

PUBLIC NOTICE – ENVIRONMENTAL PERMIT

PURPOSE OF NOTICE: To announce a public briefing to answer questions and provide information on a permit application submitted to the Department of Environmental Quality to limit air pollution from a project in Chesterfield County, Virginia.

PUBLIC INFORMATION BRIEFING: Springhill Suites Chester, 12301 Redwater Creek Road, Chester, VA 23831, on November 16, 2023, at 6:00 p.m. to 8:00 p.m.

PERMIT NAME: Prevention of Significant Deterioration Permit and Stationary Source Permit to Construct and Operate issued by the Department of Environmental Quality (DEQ) pursuant to applicable air laws and regulations.

APPLICANT NAME: Virginia Electric and Power Company, d/b/a/ Dominion Energy Virginia

FACILITY NAME AND ADDRESS: Chesterfield Energy Reliability Center; Adjacent parcel of property to existing Chesterfield Power Station, 500 Coxendale Road, Chester, VA 23836 in James River Industrial Center.

PROJECT DESCRIPTION: Dominion Energy Virginia (Dominion) has applied for a permit to construct the Chesterfield Energy Reliability Center (CERC) adjacent to the existing Chesterfield Power Station. Dominion has been executing its public-service mission—to safely provide reliable and affordable electricity to millions of Virginia homes and businesses—for nearly a century. As the company positions itself to fulfill the Commonwealth's long-term energy policy goals, it must be responsive to the practical implications of maintaining a reliable system. One of these implications is the need for sufficient "dispatchable" generation which can respond quickly to changes in customer demand for electricity. Electricity needs in Dominion's service area are projected to dramatically increase in the coming years, so the company must prepare today to meet tomorrow's demand. CERC will provide additional power generation capacity specifically designed to respond quickly with reliable, dispatchable power generation to the grid when needed. This includes during high demand periods, seasonal peaks, and extreme temperature events, as well as when generation resources (such as solar and wind) are unavailable or insufficient to meet customer needs. The proposed CERC dual-fuel simple cycle combustion turbines (SCCTs) are focused on supporting the clean energy transition while also optimizing reliability and economics for our system customers. CERC will be located on an adjacent parcel of property to the Chesterfield Power Station in the James River Industrial Center, in Chesterfield County, Virginia 23836 approximately 4 miles northeast of Chester, Virginia. The project will consist of four SCCTs with a nominal power output of 250 MW each, firing primarily pipeline quality natural gas, as well as having the capability to fire No. 2 fuel oil with a maximum sulfur content of 15 ppm. Additionally, the SCCTs will be capable of operating on an advanced gaseous fuel blend consisting of natural gas with up to 10% hydrogen (H₂ fuel blend). The SCCTs will be equipped with dry low-NO_x burners and, for when firing fuel oil, water injection to reduce nitrogen oxide (NO_x) emissions. In addition, a selective catalytic reduction system will be installed to further reduce emissions of NO_x, as well as an oxidation catalyst to reduce emissions of carbon monoxide (CO), volatile organic compounds (VOC), and hazardous air pollutants (HAP). Good combustion practices, the use of clean burning fuels, and the use of energy efficient designs, practices and procedures will reduce emissions of all pollutants including NO_x, CO, particulate matter (PM), particulate matter less than 10 microns (PM₁₀), particulate matter less than 2.5 microns (PM_{2.5}), sulfur dioxide (SO₂), sulfuric acid mist (H₂SO₄), VOC, and greenhouse gases (GHGs). CERC is also proposing to install black start capability for the turbines with the addition of six (6) nominal 3,500 kilowatt-electric fuel oil-fired emergency generators. Additional ancillary equipment proposed to be installed to support CERC are one (1) natural gas-fired fuel gas heater, one (1) fuel oil-fired emergency firewater pump, and fuel oil storage tanks.

The existing Chesterfield Power Station is classified as a major source of air pollution, and the CERC project will be considered a major modification to the Chesterfield Power Station permit. The maximum annual emissions of air pollutants from the CERC project are expected to be: 344.9 tons per year (tpy) NO_x; 818.8 tpy CO; 158.9 tpy VOC; 81.6 tpy PM; 153.7 tpy PM₁₀; 153.7 tpy PM_{2.5}; 27.8 tpy SO₂; 18.7 tpy H₂SO₄; and 2.2 million tpy GHG (carbon dioxide equivalents). The Chesterfield Power Station is considered a major source of HAP emissions. The proposed CERC project HAP emissions are expected to be 10.05 tpy. The Chesterfield Power Station recently shutdown two coal-fired electric power generation units and after taking into consideration the project emissions, there will be an overall reduction of NO_x, PM, PM₁₀, SO₂, and H₂SO₄ emissions. The expected effect on local air quality will be in compliance with all USEPA's National Ambient Air Quality Standards and applicable State and Federal regulations.

CONTACT FOR QUESTIONS AND ADDITIONAL INFORMATION: T.R. Andrade; Dominion Energy, 120 Tredegar Street, Clearinghouse Building, 3rd Floor, Richmond, VA 23219; Phone: 804.839.2760; E-mail: Thomas.R.Andrade@dominionenergy.com