.
Hastings Compressor Station

Input Data:	Generac QT080		
Design Class:	4-stroke lean burn		
Engine Power:	128.0	hp	(Manufacturer Specs)
Fuel Input:	1.18	MMBtu/hr	
Maximum Hours of Operation:	8,760	hrs/yr	
	500	hrs/yr	
Fuel Throughput:	1,154	cf/hr	(Manufacturer Specs)
	0.58	MMcf/yr	
Heating Value of Natural Gas:	1,020	Btu/cf	

Emission Calculations

Pollutant	Emission Factor		Emissions (8760 hrs/yr)			Emissions (500 hrs/yr)		
			(lb/hr)	(lbs/day)	(tons/yr)	(lb/hr)	(lbs/day)	(tons/yr)
Criteria Pollutants								
PM (filterable)	7.71E-05	lb/MMBtu	9.08E-05	0.00	0.00	9.08E-05	0.00	2.27E-05
PM-10 (filterable)	7.71E-05	lb/MMBtu	9.08E-05	0.00	0.00	9.08E-05	0.00	2.27E-05
PM-2.5 (filterable)	7.71E-05	lb/MMBtu	9.08E-05	0.00	0.00	9.08E-05	0.00	2.27E-05
PM (condensibles)	9.91E-03	lb/MMBtu	1.17E-02	0.28	0.05	1.17E-02	0.28	2.92E-03
SO2	5.88E-04	lb/MMBtu	6.92E-04	0.02	3.03E-03	6.92E-04	0.02	1.73E-04
CO	72.91	g/hp-hr	20.57	493.79	90.12	20.57	493.79	5.14
NO_x	4.04	g/hp-hr	1.14	27.36	4.99	1.14	27.36	0.29
VOC	1.39	g/hp-hr	0.39	9.41	1.72	0.39	9.41	0.10
Greenhouse Gases								
CO_2	117.0	lb/MMBtu	137.69	--	603.09	137.69	--	34.42
CH_4	2.20E-03	lb/MMBtu	0.00	--	0.01	0.00	--	0.00
N_2O	2.20E-04	lb/MMBtu	0.00	--	0.00	0.00	--	0.00
CO_2e	117.1	lb/MMBtu	137.83	--	603.71	137.83	--	34.46
Hazardous Air Pollutants								
1,1,2,2-Tetrachloroethane	4.00E-05	lb/MMBtu	4.71E-05	--	2.06E-04	4.71E-05	--	1.18E-05
1,1,2-Trichloroethane	3.18E-05	lb/MMBtu	3.74E-05	--	1.64E-04	3.74E-05	--	9.36E-06
1,1-Dichloroethane	2.36E-05	lb/MMBtu	2.78E-05	--	1.22E-04	2.78E-05	--	6.94E-06
1,2-Dichloroethane	2.36E-05	lb/MMBtu	2.78E-05	--	1.22E-04	2.78E-05	--	6.94E-06
1,3-Butadiene	2.67E-04	lb/MMBtu	3.14E-04	--	1.38E-03	3.14E-04	--	7.86E-05
1,3-Dichloropropene	2.64E-05	lb/MMBtu	3.11E-05	--	1.36E-04	3.11E-05	--	7.77E-06
Acetaldehyde	8.36E-03	lb/MMBtu	9.84E-03	--	4.31E-02	9.84E-03	--	2.46E-03
Acrolein	5.14E-03	lb/MMBtu	6.05E-03	--	2.65E-02	6.05E-03	--	1.51E-03
Benzene	4.40E-04	lb/MMBtu	5.18E-04	--	2.27E-03	5.18E-04	--	1.29E-04
Biphenyl	2.12E-04	lb/MMBtu	2.50E-04	--	1.09E-03	2.50E-04	--	6.24E-05
Carbon Tetrachloride	3.67E-05	lb/MMBtu	4.32E-05	--	1.89E-04	4.32E-05	--	1.08E-05
Chlorobenzene	3.04E-05	lb/MMBtu	3.58E-05	--	1.57E-04	3.58E-05	--	8.95E-06
Chloroform	2.85E-05	lb/MMBtu	3.35E-05	--	1.47E-04	3.35E-05	--	8.39E-06
Ethylbenzene	3.97E-05	lb/MMBtu	4.67E-05	--	2.05E-04	4.67E-05	--	1.17E-05
Ethylene Dibromide	4.43E-05	lb/MMBtu	5.21E-05	--	2.28E-04	5.21E-05	--	1.30E-05
Formaldehyde	5.28E-02	lb/MMBtu	6.21E-02	--	2.72E-01	6.21E-02	--	1.55E-02
Hexane	1.11E-03	lb/MMBtu	1.31E-03	--	5.72E-03	1.31E-03	--	3.27E-04
Methanol	2.50E-03	lb/MMBtu	2.94E-03	--	1.29E-02	2.94E-03	--	7.36E-04
Methylene Chloride	2.00E-05	lb/MMBtu	2.35E-05	--	1.03E-04	2.35E-05	--	5.89E-06
Naphthalene (POM)	7.44E-05	lb/MMBtu	8.76E-05	--	3.84E-04	8.76E-05	--	2.19E-05
Phenol	2.40E-05	lb/MMBtu	2.82E-05	--	1.24E-04	2.82E-05	--	7.06E-06
Styrene	2.36E-05	lb/MMBtu	2.78E-05	--	1.22E-04	2.78E-05	--	6.94E-06
Toluene	4.08E-04	lb/MMBtu	4.80E-04	--	2.10E-03	4.80E-04	--	1.20E-04
Vinyl Chloride	1.49E-05	lb/MMBtu	1.75E-05	--	7.68E-05	1.75E-05	--	4.38E-06
Xylene	1.84E-04	lb/MMBtu	2.17E-04	--	9.49E-04	2.17E-04	--	5.41E-05
TOTAL HAP:			**0.08**		**0.37**	**0.08**		**0.02**

(1) CO, NOx, and VOC emission rates based on manufacturer specs.
(2) PM10, PM2.5, SO2, and HAP emission factors based on AP-42 Section 3.2, Table 3.2-2.
(3) GHG numbers based on 40 CFR Part 98 Tables C-1 and C-2 for natural gas

For example: CO_2 = (53.06 kg CO_2/MMBtu) / (0.453592 kg/lb) = 117.0 lb/MMBtu

(4) Global Warming Potentials = 25 for CH_4 and 298 for N_2O (per 40 CFR Part 98 Table A-1 to Subpart A)

For example: CO_2e = (117.0 lb/MMBtu) + (0.0022 lb/MMBtu * 25) + (0.00022 lb/MMBtu * 298) = 117.1 lb/MMBtu

Attachment S

Title V Permit Revision Information

Attachment S

Title V Permit Revision Information

1. New Applicable Requirements Summary

Mark all applicable requirements associated with the changes involved with this permit revision:

☐ SIP	☐ FIP
☒ Minor source NSR (45CSR13)	☐ PSD (45CSR14)
☐ NESHAP (45CSR15)	☐ Nonattainment NSR (45CSR19)
☒ Section 111 NSPS (Subpart(s)_JJJJ)	☒ Section 112(d) MACT standards (Subpart(s)_ZZZZ)
☐ 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) (1)
☐ NO_x Budget Trading Program Non-EGUs (45CSR1)	☐ NO_x Budget Trading Program EGUs (45CSR26)

(1) If this box is checked, please include **Compliance Assurance Monitoring (CAM) Form(s)** for each Pollutants Specific Emission Unit (PSEU) (See Attachment H to Title V Application). If this box is not checked, please explain why **Compliance Assurance Monitoring** is not applicable:

The emergency generator (AUX06) does not have potential to emit (PTE) calculations over 100 tons/yr and does not have a control device.

2. Non Applicability Determinations

List all requirements, which the source has determined not applicable to this permit revision and for which a permit shield is requested. The listing shall also include the rule citation and a rationale for the determination.

☐ **Permit Shield Requested** *(not applicable to Minor Modifications)*

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

3. Suggested Title V Draft Permit Language

Are there any changes involved with this Title V Permit revision outside of the scope of the NSR Permit revision? ☐ Yes ☒ No If Yes, describe the changes below.

Also, please provide **Suggested Title V Draft Permit language** for the proposed Title V Permit revision (including all applicable requirements associated with the permit revision and any associated monitoring /recordkeeping/ reporting requirements), OR attach a marked up pages of current Title V Permit. Please include appropriate citations (Permit or Consent Order number, condition number and/or rule citation (e.g. 45CSR§7-4.1)) for those requirements being added / revised.

Please copy/paste already existing permit conditions from the Mockingbird Hill Compressor Station section to the Hastings Compressor Station section of the Title V permit.

- Conditions 7.1.9, 7.1.10, 7.1.11, 7.2.1, 7.2.2, 7.3.5, 7.4.2, 7.5.3

4. Active NSR Permits/Permit Determinations/Consent Orders Associated With This Permit Revision

Permit or Consent Order Number	Date of Issuance	Permit/Consent Order Condition Number
R13-3249	10/13/2015	
R13-2555B	9/17/2012	
R30-10300006-2011	11/27/2012 (SM01)	

5. Inactive NSR Permits/Obsolete Permit or Consent Orders Conditions Associated With This Revision

Permit or Consent Order Number	Date of Issuance	Permit/Consent Order Condition Number
N/A		

6. Change in Potential Emissions

Pollutant	Change in Potential Emissions (+ or -), TPY
CO	+ 5.14
NOx	+ 0.29
VOC	+ 0.10
PM, PM-10, PM 2.5	+ < 0.01 each

****Note:** The increases are already accounted for in the Title V permit under the Mockingbird Hill Compressor section. This application is just to move AUX06 and related requirements to the Hastings Compressor Station section.

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

7. Certification For Use Of Minor Modification Procedures *(Required Only for Minor Modification Requests)*

Note:	*This certification must be signed by a responsible official. Applications without a signed certification will be returned as incomplete. The criteria for allowing the use of Minor Modification Procedures are as follows:*

i. Proposed changes do not violate any applicable requirement;

ii. Proposed changes do not involve significant changes to existing monitoring, reporting, or recordkeeping requirements in the permit;

iii. Proposed changes do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient air quality impacts, or a visibility increment analysis;

iv. Proposed changes do not seek to establish or change a permit term or condition for which there is no underlying applicable requirement and which permit or condition has been used to avoid an applicable requirement to which the source would otherwise be subject (synthetic minor). Such terms and conditions include, but are not limited to a federally enforceable emissions cap used to avoid classification as a modification under any provision of Title I or any alternative emissions limit approved pursuant to regulations promulgated under § 112(j)(5) of the Clean Air Act;

v. Proposed changes do not involve preconstruction review under Title I of the Clean Air Act or 45CSR14 and 45CSR19;

vi. Proposed changes are not required under any rule of the Director to be processed as a significant modification;

Notwithstanding subparagraph 45CSR§30-6.5.a.1.A. (items i through vi above), minor permit modification procedures may be used for permit modifications involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches, to the extent that such minor permit modification procedures are explicitly provided for in rules of the Director which are approved by the U.S. EPA as a part of the State Implementation Plan under the Clean Air Act, or which may be otherwise provided for in the Title V operating permit issued under 45CSR30.

Pursuant to 45CSR§30-6.5.a.2.C., the proposed modification contained herein meets the criteria for use of Minor permit modification procedures as set forth in Section 45CSR§30-6.5.a.1.A. The use of Minor permit modification procedures are hereby requested for processing of this application.

(Signed): _____ Date: 01 / 04 / 16
(Please use blue ink) *(Please use blue ink)*

Named (typed): *Brian Sheppard* Title: *VP Pipeline Operations*

Note: Please check if the following included (if applicable):

☐	Compliance Assurance Monitoring Form(s)
☐	Suggested Title V Draft Permit Language

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.