



---

**west virginia department of environmental protection**

---

Division of Air Quality  
601 57<sup>th</sup> 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-C089 *After-The-Fact*  
Plant ID No.: 037-00105  
Applicant: American Public University System, Inc.  
Facility Name: Charles Town  
Location: Charles Town, Jefferson County  
SIC Code: 8221  
NAICS Code: 611310  
Application Type: Construction  
Received Date: September 09, 2016  
Engineer Assigned: Thornton E. Martin Jr.  
Fee Amount: \$1500  
Date Received: October 04, 2016  
Complete Date: October 24, 2016  
Applicant Ad Date: September 21, 2016  
Newspaper: *Spirit of Jefferson Advocate*  
UTM's: Easting: 253.656 km Northing: 4352.201 km Zone: 17  
Description: The Applicant proposes to permit their two existing emergency generators located on their university campus situated within the borders of Charles Town and Ranson, West Virginia.

BACKGROUND

The American Public University System, Inc. has requested authorization for the installation and operation of two emergency generators to be operated no more than 500 hours per year for the purpose of maintaining operation during periods of power failure. One generator (EG1), located in Bldg.393, was installed on September 23, 2012 and the second generator (EG2), located in Bldg. 303, was installed on September 23, 2015. Both EG1 and EG2 have schedules equipment checks on a quarterly basis, specifically during the months of January, March, June and September. In addition, scheduled testing occurs on Mondays from 6-6:30AM for EG1 and scheduled testing occurs on Mondays from 6:30-7AM for EG2. EG1 is a 2012, John Deere, Model 6135HF485S, rated at 617 HP (460 kW) @ 1800 RPM. EPA Certificate No.: CJDXL13.5103-020. EG2 is a 2015, Mitsubishi, Model S12H-Y2PTAW-1, rated at 1528 HP (1140 kW) @ 1800 RPM. EPA Certificate No.:FMVXL37.1BBA-010.

Tanks T01 and T02 will house #2 Fuel Oil for the generators. T01 will hold 650 gallons and T02 will hold 5,525 gallons.

## SITE INSPECTION

This is a new source. The writer deemed that a site inspection would not be required at this time. The units have been in place for a period of time, the engines emissions are EPA certified and the facility will be placed on the regular list of source inspections upon permit issuance.

## ESTIMATE OF EMISSIONS BY REVIEWING ENGINEER

Maximum controlled emissions from American Public University System, Inc.'s diesel fired emergency generators are summarized in Tables 1 and 2. G60-C limits the facility to 500 hours per year of operation.

Table 1: Emergency Generator Emission Summary - Criteria Pollutants

Source ID No.	Potential Emissions (lbs/hr)					Potential Emissions (tons/yr)				
	NO <sub>x</sub>	CO	VOC	SO <sub>2</sub>	PM <sub>10</sub>	NO <sub>x</sub>	CO	VOC	SO <sub>2</sub>	PM <sub>10</sub>
EG1	3.34	0.61	0.10	1.26	0.1	0.836	0.153	0.025	3.133	0.025
EG2	13.46	1.51	1.41	0.316	0.43	3.365	0.38	0.353	0.7833	0.11
TOTAL	16.8	2.12	1.51	1.576	0.53	4.201	0.533	0.378	3.9163	0.135

Table 2: Emergency Generator Emission Summary - Hazardous/Toxic Pollutants

Source ID No.	Potential Emissions (lbs/hr)				Potential Emissions (tons/yr)			
	Benzene	Toluene	Xylenes	Formal-dehyde	Benzene	Toluene	Xylenes	Formal-dehyde
EG-1	NA	NA	NA	0.29	NA	NA	NA	0.0725
EG-2	NA	NA	NA	0.71	NA	NA	NA	0.177
TOTAL	NA	NA	NA	1.000	NA	NA	NA	0.250

## GENERAL PERMIT ELIGIBILITY

The proposed construction and operation of this facility meets the eligibility (Section 1.3), and limitations and emissions controls (Section 2.1) as specified in General Permit G60-C. American Public University System, Inc. is subject to 40CFR60 Subpart IIII, due to the year of manufacture date of the engines (EG1 - 2012; EG2 - 2015).

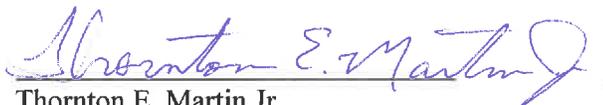
In consideration of requirements for compliance under the reciprocating internal combustion engines (RICE) National Emissions Standards for Hazardous Air Pollutants, 40 CFR Part 63 Subpart ZZZZ: the RICE NESHP Summary of Requirements for new Emergency engines greater than 500 hp located at an area source of HAP, constructed on or after June 12, 2006, the engines are subject to 40 CFR 60, subpart IIII, as applicable.

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 two tanks (T01 and T02) within this application are 650 and 5,525 gallons, respectively.

RECOMMENDATION TO DIRECTOR

The American Public University System, Inc.'s request to construct and operate two emergency generator at the Charles Town, Jefferson 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.



Thornton E. Martin Jr.  
Permit Engineer

October 24, 2016

\_\_\_\_\_  
Date