Western Sub Regional RTEP:
AEP Supplemental Projects

June 13, 2025

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

AEP Transmission Zone M-3 Process
Mink, OH

Need Number: AEP-2025-OH008

Process Stage: Need Meeting 06/13/2025

Project Driver: Customer Service

Specific Assumption References:

AEP Connection Requirements for the AEP Transmission (AEP Assumptions Slide 12)

Problem Statement:

AEP Ohio has requested additional distribution deliveries at Mink station to serve additional customers in the area. The additional peak load is approximately 25 MW. The requested in-service date for the distribution facilities is 12/1/2026.

Solutions

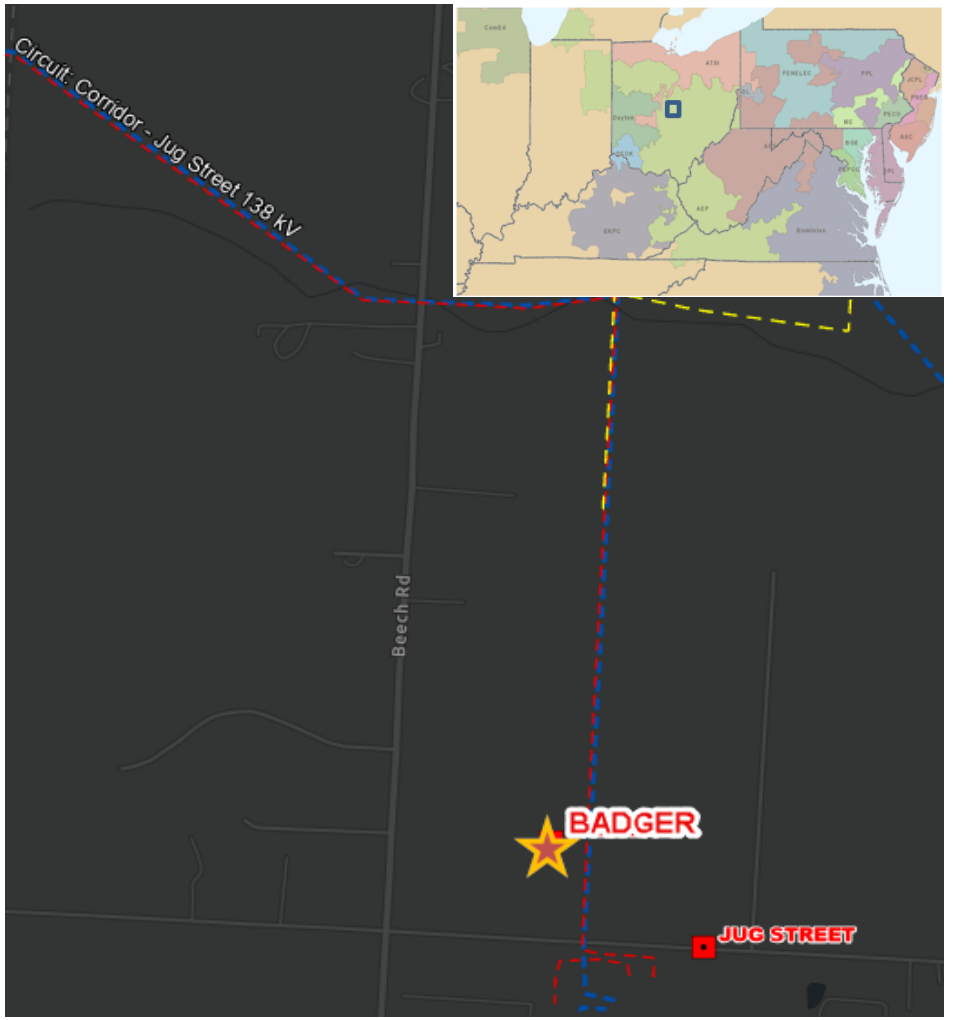
Stakeholders must submit any comments within 10 days of this meeting in order to provide time necessary to consider these comments prior to the next phase of the M-3 process

AEP Transmission Zone M-3 Process
Badger, OH

Need Number: AEP-2025-OH005
Process Stage: Solution Meeting SRRTEP-W - 06/13/2025
Previously Presented: Need Meeting 03/14/2025
Supplemental Project Driver: Customer Service

Specific Assumption Reference: AEP Connection Requirements for the AEP Transmission System (AEP Assumptions Slide 12).

Problem Statement:
An existing customer served out of AEP's Badger Station in Licking County, OH, has requested an incremental load increase of 154 MW as part of the second phase of their project build out. This will bring the total load for the customer's site to 279 MW. Customer has requested in-service date of July 1, 2026.



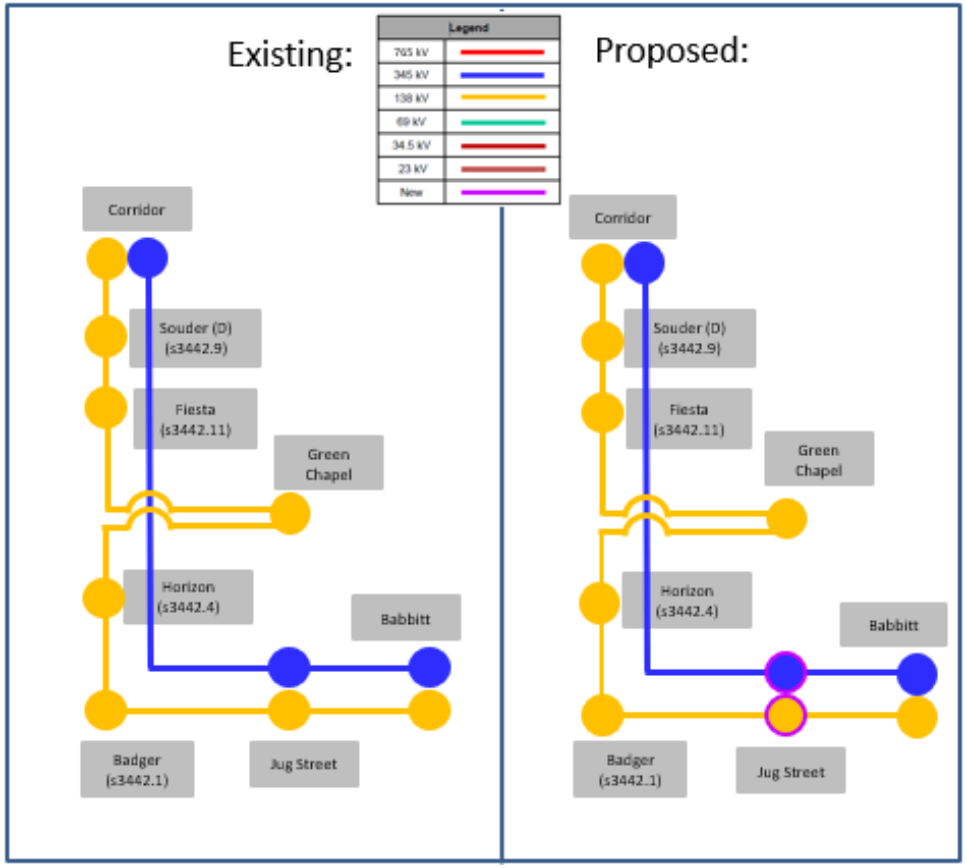
AEP Transmission Zone M-3 Process
Badger, OH

Need number(s): AEP-2025-OH005
Process Stage: Solution Meeting SRRTEP-W - 06/13/2025

Proposed Solution:
Jug St 345/138 kV Station: Replace the 450MVA-345/138 kV Transformer T5 at Jug St station with a 675MVA-345/138 kV transformer with associated protection equipment to address N-1-1 thermal violations associated with the customer load increase at Badger station.
Transmission Cost Estimate: $0.

Alternatives Considered:
An alternative would be to construct the Badger-Fiesta circuit to alleviate the overload on the Jug T5 bank. However, building the new line would require more time than the customer at Badger needs to increase their load. Therefore, replacing the Jug bank is a faster solution to help meet the customer request.

Projected In-Service: 07/01/2026
Project Status: Engineering



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

06/03/2025– V1 – Original version posted to pjm.com