Sub Regional RTEP Committee: Western
DEOK Supplemental Projects

November 20, 2020

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
Half Acre

Need Number: DEOK 2020-008

Process Stage: Needs Meeting 11-20-2020

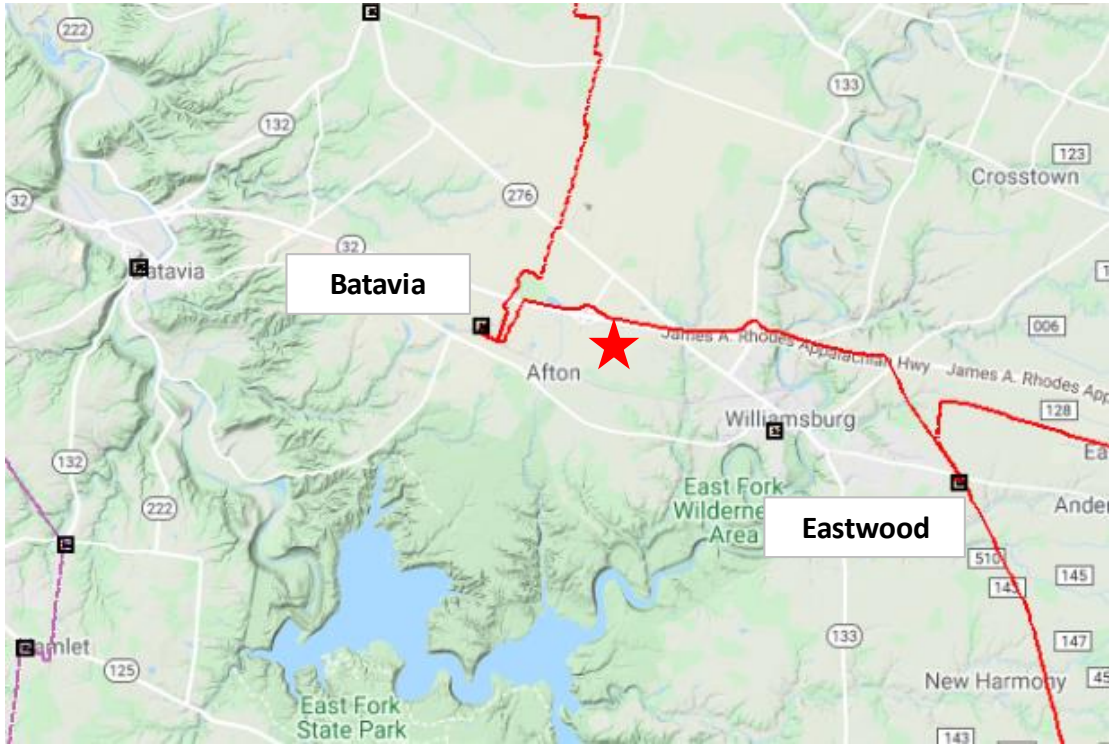
Project Driver: Customer Service

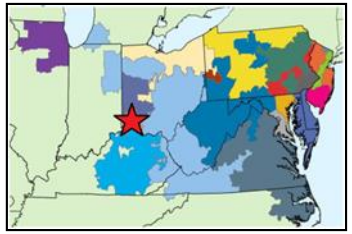
Specific Assumption Reference:

Duke Energy Ohio & Kentucky Local Planning Assumptions slide 9

Problem Statement:

Duke Energy Distribution has requested a new delivery point near Half Acre Road in Clermont County, OH. A new industrial customer has requested 36MW of distribution service by 10-01-2022. The new load exceeds the capacity of existing distribution facilities in the area.





345kV
138kV
69kV

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 2020-003

Process Stage: Solutions Meeting 11-20-2020

Previously Presented: Needs Meeting 07-17-2020

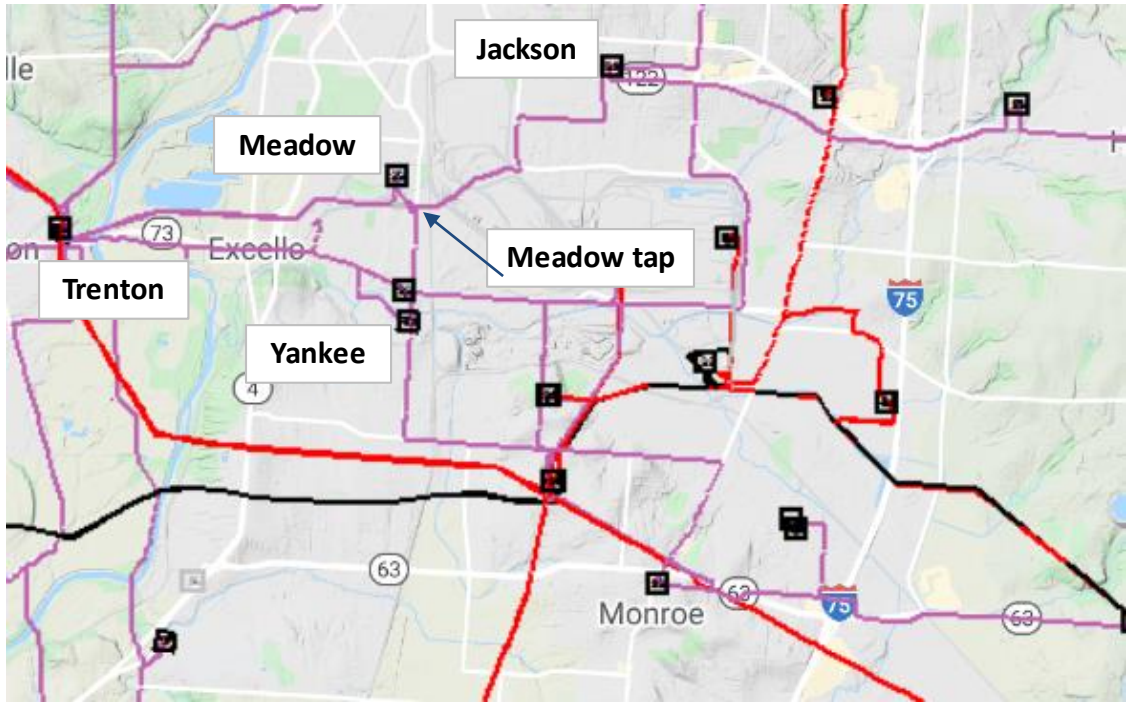
Project Driver: Customer Service

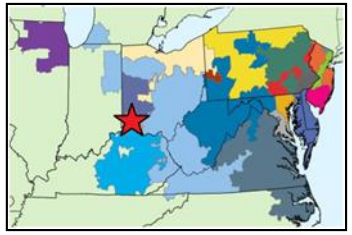
Specific Assumption Reference:

Duke Energy Ohio & Kentucky Local Planning Assumptions slide 9

Problem Statement:

A customer fed by Meadow substation is expecting a 10MW load increase by the summer of 2022. Meadow has two incoming 69kV feeders, one from Trenton and a normally opened one from Yankee-Jackson via the tap to Meadow. If the feeder from Trenton is opened Meadow throws over to the feeder from the tap. In this state the additional 10MWs of customer load will drive the Yankee to Meadow tap section of the feeder to 106% of its emergency rating.





345kV
138kV
69kV

DEOK Transmission Zone M-3 Process

Need Number: DEOK 2020-003

Process Stage: Solutions Meeting 11-20-2020

Potential Solution:

Reconductor the one mile section of feeder from Yankee to Meadow tap. Replace 8 poles to achieve proper clearance. Capacity of the line will increase from 97 MVA to 151 MVA.

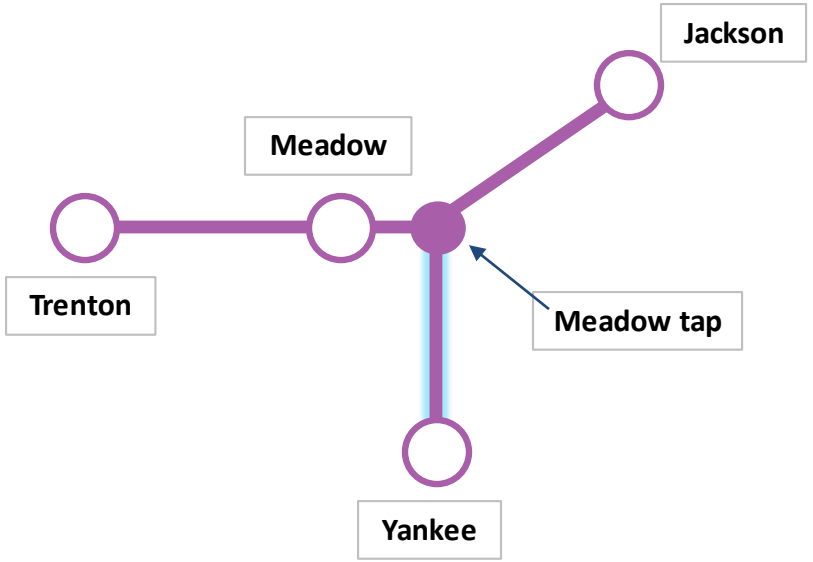
Alternatives: none

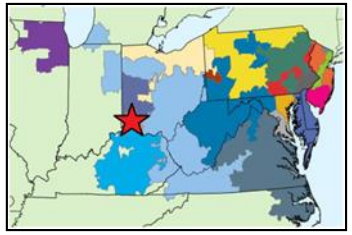
Transmission Cost Estimate: $974,771

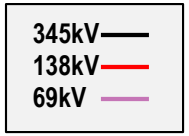
Proposed In-Service Date: 12-31-2021

Project Status: Development

Model: 2020 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

11/10/2020 – V1 – Original version posted to pjm.com