

February 17, 2015

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

7014 3490 0000 0448 3610

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

RE: **Dominion Transmission, Inc.**
HG Well #13141
Permit Determination Request

Dear Mr. Durham:

Dominion Transmission, Inc. (Dominion) is submitting this request for permit determination for the addition of a natural gas pumpjack engine at our HG Well #13141 location, a production well located near Weston, Lewis County, West Virginia.

Based on the response from DEP dated December 16, 2013 (enclosed) for a similar unit, Dominion believes a permit is not necessary for the installation and operation of a Subaru, Model EH72 engine at HG Well #13141. Information on the unit is included below:

Engine Manufacturer and Model: Subaru EH72, manufactured 2014
Manufacturer's Rated bhp: 25 bhp
Subject to NSPS Subpart JJJJ? Yes
Subject to NESHAP Subpart ZZZZ? Yes, new source
Fuel Type: Pipeline Quality Natural Gas

Potential Emissions (Based on 8,760 hours)

Pollutant	Source	lbs/hr	tons/yr
NO _x	AP-42	0.14	0.63
CO	AP-42	0.24	1.04
VOC	AP-42	0.02	0.10
SO ₂	AP-42	3.74E-05	1.64E-04
PM (filterable)	AP-42	6.05E-04	2.63E-03
PM10 (filterable)	AP-42	6.05E-04	2.63E-03
PM2.5 (filterable)	AP-42	6.05E-04	2.63E-03
PM (condensibles)	AP-42	6.31E-04	2.76E-03
Formaldehyde	AP-42	1.30E-03	5.71E-03
Total HAP	AP-42	0.007	0.029

The pumpjack engine is not deemed to be a stationary source since there are no substantive requirements and the potential emission are below permitting thresholds. 40 CFR 60 Subpart JJJJ applies to the engine which requires DTI to purchase an engine certified to emission standards in 40 CFR 1048.101(c); therefore, no performance tests are required. The engine is EPA certified and by meeting Subpart JJJJ requirements, the engine also meets 40 CFR Part 63, Subpart ZZZZ requirements. Dominion will meet the requirements of Subpart JJJJ by complying with the following requirements:

- Operating and maintaining the engine according to manufacturer's instructions
- Maintaining records of maintenance conducted in accordance with the manufacturer's instructions;
- Maintaining a copy of the engine certification.

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

Sincerely,



Amanda B. Tornabene
Director, Gas Environmental Services

Enclosures

Appendix A: Permit Determination for HG Well #13141

Appendix B: Previous Review for Similar Unit

Appendix A
Permit Determination for HG Well #13141



WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY
601 57th Street, SE
Charleston, WV 25304
Phone: (304) 926-0475
www.dep.wv.gov/daq

**PERMIT DETERMINATION FORM
(PDF)**

FOR AGENCY USE ONLY: PLANT I.D. # _____
PDF # _____ PERMIT WRITER: _____

1. NAME OF APPLICANT (AS REGISTERED WITH THE WV SECRETARY OF STATE'S OFFICE): Dominion Transmissions, Inc.		
2. NAME OF FACILITY (IF DIFFERENT FROM ABOVE): HG Well #13141		3. NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS) CODE: 211111
4A. MAILING ADDRESS: 445 West Main Street, Clarksburg, WV 26301		4B. PHYSICAL ADDRESS: Along County Route 10/5 Issac's Fork Road
5A. DIRECTIONS TO FACILITY (PLEASE PROVIDE MAP AS ATTACHMENT A): Take Rt. 33 West to Churchville Road , turn right proceed to Issac's Fork and turn left to well location. The following are the GPS coordinates for the Station Site: 39.10644 / -80.61535		
5B. NEAREST ROAD: Issac's Fork Road	5C. NEAREST CITY OR TOWN: Weston, WV	5D. COUNTY: Lewis
5E. UTM NORTHING (KM): 4328658.9	5F. UTM EASTING (KM): 533257.6	5G. UTM ZONE: 17
6A. INDIVIDUAL TO CONTACT IF MORE INFORMATION IS REQUIRED: Rebekah (Becky) Remick		6B. TITLE: Environmental Specialist III
6C. TELEPHONE: 804-273-3536	6D. FAX: 804-273-2964	6E. E-MAIL: Rebekah.J.Remick@dom.com
7A. DAQ PLANT I.D. NO. (FOR AN EXISTING FACILITY ONLY): _____	7B. PLEASE LIST ALL CURRENT 45CSR13, 45CSR14, 45CSR19 AND/OR TITLE V (45CSR30) PERMIT NUMBERS ASSOCIATED WITH THIS PROCESS (FOR AN EXISTING FACILITY ONLY): N/A	
7C. IS THIS PDF BEING SUBMITTED AS THE RESULT OF AN ENFORCEMENT ACTION? IF YES, PLEASE LIST: No		
8A. TYPE OF EMISSION SOURCE (CHECK ONE): <input checked="" type="checkbox"/> NEW SOURCE <input type="checkbox"/> ADMINISTRATIVE UPDATE <input type="checkbox"/> MODIFICATION <input type="checkbox"/> OTHER (PLEASE EXPLAIN IN 11B)		8B. IF ADMINISTRATIVE UPDATE, DOES DAQ HAVE THE APPLICANT'S CONSENT TO UPDATE THE EXISTING PERMIT WITH THE INFORMATION CONTAINED HEREIN? <input type="checkbox"/> YES <input type="checkbox"/> NO
9. IS <i>DEMOLITION</i> OR PHYSICAL <i>RENOVATION</i> AT AN EXISTING FACILITY INVOLVED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
10A. DATE OF ANTICIPATED INSTALLATION OR CHANGE: 4/15/2015		10B. DATE OF ANTICIPATED START-UP: 4/15/2015
11A. PLEASE PROVIDE A DETAILED PROCESS FLOW DIAGRAM SHOWING EACH PROPOSED OR MODIFIED PROCESS EMISSION POINT AS ATTACHMENT B.		
11B. PLEASE PROVIDE A DETAILED PROCESS DESCRIPTION AS ATTACHMENT C.		
12. PLEASE PROVIDE MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL MATERIALS PROCESSED, USED OR PRODUCED AS ATTACHMENT D. FOR CHEMICAL PROCESSES, PLEASE PROVIDE A MSDS FOR EACH COMPOUND EMITTED TO AIR.		

13A. REGULATED AIR POLLUTANT EMISSIONS:

⇒ FOR A NEW FACILITY, PLEASE PROVIDE PLANT WIDE EMISSIONS BASED ON THE POTENTIAL TO EMIT (PTE) FOR THE FOLLOWING AIR POLLUTANTS INCLUDING ALL PROCESSES.

⇒ FOR AN EXISTING FACILITY, PLEASE PROVIDE THE PROPOSED CHANGE IN EMISSIONS BASED ON THE PTE OF ALL PROCESS CHANGES FOR THE FOLLOWING AIR POLLUTANTS.

PTE FOR A GIVEN POLLUTANT IS TYPICALLY BEFORE AIR POLLUTION CONTROL DEVICES AND IS COLLECTED BASED ON THE MAXIMUM DESIGN CAPACITY OF PROCESS EQUIPMENT.

POLLUTANT	HOURLY PTE (LB/HR)	YEARLY PTE (TON/YR) (HOURLY PTE MULTIPLIED BY 8760 HR/YR) DIVIDED BY 2000 LB/TON
PM	1.24E-03	5.41E-03
PM ₁₀	6.05E-04	2.65E-03
VOCs	0.02	0.10
CO	0.24	1.04
NO _x	0.14	0.63
SO ₂	3.74E-05	1.64E-04
Pb		
HAPs (AGGREGATE AMOUNT)	0.007	0.029
TAPs (INDIVIDUALLY)*		
OTHER (INDIVIDUALLY)*		

* ATTACH ADDITIONAL PAGES AS NEEDED

13B. PLEASE PROVIDE ALL SUPPORTING CALCULATIONS AS ATTACHMENT E.

CALCULATE AN HOURLY AND YEARLY PTE OF EACH PROCESS EMISSION POINT (SHOWN IN YOUR DETAILED PROCESS FLOW DIAGRAM) FOR ALL AIR POLLUTANTS LISTED ABOVE INCLUDING INDIVIDUAL HAP'S (LISTED IN SECTION 112[b] OF THE 1990 CAAA), TAP'S (LISTED IN 45CSR27), AND OTHER AIR POLLUTANTS (E.G. POLLUTANTS LISTED IN TABLE 45-13A OF 45CSR13, MINERAL ACIDS PER 45CSR7, ETC.).

14. CERTIFICATION OF DATA

I, BRIAN SHEPPARD (TYPE NAME) ATTEST THAT ALL THE REPRESENTATIONS CONTAINED IN THIS APPLICATION, OR APPENDED HERETO, ARE TRUE, ACCURATE, AND COMPLETE TO THE BEST OF MY KNOWLEDGE BASED ON INFORMATION AND BELIEF AFTER REASONABLE INQUIRY, AND THAT I AM A RESPONSIBLE OFFICIAL** (PRESIDENT, VICE PRESIDENT, SECRETARY OR TREASURER, GENERAL PARTNER OR SOLE PROPRIETOR) OF THE APPLICANT.

SIGNATURE OF RESPONSIBLE OFFICIAL: _____

Brian C. Sheppard

TITLE: VICE PRESIDENT, PIPELINE OPERATIONS

DATE: 02 / 13 / 2015

** THE DEFINITION OF THE PHRASE 'RESPONSIBLE OFFICIAL' CAN BE FOUND AT 45CSR13, SECTION 2.23.

NOTE: PLEASE CHECK ENCLOSED ATTACHMENTS

ATTACHMENT A ATTACHMENT B ATTACHMENT C ATTACHMENT D ATTACHMENT E

RECORDS ON ALL CHANGES ARE REQUIRED TO BE KEPT AND MAINTAINED ON-SITE FOR TWO (2) YEARS.

THE PERMIT DETERMINATION FORM WITH THE INSTRUCTIONS CAN BE FOUND ON DAQ'S PERMITTING SECTION WEB SITE:

www.dep.wv.gov/daq

Attachment A

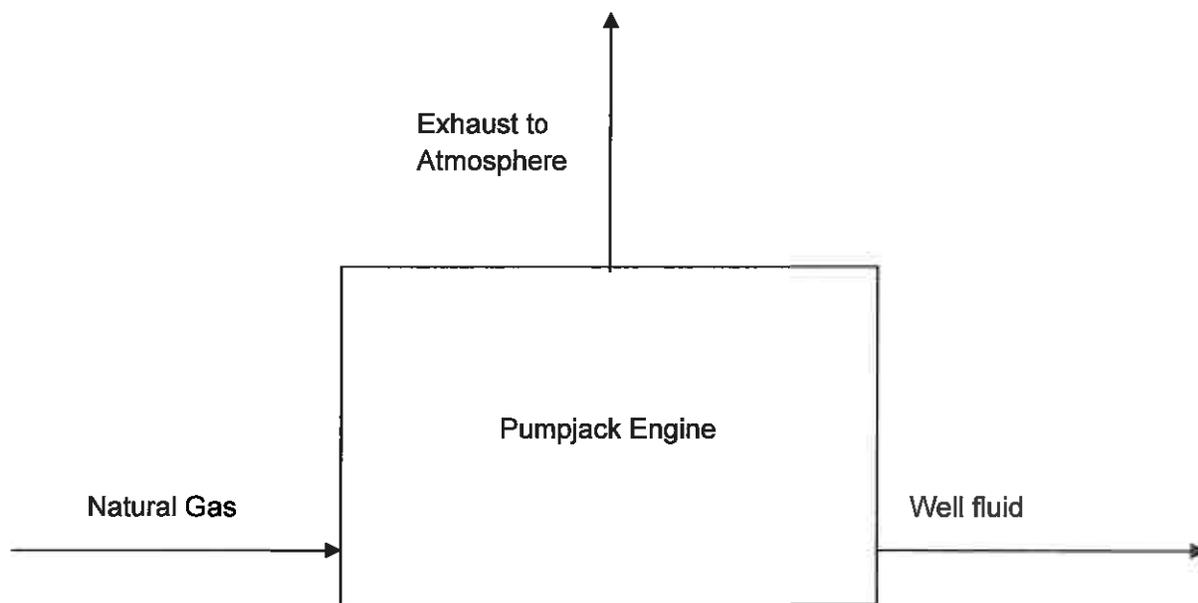
Facility Location



Attachment B

Process Flow Diagram

Process Flow Diagram for the Pumpjack Engine – HG Well #13141



Attachment C

Process Description

Process Description

HG Well #13141 is a well location located in Gilmer County, West Virginia. The purpose of the facility is to remove fluid from the well as needed by running a pumpjack engine on a daily basis.

The purpose of this permit determination is for the addition of a natural gas-fired 25 bhp pumpjack engine.

Attachment E

Supporting Calculations

Non-Emergency Engine Potential Emissions

Dominion Transmission, Inc.

HG Well #13141

Input Data: Subaru EH72 (2014)
 Design Class: 4-stroke rich burn
 Engine Power: 25 bhp
 Rated Electrical Output: 18.7 kW
 Fuel Input: 0.06 MMBtu/hr
 Maximum Hours of Operation: 8,760 hrs/yr
 Heating Value of Natural Gas: 1,000 Btu/cf

Emission Calculations

Pollutant	Emission Factor		Potential Emissions	
			(lb/hr)	(tons/yr)
Criteria Pollutants				
PM (filterable)	9.50E-03	lb/MMBtu	6.05E-04	2.65E-03
PM-10 (filterable)	9.50E-03	lb/MMBtu	6.05E-04	2.65E-03
PM-2.5 (filterable)	9.50E-03	lb/MMBtu	6.05E-04	2.65E-03
PM (condensibles)	9.91E-03	lb/MMBtu	6.31E-04	2.76E-03
SO2	5.88E-04	lb/MMBtu	3.74E-05	1.64E-04
CO	3.72	lb/MMBtu	0.24	1.04
NO _x	2.27	lb/MMBtu	0.14	0.63
VOC	0.358	lb/MMBtu	0.02	0.10
Greenhouse Gases				
CO ₂	117.0	lb/MMBtu	7.44	32.60
CH ₄	2.20E-03	lb/MMBtu	0.00	0.00
N ₂ O	2.20E-04	lb/MMBtu	0.00	0.00
CO ₂ e	117.1	lb/MMBtu	7.45	32.64
Hazardous Air Pollutants				
1,1,2,2-Tetrachloroethane	2.53E-05	lb/MMBtu	1.61E-06	7.05E-06
1,1,2-Trichloroethane	1.53E-05	lb/MMBtu	9.74E-07	4.26E-06
1,1-Dichloroethane	1.13E-05	lb/MMBtu	7.19E-07	3.15E-06
1,2-Dichloroethane	1.13E-05	lb/MMBtu	7.19E-07	3.15E-06
1,2-Dichloropropane	1.30E-05	lb/MMBtu	8.27E-07	3.62E-06
1,3-Butadiene	6.63E-04	lb/MMBtu	4.22E-05	1.85E-04
1,3-Dichloropropene	1.27E-05	lb/MMBtu	8.08E-07	3.54E-06
Acrolein	2.63E-03	lb/MMBtu	1.67E-04	7.33E-04
Acetaldehyde	2.79E-03	lb/MMBtu	1.78E-04	7.78E-04
Benzene	1.58E-03	lb/MMBtu	1.01E-04	4.40E-04
Butr/Isobutyraldehyde	4.86E-05	lb/MMBtu	3.09E-06	1.35E-05
Carbon Tetrachloride	1.77E-05	lb/MMBtu	1.13E-06	4.93E-06
Chlorobenzene	1.29E-05	lb/MMBtu	8.21E-07	3.60E-06
Chloroform	1.37E-05	lb/MMBtu	8.72E-07	3.82E-06
Ethane	7.04E-02	lb/MMBtu	4.48E-03	1.96E-02
Ethylbenzene	2.48E-05	lb/MMBtu	1.58E-06	6.91E-06
Ethylene Dibromide	2.13E-05	lb/MMBtu	1.36E-06	5.94E-06
Formaldehyde	2.05E-02	lb/MMBtu	1.30E-03	5.71E-03
Methanol	3.06E-03	lb/MMBtu	1.95E-04	8.53E-04
Methylene Chloride	4.12E-05	lb/MMBtu	2.62E-06	1.15E-05
Naphthalene (POM)	9.71E-05	lb/MMBtu	6.18E-06	2.71E-05
PAH	1.41E-04	lb/MMBtu	8.97E-06	3.93E-05
Styrene	1.19E-05	lb/MMBtu	7.57E-07	3.32E-06
Toluene	5.58E-04	lb/MMBtu	3.55E-05	1.56E-04
Vinyl Chloride	7.18E-06	lb/MMBtu	4.57E-07	2.00E-06
Xylene	1.95E-04	lb/MMBtu	1.24E-05	5.44E-05
TOTAL HAP:			0.007	0.029

(1) All emission factors from AP-42, Section 3.2, Natural Gas-Fired Reciprocating Engines, Table 3.2-3, 7/00

(2) Conversion of bhp to kW:

$$0.746 \text{ kW/bhp}$$

$$(25 \text{ bhp}) * (0.746 \text{ kW/bhp}) = 18.7 \text{ kW}$$

(3) Conversion of kilowatt to MMBtu/hr:

$$3412.14 \text{ BTU/kw-hr}$$

$$(18.7 \text{ kw}) * (3412.14 \text{ Btu/kw-hr}) * (1 \text{ MMBtu}/10^6 \text{ Btu}) = 0.06 \text{ MMBtu/hr}$$

(4) Lb/MMBtu numbers based on 40 CFR Part 98 Tables C-1 and C-2 for natural gas

$$\text{For example: } \text{CO}_2 = (53.06 \text{ kg CO}_2/\text{MMBtu}) / (0.453592 \text{ kg/lb}) = 117.0 \text{ lb/MMBtu}$$

(5) Global Warming Potentials = 25 for CH₄ and 298 for N₂O (per 40 CFR Part 98 Table A-1 to Subpart A)

$$\text{For example: } \text{CO}_2\text{e} = (117.0 \text{ lb/MMBtu}) + (0.0022 \text{ lb/MMBtu} * 25) + (0.00022 \text{ lb/MMBtu} * 298) = 117.1 \text{ lb/MMBtu}$$

At



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EH72 LP/NG

25 HP

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Specifications:

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Class	Air-cooled, 4-Stroke, V-Twin cylinder, Overhead Valve, LPG/NG gas-fueled engine
Shaft	Horizontal, Keyed Shaft
Cylinders	2
Displacement	720
Cycles	4
Fuel	LP/NG Vapor Withdrawal
Max HP/RPM (Gross HP)	LPG-(Propane content of 95% or higher) : 25hp/3600-- Natural Gas (Methane content of 90% or equivalent) : 21hp/3600
Bore x Stroke mm	84 x 65
Starter	Electric
Dry Weight lbs	101.3
Dry Weight kg	46
Length inches (mm)	12.5 (317)
Width inches (mm)	18.8 (477)
Height inches (mm)	18.7 (475)
Air Cleaner	Dual Element
Muffler (type)	Optional



Ignition System	Hot Spark* Electronic Ignition
Lube System	Full Pressure—Spin-on Oil Filter
Oil Sensor	Low Oil Pressure
Emission Rating	EPA/CARB
Color	Black
Governor System	Mechanical Flyweight
Fuel System	Throttle Body LP/NG
Crankshaft options	Keyed or Taper

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Toll

RECALL ALERT!



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
2014 MODEL YEAR
CERTIFICATE OF CONFORMITY
WITH THE CLEAN AIR ACT OF 1990

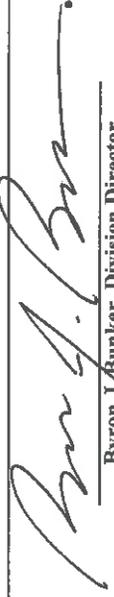
OFFICE OF TRANSPORTATION
AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105

Certificate Issued To: Fuji Heavy Industries
(U.S. Manufacturer or Importer)

Certificate Number: EFJXS.7202DA-006

Effective Date:
07/24/2013

Expiration Date:
12/31/2014


Byron J. Bunker, Division Director
Compliance Division

Issue Date:
07/24/2013

Revision Date:
N/A

Manufacturer: Fuji Heavy Industries

Engine Family: EFJXS.7202DA

Certificate Number: EFJXS.7202DA-006

Useful Life: 1000 Hours / 5 Years

Engine Class: Nonhandheld-Class II

Fuel: LPG/Propane

Natural Gas (CNG/LNG)

Emission Standards: NMHC + NOx (g/kW-hr) : 8

HC + NOx (g/kW-hr) : 8

CO (g/kW-hr) : 610

Pursuant to Section 213 of the Clean Air Act (42 U.S.C. section 7547), 40 CFR Part 1054, 40 CFR Part 1068 and 40 CFR Part 60 (stationary only and combined stationary and mobile), and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued for the following small nonroad engine family, more fully described in the documentation required by 40 CFR Part 1054 and produced in the stated model year.

This certificate of conformity covers only those new small nonroad engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Part 1054 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 1054. This certificate of conformity does not cover small nonroad engines imported prior to the effective date of the certificate.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068.20 and 1068, Subpart E and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 1054. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void *ab initio* for other reasons specified in 40 CFR Part 1054, 40 CFR Part 1068.

This certificate does not cover small nonroad engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.

Appendix B
Previous Review for Similar Unit



west virginia department of environmental protection

Division of Air Quality
601 57th Street SE
Charleston, WV 25304
Phone (304) 926-0475 • FAX: (304) 926-0479

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

December 16, 2013

Jeffrey Barger
P.O. Box 2450
Clarksburg, WV 26302-2450

Re: Withdrawal of Permit Application
Dominion Transmission, Inc.
Racket Newberne M&R Facility
Cox Mills, Gilmer County, WV
Permit Application G60-C055
Plant ID No.: 021-00021

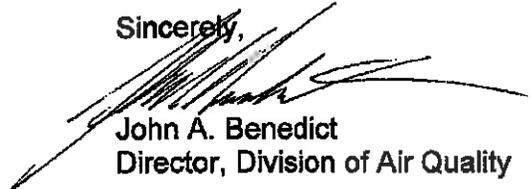
Dear Mr. Jeffrey Barger:

In accordance with your letter received on November 21, 2013, this Division hereby acknowledges the withdrawal of your company's application for a G60-C General Permit Registration for a Kohler 20 RESA, 27 bhp emergency generator/engine to be located at your Racket Newberne M&R Facility located near Cox Mills, Gilmer County, WV.

A permit registration was not needed for the generator engine because the generator was not deemed to be a stationary source and there are no substantive requirements. Although 40 CFR 60 Subpart JJJJ does apply, no performance tests are required. Dominion is aware that it must maintain maintenance records, a copy of the engine certification and fulfill any other applicable requirement(s) of Subpart JJJJ.

No further action will be taken by this Division regarding the G60-C General Permit Registration proposed in application G60-C055.

Sincerely,



John A. Benedict
Director, Division of Air Quality

JAB/jcl
cc: John Legg
Permit Writer

Meghann Quinn, Dominion Transmission, Inc.

Promoting a healthy environment.