



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.: G65-C298A
Plant ID No.: 039-00613
Applicant: Sinclair Media III, Inc.
Facility Name: WCHS/WVAH Studio
Location: Charleston, Kanawha
SIC Code: 4833
Application Type: Construction
Received Date: March 28, 2016
Engineer Assigned: William T. Rothwell II, P.E.
Fee Amount: \$250.00
Date Received: March 28, 2016
Complete Date: April 29, 2016
Applicant Ad Date: Not Applicable
Newspaper: *Not Applicable*
UTM's: Easting: 445.979 E km Northing: 4244.648 N km Zone: 17
Description: Proposed replacement of a 230 kW emergency generator with a 250 kW emergency generator to be used in case of power failure, testing/maintenance, and to participate in PJM's Emergency Load Response Program (ELRP).

TYPE OF PROCESS

The installation will use a 2015 Caterpillar C9, Tier 3 Certified, 398 bhp diesel engine. The generator will be used to supply standby backup power to the facility in case of a power failure. This new engine will not be enrolled in the ELRP and will operate as an emergency only engine.

SITE INSPECTION

A site inspection was deemed unnecessary by the writer at this time. However, once the emergency generator is installed and operated, it will be placed on the regular inspection list of sources.

The Facility is located at 1301 Piedmont Road in Charleston.

ESTIMATE OF EMISSIONS BY REVIEWING ENGINEER

Emissions for engine were calculated using AP-42 and reviewed by the writer for accuracy.

Pollutant	Maximum Hourly Emissions (lb/hr)	Maximum Annual Emissions (ton/year)
Nitrogen Oxides	2.54	0.60
Carbon Monoxide	0.35	0.10
VOC	0.09	0.02
Sulfur Oxides	0.82	0.20
Particulate Matter	0.09	0.02

Because of the low emission levels, the sulfur oxides and particulate matter emissions will not be written into the permit.

GENERAL PERMIT ELIGIBILITY

The proposed construction and operation of this facility meets the applicability requirements required in Section 2.3 and the storage tank limitation required in Section 6 as specified in the General Permit G65-C.

RECOMMENDATION TO DIRECTOR

The request of Sinclair Media to operate an emergency generator in Charleston, Kanawha County, WV site meets the requirements of General Permit G65-C and all applicable rules. It is the recommendation of the writer to grant a General Permit Registration to construct and operate said facility.



William T. Rothwell II, P.E.
Engineer

07/07/2016

Date