

SRRTEP - Western Committee ComEd Supplemental Projects

October 15, 2021

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



ComEd Transmission Zone M-3 Process McCook 138 kV

Need Number: ComEd-2021-004

Process Stage: Solutions Meeting October 15, 2021 **Previously Presented:** September 17, 2021

Project Driver:

- Operational Flexibility and Efficiency
- Equipment Material Condition, Performance and Risk

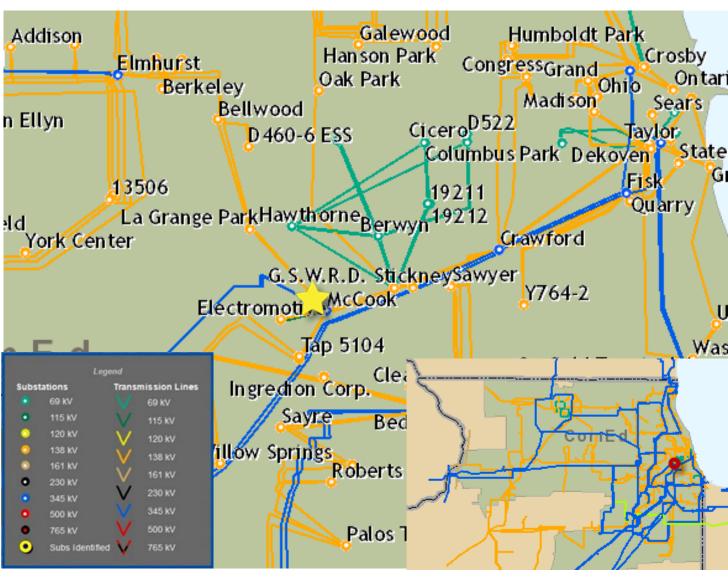
Specific Assumption References:

- Internal and/or regulatory recommended design guidelines or standards
- Enhancing system functionality, flexibility, visibility, or operability
- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions

Problem Statement:

McCook 138 kV bus does not comply with internal design guidelines. It is a straight bus design with eight lines, two autotransformers and seven distribution transformers

- 5 distribution transformers are directly connected to the bus without a circuit breaker
- 13 -138 kV oil breakers are 50 years old.
- 31 manual operated disconnects are 50 years old.
- 27 CCVTs have reached expected design life





ComEd Transmission Zone M-3 Process McCook 138 kV

Galewood Humboldt Park Addison Hanson Park Crosby Elmhurst CongressGrand Oak Park Ontar Ohio Berkeley Madison Sears Bellwood CiceroD522 n Ellyn Taylor -D 460-6 ESS State Columbus Park Dekoven G Fisk 13506 19211 Quarry La Grange ParkHawthorneBerwyn 19212 e c Crawford York Center G.S.W.R.D. StickneySawyer Y764-2 Electromoti McCook U Táp 5104 Was Clea Ingrection Corp. Transmission Lines Substations 69 kV Savre Bed illow Springs 138 kV 161 kV Roberts 161 kV 500 kV Palos⁻ Subs Identified 765 KV

Need Number: ComEd-2021-004

Process Stage: Solutions Meeting October 15, 2021 Proposed Solution:

• Rebuild McCook 138kV with Breaker and a half GIS Estimated transmission cost: \$68M

Alternatives Considered:

Replace aging equipment in place

- Replace 13 -138 kV oil circuit breakers, 31 disconnects and 27 CCVTs
- Install high side 138kV breakers on five distribution transformers
- Station would not meet internal design guidelines

Projected In-Service: 12/31/25

Project Status: Conceptual Model: 2026 RTEP

Appendix

High Level M-3 Meeting Schedule

Assumptions	Activity
	Posting of TO Assumptions M
	Stakeholder comments
Needs	Activity

Needs

Solutions

Submission of		
Supplemental		
Projects & Local		
Plan		

Activity	Timing
Posting of TO Assumptions Meeting information	20 days before Assumptions Meeting
Stakeholder comments	10 days after Assumptions Meeting
Activity	Timing
Activity TOs and Stakeholders Post Needs Meeting slides	Timing 10 days before Needs Meeting

Activity	Timing
TOs and Stakeholders Post Solutions Meeting slides	10 days before Solutions Meeting
Stakeholder comments	10 days after Solutions Meeting

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

10/04/2021 – V1 – Original version posted to pjm.com