

# **Greggs Substation Rebuild**

TCA Submittal Presentation ES-22-TCA-38 ISO-NE ACL #351

NEPOOL Reliability Committee Meeting

May 16<sup>th</sup>, 2023

## EVERS\(\Rightarrow\)URCE

### **Agenda**

- Project Background
- Project Drivers
- Project Location
- Project Summary of Work

# EVERS=URCE ENERGY

### **Project Background**

- This presentation covers an asset condition project to rebuild the Greggs Substation located in Goffstown, NH
  - Project was presented at the October 15th, 2022 PAC meeting
- Project Background
  - Greggs Substation was built in 1945 (77 years old) as a dual straight bus design which supports seven 115 kV transmission lines (all PTF)
- Substation suffers from a substantial number of asset condition issues in the control house and substation yard
  - Substation yard Foundation deterioration, rusting of steel members, ground system deterioration, and 115 kV center break disconnect switches and drive pipe flexing
  - Control house Capacity issues, overloading or cable trays, and asbestos contamination



#### **Project Drivers - Asset Condition**



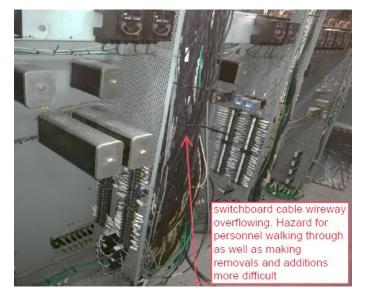
Foundation deterioration



Overflowing cable trays



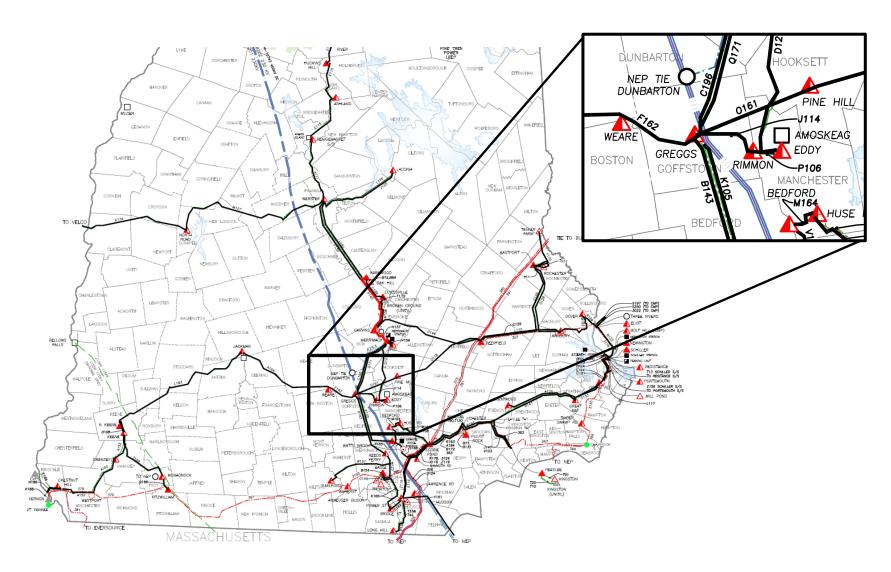
Steel member deterioration



Overflowing switchboard

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#### **Project Location**





### **Project Scope – Preferred Solution**



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#### **Summary**

- Rebuild Greggs Substation (Goffstown, NH) currently dual straight bus design, as a breaker-and-a-half air-insulated substation on land adjacent to existing substation
  - Addresses all asset condition project drivers and increases overall system reliability at lowest cost
  - Meets all current ISO PP9 requirements and guidelines for Major Substation design
  - Room for future expansion and less costly ongoing maintenance
- Total Estimated PTF Cost: \$72.193M (+/- 10%)
- In-service Date: December 2024





