

Sub Regional RTEP Committee: Western DEOK Supplemental Projects

July 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 Wilder

Need Number: DEOK-2022-007

Process Stage: Needs Meeting 07-22-2022

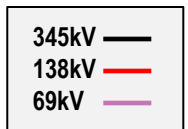
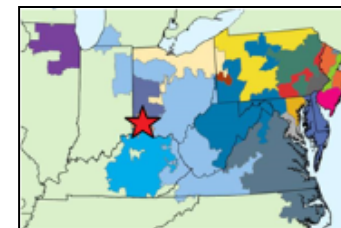
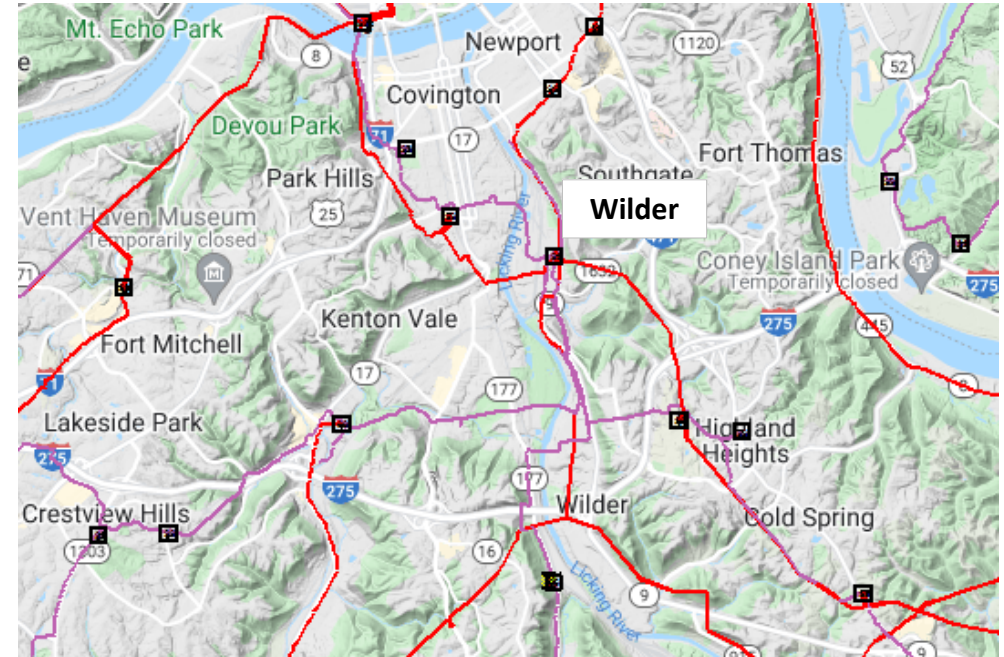
Project Driver: Equipment Condition, Performance and Risk

Specific Assumption Reference:

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

Problem Statement:

138/69/34 kV Transformer 2 at Wilder is in deteriorating condition. It's 66 years old, is overheating during summer months during normal operating conditions, and shows elevated Ethane and Ethylene levels. The coolers have continuing issues and require more frequent maintenance. Spare parts availability for the cooling pump and fans is limited.



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 Willey

Need Number: DEOK-2022-005

Process Stage: Solutions Meeting 07-22-2022

Previously Presented: Needs Meeting 04-22-2022

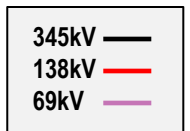
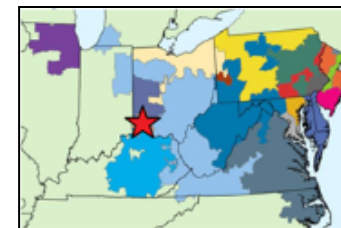
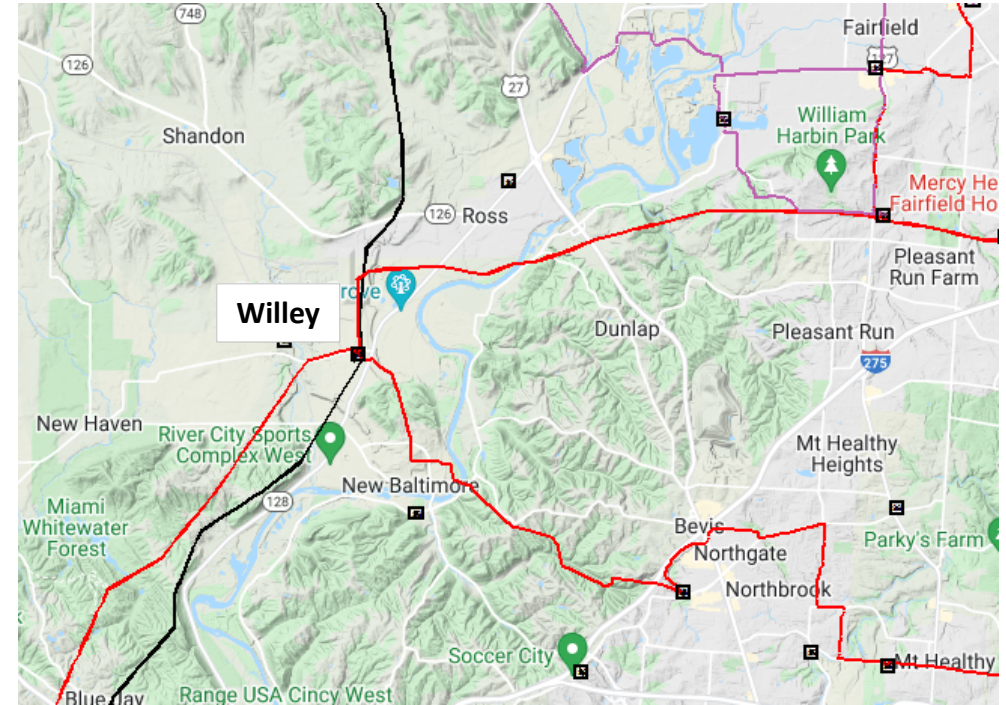
Project Driver: Customer Service

Specific Assumption Reference:

Duke Energy Ohio & Kentucky Local Planning Assumptions slide 9

Problem Statement:

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



Need Number: DEOK-2022-005

Process Stage: Solutions Meeting 07-22-2022

Previously Presented: Needs Meeting 04-22-2022

Project Driver: Customer Service

Specific Assumption Reference:

Duke Energy Ohio & Kentucky Local Planning Assumptions slide 9

Potential Solution:

Install a new, second 138/34 kV, 60MVA transformer to feed a new, second 34 kV bus. Install a new 138 kV circuit breaker to connect the new transformer. Move two of the four existing 34 kV feeders to the new 34 kV bus to distribute load between transformers.

Alternatives: none

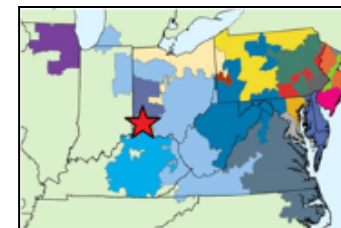
Estimated Transmission Cost: \$0

Proposed In-Service Date: 08-10-2023

Project Status: Scoping

Model: 2021 RTEP

**Bubble Diagram Not Applicable
Station Modifications Only**



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

7/11/2021 – V1 – Original version posted to pjm.com