



PJM TEAC Committee AEP Supplemental Projects

May 16, 2019

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: AEP-2019-IM003

Process Stage: Solutions Meeting 5/16/2019

Previously Presented:

Needs Meeting 2/20/2019

Solutions Meeting 4/23/2019

Supplemental Project Driver:

Operational Efficiency & Flexibility

Specific Assumptions Reference:

AEP Guidelines for Transmission Owner Identified Needs (AEP Assumptions Slide 8)

Problem Statement:

Tanners Creek 345 kV

- Currently a line fault on the Dearborn circuit causes 5 EHV breakers to open. This is above the AEP max of 4 and must be addressed.
- According to the DEDSTFMRS PJM document, 200 kV+ facilities with 7+ elements are required to be in a complete breaker and a half setup at a minimum. This facility has 9 elements and is currently in an incomplete breaker and a half setup.



Need Number: AEP-2019-IM003

Process Stage: Solutions Meeting 5/16/2019

Proposed Solution:

Install 2 new 345 kV breakers and move the existing M2 breaker into the new N string. Terminate the Dearborn line and the transformer into the new N string. Install a new 345 kV breaker “T” to complete the T string.

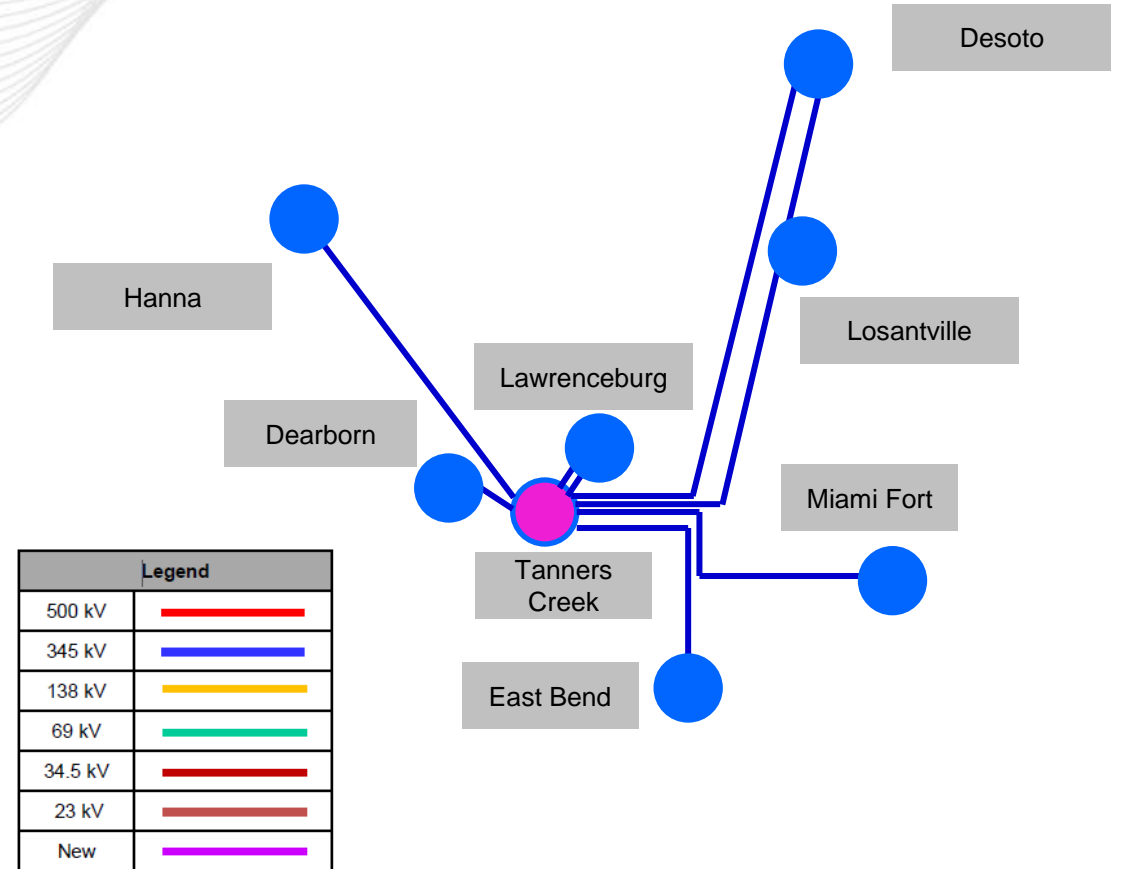
Alternatives:

Reterminated the 345/138 kV transformer and 345 kV Dearborn line into existing breaker spots. Due to the way the station is laid out, this would require reconfiguring multiple 345 kV lines and would cost more.

Total Estimated Transmission Cost: \$5.93 M

Projected IS Date: 6/1/2021

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

5/2/2019 – V1 – Original version posted to pjm.com