Sub Regional RTEP Committee: Western
DEOK Supplemental Projects

April 22, 2022

Needs

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

DEOK Transmission Zone M-3 Process
Willey

Need Number: DEOK-2022-005

Process Stage: Needs Meeting 04-22-2022

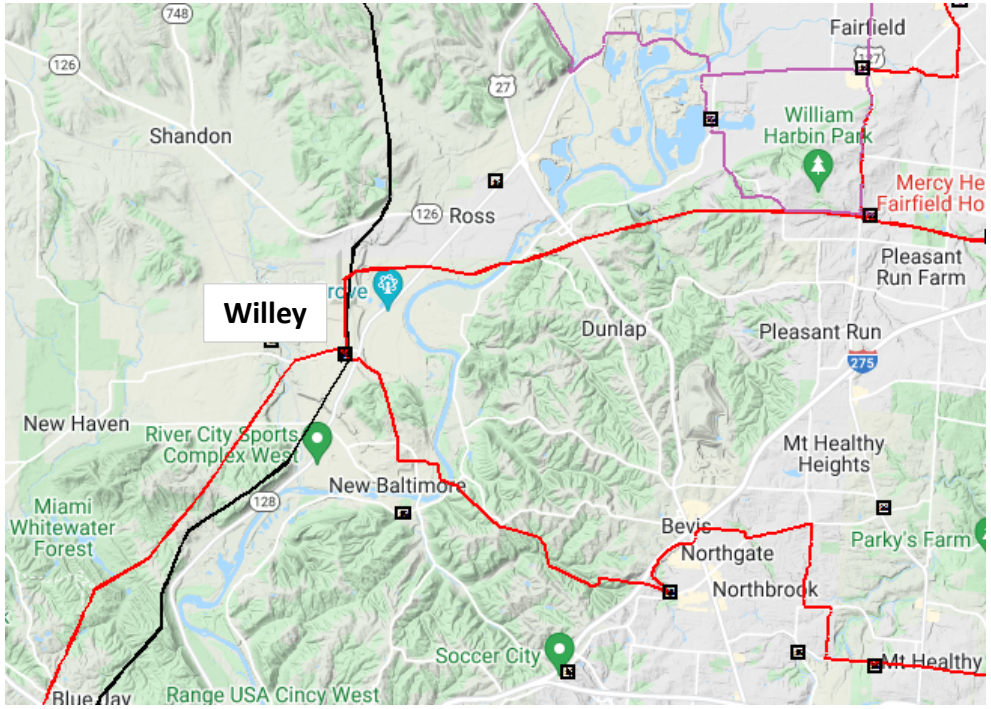
Project Driver: Costumer Service

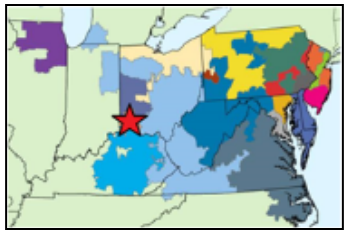
Specific Assumption Reference:

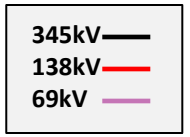
Duke Energy Ohio & Kentucky Local Planning Assumptions slide 9

Problem Statement:

Duke Energy Distribution has asked for a second delivery point at Willey substation. The single 138/34 kV, 56 MVA distribution transformer at Willey is peaking at 100% of rated capacity.







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

DEOK Transmission Zone M-3 Process
Kennel

Need Number: DEOK-2021-012

Process Stage: Solutions Meeting 04-22-2022

Previously Presented: Needs Meeting 11-19-2021

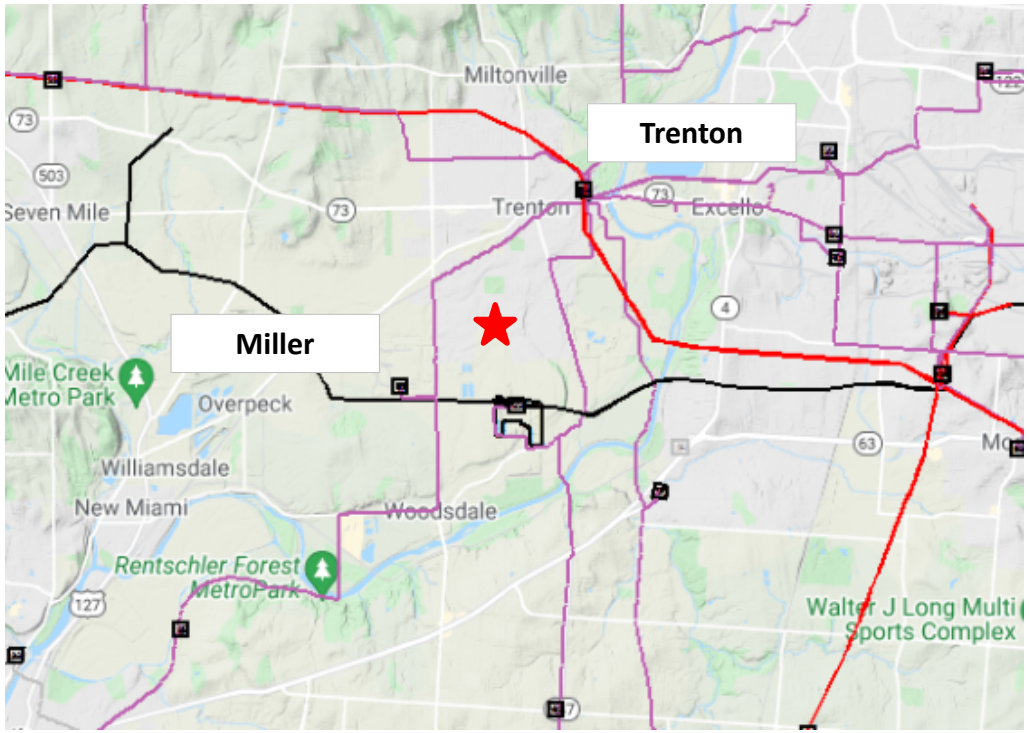
Project Driver: Customer Service

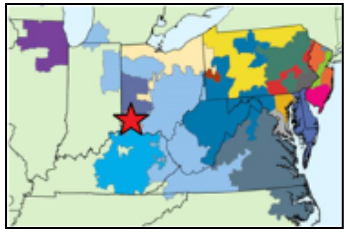
Specific Assumption Reference:

Duke Energy Ohio & Kentucky Local Planning Assumptions slide 9

Problem Statement:

Duke Energy Distribution has requested a new delivery point near Kennel Road in Butler County Ohio. An existing customer is relocating to a new site for expansion. 10 MVA is required by Q1 2024 with a total 16 MVA required by Q1 2025.





345kV
138kV
69kV

DEOK Transmission Zone M-3 Process
Kennel

Need Number: DEOK-2021-012

Process Stage: Solutions Meeting 04-22-2022

Previously Presented: Needs Meeting 11-19-2021

Project Driver: Customer Service

Specific Assumption Reference:

Duke Energy Ohio & Kentucky Local Planning Assumptions slide 9

Proposed Solution:

Construct a new 69 kV ring bus substation named Kennel. Install six circuit breakers and one 69/13 kV, 22 MVA transformer. Loop the 69 kV feeders currently feeding adjacent Miller substation through Kennel. Refeed Miller from Kennel. Distribution will feed the relocating customer from this new substation.

Ancillary Benefits: Operational flexibility, Infrastructure resilience

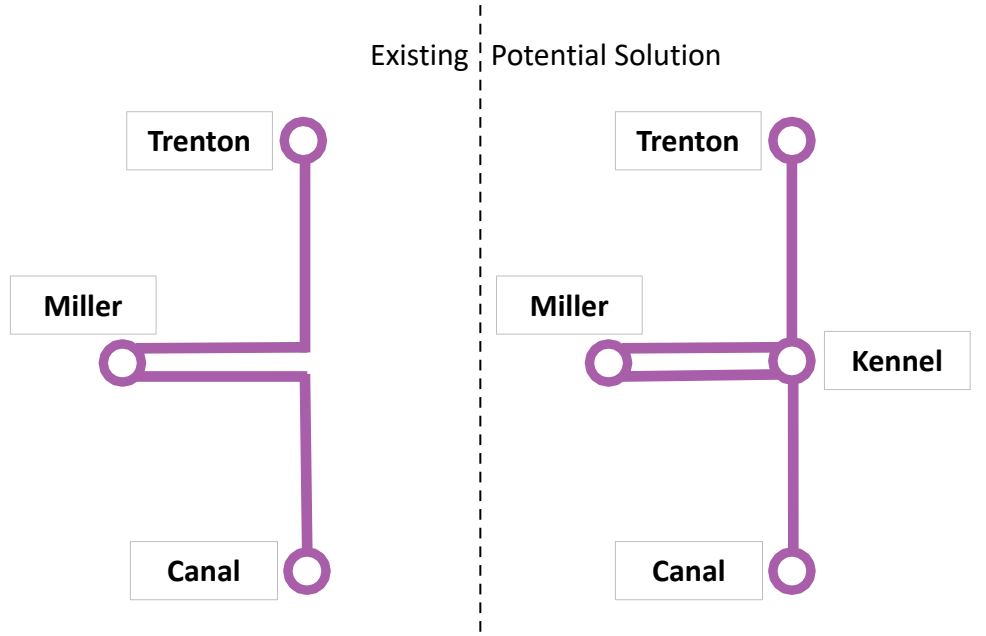
Alternatives: none

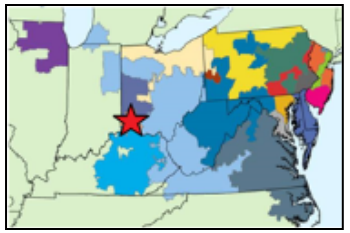
Estimated Transmission Cost: $6,671,179

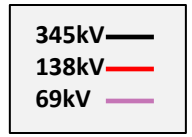
Proposed In-Service Date: 12-31-2023

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

4/12/2022 – V1 – Original version posted to pjm.com