

Submission of UGI Supplemental Projects for Inclusion in the Local Plan

Need Number: UGI-2020-0001

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 9/20/2021

Previously Presented:

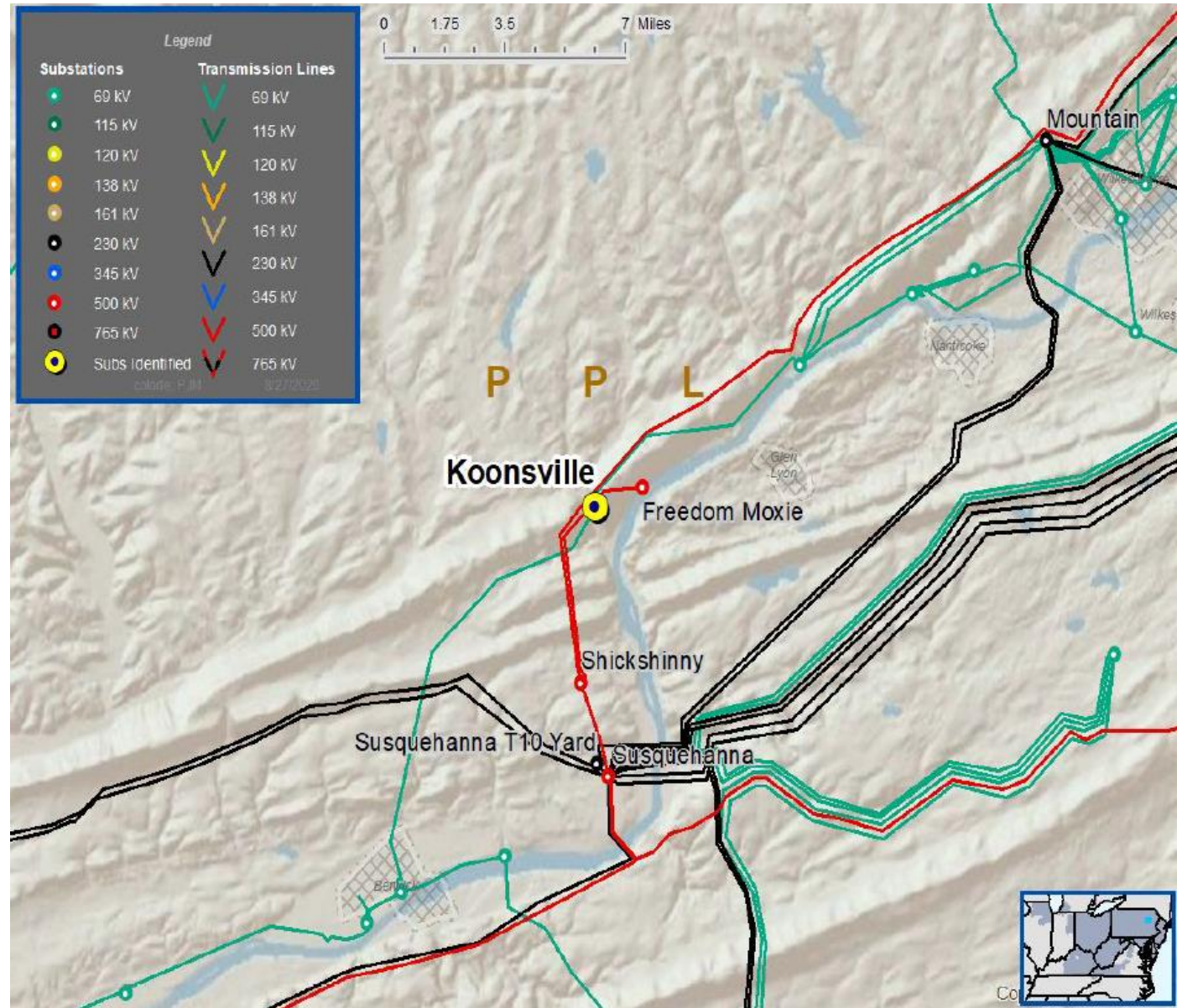
- Solutions Meeting 11/18/2020
- Need Meeting 9/10/2020

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:

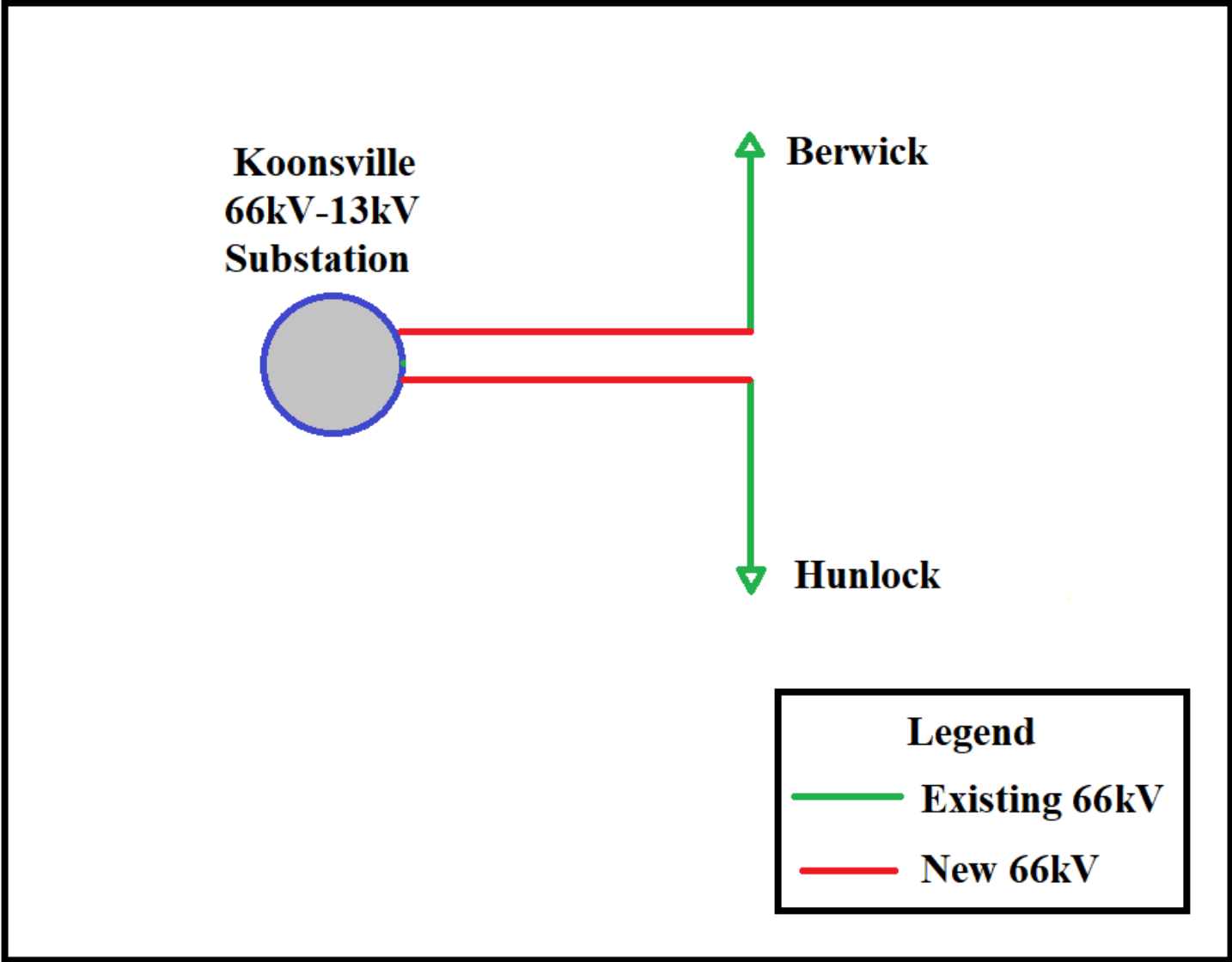
- No feasible alternatives

Projected In-Service: Spring 2022

Supplemental Project ID: s2416

Project Status: Engineering

Model: 2020 Series 2025 Summer RTEP 50/50



Revision History

9/20/2021 – V1 – Local Plan for s2416 posted to pjm.com