Sub Regional RTEP Committee
PJM Mid-Atlantic
PPL

April 26, 2019

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

PPL Transmission Zone M-3 Process
Long Pond 69/12 kV Substation

Need Number: PPL-2019-0008

Process Stage: Solutions Meeting April 26, 2019

Previously Presented: Needs Meeting Feb 22, 2019

Supplemental Project Driver:

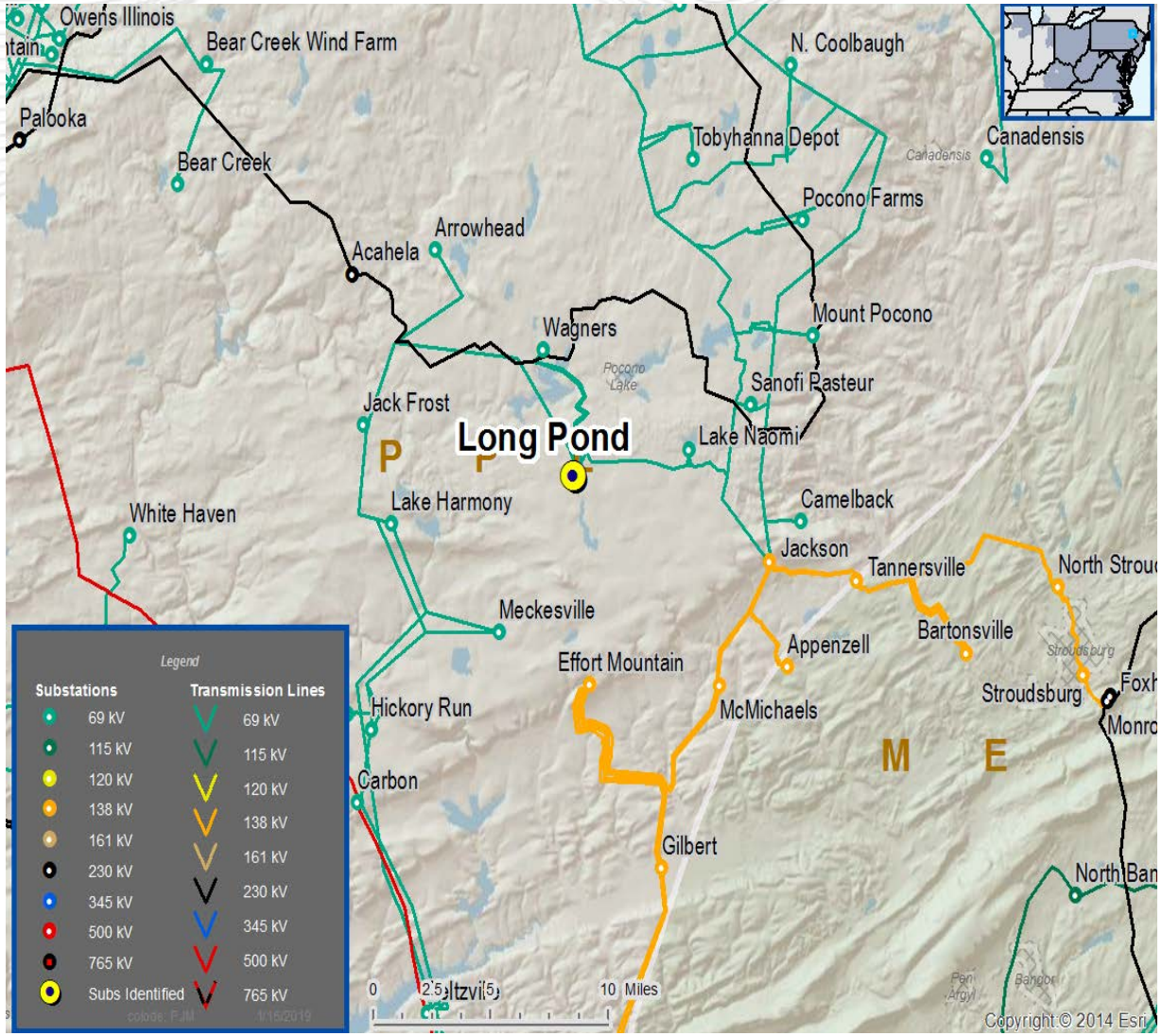
Customer Service

Specific Assumption References:

PPL 2019 Annual Assumptions

Problem Statement:

PPL Distribution has submitted a request for a second 69 kV transmission source to their Long Pond 69/12 kV substation due to a customer load increase request for a customer fed from their Long Pond 69/12 kV substation. Currently there is only one transmission source. The substation serves 12.5 MVA with an expected load addition of 13 MVA in 2020. This load increase will result in dropping customer load to perform maintenance outages.



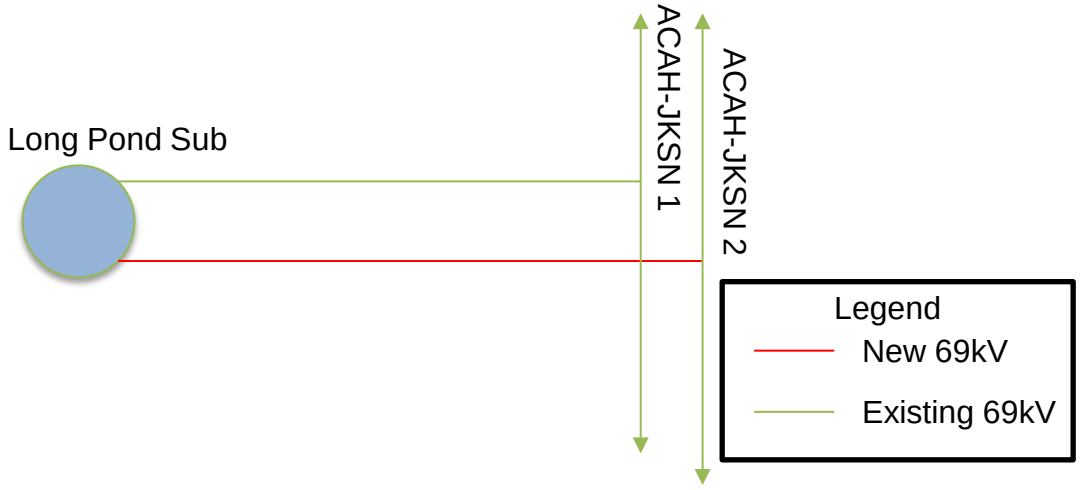
Need Number: PPL-2019-0008

Process Stage: Solutions Meeting April 26, 2019

Potential Solution:

Expand and reconfigure the existing Long Pond substation to a higher capacity design requiring a second 69kV transmission source. Interconnect the distribution substation with a second line from the existing Acahela-Jackson #2 69 kV line.

Estimate Cost: $0.75 M



Alternatives Considered:

1. No feasible alternatives

Projected In-Service: 11/30/2020

PPL Transmission Zone M-3 Process
Blooming Glen 69/12 kV Substation

Need Number: PPL-2019-0010

Process Stage: Solutions Meeting April 26, 2019

Previously Presented: Needs Meeting Feb 22, 2019

Supplemental Project Driver:

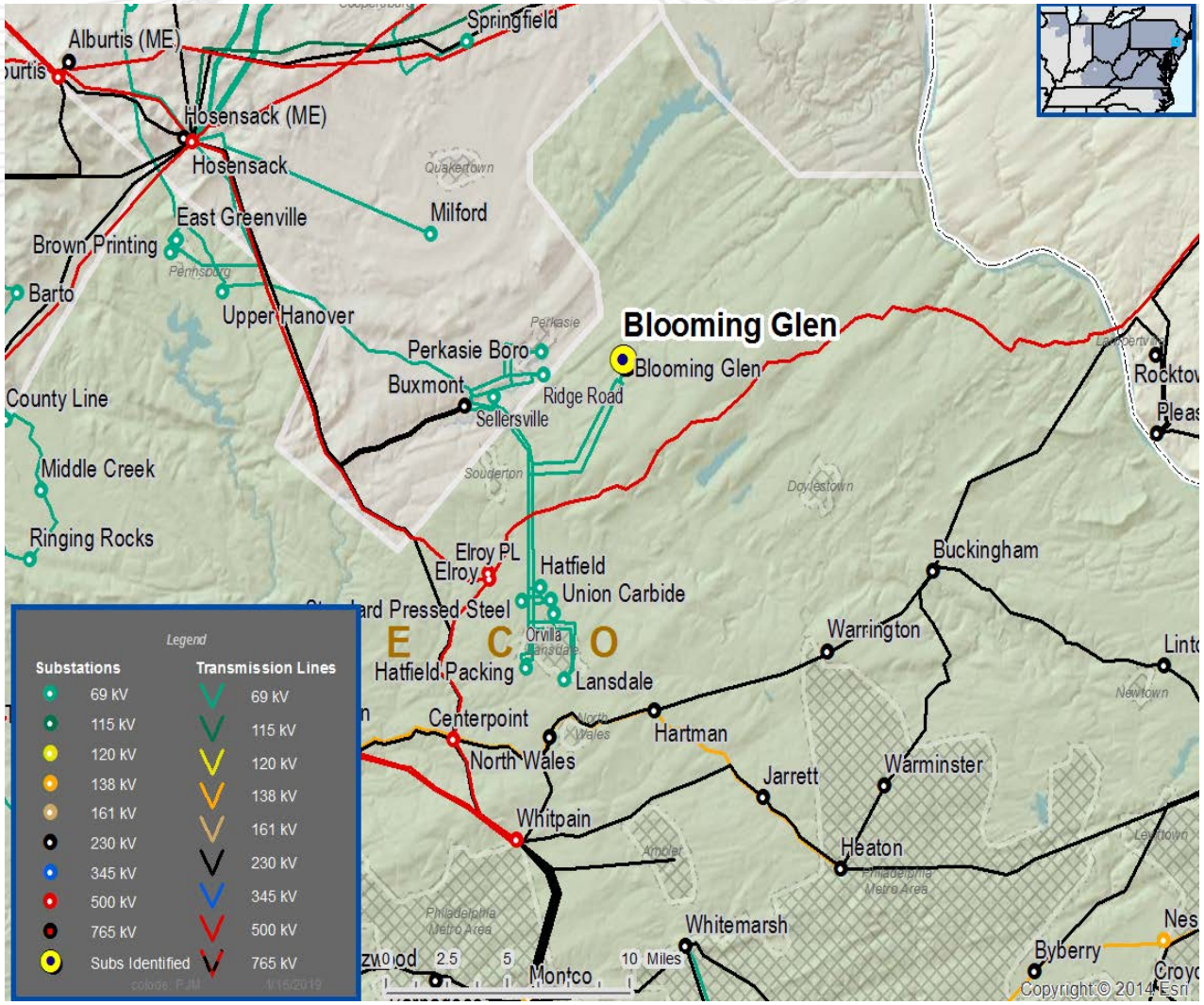
Customer Service

Specific Assumption References:

PPL 2019 Annual Assumptions

Problem Statement:

PPL Distribution has submitted a request for a second 69 kV transmission source to their Blooming Glen 69/12 kV substation due to an expected load increase of 3 MVA at its Blooming Glen 69/12 kV substation. Currently there is only one transmission source. The substation currently serves a total 19.3 MVA of load. This load increase will result in dropping customer load to perform maintenance outages. This load increase is driven by commercial development in the area.



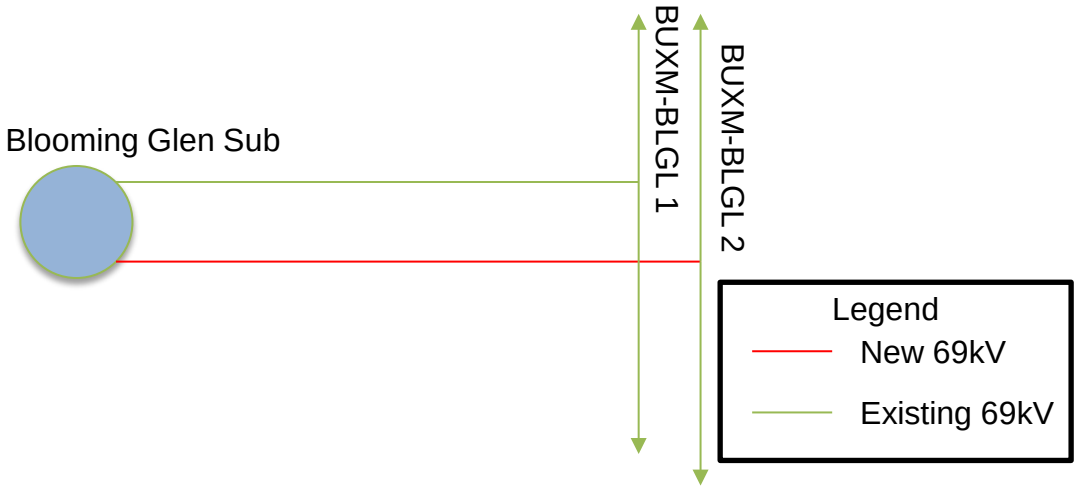
Need Number: PPL-2019-0010

Process Stage: Solutions Meeting April 26, 2019

Potential Solution:

Expand and reconfigure the existing Blooming Glen substation to a higher capacity design requiring a second 69kV transmission source. Interconnect the distribution substation with a second line from the existing Buxmont-Blooming Glen #2 69 kV line.

Estimated Cost: $3.5 M



Alternatives Considered:

1. No feasible alternatives

Projected In-Service: 5/31/2020

PPL Transmission Zone M-3 Process
South Farmersville 69/12 kV Substation

Need Number: PPL-2019-0011

Process Stage: Solutions Meeting April 26, 2019

Previously Presented: Needs Meeting Feb 22, 2019

Supplemental Project Driver:

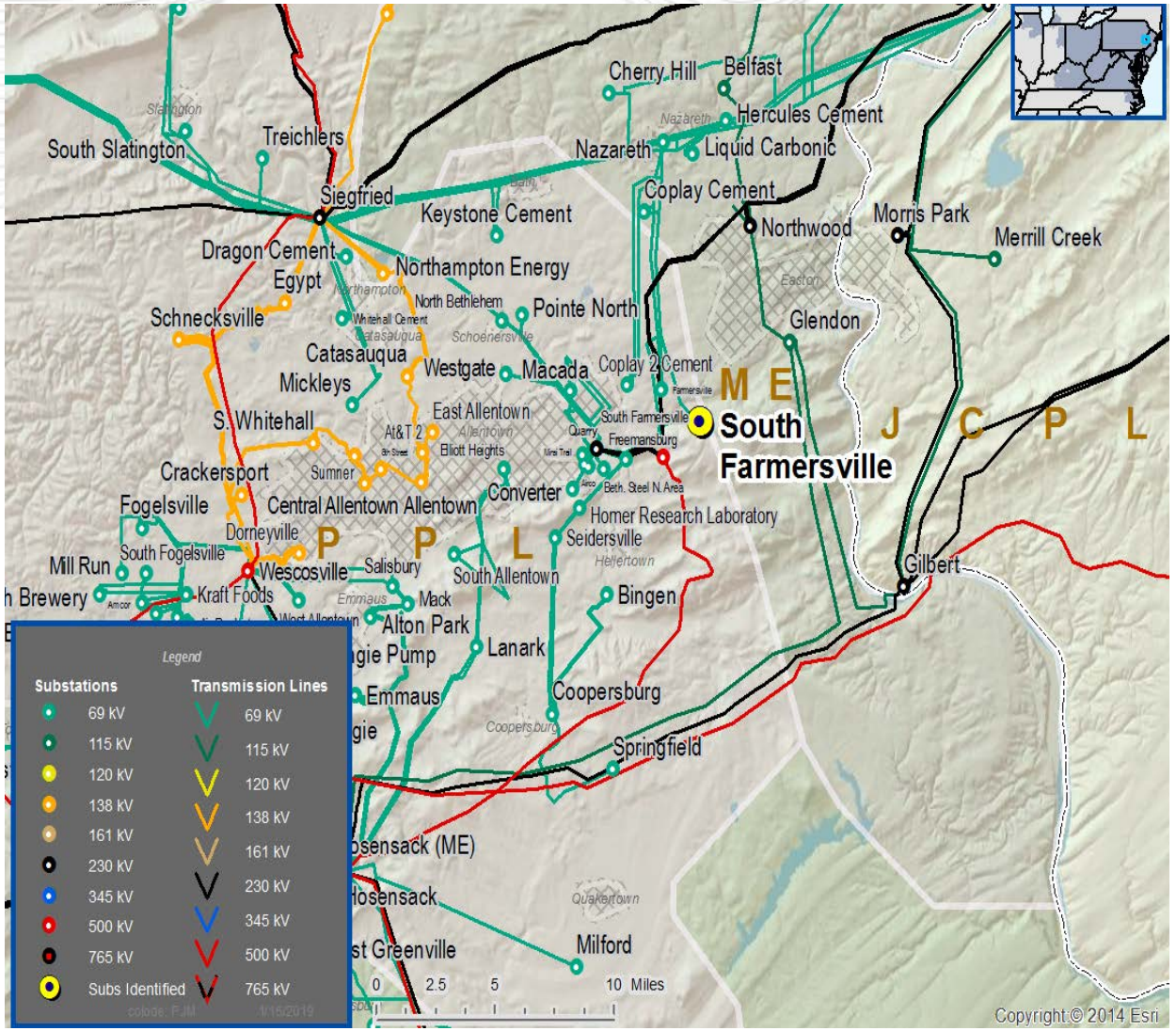
Customer Service

Specific Assumption References:

[PPL 2019 Annual Assumptions]

Problem Statement:

PPL Distribution has submitted a request for a second 69 kV transmission source to their S. Farmersville 69/12 kV substation due to an expected load increase of 3 MVA for a total load of 19.4 MVA in 2019 at their South Farmersville 69/12 kV substation. Currently there is only one transmission source. The load increase is driven by commercial development in the area. This load increase will result in dropping customer load to perform maintenance outages.



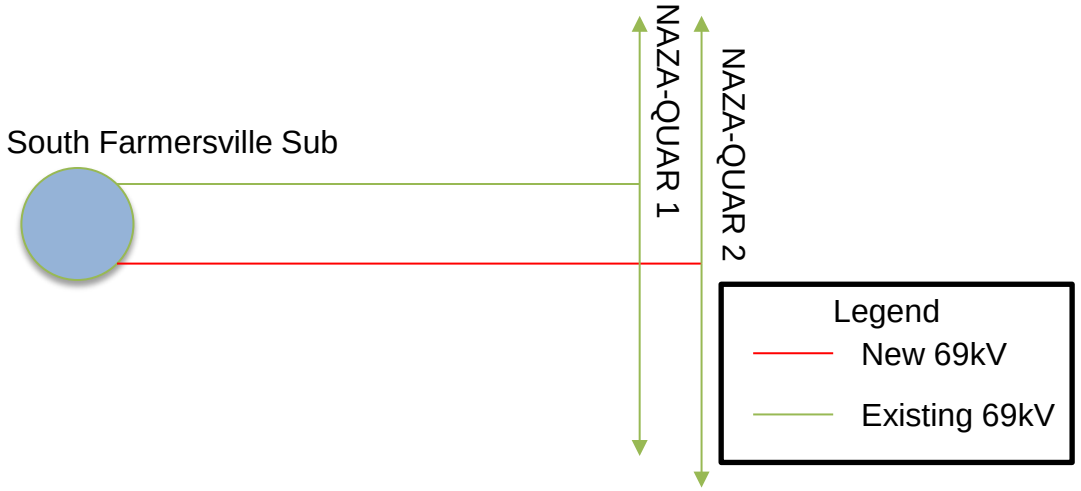
Need Number: PPL-2019-0011

Process Stage: Solutions Meeting April 26, 2019

Potential Solution:

Expand and reconfigure the existing South Farmersville substation to a higher capacity design requiring a second 69 kV transmission source. Interconnect the distribution substation with a second line from the existing Nazareth-Quarry #2 69 kV line.

Estimated Cost: $0.6 M



Alternatives Considered:

1. No feasible alternatives

Projected In-Service: 11/01/2022

PPL Transmission Zone M-3 Process
Zeta 69/12 kV Substation

Need Number: PPL-2019-0016

Process Stage: Solutions Meeting April 26, 2019

Previously Presented: Needs Meeting Feb 22, 2019

Supplemental Project Driver:

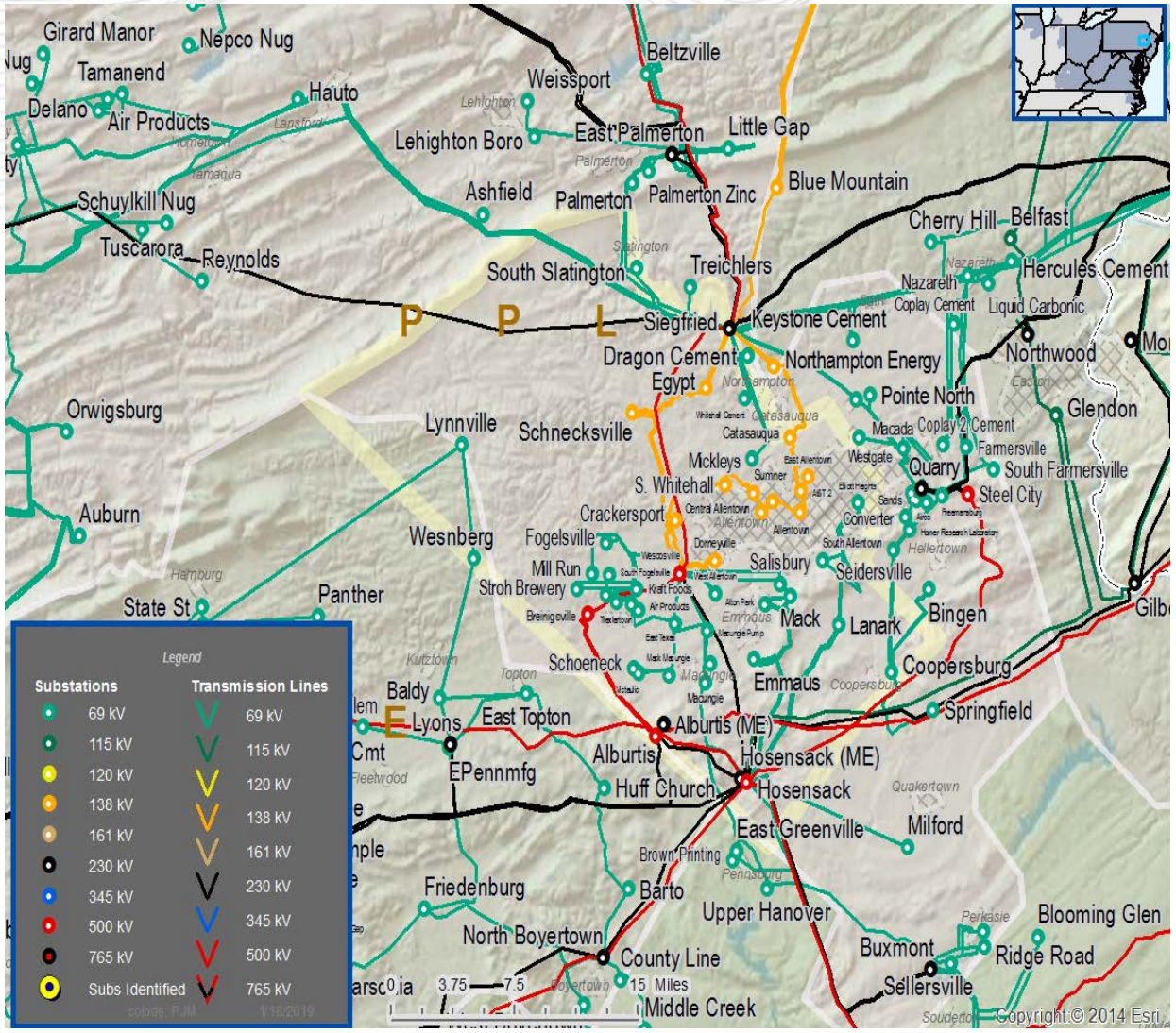
Customer Service

Specific Assumption References:

PPL 2019 Annual Assumptions

Problem Statement:

PPL Distribution has submitted a request for double circuit 69 kV source to their new Zeta 69/12 kV substation. PPL Distribution has received industrial load addition requests in an area where the existing facilities are at capacity. The anticipated load increase is 8 MVA.



Need Number: PPL-2019-0016

Process Stage: Solutions Meeting April 26, 2019

Potential Solution:

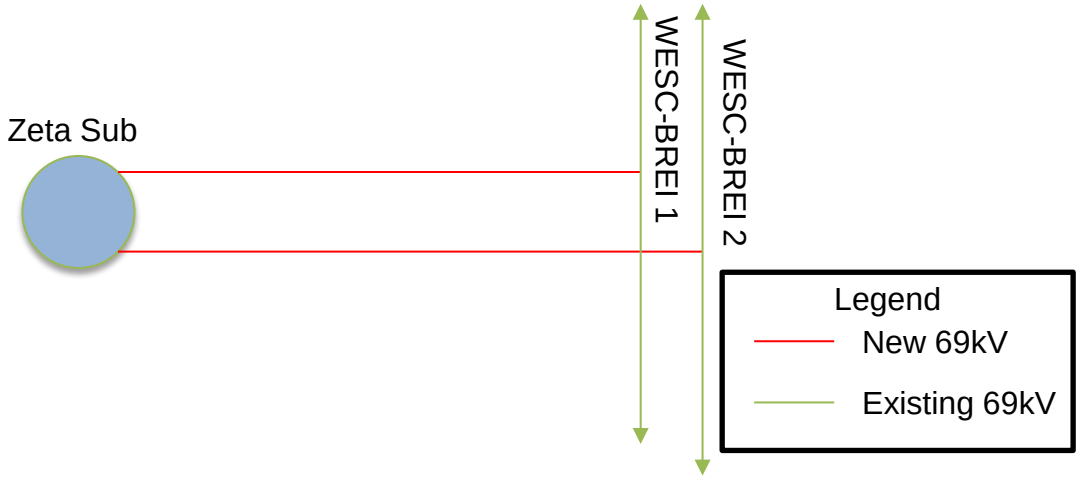
Build a new distribution substation near the location of the requested load additions. Interconnect the distribution substation with lines from the existing Wescosville-Breinigsville #1&2 69 kV lines.

Estimated Cost: $1.2 M

Alternatives Considered:

1. No feasible alternatives

Projected In-Service: 12/01/2020



PPL Transmission Zone M-3 Process
Eta 138/12 kV Substation

Need Number: PPL-2019-0017

Process Stage: Solutions Meeting April 26, 2019

Previously Presented: Needs Meeting Feb 22, 2019

Supplemental Project Driver:

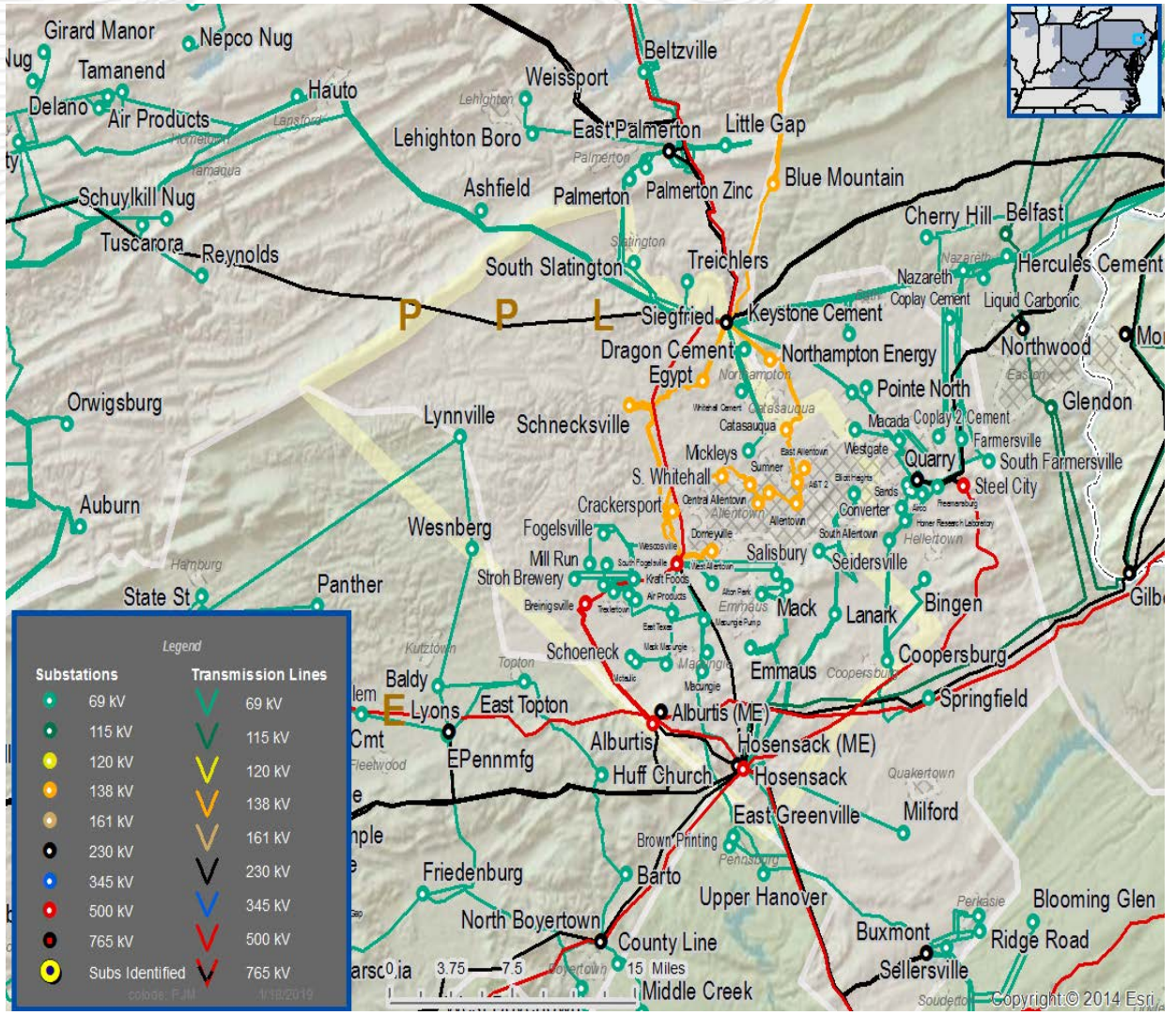
Customer Service

Specific Assumption References:

PPL 2019 Annual Assumptions

Problem Statement:

PPL Distribution has submitted a request for double circuit 138 kV source to their new Eta 138/12 kV substation. PPL Distribution has received commercial load addition requests in an area where the existing facilities are at capacity. The anticipated load increase is 10 MVA.



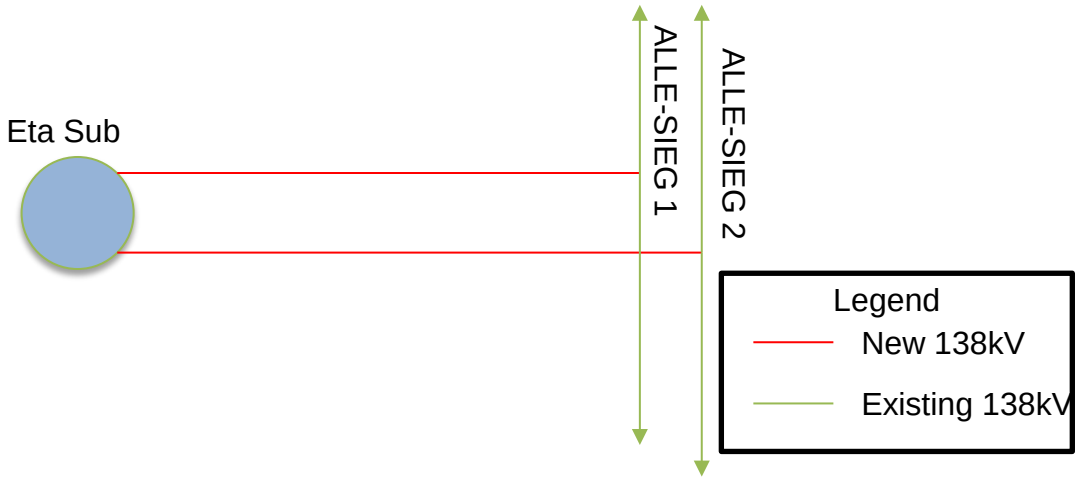
Need Number: PPL-2019-0017

Process Stage: Solutions Meeting April 26, 2019

Potential Solution:

Construct a new distribution substation near the proposed customer load increase. Interconnect the distribution substation with lines from the existing Allentown-Siegfried #1&2 138 kV lines.

Estimated Cost: $1.5 M



Alternatives Considered:

1. No feasible alternatives

Projected In-Service: 12/01/2021

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

Questions?

Revision History

4/16/2019 – V1 – Original version posted to pjm.com