west virginia department of environmental protection

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GENERAL PERMIT REGISTRATION APPLICATION
ENGINEERING EVALUATION / FACT SHEET

BACKGROUND INFORMATION

Registration No.:	G60-C078
Plant ID No.:	041-00075
Applicant:	Dominion Transmission, Inc.
Facility Name:	Weston G&P
Location:	Weston, Lewis County
SIC Code:	8741
Application Type:	Construction
Received Date:	August 3, 2015
Engineer Assigned:	William T. Rothwell II, P.E.
Fee Amount:	$1,500.00
Date Received:	August 7, 2015
Complete Date:	September 2, 2015
Applicant Ad Date:	August 12, 2015
Newspaper:	*The Weston Democrat*
UTM's:	Easting: 543.610 km Northing: 4328.909 km Zone: 17
Description:	Application for the construction and operation of one emergency generator.

TYPE OF PROCESS

The following process description was taken from Permit Application G60-C078:

The emergency generator associated with this facility will be an 82.1 hp Generac QT048 natural gas-fired 48 kW EPA Certified emergency generator. This emergency generator will supply power to the office building in the event of a utility power loss. The only planned run time is during normal engine maintenance which is expected to be approximately 15 minutes a week for testing and maintenance purposes (12 hours per year), limited to 100 hours per year. The generator will not exceed the allowable 500 hours/year allowed by the State of West Virginia.

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. The facility met the siting requirements of general permit G60-C.

Jane Lew exit 105 off I-79. Go toward Jane Lew for 1.5 miles to Rt. 19 toward Weston. Go 6 miles to Jackson Mill Road Rt. 12. Go 2 miles, make left at Exxon, and go 100 yards. Make right onto Valley Chapel Road Rt. 10 and go 1.5 miles to the office.

ESTIMATE OF EMISSIONS BY REVIEWING ENGINEER

Maximum controlled emissions from the Emergency Generator's are summarized below. G60-C limits the facility to 500 hours per year of operation.

Emission Unit	Pollutant	Maximum Hourly Emissions (lb/hr)	Maximum Annual Emissions (tpy)
EG-1 Generac QT150	Nitrogen Oxides	0.46	0.11
	Carbon Monoxide	17.25	4.31
	Volatile Organic Compounds	0.29	0.07
	Sulfur Dioxide	<0.01	<0.01
	Particulate Matter-10	<0.01	<0.01
	Formaldehyde	0.02	0.01

Because of the low emission levels, the 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 (2014). 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.

Certified values for this specific engine were used in the emissions calculations. Since the engines meets EPA requirements, it emits no more than what is specified in 40CFR60.4233, Table 1. For annual emissions calculations, 500 hrs/year were used.

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 Transmission's request to construct and operate one emergency generator at the Weston G&P, 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.

William T. Rothwell II, P.E.
Engineer

09/24/2015

Date