

# SRRTEP - Western Committee ComEd 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



# ComEd Transmission Zone M-3 Process Customer in Hoffman Estates

Need Number: ComEd-2021-003

Process Stage: Need Meeting April 16, 2021

**Project Driver:** 

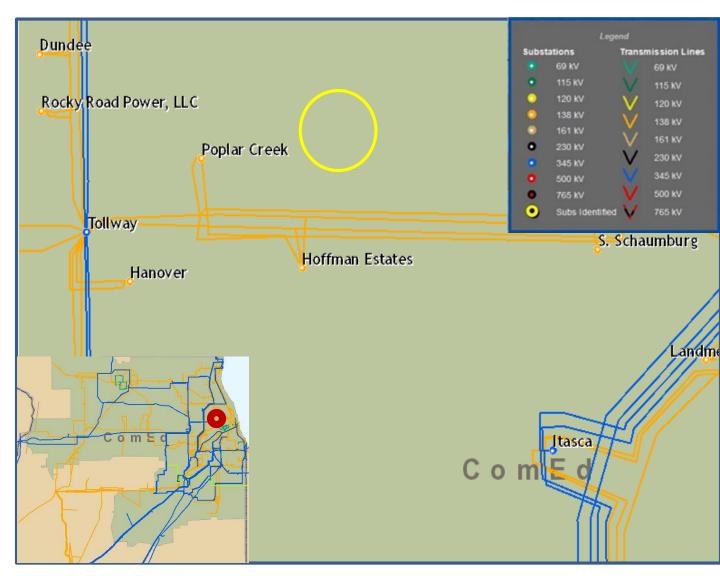
**Customer Service** 

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

 New transmission customer interconnections or modification to an existing customer

#### **Problem Statement:**

New customer is looking for transmission service in Hoffman Estates. Initial loading is expected to be 24 MW in June 2023 with an ultimate load of 96 MW by the end of 2027.



### 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-2021-001

Process Stage: Solutions Meeting April 16, 2021

Previously Presented: March 19, 2021

**Project Driver:** 

Operational Flexibility and Efficiency

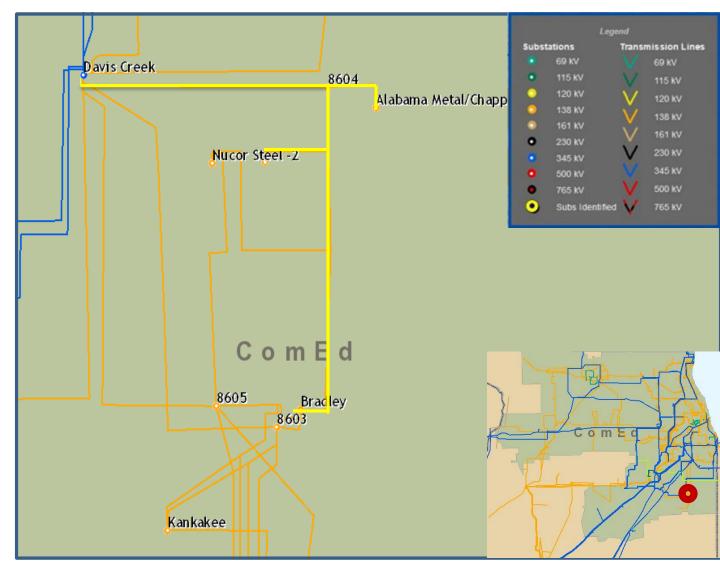
Equipment Material Condition, Performance, and Risk

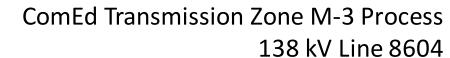
#### **Specific Assumption Reference:**

- Enhancing system functionality, flexibility, visibility, or operability
- Networking existing radial facilities
- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions

#### **Problem Statement:**

- 138 kV line 8604 is currently normally open at Bradley
- The Bradley / Kankakee area serves 335 MW of load from two lines
- Line 8604 has 3.5 miles of 40 year old 636 kCMIL ACSR conductor on 80 year old wood H-frames.
  - Wood poles, crossarms, braces, and insulators are nearing the end of their useful life







Need Number: ComEd-2021-001

**Process Stage:** Solutions Meeting March 19, 2021

**Proposed Solution:** 

 Rebuild 3.5 miles of line 8604 on steel poles with 1113 kcmil ACSR conductor

Normally close 138 kV line 8604 CB at Bradley

Replace two over dutied 138 kV CBs at Bradley

• CBs are 64 years old and obsolete

Ratings:

•Old: 249/317 New: 351/449 MVA SN/SLTE

•Old: 21 kA New: 63 kA

Estimated cost: \$20M

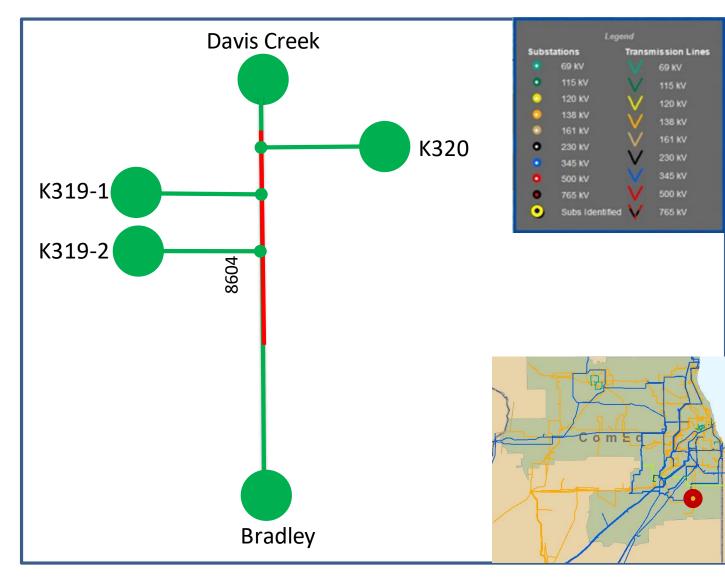
**Alternatives Considered:** 

Do nothing – Operational and material condition concerns remain

**Projected In-Service:** 12/31/23

**Project Status:** Conceptual

Model: 2025 RTEP







Need Number: ComEd-2021-002

**Process Stage:** Solutions Meeting April 16, 2021

Previously Presented: March 19, 2021

**Project Driver:** 

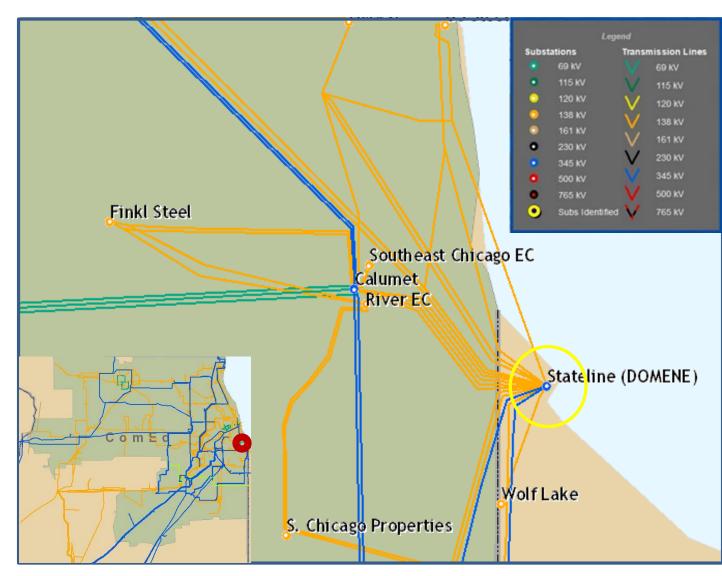
Operational Flexibility and Efficiency

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

- Enhancing system functionality, flexibility, visibility, or operability
- Internal and/or regulatory recommended design guidelines or standards

#### **Problem Statement:**

- 138 kV line 0708 is directly connected to center bus at State Line substation without a circuit breaker.
- A fault on line 0708 separates the 2 other 138 kV buses.





### ComEd Transmission Zone M-3 Process 138 kV Line 0708

Need Number: ComEd-2021-002

**Process Stage:** Solutions Meeting April 16, 2021

**Proposed Solution:** 

Install 138 kV CB on line 0708

Estimated cost: \$2.6M

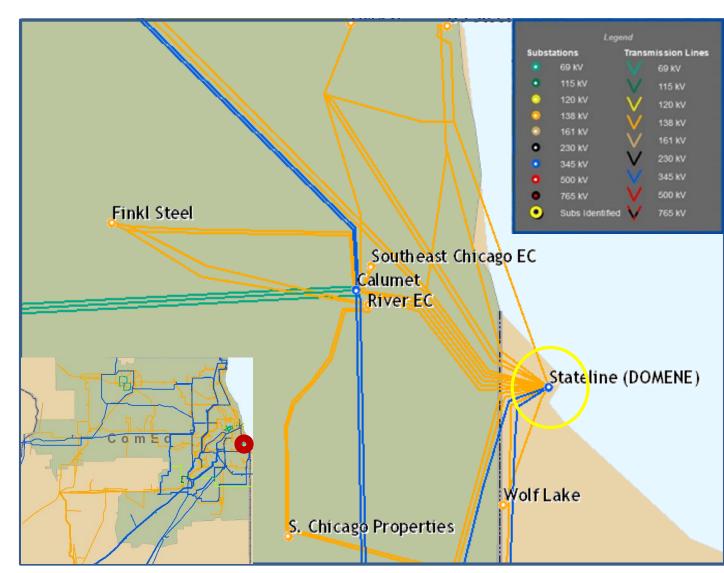
#### **Alternatives Considered:**

1. Do nothing – operational issue remains

**Projected In-Service:** 12/31/22

**Project Status:** Conceptual

Model: 2025 RTEP



# Appendix

# High Level M-3 Meeting Schedule

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|------------------------------|-----------|
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| Assum                        | DUUHS     |
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| 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**

4/06/2021 – V1 – Original version posted to pjm.com