



west virginia department of environmental protection

Division of Air Quality
601 57th Street SE
Charleston, WV 25304
Phone 304/926-0475

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

**GENERAL PERMIT REGISTRATION APPLICATION
ENGINEERING EVALUATION / FACT SHEET**

BACKGROUND INFORMATION

Registration No.: G60-C084
Plant ID No.: 049-00052
Applicant: Equitrans, L.P.
Facility Name: Curtisville Compressor Station #50
Location: Mannington, Marion County
SIC Code: 4922
Application Type: Construction
Received Date: November 25, 2015
Engineer Assigned: William T. Rothwell II, P.E.
Fee Amount: \$1,500.00
Date Received: December 7, 2015
Complete Date: December 25, 2015
Applicant Ad Date: November 27, 2015
Newspaper: *The Times West Virginian*
UTM's: Easting: 548.149 km Northing: 4375.025 km Zone: 17
Description: Application for the construction and operation of one emergency generator (G-003) which will replace an existing emergency generator (G-001).

TYPE OF PROCESS

The following process description was taken from Permit Application G60-C084:

The installation is a Kohler 33 kW natural gas-fired Generator Set, Model 25REZG using a 44 bhp General Motors Industrial Powertrain 3.0L, 4-Cycle Certified engine that was manufactured in 2014. This emergency generator will replace the existing Kohler 30R62914154 emergency generator (G-001) that was manufactured in 1973. The emergency generator will supply power to the compressor station 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.

Interstate 79 North to Downtown Fairmont Exit (Number 137). Bear to the right off ramp and merge into left lane prior to stop light. Make left at stop light and stay on Route 310 for three stop lights. Make right turn onto bridge at 3rd light. Go up the hill at stop light after crossing bridge. Go thru 2nd stop light. Make a left at next stop light. Bear to the right hand lane for two stop lights and make a right onto Route 250 North. Stay on Route 250 N to Mannington. In Mannington after passing Rite Aid (on right), make left turn onto Market Street. At the "Y" at the end of Market Street, bear right onto Buffalo Road and continue on this road past Mannington Fairgrounds into the community of Logansport. After leaving logansport make a left turn turn onto a new two lane bridge (1st left after Logansport) to Owen-Davey Creek Road. The first right turn leads to the station.

ESTIMATE OF EMISSIONS BY REVIEWING ENGINEER

Maximum controlled emissions from the Emergency Generator are summarized below. The applicant used certified emission factors for an engine not located at the facility in their application. Thus, the emissions have been re-calculated. G60-C limits the facility to 500 hours per year of operation.

Emission Unit	Pollutant	Maximum Hourly Emissions (lb/hr)	Maximum Annual Emissions (tpy)
G-003 Kohler 25REZG	Nitrogen Oxides	0.52	0.13
	Carbon Monoxide	2.14	0.54
	Volatile Organic Compounds	0.52	0.13
	Sulfur Dioxide	<0.01	<0.01
	Particulate Matter-10	<0.01	<0.01

Because of the low emission levels, the Sulfur Dioxides and Particulate Matter 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 (2015). 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 engine 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

Equitrans, L.P.'s request to construct and operate one emergency generator at the Curtisville Compressor Station #50, Marion 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

02/11/2016

Date