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March 31, 2021

Debra Howland  
Executive Director  
New Hampshire Public Utilities Commission  
21 South Fruit Street, Suite 10  
Concord, NH 03301-2429

RE: Docket No. DE 20-161  
Public Service Company of New Hampshire d/b/a Eversource Energy  
  
2020 Least Cost Integrated Resource Plan - Supplement

Dear Director Howland:

On December 1, 2020, the Commission approved a procedural schedule in the above-referenced proceeding reviewing Public Service Company of New Hampshire d/b/a Eversource Energy's ("Eversource" or the "Company") October 1, 2020 Least Cost Integrated Resource Plan ("LCIRP") filing. Pursuant to that schedule, Eversource was to supplement its LCIRP filing by March 31, 2021. Attached are the supplemental materials due for March 31.

At the time the schedule was adopted, the supplemental material was to be four items. As described below, the deadlines for two of those items have been extended. The other two items are described herein:

- As noted in Eversource's October 1, 2020 filing in this docket, Appendix A pages 4-5 (Bates 55-56), consistent with the settlement in Docket No. DE 19-139, Eversource was to provide a detailed non-wires solution ("NWS") analysis for a location selected in consultation with the Commission Staff and Office of Consumer Advocate ("OCA"). As of the date of Eversource's initial filing, that collaborative selection and analysis had not been completed. Since that time, the Loudon Substation was selected for the further analysis. That analysis was completed, and a draft version has been part of initial discussions with the Commission Staff and OCA. The final version of that NWS analysis is included with this submission as Appendix A-2. Additionally, the Company's Non-Wires Alternative Framework, which describes the screening tool used to conduct the Loudon Substation analysis is included as Appendix A-1 to this submission.
  - Also, Eversource has developed a data-driven transformer replacement strategy based on EPRI's PTX (Power Transformer Expert System) tool. This tool incorporates data from a variety of sources, including name plate information, oil analysis, bushing oil sampling, and LTC oil sampling, and delivers insights into three key formats: 1) unit level summary results; 2) fleet level summary results; 3) recommended actions based on root cause analysis. The PTX tool analyzes transformer-related data, including age, from Eversource databases to create a

health index that can be used to prioritize transformers for replacement. Generally, a Long-Term Health Index greater than 0.5 indicates loss of useful life and a potential replacement candidate. The results of the PTX tool were used to help determine the suitability of transformers 31W1 and 31W2 for NWS application in the Loudon Substation analysis (see Appendix A-2). A short introductory presentation on the PTX tool is included in Appendix A.

- As noted in Eversource's October 1, 2020 filing in this docket, Appendix L page 1 (Bates 282), some area planning studies, solution selection forms, and related documentation had been prepared using legacy planning criteria, rather than the criteria in the recently adopted Distribution System Planning Guide (included as Appendix D to the October 1, 2020 submission). Accordingly, the documents pertaining to certain projects needed to be reviewed and revised where appropriate based upon the new planning guide. Eversource committed to providing the revised documents as supplements to its initial filing. Those supplemental documents are included in this submission as Appendices B through F.
  - Of note, similar to other project documentation, some of the documents provided in the Appendices of this supplemental filing, contain confidential redacted information relating to maps and one-line diagrams depicting critical infrastructure of Eversource, as well as switching and status information pertaining to the Company's substation assets. Eversource submits that the information redacted in this filing is of the same type and nature as the information provided with its initial filing, and should be protected pursuant to the motion for confidential treatment submitted on October 1, 2020 in this proceeding.
- In the October 9, 2020 settlement in Docket No. DE 19-057, Eversource's recently completed rate case, Eversource agreed, at Section 11.1, to perform a system assessment at its cost and to submit the results of that assessment as a supplement in this proceeding by March 31, 2021. That assessment is presently underway. On February 4, 2021, Eversource submitted a request in Docket No. DE 19-057 to extend the March 31, 2021 deadline for the assessment to May 31, 2021 in light of information from the vendors that the assessment could not be completed by March 31. On March 26, 2021, the Commission issued Order No. 26,464 granting the requested extension. Accordingly, that material is not included in this supplement.
- In the October 9, 2020 settlement in Docket No. DE 19-057, Eversource's recently completed rate case, Eversource agreed, at Section 11.4, to conduct a survey of its customers regarding their prioritization of reliability and resiliency versus cost and to work collaboratively with Staff and the OCA on development of the survey instruments. The results of the assessment were to be filed in this docket by March 31. Eversource has been, and continues to be, collaborating with the Staff and OCA on the final survey instruments. As that collaboration is on-going, the survey is not complete. On March 15, 2021, Eversource submitted a request in Docket No. DE 19-057 to extend the March 31, 2021 deadline for the survey to April 30, 2021. On March 26, 2021, the Commission issued Order No. 26,464 granting the requested extension. Accordingly, that material is not included in this supplement.

Eversource has been working diligently on the supplemental materials and in this submission Eversource is providing two of the four outstanding supplemental items in this proceeding. The remaining items will be submitted as soon as they are ready. Eversource asks that these items be accepted as supplements to its October 1, 2020 filing and be treated as part of that filing for purposes of this docket.

If you have any questions, please do not hesitate to contact me. Thank you for your assistance with this matter.

Very truly yours,



Matthew J. Fossum  
Senior Regulatory Counsel

Enclosures

CC: Service List