# SRRTEP Committee: Western Dayton Supplemental Projects

June 19, 2020

## 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-2020-007 Process Stage: Needs Meeting

Date: 6/19/2020

#### Supplemental Project Driver(s):

System Configuration Improvements Operational Performance

#### Specific Assumption Reference(s):

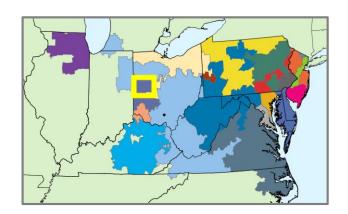
DP&L 2020 RTEP Assumptions, Slide 5

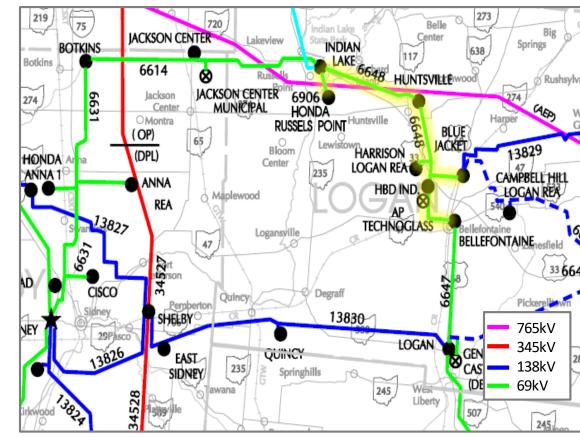
#### **Problem Statement:**

- The Bellefontaine-Blue Jacket-Indian Lake 6648 69kV transmission line is a 16 mile three-terminal line located in Logan County, Ohio. The line features wooden cross-arm and post construction designs.
- The 6648 line provides service to customers served at 7 different substations: Indian Lake (DP&L), Huntsville (DP&L), Harrison (Logan REA), HBD Thermoid (DP&L), AGC Automotive (DP&L), Bellefontaine (DP&L), and Blue Jacket (DP&L).
  - A fault on 6648 results in at least a momentary outage on 9 distribution transformers, 35MW of load, and possible sustained outages to the multitude of customers served from the line.
  - Also, an outage on 6648 between the Blue Jacket tap and Harrison (Logan REA) will make the remaining circuit radial that provides service to Honda Transmission (Logan REA) and 10 other points of delivery served from the 6631 line in this configuration.
- The 6648 line has experienced 1 permanent and 3 momentary outages since 2017. The permanent outage
  was caused by a tree outside of the right of way and the momentary outages were caused by lightning, an
  issue on the distribution underbuild, and a failed piece of equipment during switching.
- The 6648 line serves approximately 35MW of load and has 16 miles of exposure (560MW-mile), although the line has performed well, there is significant exposure on this circuit that must be reduced to ensure long-term reliability.
- Immediately east of Indian Lake substation, the 6648 line crosses a low-lying area for approximately 0.75 miles. For several months of the year, structures are in standing water.
- Circuit 6906 is a radial line 2.0 mile long radial line connecting Indian Lake to a large industrial load (23 MW).

#### Model: 2019 RTEP Series, 2024 Summer Case

### Dayton Transmission Zone M-3 Process Russells Point, Ohio





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	Activity	Timing
Supplemental Projects & Local Plan	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

6/9/2020 – V1 – Original version posted to pjm.com