

Sub Regional RTEP Committee: Western Dayton Supplemental Projects

December 17, 2021

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:** Dayton-2021-011
- **Process Stage:** Needs Meeting 12/17/2021
- **Project Driver:** Source for underlying distribution
- **Specific Assumption Reference:** Dayton Local Plan Assumptions (Slide 5)

- **Problem Statement:**
 - AES Ohio transmission has received a request for a new distribution delivery point out of its proposed Octa substation.
 - AES Ohio's Jeffersonville substation provides service to the local area distribution system and to a large industrial customer. For the contingency loss of the 69/12kV transformer serving the industrial customer, the remaining distribution source is unable to adequately support the customer's load.
 - There are two 69/12kV distribution delivery points served via the Washington Court House substation. For the contingency loss of bank 2, the remaining distribution sources are unable to restore service to all load served from the substation
 - As part of previously presented supplemental project (S2256), AES Ohio plans to construction a new 69kV ring bus substation designated as Octa. The Octa substation allows for a second 69kV source to be established into the radially fed Jeffersonville substation while avoiding the creation of a new three terminal line configuration. This proposal seeks to address historical reliability concerns associated with the radial 6902 Jamestown-Jeffersonville-Washington Court House circuit.
 - The 6902-transmission circuit is approximately 31.16 miles in length utilizing wood pole construction and has recorded a total of 24 outages total to 1,887 minutes over the last 5 years.

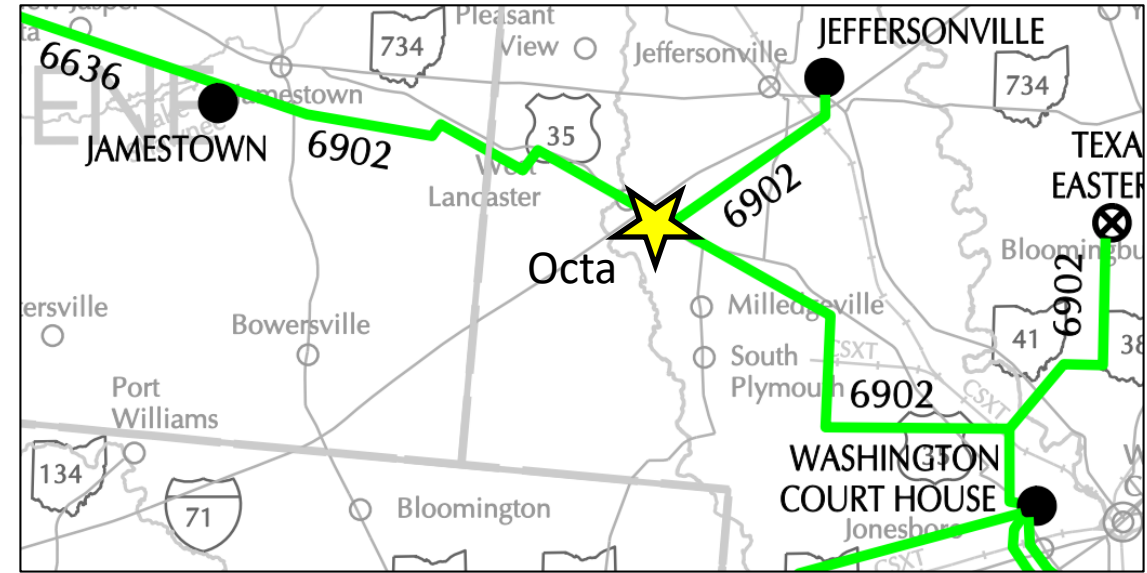
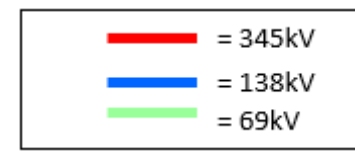


Figure 1 : Area Map



Need Number: Dayton-2021-012

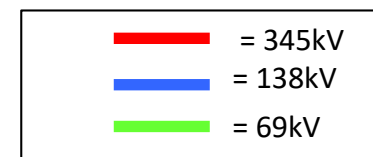
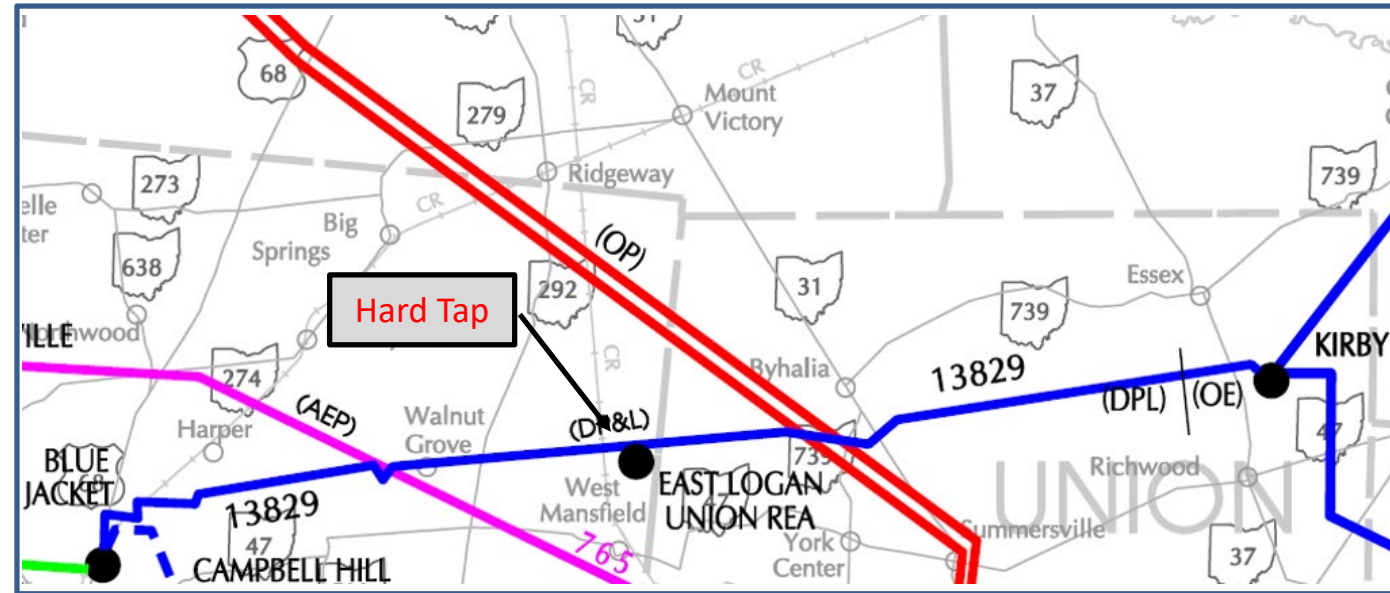
Process Stage: Needs Meeting 12/17/2021

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 13819 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.



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

12/7/2021 – V1 – Original version posted to pjm.com

12/15/2021 – V2 – Removed original slides #5-7, updated solution for Dayton-2019-005