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**west virginia department of environmental protection**

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Division of Air Quality  
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Joe Manchin, III, Governor  
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**MEMORANDUM**

To: Bev McKeone, NSR Program Manager

From: Caraline Griffith, Engineer Trainee

Date: May 22, 2015

Subject: PD15-041, 005-00096, Dominion Transmission, Inc., Madison City Plant

On May 8, 2015, DAQ received a permit determination request from Dominion Transmission, Inc. to install a Generac QT306 auxiliary generator, manufactured in August of 2014, at the Madison City Plant in Danville, Boone County, West Virginia .

The Generac QT306 engine is certified and has submitted a certificate of conformity, certificate number FGNXB02.42NN-005.

The engine is an auxiliary rich burn SI ICE which is operated using natural gas or propane with greater than 25 bhp and less than 500 bhp constructed after January 1, 2009. 45CSR13 defines the term “stationary source” as any building, structure, facility, installation, or emission unit or combination thereof that discharges or has the potential to discharge more than six (6) pounds per hour and ten (10) tons per year, or has the potential to discharge more than 144 pounds per calendar day, of any regulated air pollutant. The potential emissions are not above threshold limits and there are no substantive requirements so the source is not considered a stationary source.

The engine is a new source (constructed 2014), and is located at an area source of HAPS. Therefore the engine is subject to 40CFR63 Subpart ZZZZ (NESHAP). The engine does not trigger any substantive requirements in 40CFR60, Subpart ZZZZ. The engine is certified and complies with 40CFR60 Subpart JJJJ (NSPS) by meeting all of the requirements. By meeting these requirements it also meets the requirements in 40CFR63, Subpart ZZZZ.

**Potential Emissions (Based on 8,760 hours)**

<b>Pollutant</b>	<b>lbs/hr</b>	<b>TPY</b>
NOx	1.14	5.00
CO	1.87	8.20
VOC	0.18	0.79
SO2	2.96E-04	1.30E-03
PM (filterable)	4.78E-03	2.09E-02
PM10 (filterable)	4.78E-03	2.09E-02
PM2.5 (filterable)	4.78E-03	2.09E-02
PM (condensibles)	4.98E-03	2.18E-02
Formaldehyde	1.03E-02	4.52E-02
Total HAP	0.05	0.23

**Recommendation**

The regulated pollutants for this generator do not exceed the requirements in 45CSR13 and complies with all relevant requirements in 40CFR60, NSPS Subpart JJJJ and in NESHAPS Subpart ZZZZ. Therefore, a permit is not required by the Division for the installation and operation of the above mentioned auxiliary generator.