

TEAC: AEP Supplemental Projects

October 8, 2024

Needs

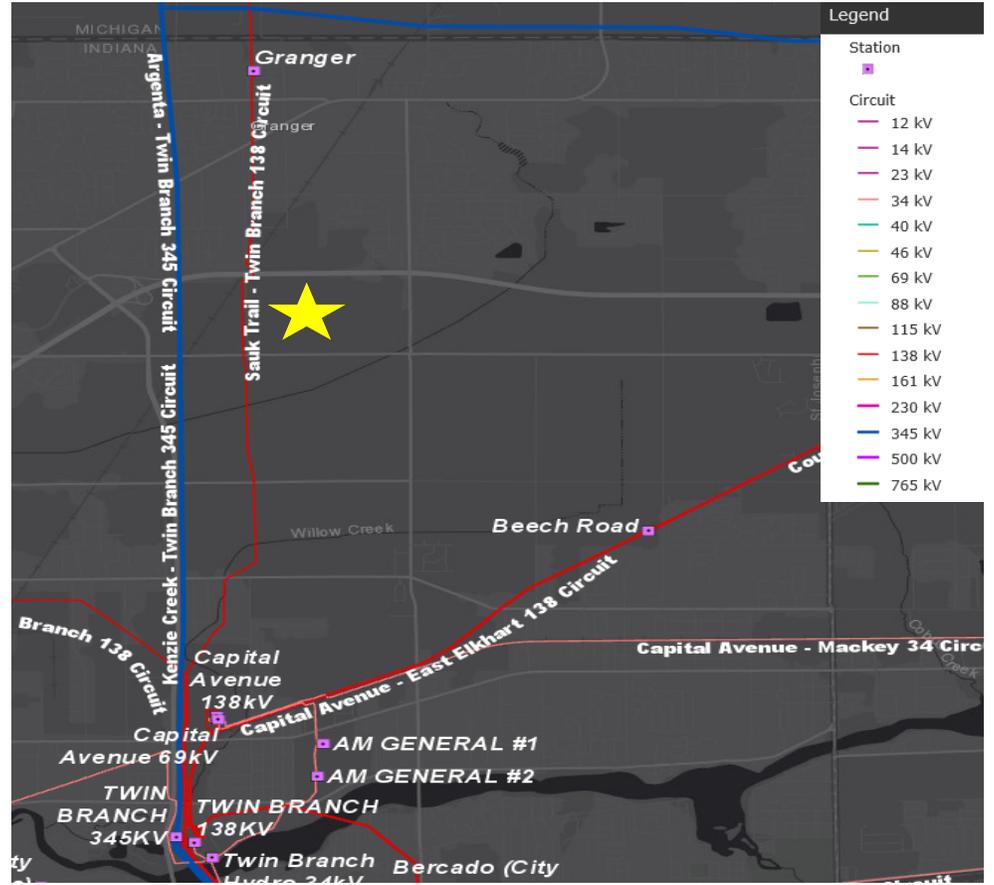
Stakeholders must submit any comments within 10 days of this meeting in order to provide time necessary to consider these comments prior to the next phase of the M-3 process

AEP Transmission Zone M-3 Process East Elkhart, Indiana

Need Number: AEP-2024-IM015
Process Stage: Need Meeting TEAC - 10/08/2024
Supplemental Project Driver: Customer Service
Specific Assumption Reference: AEP Connection Requirements for the AEP Transmission System (AEP Assumptions Slide 12)

Problem Statement:
 A customer has requested new service for a 1000MW data center in the Granger, IN area.

Requested in service date: 300MW by 12/13/2027,
 1000MW by 1/24/2029



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 Project Amazing Sites 100 and 201

Need Number: AEP-2023-IM023

Process Stage: Solution Meeting 10/8/2024

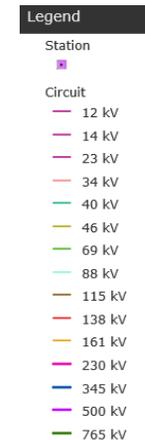
Previously Presented: Needs Meeting 10/31/2023, Solution Meeting 6/4/2024

Supplemental Project Driver: Customer Service

Specific Assumptions Reference: AEP Interconnection Guidelines (AEP Assumptions Slide 12)

Problem Statement:

- A customer has requested new service for 1100MW of load in New Carlisle, IN area. Initial service is requested by 12/15/2026.



Need number(s): AEP-2023-IM023

Process Stage: Solution Meeting 10/8/2024

Proposed Solution:

Larrison Drive 345 kV Station: Construct a new station in a breaker and a half configuration consisting of sixteen (16) 345kV 5000A 63kA breakers, six (6) 345kV meters, and station fiber cable to serve 550MW of new load. Construct six (6) 345kV bus ties from AEP’s Larrison Drive 345kV station to the customer station. Cut in the Elderberry-Dumont and Dumont-Olive Bypass 345 kV line into the new station.. Estimated Cost: \$70.38 M

New Prairie 345 kV Station: New station to be constructed in a breaker and a half configuration consisting of sixteen (16) 345kV 5000A 63kA breakers, six (6) 345kV meters, and station fiber cable. Construct six (6) bus ties from AEP’s New Prairie 345kV station to the customer station. Cut in the Elderberry-Dumont and Dumont-Olive Bypass 345 kV line into the new station. Estimated Cost: \$79.53 M

Sorenson Remote End Work: Remote end work at Sorenson station to facilitate the construction of Larrison Drive and New Prairie 345kV st. Estimated Cost: \$1.72 M

Elderberry Remote End Work: Remote end settings work at Elderberry station to facilitate the construction of Larrison Drive and New Prairie 345kV stations. Estimated Cost: \$1.72 M

Dumont Remote End Work: Remote end work at Dumont station to facilitate the construction of Larrison Drive and New Prairie 345kV stations. Estimated Cost: \$1.72 M

Kenzie Creek-Thomson 345 kV Sag Study: Complete sag study and mitigation on the Kenzie Creek-Thomson 345 kV line. Estimated Cost: \$0.62 M

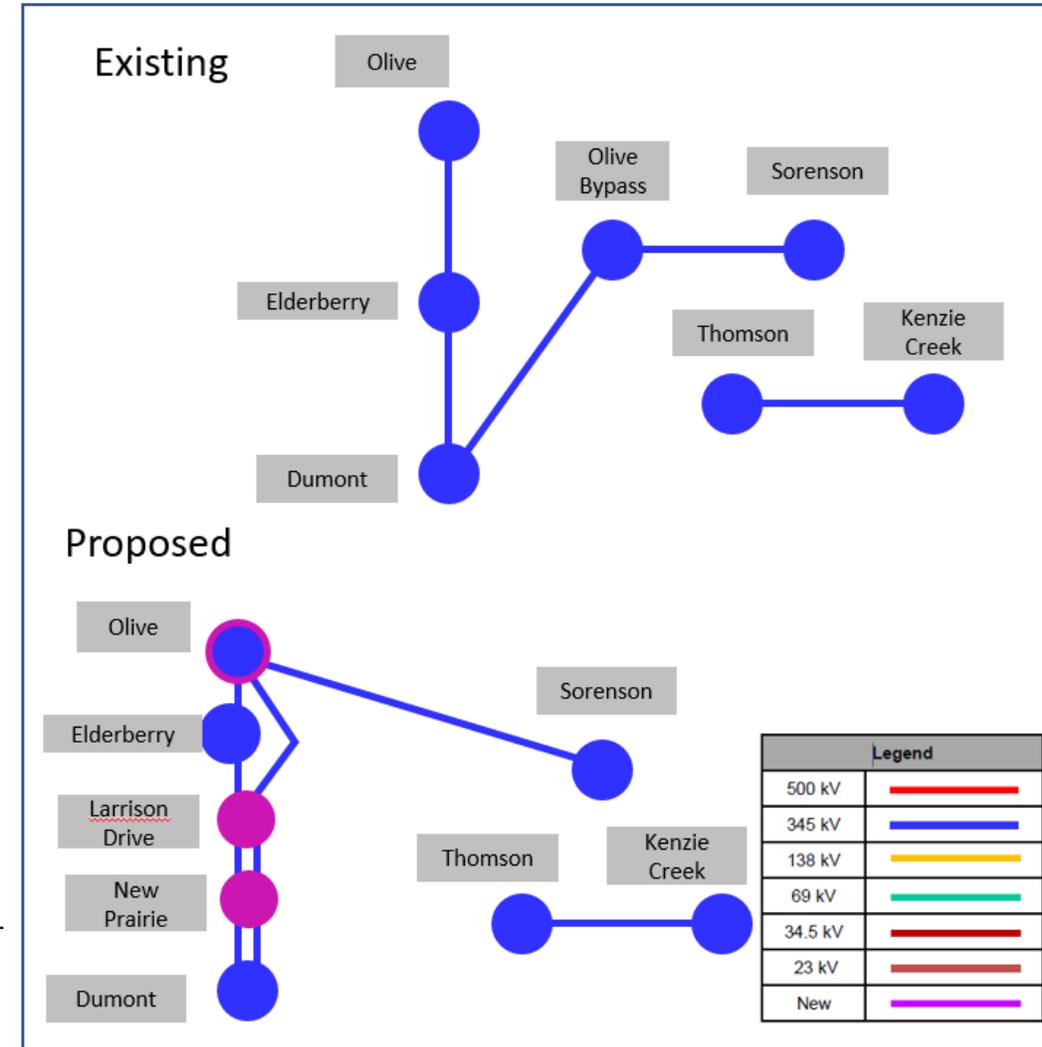
Olive 345kV Station: Replace overdutied 345kV circuit breakers B, B1, B2, D1, and D2. Bring in the Olive Bypass (Dumont - Sorenson 345kV circuit) and install 3 new 345kV circuit breakers for new 'C' string.. Estimated Cost: \$29.287 M

Transmission Cost Estimate: ~~\$155.69 M~~ \$184.977M

Alternatives Considered: Considering the location of the requested load and availability of land on the customer sites, no other alternatives were viable.

Projected In-Service: 12/15/2026

Project Status: Scoping



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

9/27/2024 – V1 – Original version posted to pjm.com