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west virginia department of environmental protection

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Division of Air Quality  
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Phone 304/926-0475

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
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**GENERAL PERMIT REGISTRATION APPLICATION  
ENGINEERING EVALUATION / FACT SHEET**

BACKGROUND INFORMATION

Registration No.: G60-C088  
Plant ID No.: 041-00080  
Applicant: Dominion Transmission, Inc. (Dominion)  
Facility Name: Southern Area Headquarters  
Location: Weston, Lewis County  
SIC Code: 8741  
Application Type: Construction  
Received Date: May 16, 2016  
Engineer Assigned: William T. Rothwell II, P.E.  
Fee Amount: \$1,500.00  
Date Received: May 17, 2016  
Complete Date: June 15, 2016  
Applicant Ad Date: May 16, 2016  
Newspaper: *The Exponent-Telegram*  
UTM's: Easting: 543.290 km Northing: 4322.008 km Zone: 17  
Description: Application for the construction and operation one (1) natural gas-fired emergency generator to be used to provide electricity throughout the facility in the event of a power failure.

TYPE OF PROCESS

The following process description was taken from Permit Application G60-C088:

Dominion's Southern Area Headquarters is an office/warehouse building that will utilize one (1) Caterpillar G3412 - 350 kW generator set powered by one (1) 566 horsepower, non EPA certified, natural gas-fired fired Caterpillar engine that was manufactured in 2013. The emergency generator will be used to provide electricity throughout the facility in the event of a power failure.

## SITE INSPECTION

A site inspection was deemed unnecessary by the writer at this time due to the remoteness of the location verified by Google Earth. However, this site will be added to the list for regular inspections.

*Take I-79 to Exit 99 at Weston. Go west on Route 33 through the town of Weston for 5 miles. Turn left into Southern Area Headquarters building (tan brick building with blue windows).*

## ESTIMATE OF EMISSIONS BY REVIEWING ENGINEER

Maximum controlled emissions from Dominion's emergency generator is summarized below. G60-C limits the facility to 500 hours per year of operation.

Emission	Pollutant	Maximum Hourly	Maximum Annual
EG-2 Caterpillar G3412	Nitrogen Oxides	2.50	0.62
	Carbon Monoxide	4.99	1.25
	Volatile Organic Compounds	0.25	0.06
	Sulfur Dioxide	<0.01	<0.01
	Particulate Matter-10	<0.01	<0.01
	Formaldehyde	0.27	0.07

Because of the low emission levels, the VOC, Sulfur Dioxides, Particulate Matter, and Formaldehyde emissions will not be written into the permit.

## GENERAL PERMIT ELIGIBILITY

The proposed construction and operation of this facility meets the eligibility (Section 2.3), and limitations and emissions controls (Section 2.1) as specified in General Permit G60-C. The applicant is subject to 40CFR60 Subpart JJJJ, due to the year of manufacture of the engine (2013). The proposed construction and operation of this facility meets the applicability stated under Section 2.3 (area source, source not subject to additional requirements, and located in an attainment area, etc.), and is required to meet the Limitations and Standards stated under Section 3.2 as specified in General Permit G60-C.

The applicant's emergency generator is subject to 40CFR63 Subpart ZZZZ (RICE MACT), but because their engine is a new engine (post June 12, 2006) and is located at an area source of HAP emissions, 40CFR63 Subpart ZZZZ states the applicant must meet the requirements of this part by meeting the requirements of 40CFR60 Subpart JJJJ, for spark ignition engines.

RECOMMENDATION TO DIRECTOR

Dominion's request to construct and operate an emergency generator at the Southern Area Headquarters, Lewis County, WV site meets the requirements of General Permit G60-C and all applicable rules and therefore should be granted a General Permit Registration to construct and operate the said facility.



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William T. Rothwell II, P.E.

Engineer

7/19/2016

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Date