



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

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

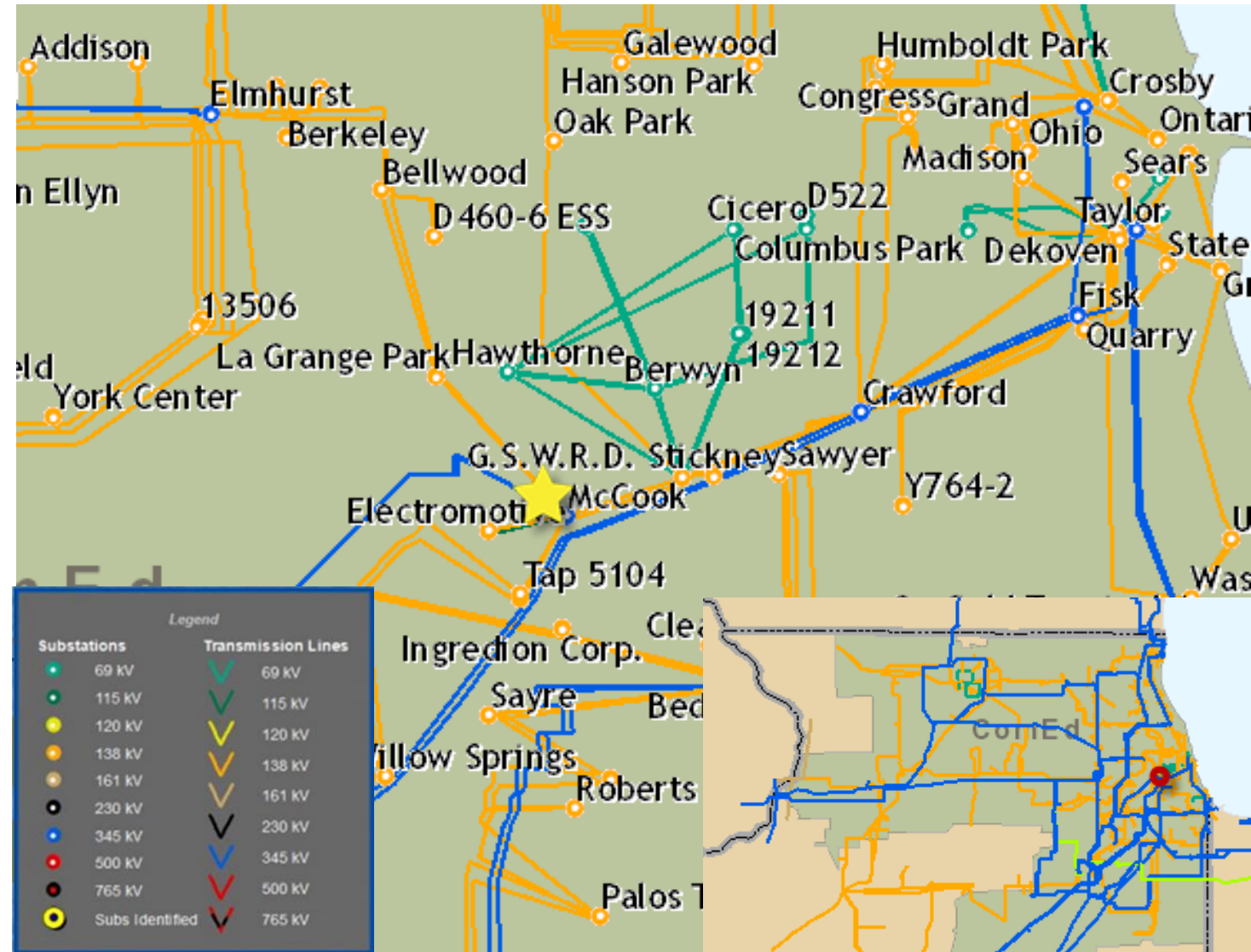
Specific Assumption References:

- 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



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Proposed Solution:

- Rebuild McCook 138kV with Breaker and a half GIS

Estimated transmission cost: \$68M

Alternatives Considered:

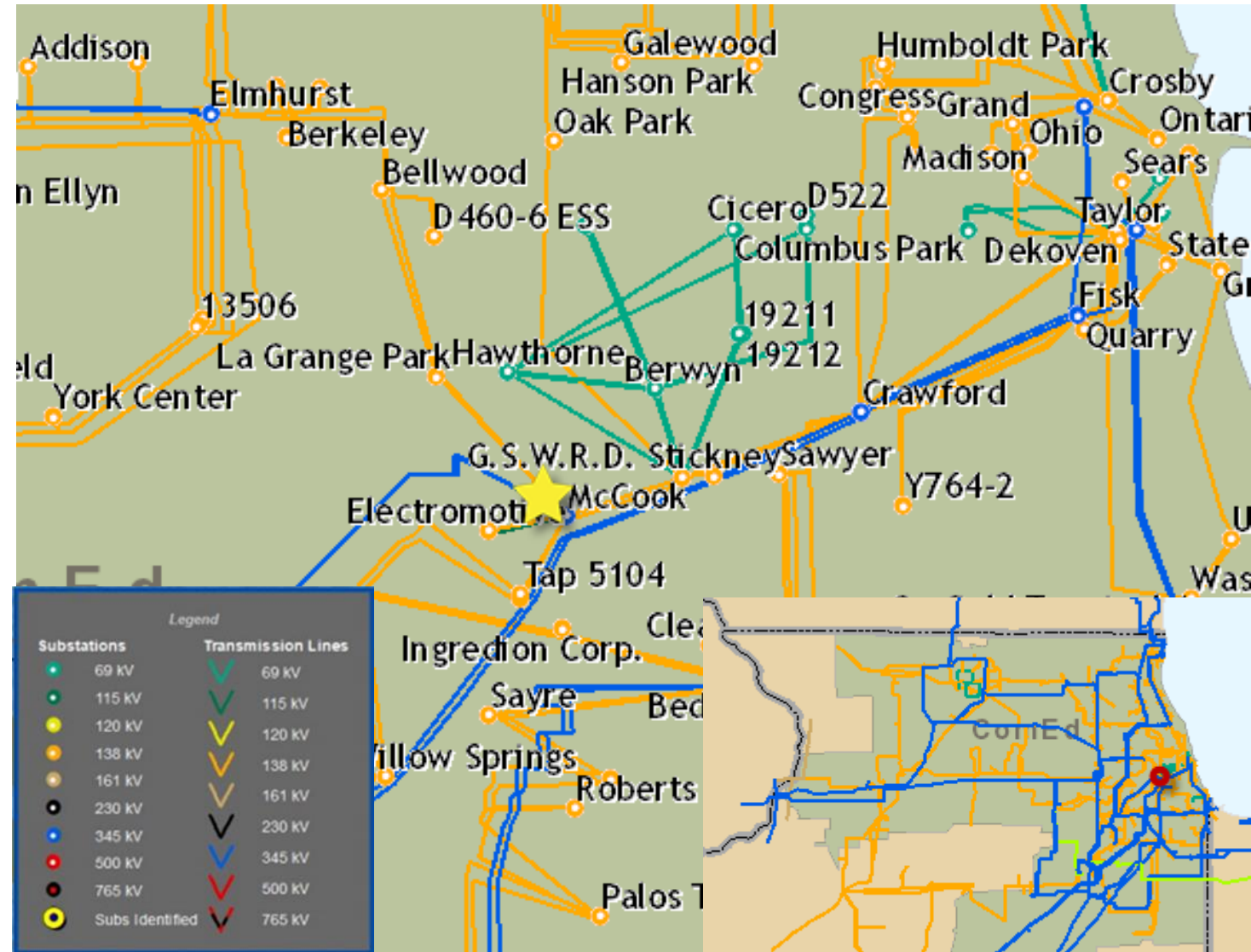
Replace aging equipment in place

- 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 | 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

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