

Sub Regional RTEP Committee: Western DEOK Supplemental Projects

July 17, 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

Need Number: DEOK 2020-003

Process Stage: Needs Meeting 07-17-2020

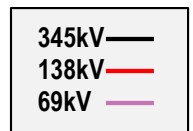
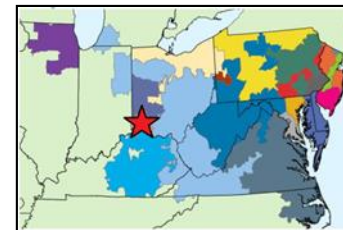
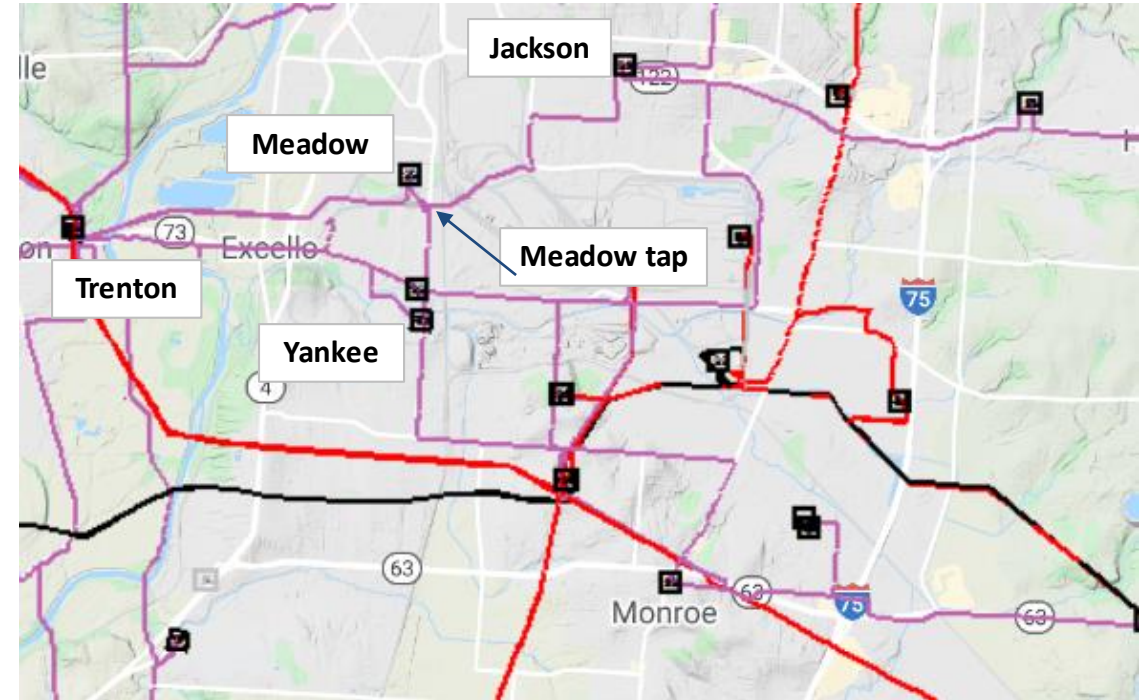
Project Driver: Customer Service

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 to 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.





DEOK Transmission Zone M-3 Process

Need Number: DEOK 2020-004

Process Stage: Needs Meeting 07-17-2020

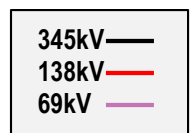
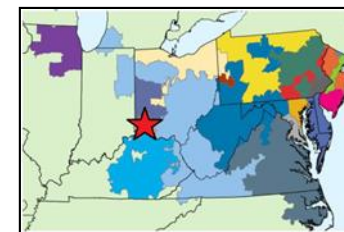
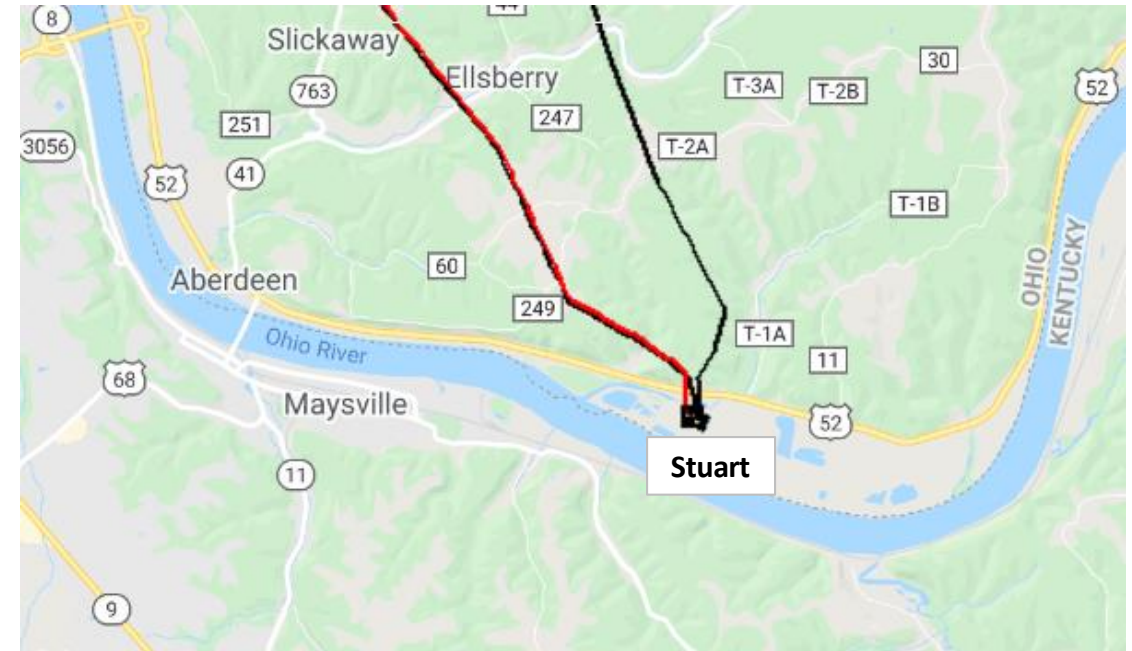
Project Driver: Equipment Condition, Performance and Risk, Operational Flexibility and Efficiency

Specific Assumption Reference:

Duke Energy Ohio & Kentucky Local Planning Assumptions slides 5-7

Problem Statement:

In the early 1960s Cincinnati Gas & Electric, Columbus & Southern Ohio Electric and Dayton Power & Light formed a joint venture to share the costs of building new power infrastructure. The construction of Stuart Station was one of the shared projects. In 2018 the joint venture was dissolved with the assets split among the companies. Duke Energy (formally CG&E) received the 138kV section of the substation at Stuart. Going into service in the early 1970s, this section of the substation has three circuit breakers connected to a straight bus, a 138/69kV transformer that is switch connected to an AEP feeder and a 345/138kV transformer that is switch connected to a DP&L 345kV bus. Duke Energy needs to isolate, protect and control its section of the substation. The breakers are oil filled and obsolete.



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

7/7/2020 – V1 – Original version posted to pjm.com