

Sub Regional RTEP Committee: Western DEOK Supplemental Projects

March 18, 2022

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

Need Number: DEOK-2022-003

Process Stage: Solutions Meeting 03-18-2022

Previously Presented: Needs Meeting 02-18-2022

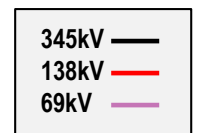
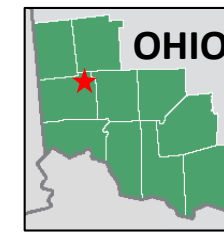
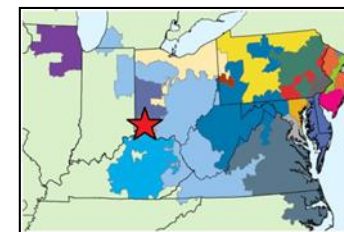
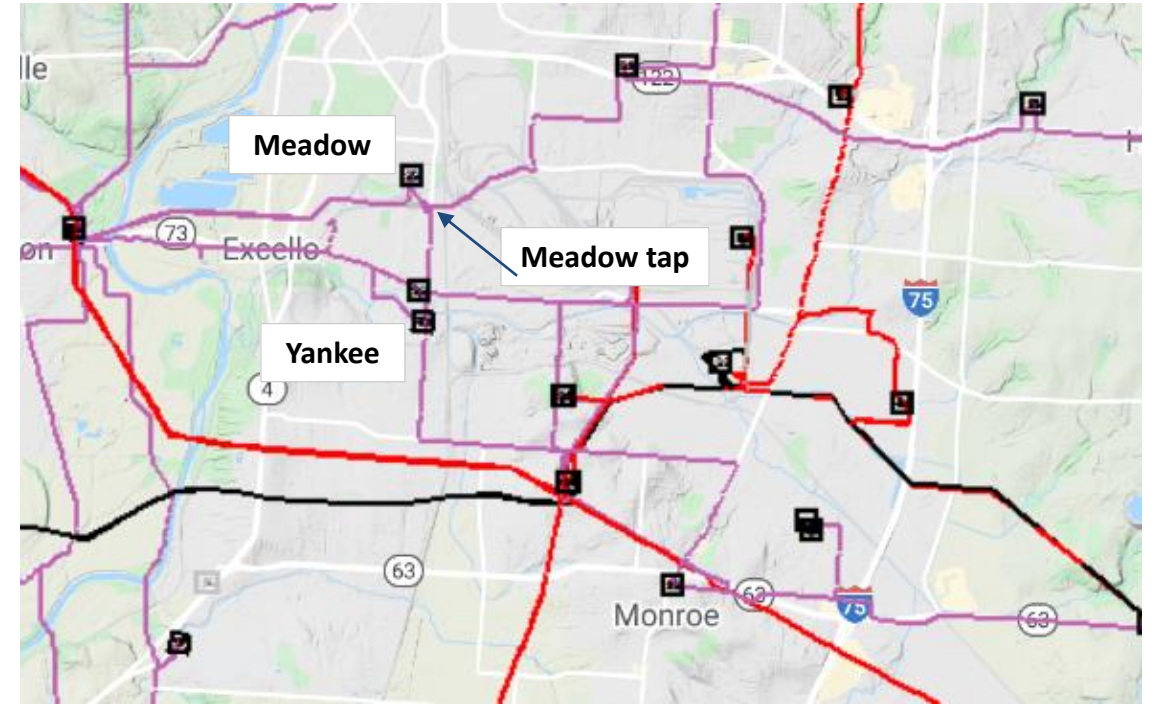
Project Driver: Equipment Condition, Performance and Risk

Specific Assumption Reference:

Duke Energy Ohio & Kentucky Local Planning Assumptions slides 5 & 6

Problem Statement:

A section of 69 kV feeder between Meadow substation and Meadow tap is in deteriorating condition. The 14 wooden structures in this section are 56 years old, have woodpecker damage, top rot, crossarm rot, crossarms with temporary repairs and buried down guy anchors.



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Process Stage: Solutions Meeting 03-18-2022

Previously Presented: Needs Meeting 02-18-2022

Project Driver: Equipment Condition, Performance and Risk

Specific Assumption Reference:

Duke Energy Ohio & Kentucky Local Planning Assumptions slides 5 & 6

Potential Solution:

Replace the wooden structure with embedded steel structures. Reconductor with 954ACSR. The summer rating will increase to 97/97 MVA SN/SE.

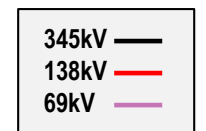
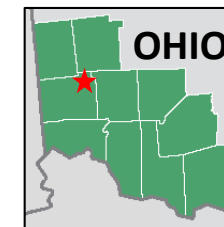
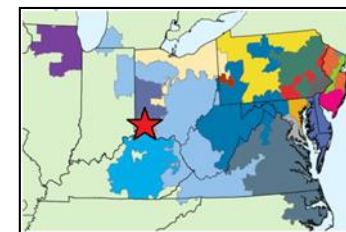
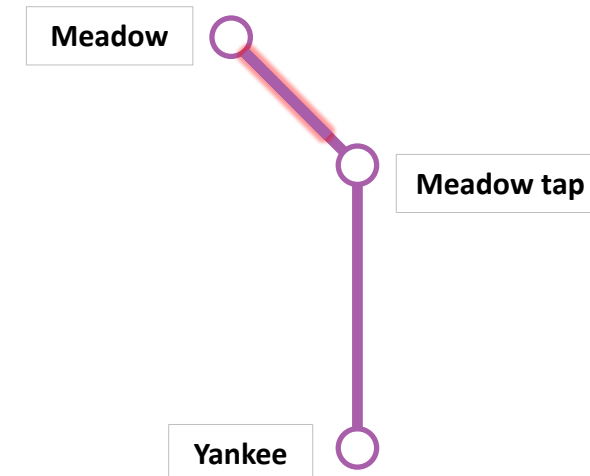
Alternatives: none

Estimated Transmission Cost: \$1,628,642

Proposed In-Service Date: 07-01-2022

Project Status: Scoping

Model: 2021 RTEP



Need Number: DEOK-2022-004

Process Stage: Solutions Meeting 03-18-2022

Previously Presented: Needs Meeting 02-18-2022

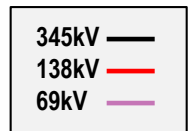
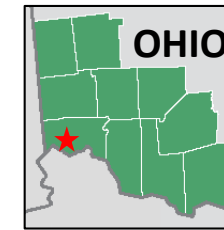
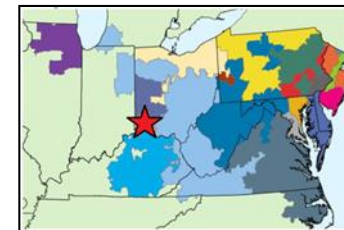
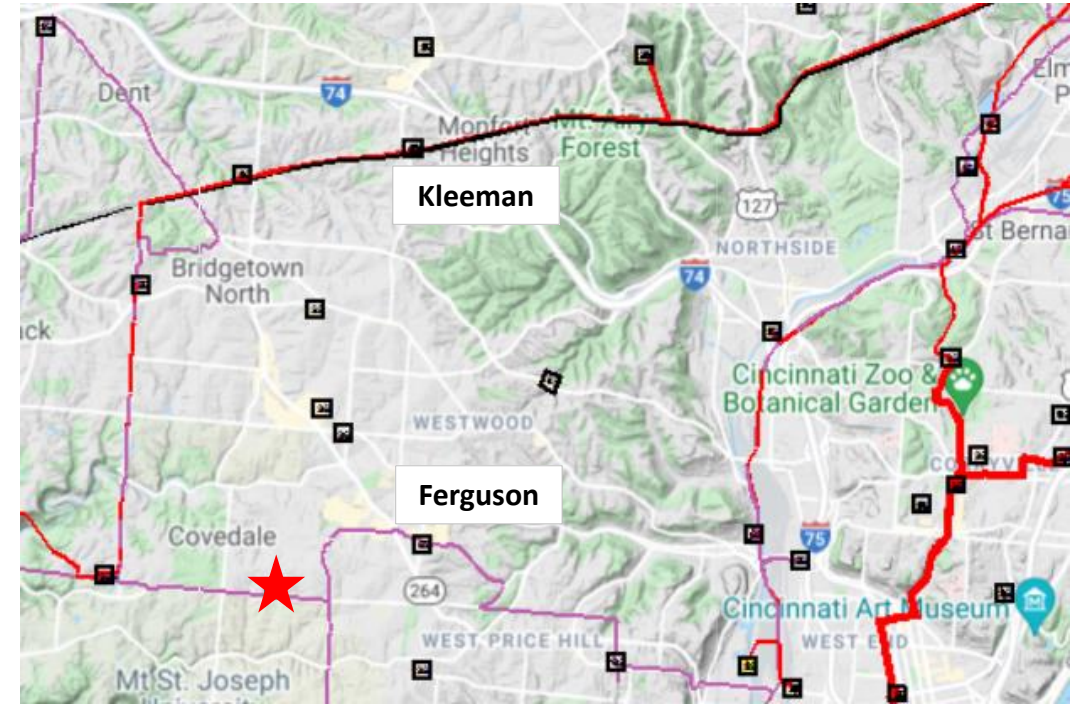
Project Driver: Customer Service

Specific Assumption Reference:

Duke Energy Ohio & Kentucky Local Planning Assumptions slide 9

Problem Statement:

Duke Energy Distribution has asked for a new delivery point near Linneman Avenue in the Covedale area of Cincinnati. The distribution transformers that serve the Westwood and Covedale areas from Ferguson and Kleeman are peaking at 100% of rated capacity.





DEOK Transmission Zone M-3 Process Linneman

Need Number: DEOK-2022-004

Process Stage: Solutions Meeting 03-18-2022

Previously Presented: Needs Meeting 02-18-2022

Project Driver: Customer Service

Specific Assumption Reference:

Duke Energy Ohio & Kentucky Local Planning Assumptions slide 9

Potential Solution:

Build a new substation named Linneman. Loop the nearby Ebenezer-Ferguson-Delhi 69 kV feeder through Linneman switch connecting the feeder to the bus. Install a 69 kV circuit switcher to connect a 69/13 kV 22 MVA distribution transformer. Install a control enclosure to house relaying and communications equipment.

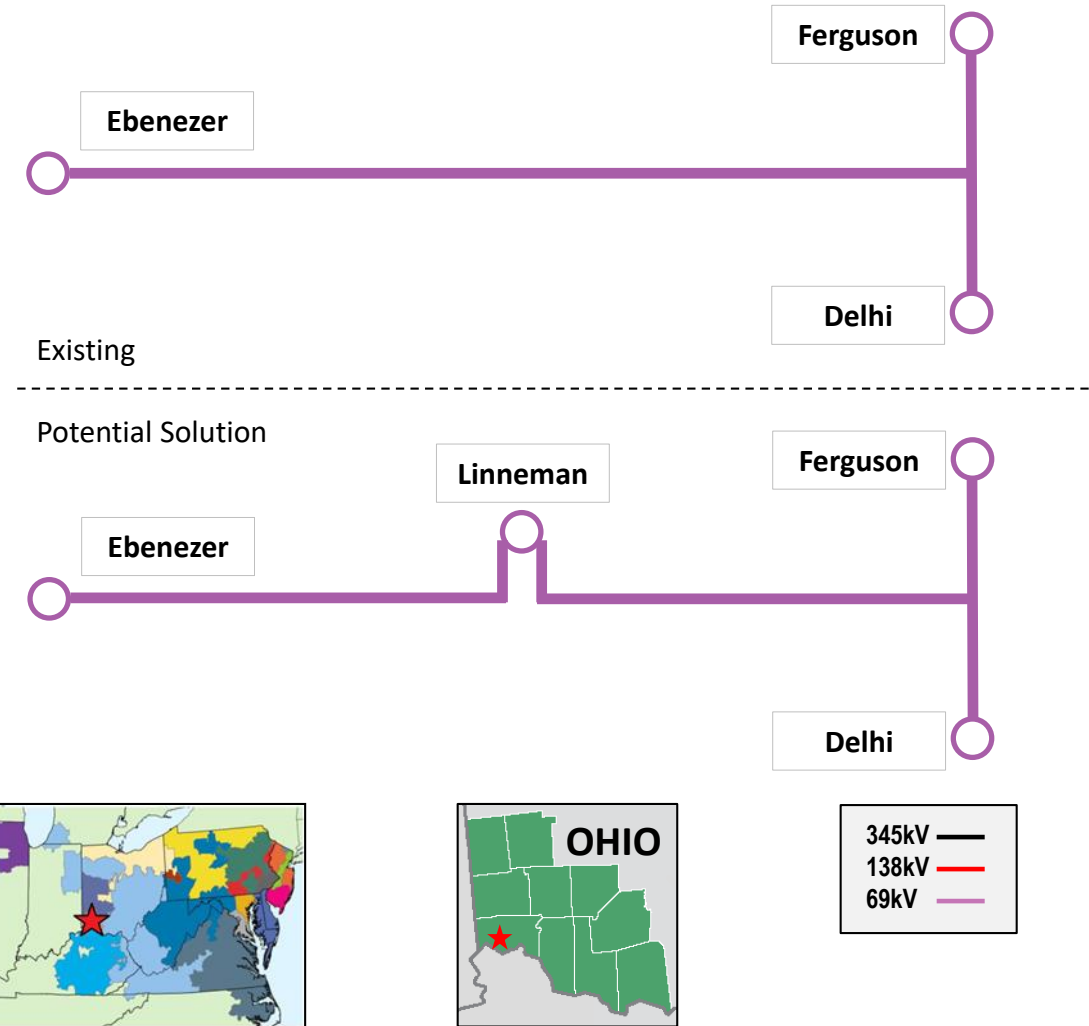
Alternatives: none

Estimated Transmission Cost: \$2,863,197

Proposed In-Service Date: 12-31-2025

Project Status: Scoping

Model: 2021 RTEP



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

3/8/2022 – V1 – Original version posted to pjm.com