Date Filed: March 31, 2026

Witness: Soderman, Angela M
Request from: Public Utilities Regulatory Authority

Question:

Att. 17. Provide the following for Project CS00606:

a. Explain why the Company is replacing the existing transformer at the substation;
b. Describe whether the transformer the Company is replacing has fully depreciated;
c. Provide the age of the transformer and the results of any internal assessment the Company has undertaken to evaluate the health and remainder-of-life of the transformer;
d. Identify the date on which the Company first identified the grid need;
e. Provide a copy of the initial funding request form;
f. Provide a copy of the solution selection form; and
g. Provide a copy of the project authorization form.

Response:

a. The company is replacing the transformer because the Glenbrook 1K-2X transformer was installed in 1964 (62 years old) and has surpassed the 40-year timeframe customarily regarded as the useful life of a transformer and the health index indicates it is near its end-of-life.
In addition to solving asset condition issues at Glenbrook 1K, replacing the 46.7MVA 1K-2X transformer with a new Eversource standard 62.5MVA 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.

b. Yes, the Glenbrook 1K-2X transformer is over 40 yrs old and is fully depreciated.

c. The transformer is currently 62 years old. Additionally, per the Electric Power Research Institute (EPRI) Power Transformer Expert (PTX) tool the health index indicates it′s 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. The health index is measured in the range of 0 to 1, with 0 meaning healthy and 1 needing immediate replacement. A value greater than .5 is considered poor health. The long-term health index, as well as its age surpassing the 40-

year timeframe customarily regarded as a transformer's useful life, dictates the need for replacement.

d. This need to replace the Glenbrook 1K-2X was approved with an initial funding request on 08/24/22.

e. Reference RSR-012, Attachment 1

f. Reference RSR-012, Attachment 2a and RSR-012, Attachment 2b
g. Reference RSR-012, Attachment 3