

Sub Regional RTEP Committee: Western Dayton Supplemental Projects

June 15, 2022

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: Dayton-2021-012

Process Stage: Solutions 6/15/2022

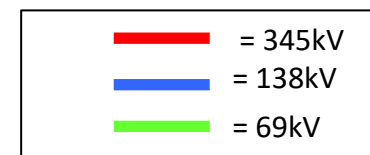
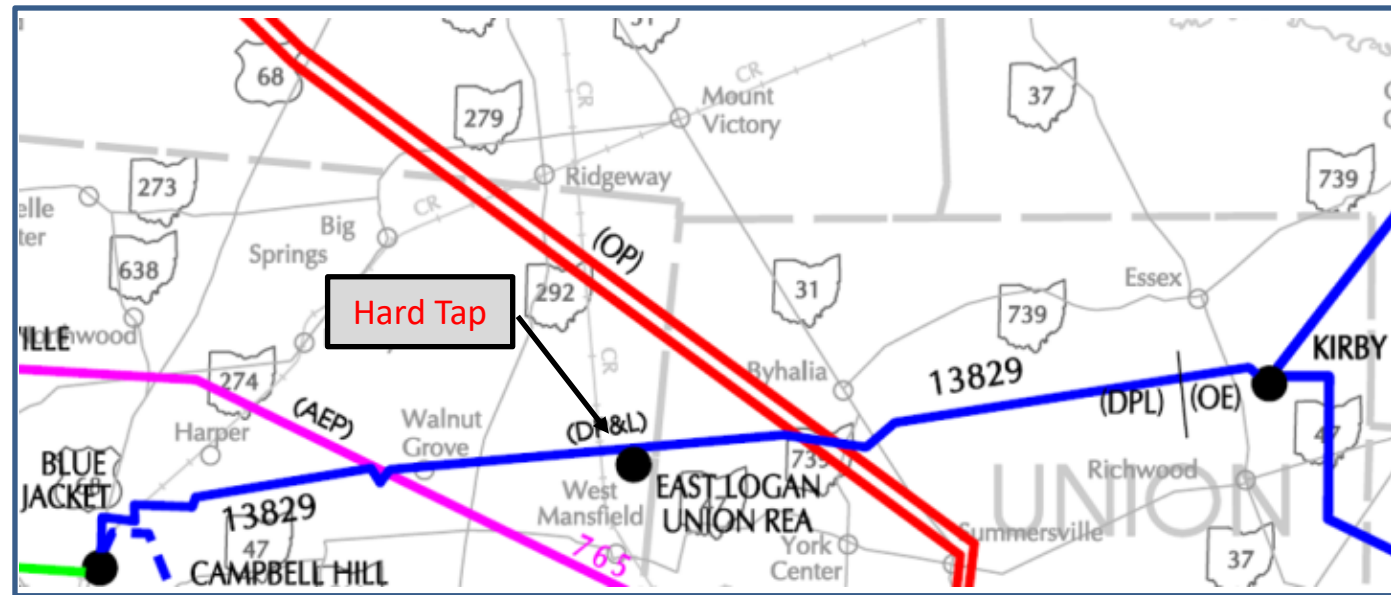
Previously Presented: Needs Meeting 12/17/2021

Project Driver: Requested Customer Upgrade, Operational Performance

Specific Assumption Reference: Dayton Local Plan Assumptions (Slide 5)

Problem Statement:

- Logan County Electric Cooperative and Union Rural Electric Cooperative have both requested system upgrades due to being hard tapped off the 13829 Blue Jacket-Kirby 138kV line. The total combined load served by the tap is 10MWs.
- Due to lack of sectionalizing associated with the hard tap configuration, during outage conditions the Logan CEC & Union REC are forced to manually transfer the load served from the POI to alternate POIs.
- If any outages occur on the 14-mile Blue Jacket-Kirby 138kV line between the East Logan tap in AES Ohio’s service territory and Kirby in First Energy’s service territory, there is no way to restore service to the POI due to the lack of sectionalizing.
- Since 2016, the Blue Jacket-Kirby 138kV line has experienced 6 outages (4 permanent and 2 momentary). There has been 2 multi-day outages in the past five years due to poles going down on the First Energy side and no quick way to restore service to the East Logan delivery point.



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Proposed Solution:

- Install two new supervisory controlled automatic sectionalizing switches on each side of the East Logan tap.

Estimated Cost: \$550k

Alternative Considered:

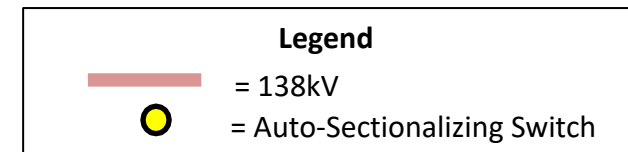
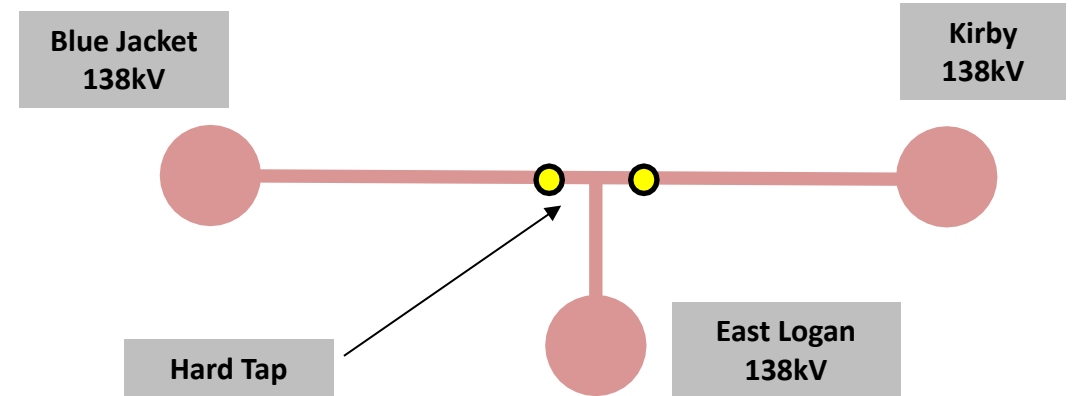
- Build a new 3-breaker 138kV ring bus substation at the East Logan delivery point.

Estimated Cost: \$3.5M

Project In-Service Date: 12/31/2025

Project Status: Conceptual

Model: 2021 RTEP Series, 2026 Summer Case



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

6/3/2022 – V1 – Original version posted to pjm.com