west virginia department of environmental protection

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Earl Ray Tomblin, Governor
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MEMORANDUM

To: File
From: William T. Rothwell II
Date: August 13, 2015
Subject: Enervest Operating – Kanawha Shoals Compressor Station – Raleigh County, WV
ID #: 081-00266
APP #: PD15-072

BACKGROUND INFORMATION:

Enervest Operating is proposing to remove their existing 145HP Caterpillar G3306 engine and replace it with a 68HP Arrow VRG-330 engine that was manufactured in 2006.

The replacement engine is an existing source (constructed before June 12, 2006), located at an area source of HAPs, and is therefore subject to 40CFR63, Subpart ZZZZ (NESHAP). Due to the year of construction of the engine, it is subject to a substantive requirement of that Federal Rule in which it must comply with 40CFR60 Subpart JJJJ (NSPS) if applicable.

Since the engine is ≤ 500 HP and was manufactured prior to July 1, 2008, it is not subject to any substantive requirements in 40CFR60 Subpart JJJJ (NSPS).

The potential emissions for the engine are as follows:

Pollutant	LB/HR	TPY
PM	0.01	0.02
VOCs	0.02	0.07
CO	0.17	0.73
NOx	1.94	8.50
HAPs	0.01	0.05

RECOMMENDATION:

The emission rates are below the emission limits of six (6) lb/hr and ten (10) TPY; 2 lb/hr, or 5 TPY of HAPs set forth set forth in 45CSR13 - 2.17.a&b. Therefore, a permit is not required by this Division for the installation and operation of the above mentioned compressor engine.

William T. Rothwell II, P.E.
Engineer

8/13/2015
Date