

# Subregional RTEP Committee – Western FirstEnergy Supplemental Projects

March 19, 2026

# 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

**Need Number:** APS-2026-006  
**Process Stage:** Need Meeting SRRTEP-W - 03/19/2026

**Project Driver:**  
*Customer Service*

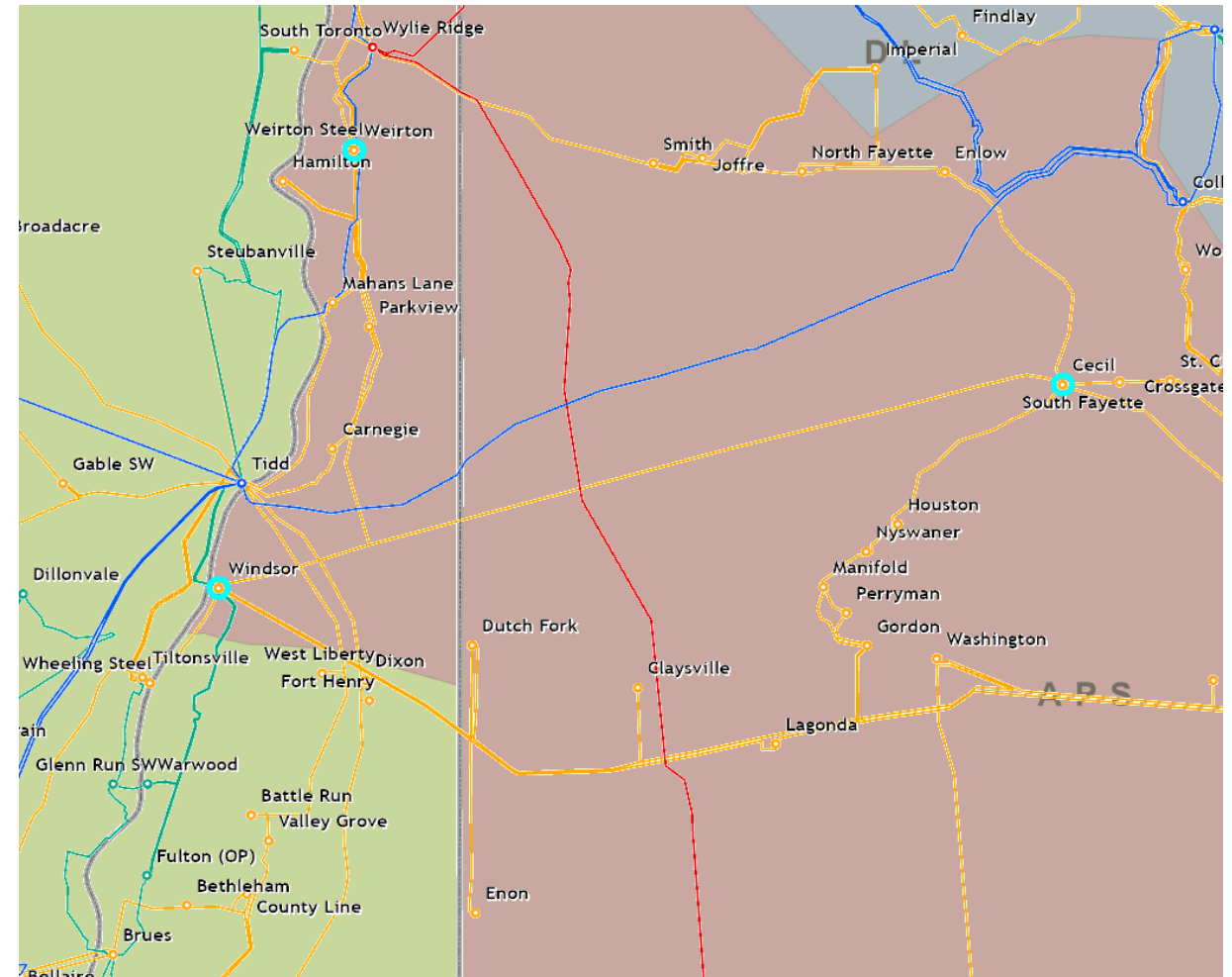
**Specific Assumption References:**

New customer connection requests will be evaluated per FirstEnergy's "Requirements for Transmission Connected Facilities" document and "Transmission Planning Criteria" document.

**Problem Statement:**

New Customer Connection - A retail customer requested 138 kV service for load of approximately 29 MW. The customer's location is in close proximity to the Cecil - Weirton - Windsor (Buffalo Junction) 138 kV Line.

The requested in-service date is 4/1/2026.



# 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

**Need Number:** APS-2026-004  
**Process Stage:** Solution Meeting SRRTEP-W - 03/19/2026  
**Previously Presented:** Need Meeting SRRTEP-W - 01/16/2026

**Project Driver:**  
*Customer Service*

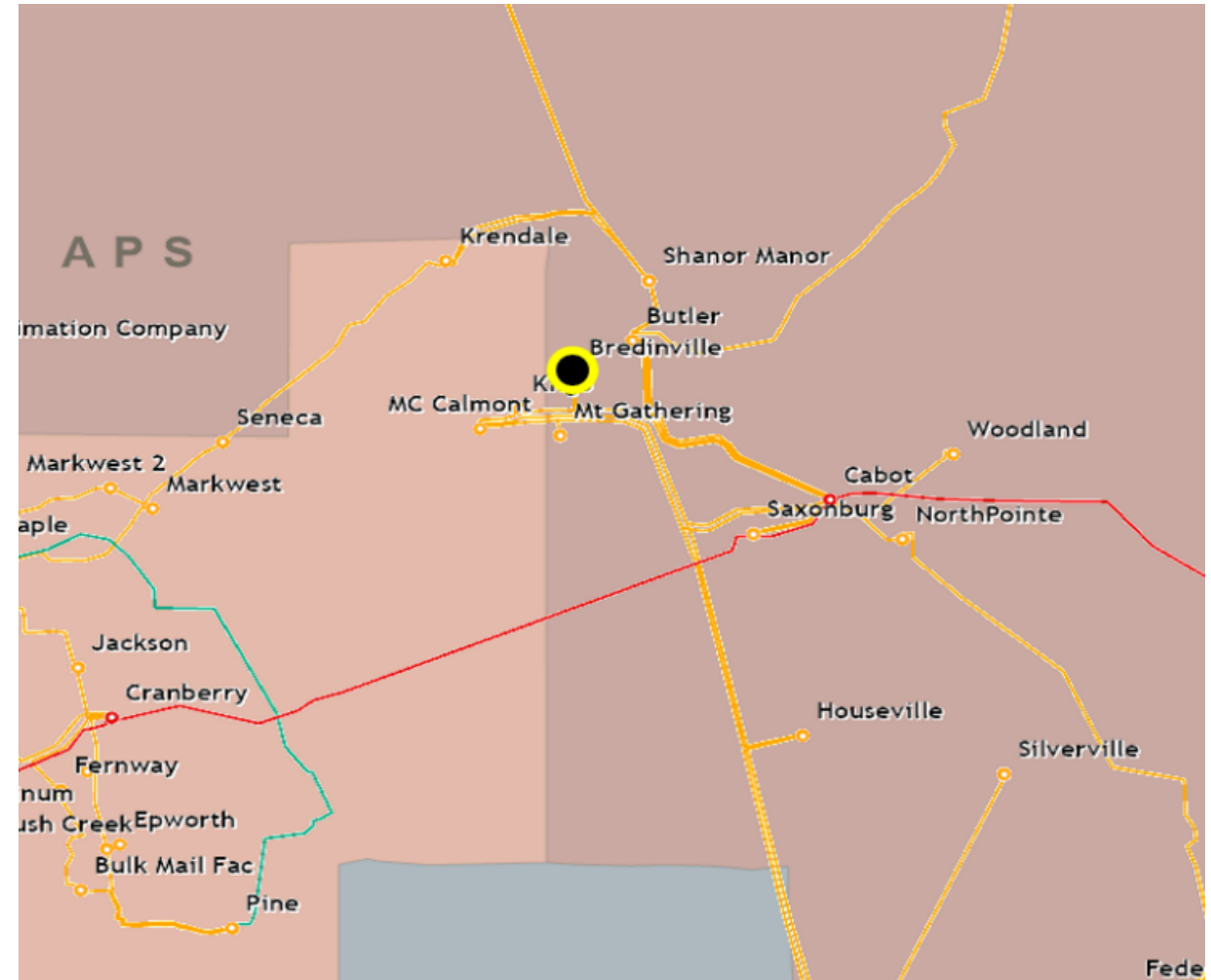
**Specific Assumption References:**

New customer connection requests will be evaluated per FirstEnergy's "Requirements for Transmission Connected Facilities" document and "Transmission Planning Criteria" document.

**Problem Statement:**

New Customer Connection - A customer located near the existing Bredinville - McCalmont 138 kV Line requested a new 138 kV delivery point. The anticipated load of the new customer connection is 80 MW.

Anticipated in-service date is 3/15/2028.



**Need Number:** APS-2026-004  
**Process Stage:** Solution Meeting SRRTEP-W - 03/19/2026

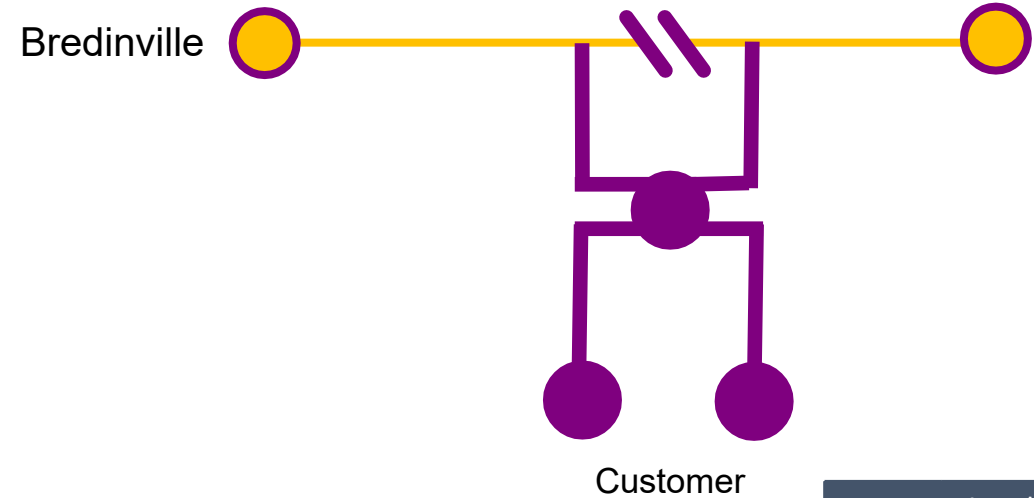
**Proposed Solution:**

Bredinville - McCalmont 138 kV Line Interconnection:  
 Construct a new four-breaker (future five-breaker) 138 kV station, cut into the Bredinville - Kilgo 138 kV Line and loop the line in and out of the new ring bus station. Construct two 138 kV spans from the new ring bus station to the POI with the Customer.  
 Transmission Line Ratings: 287 / 287 / 287 / 287 MVA (SN/SSTE/WN/WSTE)

**Alternatives Considered:**

No reasonable alternatives to meet the customer request due to the proximity of the Bredinville - McCalmont 138 kV Line.

**Estimated Project Cost:** \$22.75M  
**Projected In-Service:** 12/18/2026  
**Status:** Conceptual  
**Model:** 2024 RTEP model for 2029 Summer & Winter (50/50)



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

# Cancellations

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-2025-026  
**Process Stage:** Need Meeting 09/19/2025

**Reason for cancellation:** Upgrades changing the ratings for Bethel Park - St. Clair are already included in APS-2024-098 (s3707.1).

**Supplemental Project Driver(s):**

*Equipment Material Condition, Performance and Risk*

**Specific Assumption Reference(s)**

Substation Condition Rebuild/Replacement

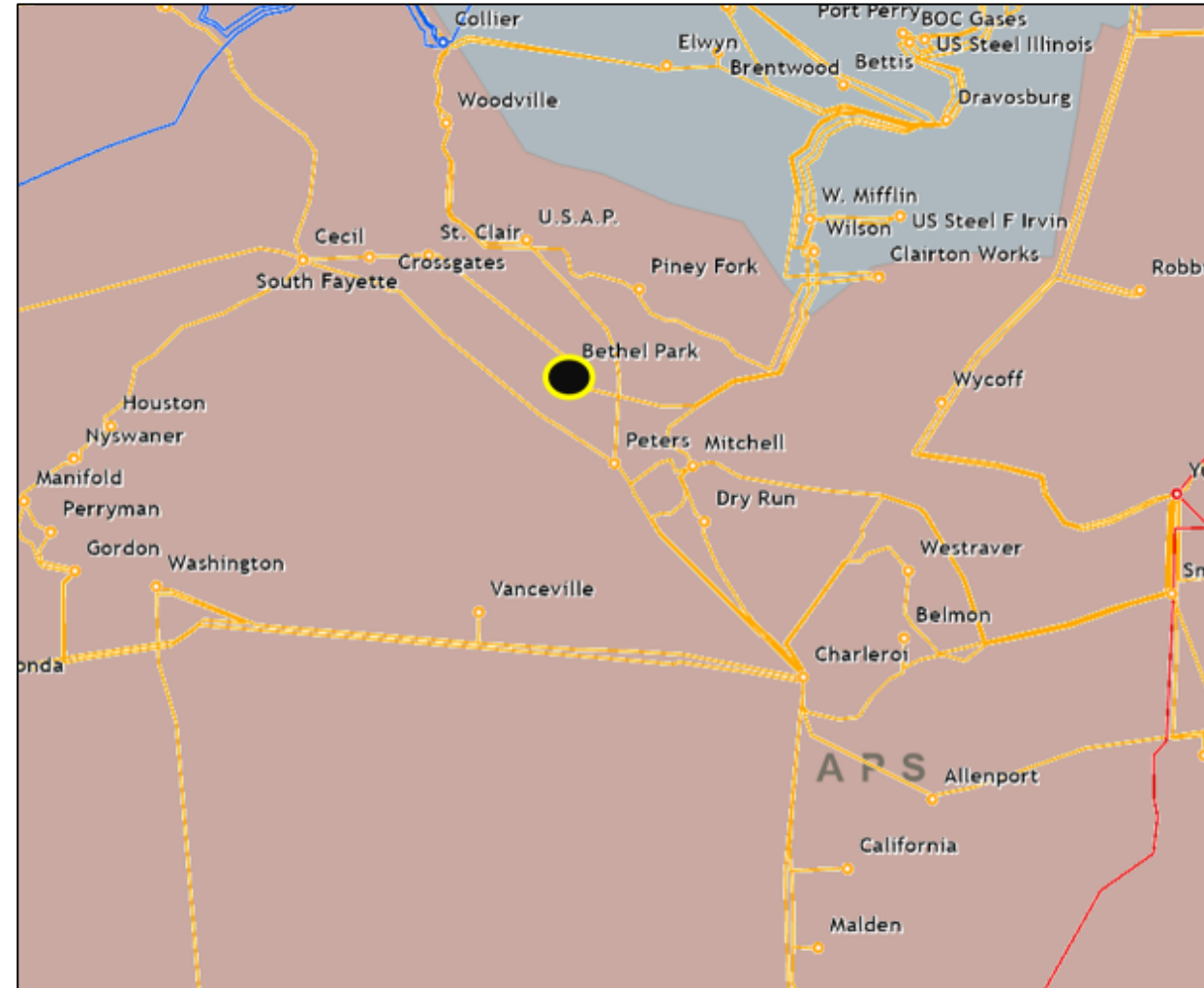
- Age/condition of substation equipment
- Circuit breakers and other fault interrupting devices

System Performance Projects Global Factors

- System reliability and performance
- Substation/line equipment limits

**Problem Statement:**

- At Bethel Park Substation, the 138 kV breaker on the St. Clair line terminal was manufactured in 1956 and is approaching end of life. It continues to have hydraulic system problems due to air penetrating the pumps causing the motors to run excessively
- Transmission line ratings are limited by terminal equipment.
  - Existing line ratings: 292 / 306 / 306 / 306 MVA (SN/SE/WN/WE)
  - Existing conductor ratings: 308 /376 / 349 / 445 MVA (SN/SE/WN/WE)



# 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

03/10/2026– V1 – Original version posted to pjm.com