



# Dooms to Lexington Transmission Line Rebuild Project

Dominion plans to rebuild an aging transmission line within existing right-of-way

## BACKGROUND

The Dooms-Lexington line is an important part of Dominion's 500 kilovolt (kV) Extra High Voltage network, which is the major transportation system providing electrical energy to Dominion's customers, including many local electric cooperatives, as well as a large portion of the eastern United States. The purpose of this network is to deliver bulk power from generation sources to the populated areas where most power is used.

*This line was put into service in 1966 and, after more than four decades of operation, the structures and equipment are approaching the end of their expected service life and require replacement to maintain reliability. Our studies show that the line needs to be upgraded by 2016 to avoid violations of the mandatory reliability standards established by the North American Electric Reliability Corporation (NERC). At the same time, a new 230kV line will be added onto the new structures for better regional reliability.*

## PROJECT OVERVIEW

Remove existing structures and rebuild approximately 39 miles of 500kV line between Lexington and the Dooms Substation north of Waynesboro. A new 230kV line will be installed on the lower set of arms on the new structures. Both lines will operate safely within the existing right-of-way corridor. Rebuilding this line now will:

- Allow the Lexington to Dooms line to be rebuilt during off-peak periods without disrupting power service to customers
- Replace aging infrastructure prior to equipment failure
- Replace structures at, or very near, the current locations with taller structures to maintain required ground clearances and allow for a second line, see diagrams below

## PROJECT BENEFITS

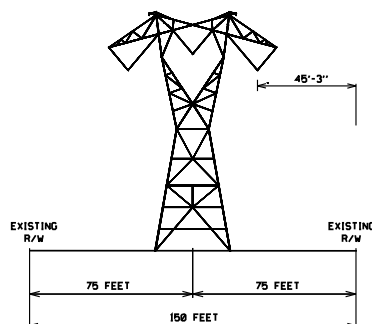
- Reduces the risk of a major failure of the high-voltage network
- Maintains local and regional electric reliability
- Increases capacity of the 500 kV line by nearly 50 percent
- Creates a new 230kV line to support local growth and future economic development opportunities

## PROPOSED TIMELINE

- Fall 2012 — Outreach to stakeholders and regulatory entities for necessary approvals
- Fall 2013 — Notify neighbors about construction plans
- Fall/Winter 2013 — Initiate construction activities
- December 2015 — Energize lines

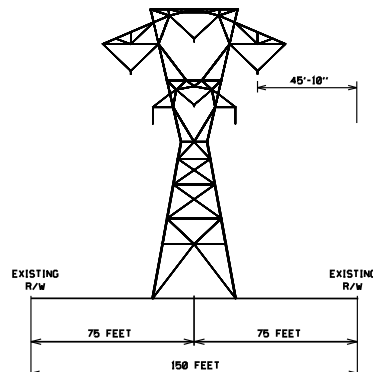
### Existing Structures

(average height approximately 108', typical cross section)



### Proposed Structure

(average height approximately 142', typical cross section)



See reverse side for a map of the Dooms to Lexington Transmission Line Rebuild Project.

# Dominion Virginia Power

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If you have questions or comments regarding the *Dooms to Lexington Transmission Line Rebuild Project*, please send an email to: [powerline@dom.com](mailto:powerline@dom.com) or phone one of our transmission customer service agents at 1-888-291-0190 from 7 a.m. to 5 p.m., Monday-Friday. You can also obtain information about this project and updates as we proceed at [www.dom.com](http://www.dom.com), keyword: *Lexington*