

Sub Regional RTEP Committee: Western DEOK Supplemental Projects

January 19, 2024

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 Millville - Layhigh

Need Number: DEOK-2024-001

Process Stage: Needs Meeting 01/19/2024

Project Driver: Equipment Condition, Performance and Risk

Specific Assumption Reference:

Duke Energy Ohio & Kentucky Local Planning Assumptions slides 7-8

Problem Statement:

A 69 kV feeder section that runs from Millville (Duke) to Layhigh (Butler Rural Electric Cooperative) is in deteriorating condition. Inspections have recorded 38 structure rejects due to ground line rot, pole top rot and bird holes. There are ten open ground lines. Since 2018 there have been 36 interruptions on the line, 14 sustained and 22 momentary, with an average of 274 minutes/outage and 96,000 CMI/outage. The outage causes vary, consisting of broken or damaged insulators, conductors, or crossarms, vegetation encroachment, lightning, and vehicle impacts. The entire feeder, end to end, serves 25,561 customers and connects Butler Rural Electric Cooperative substations: Colerain, Ross, Layhigh, Stillwell-Beckett, Oxford, and Reily.

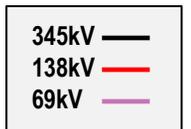
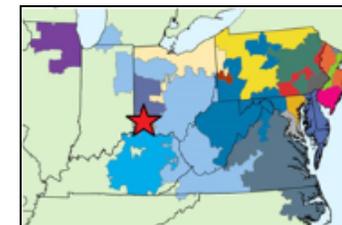
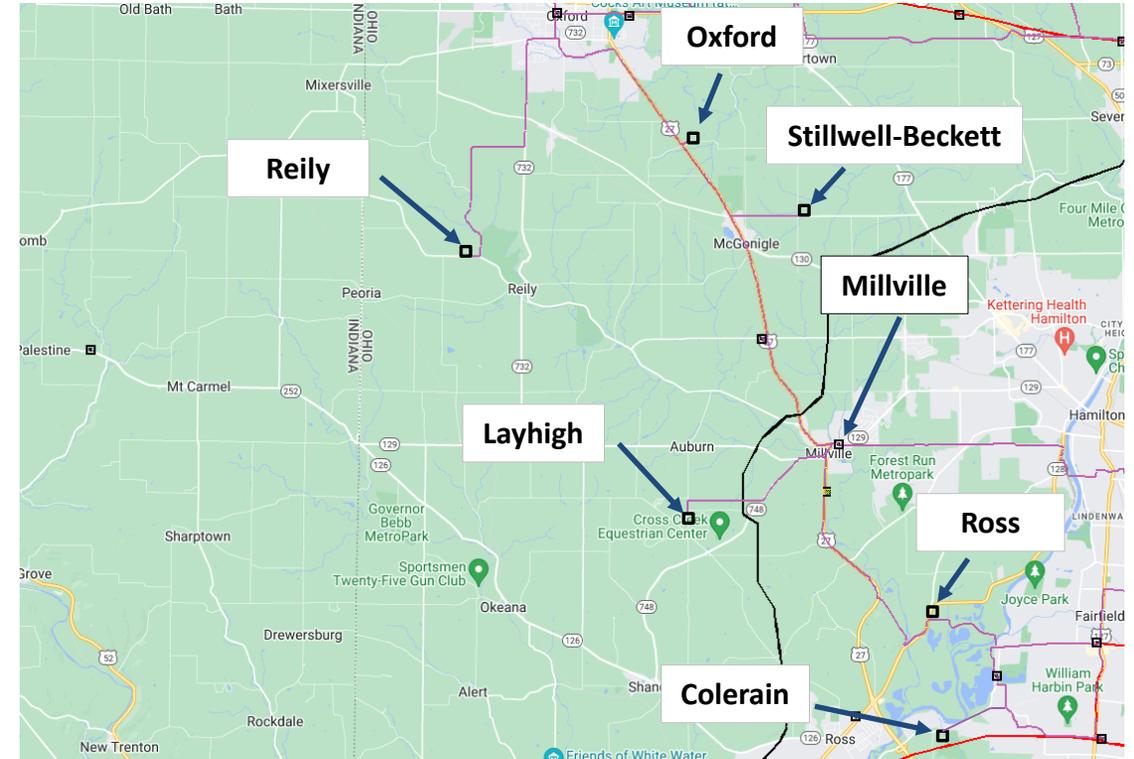
Line Characteristics:

Original Install Date: 1955

Length: 3.23 miles / 83 poles

Construction Type: Single wood pole with suspension insulators

Conductor Type: 4/0-6/1 ACSR



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

1/9/2023 – V1 – Original version posted to pjm.com