

Subregional RTEP Committee – Mid-Atlantic UGI Supplemental Projects

November 18, 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

UGI Transmission Zone: Supplemental Koonsville 66kV/13kV Substation

Need Number: UGI-2020-0001

Process Stage: Solutions Meeting 11/18/2020

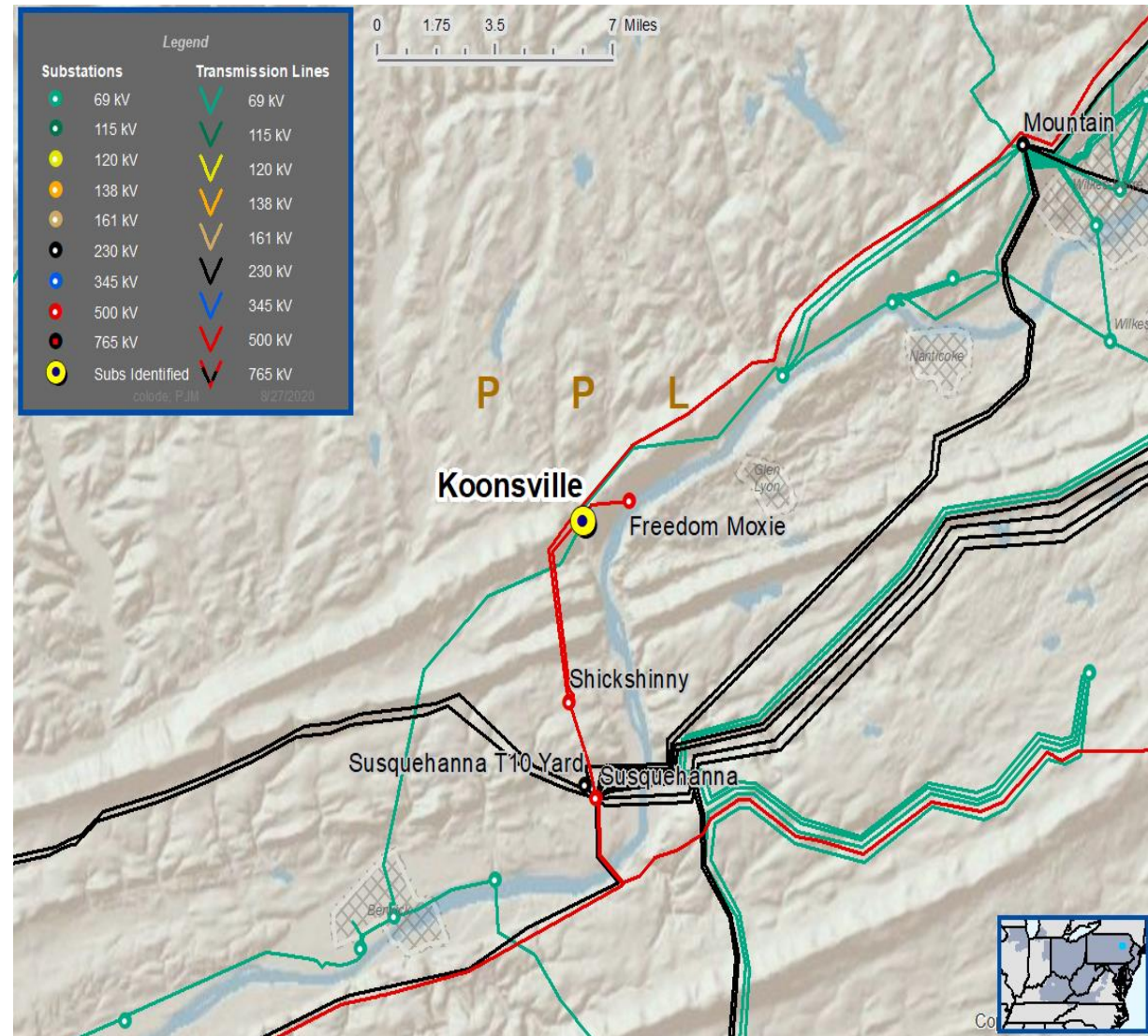
Previously Presented: Need Meeting 9/10/2020

Project Driver: Equipment Material Condition, Performance, and Risk & Operational Flexibility and Efficiency

Specific Assumptions References: [UGI Utilities, Inc. Electric Division 2020 Annual Planning Assumptions](#)

Problem Statement: Koonsville 66kV/13kV Substation

- The two transformer substation constructed in 1967, consists primarily of original equipment (all major components).
- Located on a 0.25 acre parcel between two commercial buildings and adjacent to a creek (in the rear).
- Concerns relative to public safety due to limited space and associated clearance from substation.
- Internal clearances do not meet current NESC requirements.
- Access around the substation particularly with the mobile substation is restricted by buildings.
- The non-standard design includes minimal infrastructure, clearances and little consideration for expansion and upgrades
- Substation is tapped off a networked 66kV line with no high-side circuit breaker protection. Distribution transformer protection is single phase fusing.
- The substation structure is original wood-pole construction with no 13kV bus. Space does not provide for distribution feeder expansion.



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Proposed Solution:

- Construct new 66/13.8kV distribution substation on neighboring UGI property
- Build ~200' of new 66kV double circuit line
- Replace existing 66kV tap and line MOAB with high side 66kV line breakers
- Estimated Cost - \$2.1 MM

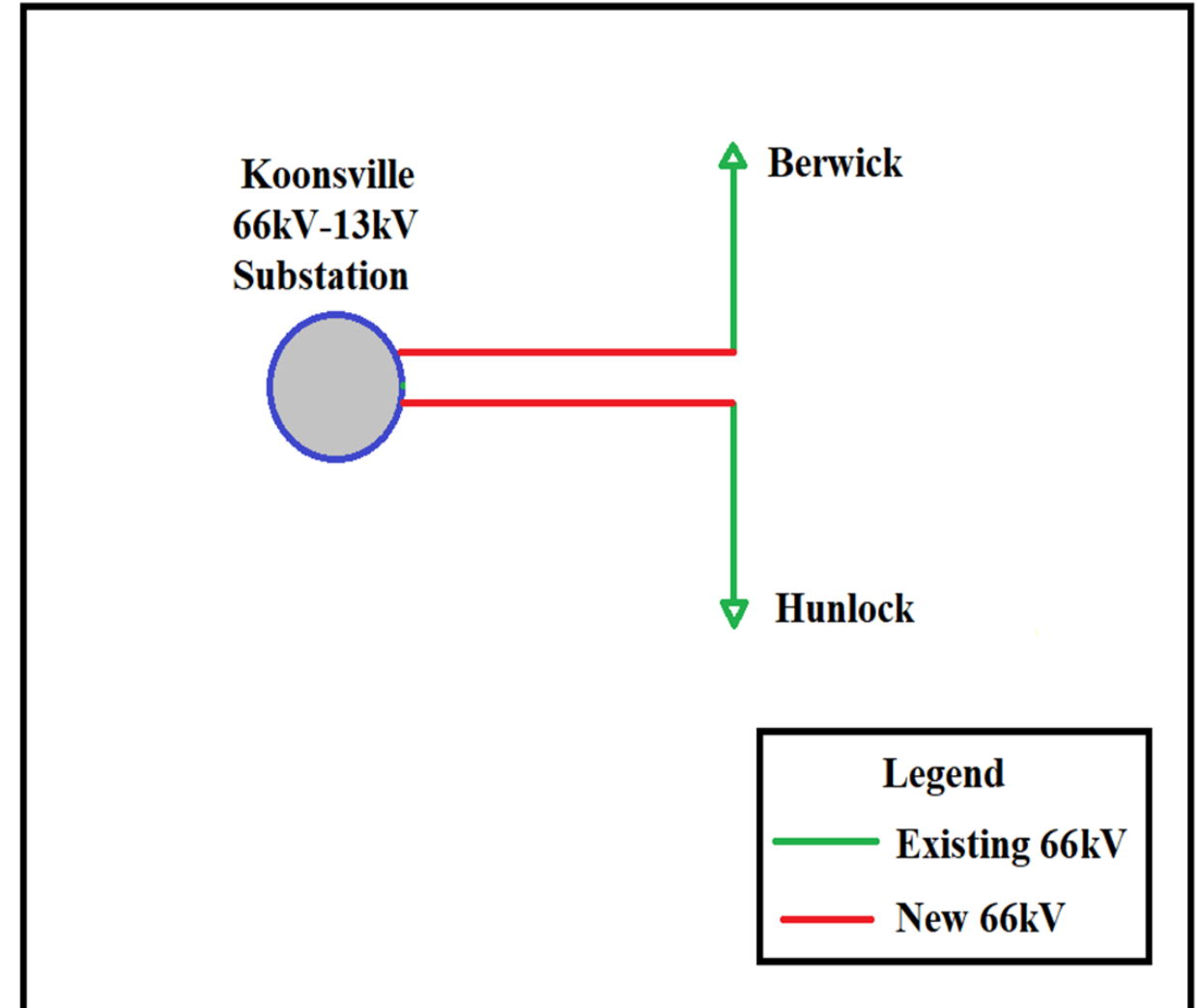
Alternatives Considered:

- No feasible alternatives

Projected In-Service: Spring 2022

Project Status: Engineering

Model: 2020 Series 2025 Summer RTEP 50/50



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

11/6/2020 – V1 – Original version posted to pjm.com