Date Filed: April 10, 2026

Witness: Soderman, Angela M, GLADEY, DAVID L
Request from: Process Monitor

Question:

Regarding Financial Data Requirement #4 (Attachment 17), for all projects exceeding $500,000, please provide additional details to support classifying these projects under the 24-08-08 Final Decision exclusion criteria.

Response:

Project CD02211 is related to the removal of an abandoned distribution pole line located within a right-of-way which includes two highway crossings over I-95. The pole line was constructed in the mid-1960s and has been de-energized for over a decade. A drone patrol of the distribution assets was performed within the right-of-way which identified cracked and rotten crossarms, broken crossarm braces, rotted pole tops, and broken insulators which secure the conductor. Due to the hazardous condition of the de-energized pole line, project CD02211 was created to remove these assets to address any public safety concerns including the two highway crossings over I-95. Therefore, this project met the exclusion criteria based on maintenance, asset condition, and safety as identified in docket 24-08-08.

Projects CD02229 and CD02393 are related to Paper in Lead Cable (PILC) replacements. PILC cable is expected to have a 40- to 50-year in service life. Most of the PILC cable in Connecticut has exceeded its expected service life and are prone to failures. PILC failures can cause customer interruptions and/or place the distribution system into an abnormal circuit configuration for extended durations.

PILC Cable Failure History (2013 to 2023):

Project CD02229 - Circuit 145 PILC replacement – 7 cable failures

Project CD02393 - Circuit 2N18 PILC replacement – 10 cable failures

Therefore, this project met the exclusion criteria based on maintenance and asset condition as identified in docket 24-08-08.

Project CS00606 Glenbrook 1K-2X Transformer Replacement is an asset condition replacement of the existing 61-year-old, General Electric (GE), 115 kV:13.2 kV, 46.7 MVA transformer 1K-2X at Glenbrook substation in Stamford, CT. The Glenbrook 1K-2X transformer was installed in

1964 (61 years old) and is near its end-of-life based on this equipment's short and long-term health indices of 0.29 and 0.60, respectively, as of April 2025, as determined using the Electric Power Research Institute (EPRI) Power Transformer Expert (PTX) tool. Furthermore, the 1K-2X transformer has surpassed the 40-year timeframe customarily regarded as the useful life of a transformer.

In addition to solving asset condition issues at Glenbrook 1K, replacing the 46.7 MVA 1K-2X transformer with a new Eversource standard 62.5 MVA transformer will increase the substation capacity and better allow Glenbrook 1K to meet the increased load demands which are forecasted to exceed 100% of its Load Carrying Capacity (LCC) by the summer of 2026. Per the Distribution System Planning Guide (DSPG 2020),[1] once substation loading exceeds 90% of the LCC rating, a project shall be initiated to increase the LCC (or permanently reduce loading) to accommodate existing and future loads. Glenbrook 1K is forecasted to have a summer 2025 peak load of 92.9 MVA which is 99% of the LCC rating of 93.4 MVA. The 2024 summer peak was 82.6 MVA, 88% of its LCC rating.

Therefore, this project met the exclusion criteria based on maintenance and asset condition as identified in docket 24-08-08.

CS00503 East Meriden 21P Switchgear Replacement is a project for the replacement of the 13.8 kV switchgear with associated circuit breakers (CBs), protection relays, conduits, cabling, and foundations at the East Meriden 21P substation (SS) located in Meriden, CT. Included in the project scope is the replacement of three (3) station service voltage transformers (SSVTs), installation of an updated Distribution Supervisory Control and Data Acquisition (DSCADA) Load Tap Changer (LTC) Automation system, and the replacement of three (3) 115 kV motor operated disconnect (MOD) switches.

The 13.8 kV switchgear was installed in the mid-1970s. In the past years, the foundation has begun to sink unevenly, causing the switchgear to come out of alignment. This has caused difficulty when racking circuit breakers in and out of the cubicles. Correcting the alignment issues requires outages and partial disassembly of the switchgear to realign it. The foundation continues to settle, and realignment is becoming regularly required. The existing switchgear 13.8 kV CBs are vintage 1970s General Electric (GE) model VH-13.8- 500 Vacuum CBs and Westinghouse model 150-DHP-500 air CBs. Both breaker types are obsolete and difficult to maintain due to a lack of spare parts. These breakers will be replaced with new Eaton 150VCP-W40 Vacuum CBs and controls. Substation Engineering, System Planning, and Asset Management have determined the need to replace the 13.8 kV switchgear and associated equipment at East Meriden 21P SS to improve customer and system reliability due to asset conditions and obsolescence of the existing switchgear.

[1] *See* Attachment 1 to Company's response to RSR-001 in this docket.

Therefore, this project met the exclusion criteria based on maintenance and asset condition as identified in docket 24-08-08.