



# Sub Regional RTEP Committee PJM South

May 21, 2020

- The following definitions explain the basis for excluding flowgates and/or projects from the competitive planning process and designating projects to the incumbent Transmission Owner.
- Flowgates/projects excluded from competition will include the underlined language on the corresponding slide.
  - Immediate Need Exclusion: Due to the immediate need of the violation (3 years or less), the timing required for an RTEP proposal window is infeasible. As a result, the local Transmission Owner will be the Designated Entity. - Operating Agreement, Schedule 6 § 1.5.8(m)
  - Below 200kV Exclusion: Due to the lower voltage level of the identified violation(s), the driver(s) for this project are excluded from the competitive proposal window process. As a result, the local Transmission Owner will be the Designated Entity - Operating Agreement, Schedule 6 § 1.5.8(n)
  - Substation Equipment Exclusion: Due to identification of the limiting element(s) as substation equipment, the driver(s) for this project are excluded from the competitive proposal window process. As a result, the local Transmission Owner will be the Designated Entity - Operating Agreement, Schedule 6 § 1.5.8(p)

# Scope Change / Cost Increase



# Dominion Transmission Zone: Baseline 115kV Line #141 & #28 Rebuild

## Existing (b3098) Scope and Cost Modification

**Original: Baseline Project: Line #141 and Line #28 Rebuild**

**Revised: Balcony Falls Substation Rebuild (New Scope)**

### Problem Statement:

115kV Line #141 extends 9.8 miles between Balcony Falls and Skimmer. For 3.8 miles this line was constructed on a combination of double circuit Blaw Knox structures and shares with 115kV Line #28 and single circuit wood H-frame structures. Rest of line #141 is a combination of wood H-frame and Blaw Knox towers to Skimmer.

The Blaw Knox structures between Balcony Falls and Skimmer were constructed in the 1920's, are showing deterioration, and are reaching the end of their useful service life. Wood H-frame structures for both lines are experiencing ground line deterioration, cracking, splitting, or woodpecker holes and have been identified for replacement.

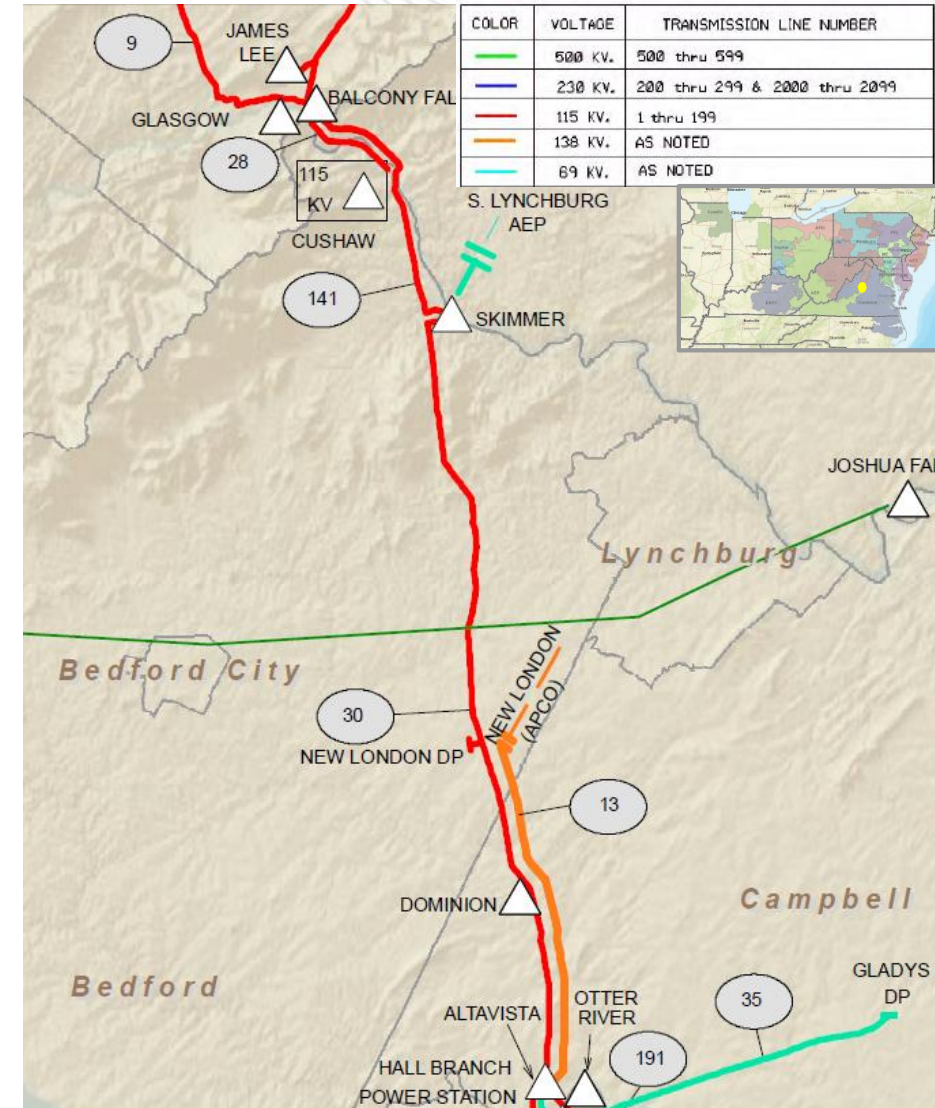
Approximately 9.2 miles of Line #141 and 3.9 miles of Line #28 have 4/0 ACSR conductor that was installed in the 1920's. Industry guidelines indicate equipment life for wood structures is 35-55 years, conductor and connectors are 40-60 years, and porcelain insulators are 50 years.

**Date Originally Presented:** 02/20/2019 (SRRTEP)

### Original Proposed Solution

- Replace all Line #141 and Line #28 structures and both lines will be rebuilt to current standards with a minimum rating of 261MVA. (Est. cost \$20M)

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# Dominion Transmission Zone: Baseline 115kV Line #141 & #28 Rebuild

## Existing (b3098) Scope and Cost Modification

Original: Baseline Project: Line #141 and Line #28 Rebuild

Revised: Balcony Falls Substation Rebuild (New Scope)

## Reason for Cost Increase and Scope Modification:

- a. The Balcony Falls was part of our acquisitions from APL and it appears the lattice structure that all 4 lines and the cross bus terminate on was built in 1926.
- b. Visually it appears that the galvanizing is moderately to severely worn along large portions of the structure. Our structural group does not want to make any changes that would require additional stress be placed on this structure

## Revised Proposed Solution

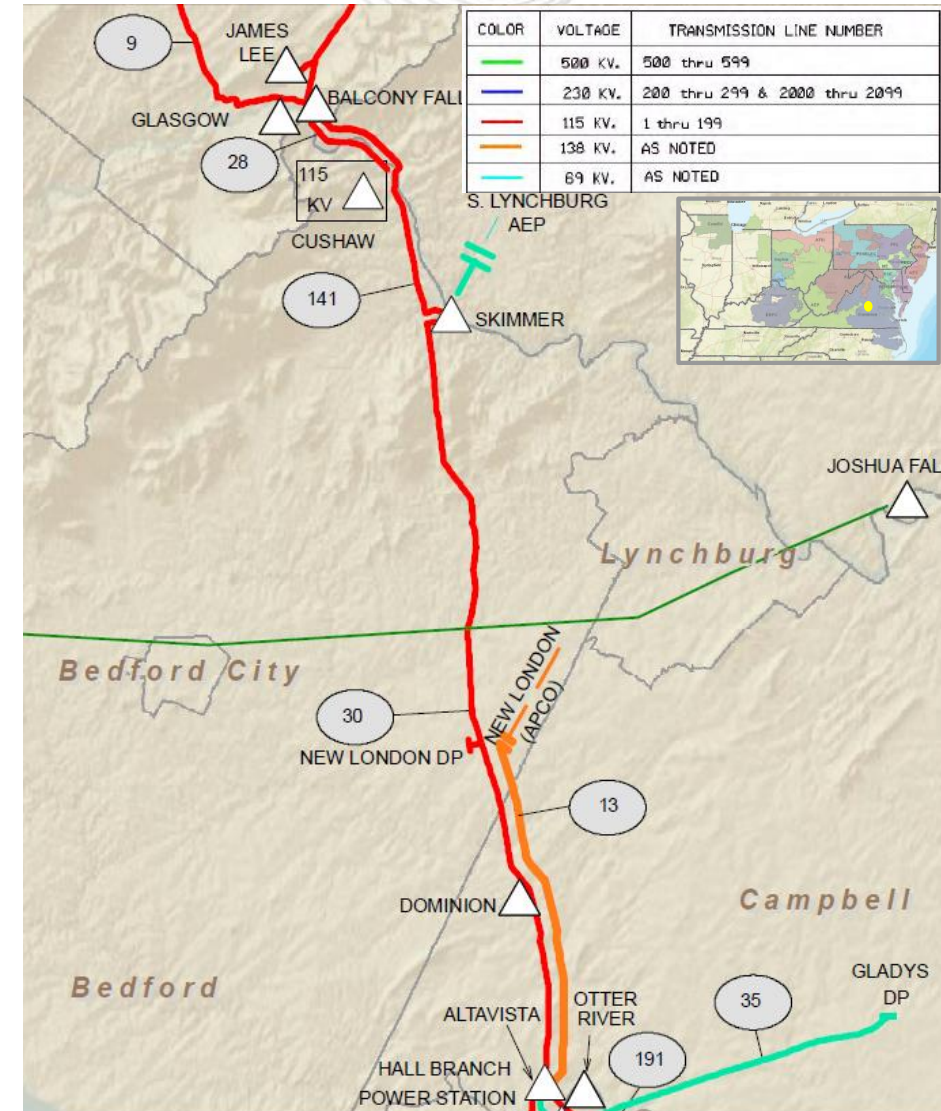
- (Same as original solution) Rebuild the main line #141 and line #28 to current standards. (Est. cost \$20M)
- (New) Rebuild Balcony Falls Substation (Est. cost \$9M)

## Alternatives Considered:

No feasible alternatives

Projected IS Date: 12/31/2023

Project Status: Conceptual



# Next Steps

# Questions?





## Revision History

05/13/2020 – V1 – Original version posted to [pjm.com](http://pjm.com)