

# SRRTEP - Western Committee ComEd Supplemental Projects

October 14, 2022

## 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 Line 15518

Need Number: ComEd-2022-004

**Process Stage:** Solutions Meeting 10/14/2022

Previously Presented: Need Meeting 8/19/2022

**Project Driver:** 

Equipment Material Condition, Performance and Risk

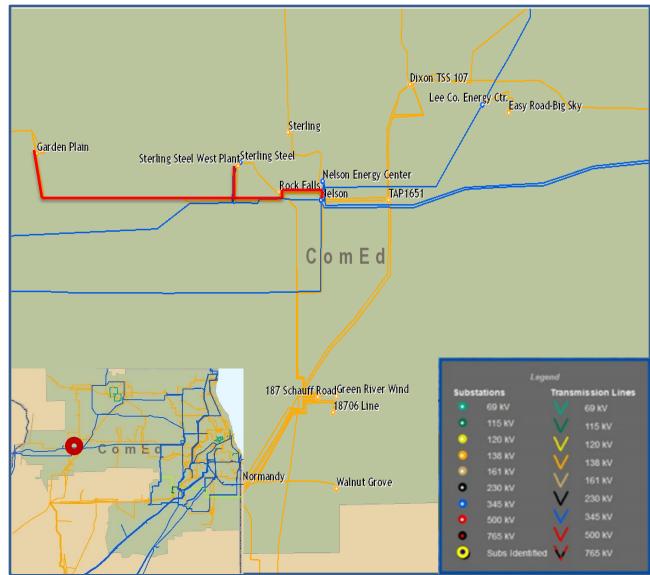
**Operational Flexibility and Efficiency** 

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

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions
- Programmatic review and/or replacement of breakers, relays, wood poles, etc.
- Enhancing system functionality, flexibility, visibility, or operability

**Problem Statement:** 138 kV L15518 is a three-terminal line between Rock Falls, Nelson, and Garden Plain.

- 202 structures built in 1965 with single wood poles are undersized by today's standards
- 104 structures built in 1951 are wood H-frame construction and are reaching end-of-life.
- In 2020 two different wind events caused failure of 11 wood pole structures. Another wood pole failed in the spring of 2022.
- An area of loose peat is causing existing structures to lean which require costly repairs.





## ComEd Transmission Zone M-3 Process Line 15518

#### Need Number: ComEd-2022-004

**Process Stage:** Solutions Meeting 10/14/2022

#### **Proposed Solution:**

Rebuild 23 miles of wood poles with 1113 kCMIL conductor on steel towers. Eliminate three terminal line by extending 1113 kCMIL conductor from Rock Falls to the structure going to Garden Plain.

Line Rating capability:

Description	Summer Normal	Summer Emergency	Winter Normal	Winter Emergency
Existing	114	182	172	202
Proposed	351	449	421	500

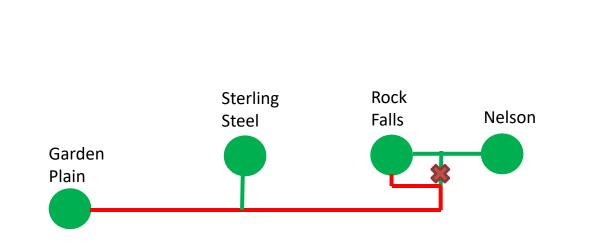
Estimated Cost: \$94M

#### **Alternatives Considered:**

None

Projected In-Service: 12/31/2026 Project Status: Conceptual

Model: RTEP 2027







## ComEd Transmission Zone M-3 Process Waterman

Need Number: ComEd-2022-005

Process Stage: Solutions Meeting 10/14/2022

Previously Presented: Need Meeting 8/19/2022

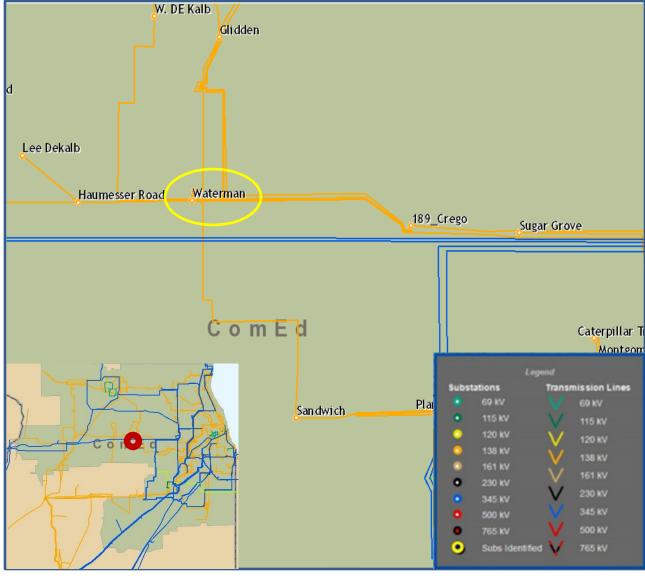
**Project Driver:** 

**Customer Service** 

Specific Assumption Reference:

• Transmission System configuration changes due to new or expansion of existing distribution substations

**Problem Statement:** Distribution load is increasing by 18 MVA at Waterman by 12/31/2023.





## ComEd Transmission Zone M-3 Process Waterman

Need Number: ComEd-2022-005

Process Stage: Solutions Meeting 10/14/2022

#### **Proposed Solution:**

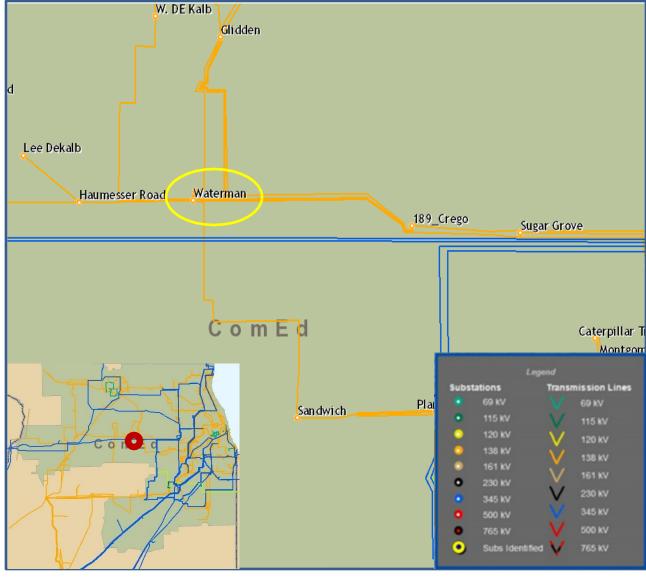
Expand 138 kV bus at Waterman and install 138-34 kV 60 MVA transformer. Reconfigure 138 kV bus at Waterman and install 138 kV line CBs on Waterman to Crego 138 kV line and Waterman to Haumesser Road 138 kV line.

Estimated Transmission Cost: \$11.4 M

#### **Alternatives Considered:**

None

Projected In-Service: 12/31/2023 Project Status: Engineering Model: RTEP 2027



## Appendix

# High Level M-3 Meeting Schedule

#### Assumptions

Act	tivity	Timing
Post	ting of TO Assumptions Meeting information	20 days before Assumptions Meeting
Stak	keholder comments	10 days after Assumptions Meeting

#### Needs

### Solutions

### Submission of Supplemental Projects & Local Plan

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

Timing

## 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

Activity

Stakeholder comments

## **Revision History**

10/4/2022 – V1 – Original version posted to pjm.com