Sub Region RTEP Mid-Atlantic Committee
DPL Supplemental Projects

October 15, 2020

Solutions

Stakeholders must submit any comments within 10 days of this meeting in order to provide time necessary to consider these comments prior to the next phase of the M-3 process

DPL Transmission Zone M-3 Process

Need Number: DPL-2019-0002

Process Stage: Updated Solutions Meeting 10/15/2019

Previously Presented: Solution Meeting 03/20/2020

Previously Presented: Needs Meeting 6/28/2019

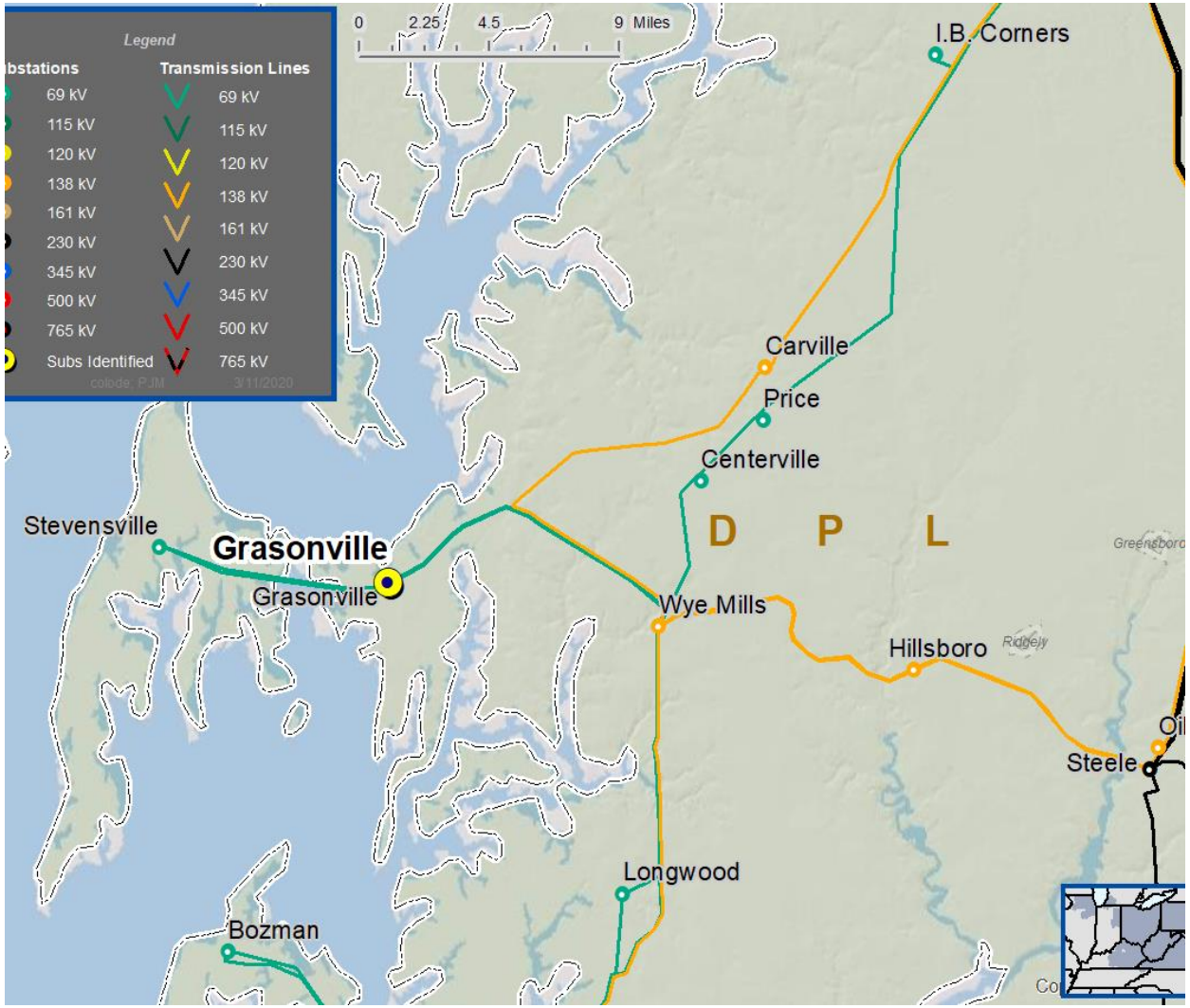
Project Driver: Equipment Material Condition, Performance and Risk

Specific Assumption Reference:

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions

Problem Statement:

- Grasonville Substation is in a deteriorated condition and has experienced flooding issues



Need Number: DPL-2019-0003

Process Stage: Updated Solutions Meeting 10/15/2019

Previously Presented: Solution Meeting 03/20/2020

Previously Presented: Needs Meeting 10/21/2019

Project Driver: Customer Service

Specific Assumption Reference:

- Address customer outage exposure

Problem Statement:

- Customers in the Queenstown area historically experience poor service reliability due to high customer counts on feeders and minimal distribution automation capability. MD PSC has mandated that DPL improve reliability in the state.

DPL Transmission Zone M-3 Process

Need Number: DPL-2019-0002, DPL-2019-0003

Process Stage: Solutions Meeting 03/20/2020

Original Proposed Solution: (see next slide for the new/updated solution)

- Construct new 4-breaker ring bus substation west of existing Grasonville Substation on Grasonville to Stevensville 69 kV line.
- Construct new 4-breaker ring bus substation west of existing Wye Mills Substation on Wye Mills to Stevensville 69 kV line.
- Retire existing Grasonville Substation.
- Estimated Cost: $13.5M

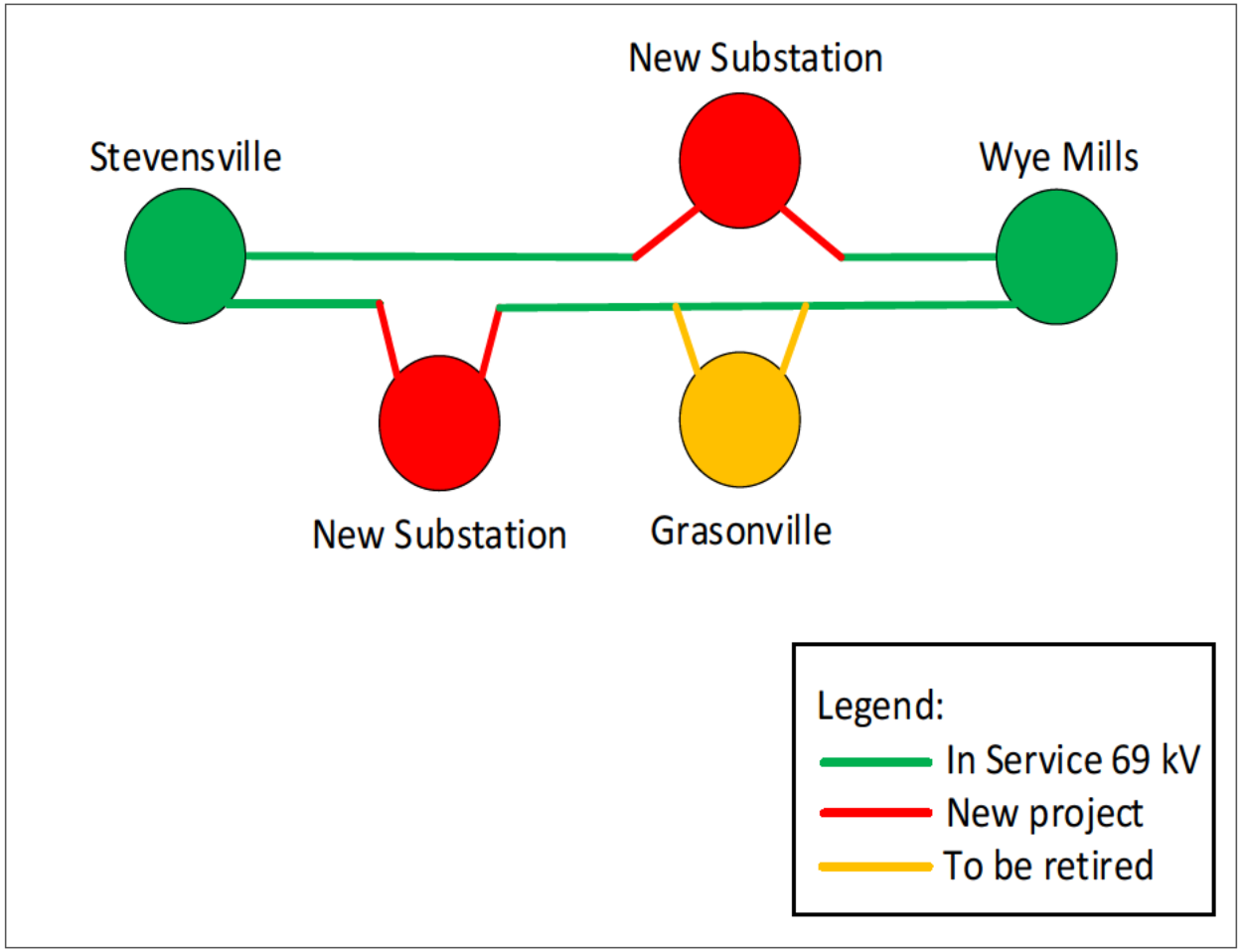
Alternatives Considered:

1. Construct new 4-breaker ring bus west of Wye Mills on Wye Mills-Stevensville 69 kV line, raise Grasonville Substation - $10M
    - Leaves access issue to Grasonville Substation during flood events
    - Limits distribution automation capability
2. Construct new 4-breaker ring bus west of existing Grasonville Substation, retire Grasonville Substation - $7M
    - Limits distribution automation capability

Projected In-Service: 6/1/2023

Project Status: Engineering

Model: PJM 2024 RTEP Model



DPL Transmission Zone M-3 Process

Need Number: DPL-2019-0002, DPL-2019-0003

Process Stage: Solutions Meeting 10/15/2020

Revised Proposed Solution:

- Construct new 5-breaker ring bus substation west of existing Grasonville Substation (w/30MVAR Capacitor Bank)
- Construct new 5-breaker ring bus substation west of existing Wye Mills Substation (w/30MVAR Capacitor Bank)
- Retire existing Grasonville Substation.
- Estimated Cost: $18.5M

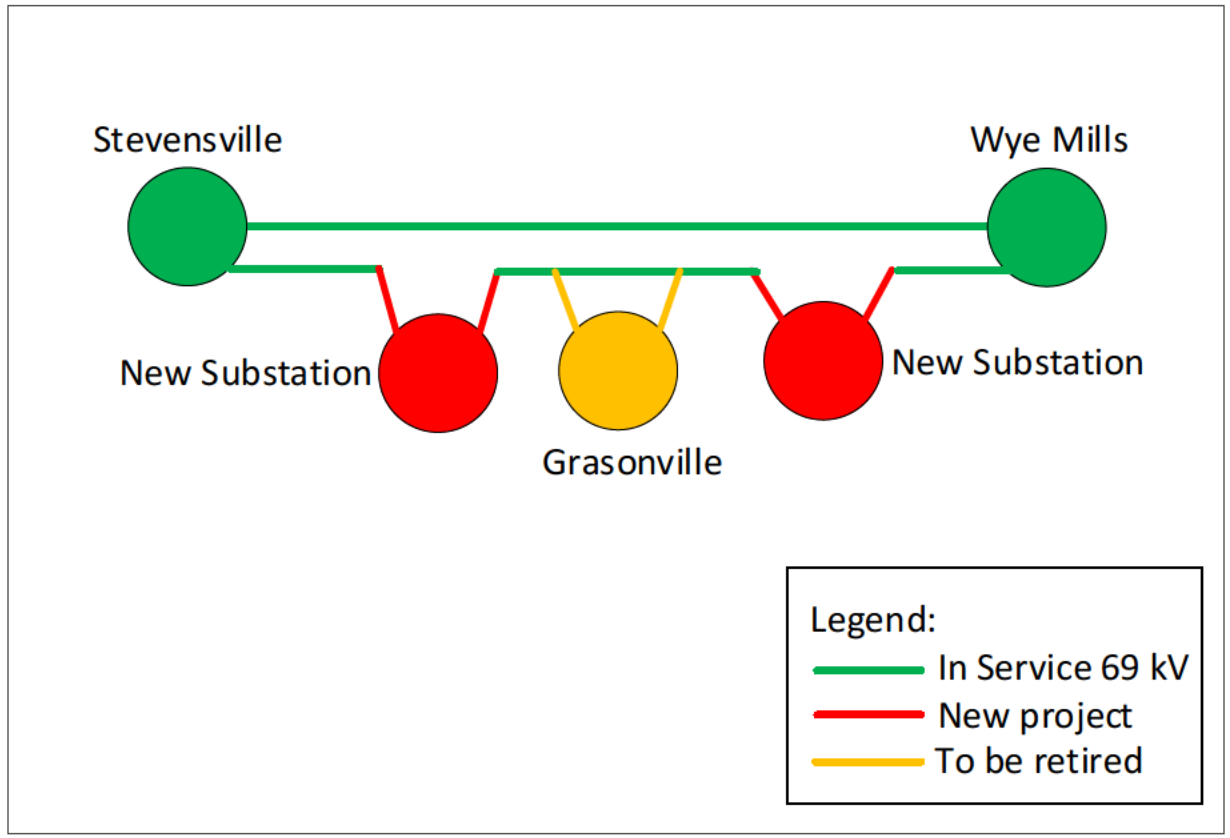
Alternatives Considered:

1. Construct new 4-breaker ring bus west of Wye Mills on Wye Mills-Stevensville 69 kV line, raise Grasonville Substation - $10M
    - Leaves access issue to Grasonville Substation during flood events
    - Limits distribution automation capability
2. Construct new 4-breaker ring bus west of existing Grasonville Substation, retire Grasonville Substation - $7M
    - Limits distribution automation capability

Projected In-Service: 6/1/2023

Project Status: Engineering

Model: PJM 2025 RTEP Model



Questions?

Appendix

High level M-3 Meeting Schedule

Assumptions

Activity	Timing
Posting of TO Assumptions Meeting information	20 days before Assumptions Meeting
Stakeholder comments	10 days after Assumptions Meeting

Needs

Activity	Timing
TOs and Stakeholders Post Needs Meeting slides	10 days before Needs Meeting
Stakeholder comments	10 days after Needs Meeting

Solutions

Activity	Timing
TOs and Stakeholders Post Solutions Meeting slides	10 days before Solutions Meeting
Stakeholder comments	10 days after Solutions Meeting

Submission of Supplemental Projects & Local Plan

Activity	Timing
Do No Harm (DNH) analysis for selected solution	Prior to posting selected solution
Post selected solution(s)	Following completion of DNH analysis
Stakeholder comments	10 days prior to Local Plan Submission for integration into RTEP
Local Plan submitted to PJM for integration into RTEP	Following review and consideration of comments received after posting of selected solutions

Revision History

10/5/2020 – V1 – Original version posted to pjm.com