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**west virginia department of environmental protection**

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Division of Air Quality  
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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-C090  
Plant ID No.: 081-00270  
Applicant: Beckley Water Company  
Facility Name: Sweeneysburg Road Water Treatment Plant  
Location: Beckley, Raleigh County  
SIC Code: 3589  
Application Type: Construction  
Received Date: September 15, 2016  
Engineer Assigned: William T. Rothwell II, P.E.  
Fee Amount: \$1,500  
Date Received: September 19, 2016  
Complete Date: October 14, 2016  
Applicant Ad Date: September 16, 2016  
Newspaper: *The Register-Herald*  
UTM's: Easting: 479.264 km Northing: 4186.457 km Zone: 17  
Description: Construction of an emergency generator to be utilized in the event of a power outage.

TYPE OF PROCESS

The following process description was taken from Registration Application G60-C090:

The installation will be a Cummins DQGAB - 1,500 kW Diesel Generator using a 2,220 bhp Cummins QSK 50, Tier 2 certified engine that was manufactured in 2016. The generator will be used for back up purposes to provide electrical power to the Beckley Water Company facility in the event off-site power is lost for any reason. During normal operation, the generator is exercised once a week for approximately one hour for an annual run time of 52 hours. 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.

Directions as given in the permit application are as follows:

*The site is located approximately 0.70 miles north of the intersection of Sweeneysburg Road (WV Route 11) and Suprise Valley Road near Beckley, WV.*

ESTIMATE OF EMISSIONS BY REVIEWING ENGINEER

Maximum uncontrolled emissions from the Beckley Water Company'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-1 Cummins DQGAB	Nitrogen Oxides	20.50	5.13
	Carbon Monoxide	4.40	1.10
	Volatile Organic	5.16	1.29
	Sulfur Dioxide	4.28	1.07
	Particulate Matter-10	2.51	0.63
	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 construction and operation of this generator 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.

In consideration of requirements for compliance under the reciprocating internal combustion engines (RICE) National Emissions Standards for Hazardous Air Pollutants, 40 CFR Part 63 Subpart ZZZZ: the RICE NESHAP Summary of Requirements for existing emergency engines greater than 500 hp and less than or equal to 500 hp located at an area source of HAP, constructed after June 12, 2006, the requirements are as follows:

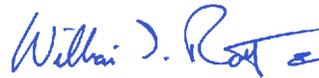
- a. Change oil and filter every 500 hours of operation or annually, whichever comes first;

- b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and
- c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

The proposed construction and operation of this facility meets the limitations and standards (Section 6.1) as specified in the General Permit G60-C. Petroleum liquid storage tank volume shall not exceed 39,889 gallons capacity and maximum true vapor pressure shall not exceed 2.17 psia for petroleum liquid storage tanks greater than 19,812 gallon capacity. The tank volume provided for the one tank proposed within this application is 3,000 gallons.

RECOMMENDATION TO DIRECTOR

Beckley Water Company's request to construct and operate an emergency generator's at the Sweeneysburg Road Water Treatment Plant, Raleigh 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

10/18/2016

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Date