Docket No. DE 20-092 Exhibit 30

Public Service of New Hampshire d/b/a Eversource Energy Docket No. DE 20-092

Date Request Received: 09/17/2020 Date of Response: 10/01/2020

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Request from: New Hampshire Public Utilities Commission Staff

Witness: Tom Palma

## Request:

Unitil: Reference Bates p. 790, for Unitil, please provide p. 13 of Attachment H1 showing a summary of the ADR program similar to Eversource's Bates p.632, (p. 13 of Attachment E1) and Liberty's Bates p. 700 (p. 13 of Attachment F1).

## Response:

Please see Attachment Staff 1-012 for the requested information.

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## **ADR Program Cost-Effectiveness**

| 2021                                    |                                |                                          |                                                   |                                                    |                       |                         |                      |                      |                                  |
|-----------------------------------------|--------------------------------|------------------------------------------|---------------------------------------------------|----------------------------------------------------|-----------------------|-------------------------|----------------------|----------------------|----------------------------------|
|                                         | Ratio<br>Granite State<br>Test | Benefit (\$000)<br>Granite State<br>Test | Utility Costs<br>(\$000 -<br>2021\$) <sup>1</sup> | Customer<br>Costs (\$000 -<br>2021\$) <sup>1</sup> | Annual MWh<br>Savings | Lifetime<br>MWh Savings | Winter kW<br>Savings | Summer kW<br>Savings | Number of<br>Customers<br>Served |
| Residential Programs                    |                                |                                          |                                                   |                                                    |                       |                         |                      |                      |                                  |
| A5 - Residential Active Demand Response | 0.79                           | 27.1                                     | 34.5                                              | -                                                  | -                     | -                       | -                    | 125.0                | 125                              |
| Sub-Total Residential                   | 0.79                           | 27.1                                     | 34.5                                              | -                                                  | -                     | -                       | -                    | 125.0                | 125                              |
| Commercial, Industrial & Municipal      |                                |                                          |                                                   |                                                    |                       |                         |                      |                      |                                  |
| C5 - C&I Active Demand Response         | 3.21                           | 442.9                                    | 138.0                                             | -                                                  | (2.6)                 | (2.6)                   | -                    | 1,900.0              | 19                               |
| Sub-Total Commercial & Industrial       | 3.21                           | 442.9                                    | 138.0                                             | -                                                  | (2.6)                 | (2.6)                   | -                    | 1,900.0              | 19                               |
| Total                                   | 2.72                           | 470.0                                    | 172.5                                             | -                                                  | (2.6)                 | (2.6)                   | -                    | 2,025.0              | 144                              |

(1) Utility and Customer Costs in 2021 Dollars

| 2022                                    |                                |                                          |                                                   |                                                    |                       |                         |                      |                      |                                  |
|-----------------------------------------|--------------------------------|------------------------------------------|---------------------------------------------------|----------------------------------------------------|-----------------------|-------------------------|----------------------|----------------------|----------------------------------|
|                                         | Ratio<br>Granite State<br>Test | Benefit (\$000)<br>Granite State<br>Test | Utility Costs<br>(\$000 -<br>2021\$) <sup>1</sup> | Customer<br>Costs (\$000 -<br>2021\$) <sup>1</sup> | Annual MWh<br>Savings | Lifetime<br>MWh Savings | Winter kW<br>Savings | Summer kW<br>Savings | Number of<br>Customers<br>Served |
| Residential Programs                    |                                |                                          |                                                   |                                                    |                       |                         |                      |                      |                                  |
| A5 - Residential Active Demand Response | 1.02                           | 41.6                                     | 40.9                                              | -                                                  | -                     | -                       | -                    | 187.5                | 188                              |
| Sub-Total Residential                   | 1.02                           | 41.6                                     | 40.9                                              | -                                                  | -                     | -                       | -                    | 187.5                | 188                              |
| Commercial, Industrial & Municipal      |                                |                                          |                                                   |                                                    |                       |                         |                      |                      |                                  |
| C5 - C&I Active Demand Response         | 3.82                           | 541.3                                    | 141.8                                             | -                                                  | (2.6)                 | (2.6)                   | -                    | 2,300.0              | 23                               |
| Sub-Total Commercial & Industrial       | 3.82                           | 541.3                                    | 141.8                                             | -                                                  | (2.6)                 | (2.6)                   | -                    | 2,300.0              | 23                               |
| Total                                   | 3.19                           | 582.8                                    | 182.7                                             | -                                                  | (2.6)                 | (2.6)                   | -                    | 2,487.5              | 211                              |

(1) Utility and Customer Costs in 2021 Dollars and will not equal the nominal costs presented in the Costs tab.

| 2023                                    |                                                |                                          |                                                   |                                                    |                       |                         |                      |                      |                                  |
|-----------------------------------------|------------------------------------------------|------------------------------------------|---------------------------------------------------|----------------------------------------------------|-----------------------|-------------------------|----------------------|----------------------|----------------------------------|
|                                         | Benefit/Cost<br>Ratio<br>Granite State<br>Test | Benefit (\$000)<br>Granite State<br>Test | Utility Costs<br>(\$000 -<br>2021\$) <sup>1</sup> | Customer<br>Costs (\$000 -<br>2021\$) <sup>1</sup> | Annual MWh<br>Savings | Lifetime<br>MWh Savings | Winter kW<br>Savings | Summer kW<br>Savings | Number of<br>Customers<br>Served |
| Residential Programs                    |                                                |                                          |                                                   |                                                    |                       |                         |                      |                      |                                  |
| A5 - Residential Active Demand Response | 1.20                                           | 56.5                                     | 47.1                                              | -                                                  | -                     | -                       | -                    | 250.0                | 250                              |
| Sub-Total Residential                   | 1.20                                           | 56.5                                     | 47.1                                              | -                                                  | -                     | -                       | -                    | 250.0                | 250                              |
| Commercial, Industrial & Municipal      |                                                |                                          |                                                   |                                                    |                       |                         |                      |                      |                                  |
| C5 - C&I Active Demand Response         | 3.95                                           | 641.9                                    | 162.7                                             | -                                                  | (2.6)                 | (2.6)                   | -                    | 2,700.0              | 27                               |
| Sub-Total Commercial & Industrial       | 3.95                                           | 641.9                                    | 162.7                                             | -                                                  | (2.6)                 | (2.6)                   | -                    | 2,700.0              | 27                               |
| Total                                   | 3.33                                           | 698.4                                    | 209.8                                             | -                                                  | (2.6)                 | (2.6)                   | -                    | 2,950.0              | 277                              |

(1) Utility and Customer Costs in 2021 Dollars and will not equal the nominal costs presented in the Costs tab.