# Subregional RTEP Committee – Western FirstEnergy Supplemental Projects

## 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



## **APS Transmission Zone M-3 Process**

Need Number: APS-2022-002

Process Stage: Need Meeting 05/19/2022

**Project Driver:** 

Equipment Material Condition, Performance and Risk

Operational Flexibility and Efficiency

#### **Specific Assumption Reference:**

System reliability and performance.

**System Condition Projects** 

- Line Condition Rebuild/Replacement
  - Transmission Line Switches

#### **Problem Statement:**

The Powell Mountain – Linden Road 138 kV line has two in-line switches that are in degraded condition and have limited availability of spare parts. The existing switches have operational limitations. The motor control units are no longer supported by the manufacturer. Inability to sectionalize this line results in loss of approximately 6 MW of load and 2,400 customers.

- Switches A-1225 and A-1226
  - Transmission line rating is 164/206 MVA (SN/SE)





### **APS Transmission Zone M-3 Process**

Need Number: APS-2022-004

**Process Stage:** Need Meeting 05/19/2022

**Project Driver:** 

Equipment Material Condition, Performance and Risk

Operational Flexibility and Efficiency

#### **Specific Assumption Reference:**

Line Condition Rebuild/Replacement

- Age/condition of wood pole transmission line structures
- Age/condition of steel tower or steel pole transmission line structures
   Substation Performance Projects Global Factors

• Substation/line equipment limits

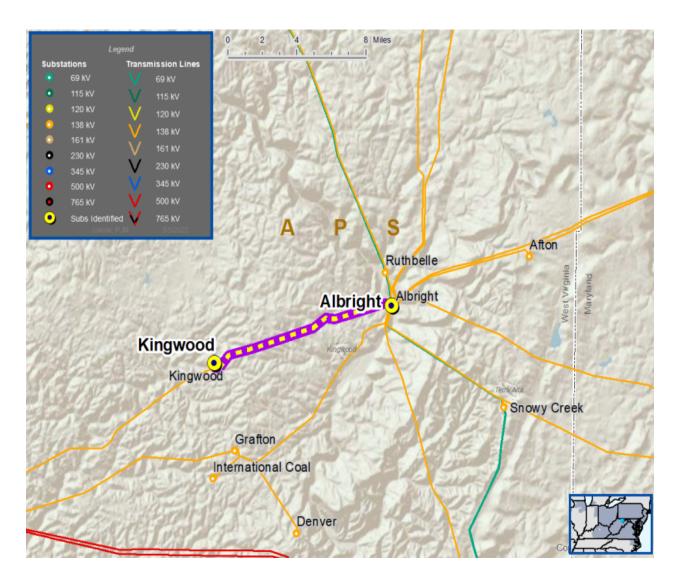
#### **Problem Statement:**

Albright – Kingwood 138 kV line is exhibiting deterioration.

- The transmission line was constructed in 1953.
- Total line distance is approximately 4.0 miles.
- 25 out of 30 structures failed inspection (83% failure rate)
- Failure reasons include woodpecker damage, cracking, and decay

Transmission line ratings are limited by terminal equipment (Substation Conductor, Wave trap).

- Existing line rating: 176/209 MVA (SN/SE)
- Existing conductor rating: 221/268 MVA (SN/SE)



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 Colutions Mosting
	103 and Stakenblacis i 33t Solutions Meeting Shace	10 days before Solutions Meeting
	Stakeholder comments	10 days before Solutions Meeting  10 days after Solutions Meeting
	Stakeholder comments	10 days after Solutions Meeting
Submission of		
Submission of Supplemental	Stakeholder comments	10 days after Solutions Meeting
	Stakeholder comments  Activity	10 days after Solutions Meeting  Timing

Local Plan submitted to PJM for integration into RTEP

Following review and consideration of comments received after posting of selected solutions

# **Revision History**

5/5/2022 – V1 – Original version posted to pjm.com