Loudoun to Pleasant View 500kV Rebuild & Brambleton to Mosby 500kV Projects

Project Overview

December 2015
Project Details

- 13 mile line, originally build in the 1960’s, crosses three county magisterial districts – Blue Ridge, Dulles and Catoctin
Project Details

13-mile rebuild
- Loudoun–Brambleton, **5 miles**
- Brambleton–Goose Creek, **8 miles**
- Application filed with the SCC October 2013
- Approved by the SCC April 2014
- Scheduled to be In-Service May 2016

5-mile rebuild
- Mosby – Brambleton, **5 miles**
- Application filed with the SCC August 2014
- Approved by the SCC June 2015
- Scheduled to be In-Service June 2017

Corridor is 250’ wide
- 500kV single-circuit west
- 230kV double-circuit east

The Rebuild projects require **no additional right-of-way**
**Photo view:** looking south from Pleasant View/Goose Creek Substation area

- 230kV Double-circuit on eastern side of corridor
- 500kV Single-circuit on western side of corridor
**Simulation view:** looking north from Brambleton Substation area
DOMINION – BRAMBLETON SUBSTATION
CURRENT PROJECTS & CONSTRAINTS
1. Loudoun – Pleasant View 500kV Rebuild
1. Loudoun – Pleasant View 500kV Rebuild

2. Brambleton – Mosby 500kV Line
1. Loudoun – Pleasant View 500kV Rebuild

2. Brambleton – Mosby 500kV Line

3. 500kV GIS Enclosure (built 2015)
1. Loudoun – Pleasant View 500kV Rebuild

2. Brambleton – Mosby 500kV Line

3. 500kV GIS Enclosure (built 2015)

4. 20’ Security Fence
1. Loudoun – Pleasant View 500kV Rebuild

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5. NOVEC Service Center
1. Loudoun – Pleasant View 500kV Rebuild

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Constraints…
~1,000’ Berm Started October, plantings in Spring 2016
Samples of the architectural panel material that will be replacing the existing chain-link fence.
Foundations – All foundation work is complete.

Brambleton Substation – The GIS Enclosure building has been erected and work on the interior equipment has begun.

BERM at the Brambleton Substation – The landscape berm, west of the substation was recently approved by Loudoun County and work has begun to shape the berm. Landscape plantings are anticipated to be performed in Spring 2016.

Fence – Work is slated to begin in Spring 2016.

Transmission Lines:
Loudoun – Goose Creek: well underway, slated for completion May 2016
Brambleton – Mosby: starting construction May 2016, completion Summer 2017
Brambleton Schedule of Projects

Goose Creek - Loudoun 500 kV Rebuild

GIS Enclosure

20' Security Fence

NOVEC Service Center Building

Brambleton - Mosby 500 kV Line

Electromagnetic Fields ("EMF")

- EMF, at various frequencies, is naturally present everywhere in the environment
  - It is also created whenever an electrical current is used
  - It is not only found near transmission and distribution lines, but also in homes, workplaces, schools, etc.
  - EMF “falls off” very quickly from the source
For regular project updates please visit:

**Loudoun to Pleasant View 500kV Rebuild Project:**

**Brambleton to Mosby 500kV Project:**

Dom.com search keywords: “Loudoun”, “Brambleton”
Loudoun to Pleasant View
500kV Rebuild
&
Brambleton to Mosby 500kV Projects

Questions?
Please send us an email at powerline@dom.com or call (888) 291-0190, Monday - Friday, 7 a.m.- 5 p.m.
Loudoun Service Center
Simulated View From Evergreen Mills Rd. /Shreveport Drive
Loudoun Service Center

- NOVEC serves more than 160,000 customers in six counties
- 33,700+ customers in Loudoun County
  - 21% of total NOVEC customers
- 85% of NOVEC’s Loudoun County customers are within a 5 mile radius of the Brambleton site.
Brambleton area customers served out of the NOVEC Leesburg and the Gainesville facilities.

Service infrastructure closer to our customers is vital to ensure service NOVEC wants to provide.
Loudoun Service Center

Four structures; all located east of the substation.

1) Main office/warehouse building
2) Two covered parking areas for NOVEC vehicles
3) Facility for fueling vehicles, and enable mobile service crew to perform minor vehicle maintenance
4) Storage yard
NOVEC purchased the 67 acre site in 2003

1. New substation to meet growing area demand for electricity delivery

2. Future service center more effectively station employees assigned to design, construct, and maintain the electric services.

3. Portion of parcel leased to Dominion.
Project development

1. Commission Permit: September 2014
2. Board of Supervisors Approval: October 2014
3. Site Plan Approval: July 2015
4. Site development began September 2015
5. Building construction to begin first quarter 2016
6. Completion expected mid-2017
Visual impact mitigation

Approved commission permit plat includes a Type 4 buffer:

Every 100 feet,

- 8 Evergreens
- 2 Canopy Trees
- 5 Understory
- 10 Shrubs
We ask for your patience during the construction phase of the new Loudoun Service Center.