

Sub Regional RTEP Committee: Western DEOK Supplemental Projects

January 21, 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

Need Number: DEOK 2021-003

Process Stage: Needs Meeting 01-21-2022

Previously Presented: Needs Meeting 03-19-2021

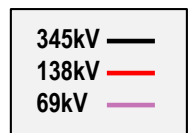
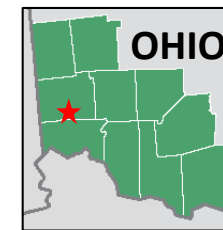
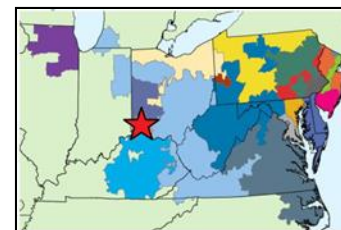
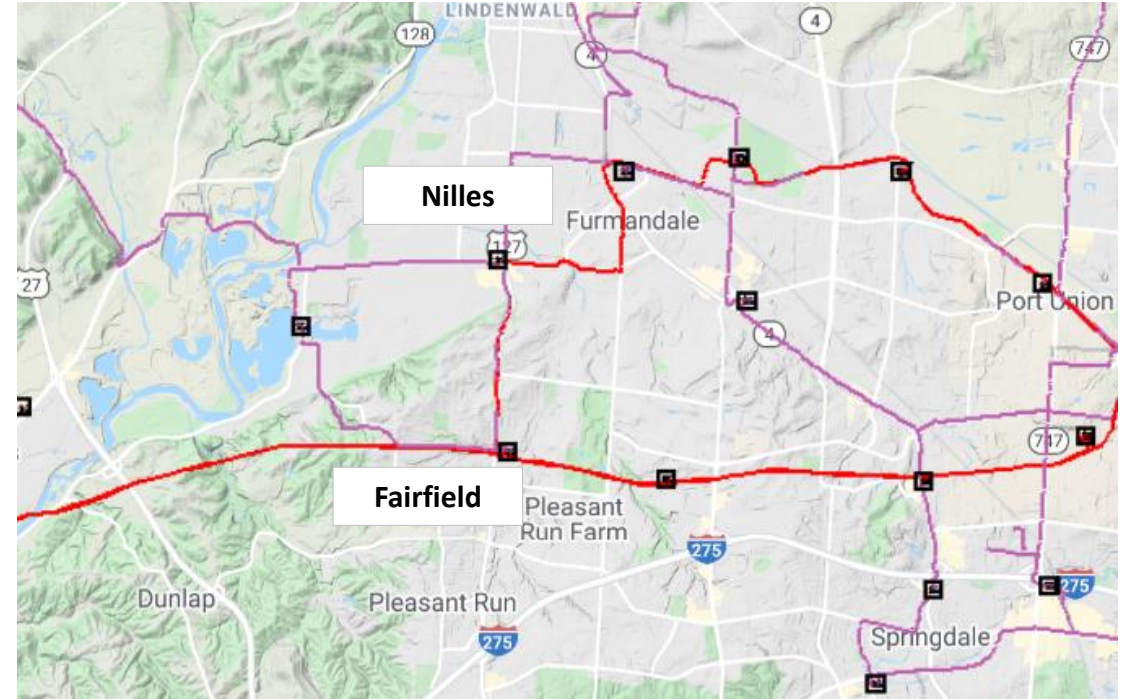
Project Driver: Equipment Condition, Performance and Risk

Specific Assumption Reference:

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

Problem Statement:

A pole on the 69 kV circuit from Fairfield to Nilles had failed inspection. This pole supports a switch that limits the circuit. The pole shows signs of decay and base rot, and has been on the watch list since 2015.



Need Number: DEOK 2021-003

Process Stage: Needs Meeting 01-21-2022

Previously Presented: Needs Meeting 03-19-2021

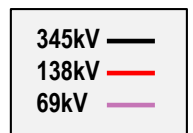
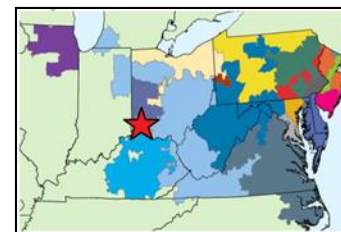
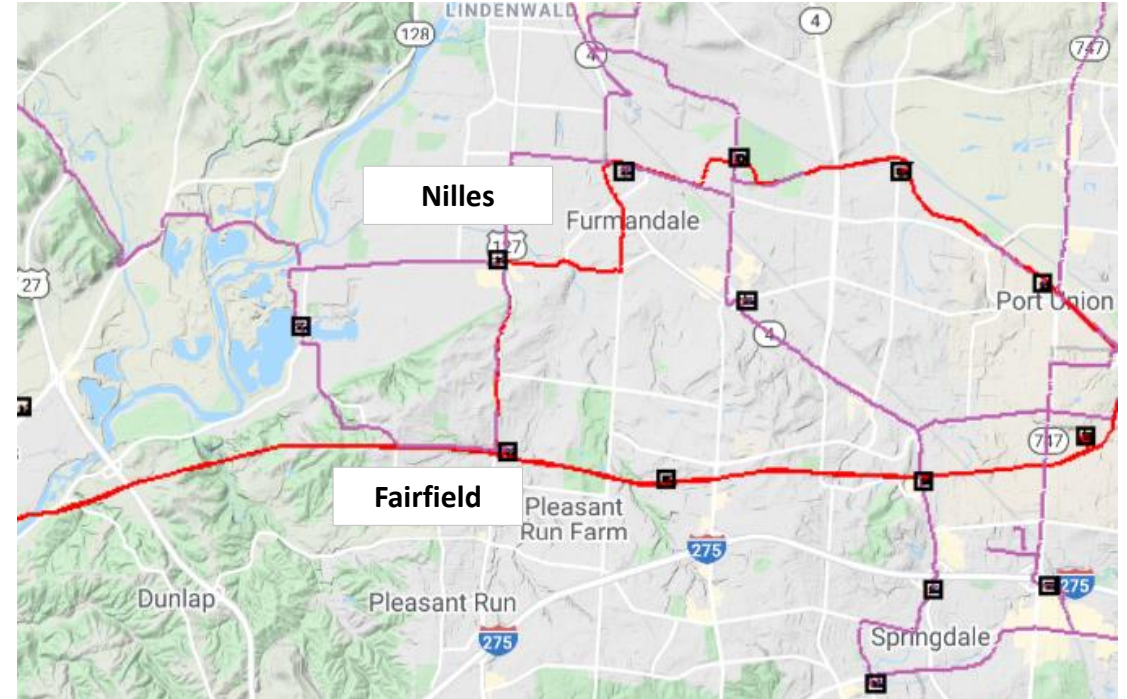
Project Driver: Equipment Condition, Performance and Risk

Specific Assumption Reference:

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

Withdrawal Statement:

The switch was found to have a higher rating than the conductor. No model change was necessary due to the removal of the switch. With no changes to the ratings, topology or impedance this does not qualify as an M-3 project.



Need Number: DEOK 2022-001

Process Stage: Needs Meeting 01-21-2022

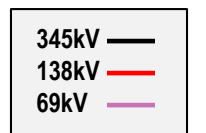
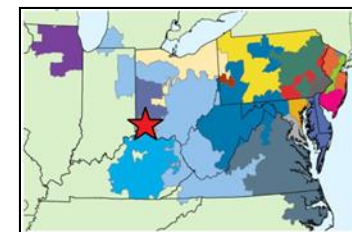
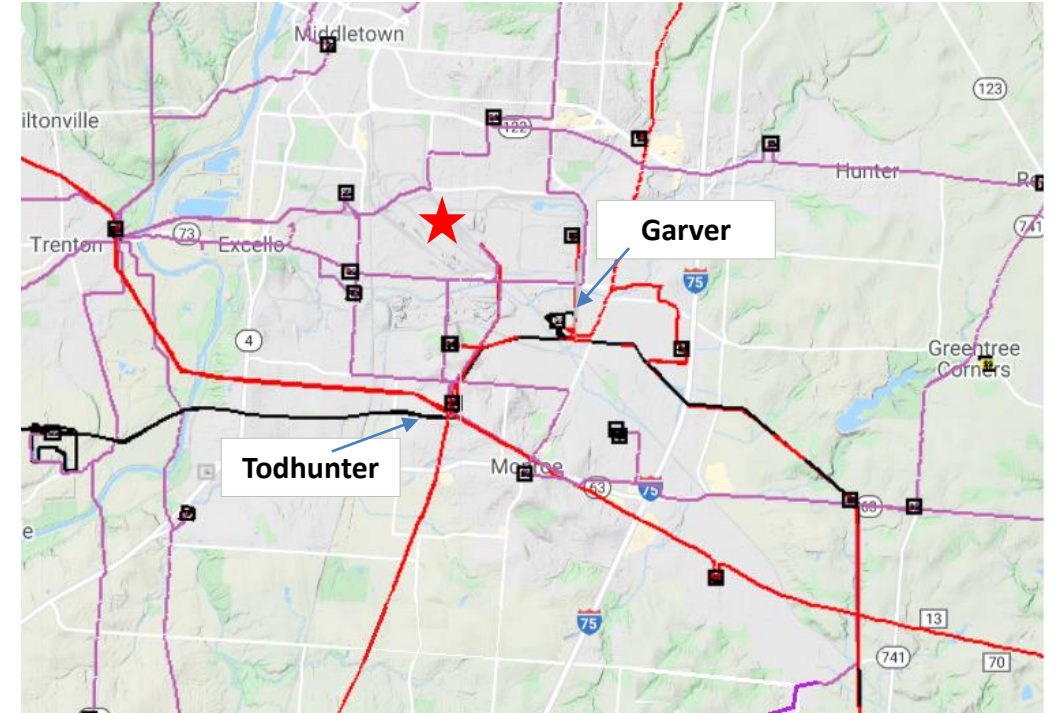
Project Driver: Customer Service

Specific Assumption Reference:

Duke Energy Ohio & Kentucky Local Planning Assumptions slide 9

Problem Statement:

An existing customer has requested 600 MW of additional transmission capacity. The expected incremental increases are 200 MW by Q4 2024, 100 MW by Q4 2025 and 300 MW by Q4 2029.





DEOK Transmission Zone M-3 Process Dicks Creek Gas Substation

Need Number: DEOK 2022-002

Process Stage: Needs Meeting 01-21-2022

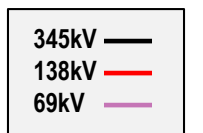
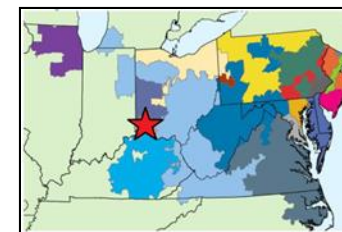
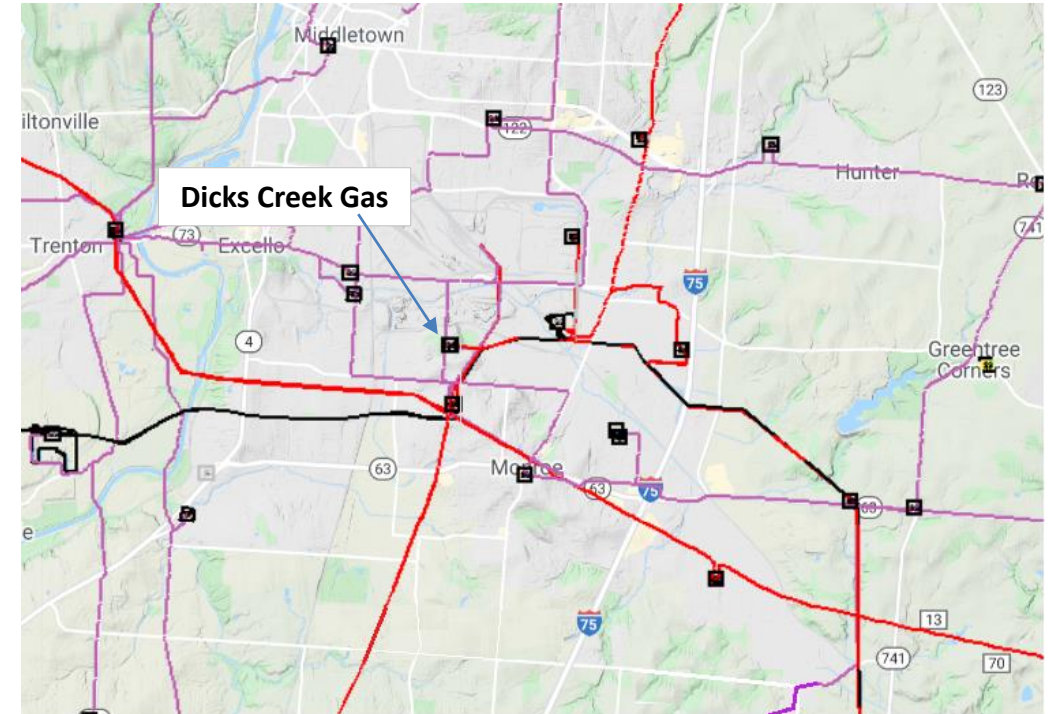
Project Driver: Customer Service

Specific Assumption Reference:

Duke Energy Ohio & Kentucky Local Planning Assumptions slide 9

Problem Statement:

Duke Energy Distribution is retiring and demolishing Dicks Creek Gas substation. They have requested removal of the transmission system connection.



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 2018-003

Process Stage: Solutions Meeting 01-21-2022

Previously Presented: Needs Meeting 11-29-2018

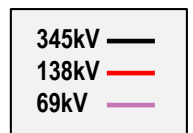
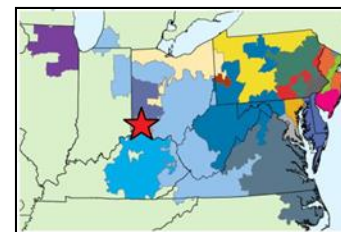
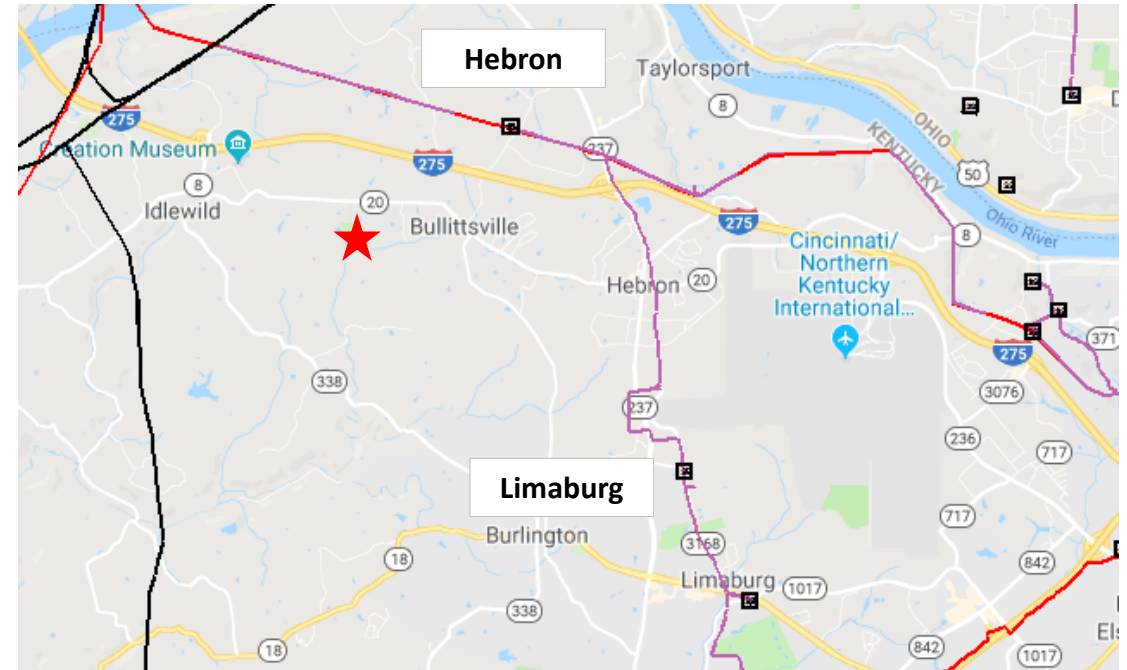
Project Driver: Customer Service

Specific Assumption Reference:

Duke Energy Ohio & Kentucky Local Planning Assumptions slide 9

Problem Statement:

New and existing industrial load growth in the area west of the Cincinnati/Northern Kentucky International Airport is predicted to exceed the capacity of the local distribution system. An additional 40MWs is requested.





DEOK Transmission Zone M-3 Process Litton

Need Number: DEOK 2018-003

Process Stage: Solutions Meeting 01-21-2022

Previously Presented: Needs Meeting 11-29-2018

Project Driver: Customer Service

Specific Assumption Reference:

Duke Energy Ohio & Kentucky Local Planning Assumptions slide 9

Potential Solution:

Install a new substation, Litton, with two take-off structures, bus work, eight motorized bus disconnects, two motorized line disconnects and two CCVTs for use in an ATO scheme. Loop the 69kV feeder from Hebron to Limaburg through the substation. Retire eight wooden poles. Install 12 light duty steel poles with 750 feet of 954 ACSR and OPGW. Transfer the static from the wooden poles to the new steel poles.

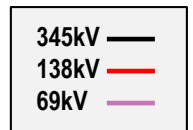
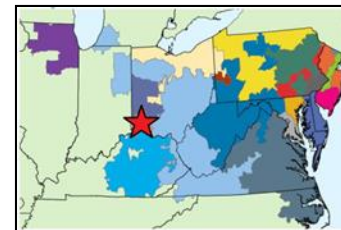
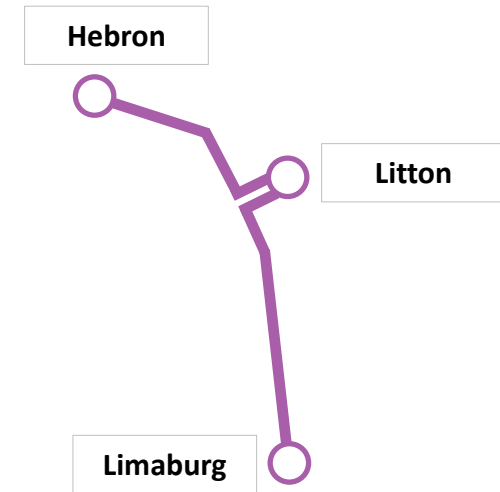
Alternatives: none

Transmission Cost Estimate: \$4.8M

Proposed In-Service Date: 06-01-2024

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

1/11/2022 – V1 – Original version posted to pjm.com