

Dominion Energy Services, Inc.
Law Department
120 Tredegar Street, Richmond, VA 23219
DominionEnergy.com



Michael Regulinski
Managing General Counsel
Direct: (804) 819-2794; Facsimile: (804) 819-2183
Email: michael.regulinski@dominionenergy.com

December 1, 2017

The Honorable James Richard Perry
Secretary of the Energy
United States Department of Energy
1000 Independence Ave, SW
Washington, DC 20585

Re: Report on Yorktown Units 1 and 2 Operations Pursuant to Order No. 202-17-4

Dear Secretary Perry:

As requested by DOE staff and pursuant to Order No. 202-17-4 (the “Order”) issued on September 14, 2017 by the Secretary of Energy (“Secretary”), PJM Interconnection, LLC (“PJM”) and Virginia Electric and Power Company (“Dominion Energy Virginia”) respectfully submits the attached spreadsheet (Attachment 1) that reflects historical operations and emissions data for Yorktown Units 1 and 2 for the years 2015-2017. As requested by the DOE staff, the spreadsheet provides the same categories of information and in the same format used in Attachment 3 of the September 28, 2017 Report on Yorktown Units 1 and 2 operations. The spreadsheet is provided in accordance with the Secretary’s directive to report all dates on which Yorktown Units 1 and 2 are operated as well as the estimated emissions associated with their operations.¹

Attachment 1 shows the actual runtime and air emissions data for the period, and includes hourly runtime data for the equipment for the Yorktown units, and raw and calculated data showing emissions data associated with operations of the equipment. The information reports hourly emissions of PM-10 and SO₂ in pounds per hour and pounds per million BTU, and mercury in pounds per hour and pounds per trillion BTU (Mercury and Air Toxics Standards (MATS) format) for the operating period beginning

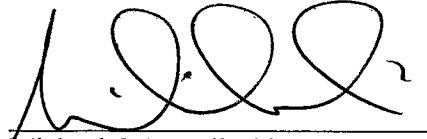
¹ Order at page 2.

January 1, 2015, through November 26, 2017. Additionally, Attachment 1 provides hourly emissions of NOx in pounds per hour, greenhouse gases (as CO2) in tons per hour, lead in pounds per hour, HCl in pounds per hour, HF in pounds per hour, and CO in pounds per hour. NOx and SO2 emissions are based on valid hours of Continuous Emissions Monitoring System (CEMS) data for the period. For the period beginning July 21, 2017, through November 26, 2017, PM-10 emissions are based on the emission factor derived from the July 21, 2017, stack test (0.0168 lbs/mmBtu corrected to 0.1143 lbs/mmBtu calculated for PM-10 filterable plus condensable). For the period beginning June 3, 2015, through July 20, 2017, PM-10 emissions are based on the emission factor derived from the June 3, 2015, stack test (0.015 lbs/mmBtu corrected to 0.087 lbs/mmBtu calculated for PM-10 filterable plus condensable). For the period beginning January 1, 2015, through June 2, 2015, PM-10 emissions are based on the emission factor derived from the July 29, 2014, stack test (0.035 lbs/mmBtu corrected to 0.1255 lbs/mmBtu calculated for PM-10 filterable plus condensable). CO2 emissions are based on valid CEMS hours for the operating period. All other emissions were calculated using emission factors from AP-42, Fifth Edition, Volume 1, Chapter 1: External Combustion Sources and calculated hourly coal consumption in tons.²

PJM and Dominion Energy Virginia respectfully submits the information in this report be accepted by the Secretary as compliant with the Order's directives to report all dates on which Yorktown Units 1 and 2 are operated well as the estimated and actual emissions associated with their operations.

² Mercury and lead emissions were calculated using AP-42, Table 1.1-18. CO emissions were calculated using emission factors from AP-42, Table 1.1-3. Total HAP metals and individual HAP metals are not provided because MATS Table 2 (40 CFR 63, Subpart UUUUU) provides for compliance with either the PM limit or total non-mercury HAP metals limits or individual HAP metals. Dominion Energy Virginia is providing PM-10 emissions for the purposes of MATS. HCl and HF emissions were calculated using emission factors from AP-42, Table 1.1-15.

Respectfully submitted,



Michael C. Regulinski
Managing General Counsel
Dominion Energy Services, Inc.
120 Tredegar Street, RS-2
Richmond, Virginia 23219
Phone: (804) 819-2794
Email: michael.regulinski@dominionenergy.com

Steven R. Pincus
Associate General Counsel
PJM Interconnection, L.L.C.
955 Jefferson Avenue
Valley Forge Corporate Center
Norristown, PA 19403-2497
Phone: 610-666-4370
Email: pincus@pjm.com

cc: Pat Hoffman, U.S. Department of Energy
Catherine Jereza, U.S. Department of Energy
Rakesh Batra, U.S. Department of Energy
Casey Roberts, Sierra Club Environmental Law Program