

# Subregional RTEP Committee – Western FirstEnergy Supplemental Projects

APS Transmission Zone

# 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:** APS-2025-030  
**Process Stage:** Solution Meeting - TEAC – 01/06/2026  
**Previously Presented:** Need Meeting –TEAC - 12/02/2025  
**Project Driver:**

*Operational Flexibility and Efficiency*

**Specific Assumption Reference:**

System Performance Projects Global Factors

- Substation/line equipment limits

**Problem Statement:**

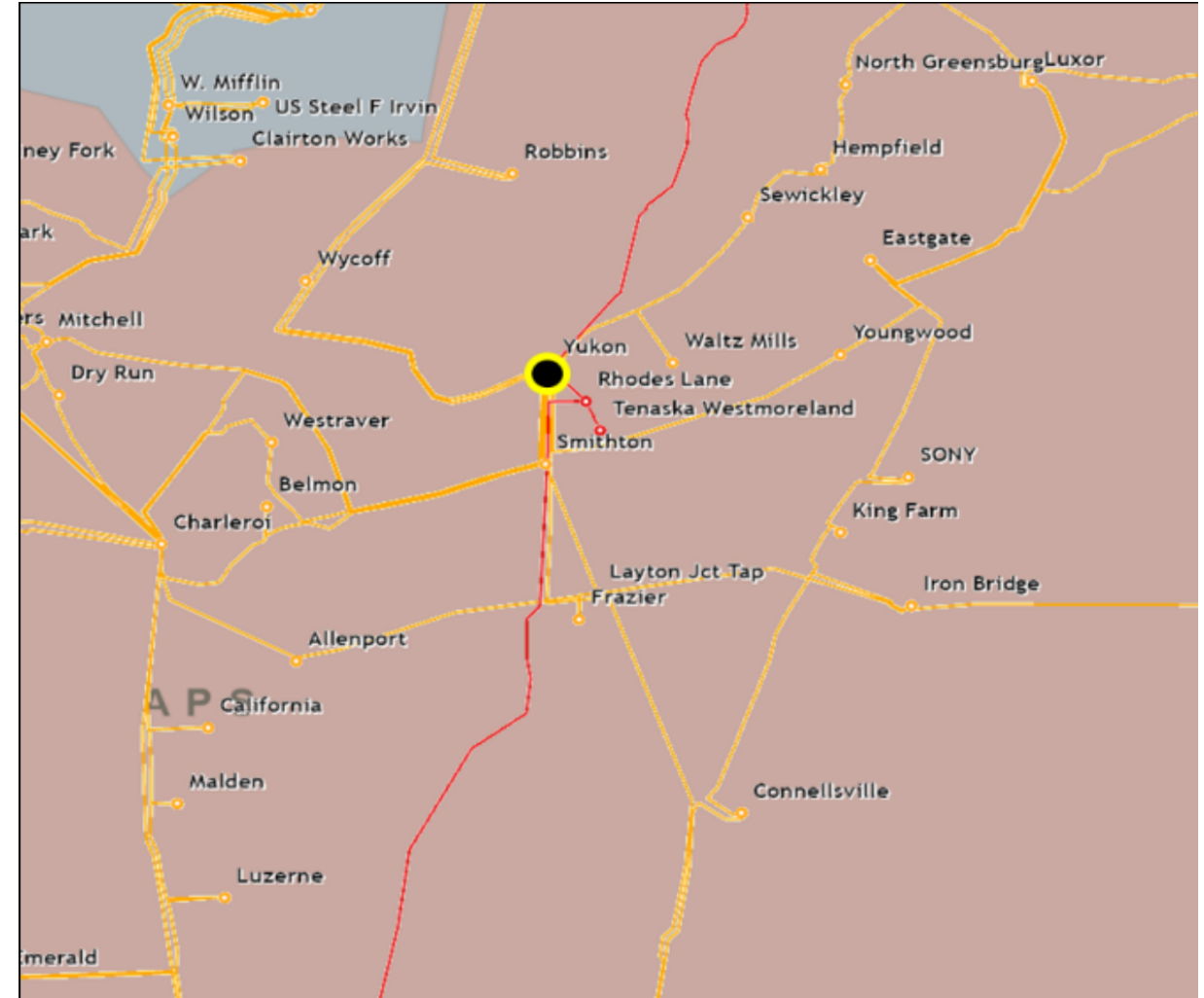
Upon field inspection, limiting substation conductor was found on the Yukon No. 7 500/138 kV Transformer. The substation conductor caused a derate on the transformer circuit.

Existing Ratings:

1096 / 1296 / 1309 / 1375 MVA (SN/SSTE/WN/WSTE)

Existing Transformer Ratings:

1415 / 1476 / 1791 / 1746 MVA (SN/SSTE/WN/WSTE)



**Need Number:** APS-2025-030  
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## Proposed Solution:

At Yukon Substation, replace the limiting conductor on the No. 7 500/138 kV Transformer.

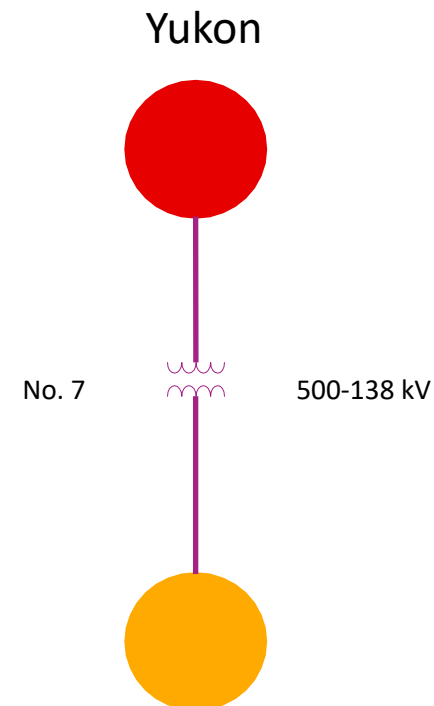
## Transformer Ratings:











Before Proposed Solution: 1096 / 1296 / 1309 / 1375 MVA (SN/SSTE/WN/WSTE)  
 After Proposed Solution: 1096 / 1365 / 1372 / 1558 MVA (SN/SSTE/WN/WSTE)

## Alternatives Considered:

Maintain equipment in existing condition with limiting equipment rating.

**Estimated Project Cost:** \$0.41M  
**Projected In-Service:** 12/31/2026  
**Project Status:** Engineering  
**Model:** 2024 RTEP model for 2029 Summer (50/50)



Legend	
500 kV	
345 kV	
230 kV	
138 kV	
115 kV	
69 kV	
46 kV	
34.5 kV	
23 kV	
New	

# 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

12/22/2025– V1 – Original version posted to pjm.com