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Dominion Virginia Power

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PROJECT PROPOSAL

2016\_1-3D\_Carson-Rawlings 500kV Line

*for:*

***2016 RTEP Proposal Window 1***

**March 31, 2016**

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**PUBLIC VERSION**

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## A. Executive Summary

### A.1. Name of proposing entity

This proposal is submitted by Dominion Virginia Power (Dominion).

### A.2. Proposal window and associated violations/issues addressed

2016 RTEP Proposal Window 1

#### A.2.a. Reliability violation(s) addressed by project

This solution addresses the following violation that was identified by PJM as a result of generator deliverability analysis and posted at the opening of this window.

- Flowgate 102: Rogers Rd – Carson 500kV Line overloaded for the loss of LN 511.

#### A.2.b. Violations caused by proposal/nearby violations not addressed by this proposal

There are no new violations caused by this proposal and no nearby violations not addressed by this proposal.

### A.3. Project interrelation with other entities

This project does not span between two PJM Transmission Owner zones or between PJM and a neighboring Balancing Authority.

### A.4. Intention to construct/own/operate/maintain

For this proposal, Dominion seeks to be the designated entity to construct, own, operate, maintain and finance the Project.

### A.5. Description of the proposed solution and corresponding violation(s) it resolves

To resolve the violation noted in section A.2. above, Dominion proposes to construct **2016\_1-3D\_Carson-Rawlings 500kV Line** (the "Project") in Virginia. The Project includes the following facilities:

- **New Greenfield Transmission Line:** Carson Substation to Rawlings Substation, 500kV, 23 miles, parallel to the existing Carson to Rawlings 500kV line (Line 511).
- **Carson Substation Modification:** Add (2) 500kV breakers and associated fiber.
- **Rawlings Substation Modification:** Add (2) 500kV breakers and associated fiber.

For the purpose of this proposal, Dominion developed a feasible route (the "Conceptual Route") based on a desktop review of publicly available data. The Conceptual Route was used as the basis for the designs and estimates contained in this proposal. However, the Conceptual Route is not intended to represent a preferred, alternate or final route for purposes of the applicable siting, permitting and other regulatory approval processes.

A geographic map of the Project study area is provided as Appendix A.

### A.6. How this project should be considered

This project should be considered as a whole.

#### **A.7. Cost and cost commitment overview**

The estimated total capital cost in today's dollars for all components of the Project, including components that PJM may consider as upgrades, is approximately \$45.7 million.

PJM can have confidence in the reasonableness of this cost estimate. Dominion, the incumbent Transmission Owner in the PJM Southern region of the Project, has extensive knowledge and experience developing, constructing, operating and maintaining similar facilities in Virginia. These estimates were derived using actual cost from recent projects.