

Witness: Warshaw

## **Schedules**

|                |   |
|----------------|---|
| Schedule JDW-1 | Summary of Transmission Expenses Estimated for 2021                             |
| Schedule JDW-2 | Summary of ISO Tariff Section II Charges Estimated for 2021                     |
| Schedule JDW-3 | Summary of System Restoration and Reactive Supply<br>Charges Estimated for 2021 |
| Schedule JDW-4 | Summary of New England Power Schedule No. 21 Charges<br>Estimated for 2021      |

**Summary of Transmission Expenses  
Estimated For the Year 2021**

|  |   |                     |
|--|---|---------------------|
| <b>ISO-NE Tariff Schedule 21 NEP LNS Tariff Charges</b>        |   |                     |
| 1  | Local Network Service (Monthly Demand Charges)                | \$4,894,564         |
| 2  | Other NEP Charges   | <u>1,189,581</u>    |
|  | <b>Subtotal NEP Charges</b>                                   | <u>\$6,084,144</u>  |
| <br><b>ISO-NE OATT Tariff Section II Charges</b>               |   |                     |
| 3  | OATT Schedule 9 - Regional Network Service Charges            | \$19,884,162        |
| 4  | OATT Schedule 1 - Scheduling, System Control & Dispatch       | 257,564             |
| 5  | OATT Schedule 16 - System Restoration and Planning Service    | 182,049             |
| 6  | OATT Schedule 2 - Reactive Supply and Voltage Control Service | <u>128,922</u>      |
|  | <b>Subtotal ISO-NE Tariff Section II Charges</b>              | <u>\$20,452,697</u> |
| <br><b>ISO-NE Tariff Section IV.A - Administrative Charges</b> |   |                     |
| 7  | ISO-NE Schedule 1 - Scheduling & Dispatch Service             | \$343,255           |
| 8  | ISO-NE Schedule 5 - NESCOE Budget                             | <u>11,086</u>       |
|  | <b>Subtotal ISO-NE Tariff Section IV.A Charges</b>            | <u>\$354,341</u>    |
| 9  | <b>Subtotal of ISO-NE Tariff Charges</b>                      | <u>\$20,807,038</u> |
| 10   | <b>Total Estimated Expenses Flowing Through Current Rates</b> | \$26,891,183        |

Line 1 = JDW-4: Column (1), Line 13  
 Line 2 = JDW-4: Sum of Column (2) thru (6), Line 13  
 Line 3 = JDW-2, page 1: Column (2), Line 13  
 Line 4 = JDW-2, page 1: Column (3), Line 13  
 Line 5 = JDW-2, page 1: Column (5), Line 13  
 Line 6 = JDW-2, page 1: Column (6), Line 13  
 Line 7 = JDW-2, page 2: Column (2), Line 13  
 Line 8 = JDW-2, page 2: Column (3), Line 13  
 Line 9 = Sum of Line 3 thru Line 8  
 Line 10 = Sum of Line 1 thru Line 8

**Summary of Estimated Transmission Expenses  
2020 vs. 2021 Filing Years**

|  | 1<br>2020<br>Retail Filing               | 2<br>2021<br>Estimate | 3<br>Yr/Yr<br>Incr/(Decr) |
|--|--|-----------------------|---------------------------|
| <b>ISO-NE Tariff Schedule 21 NEP LNS Tariff Charges</b>    |  |                       |                           |
| 1  | \$ 4,184,278                             | \$ 4,894,564          | \$ 710,286                |
| 2  | 1,201,811                                | 1,189,581             | (12,230)                  |
|  | <b>Subtotal</b>                          |                       |                           |
|  | \$ 5,386,088                             | \$ 6,084,144          | \$ 698,056                |
| <b>ISO-NE OATT Tariff Section II Charges</b>               |  |                       |                           |
| 3  | \$ 17,035,068                            | \$ 19,884,162         | \$ 2,849,094              |
| 4  | 232,222                                  | 257,564               | 25,342                    |
| 5  | 129,941                                  | 182,049               | 52,109                    |
| 6  | 124,694                                  | 128,922               | 4,228                     |
|  | <b>Subtotal</b>                          |                       |                           |
|  | \$ 17,521,924                            | \$ 20,452,697         | \$ 2,930,773              |
| <b>ISO-NE Tariff Section IV.A - Administrative Charges</b> |  |                       |                           |
| 7  | \$ 308,255                               | \$ 343,255            | \$ 35,000                 |
| 8  | 15,425                                   | 11,086                | (4,339)                   |
|  | <b>Subtotal</b>                          |                       |                           |
|  | \$ 323,680                               | \$ 354,341            | \$ 30,661                 |
| 9  | <b>Subtotal of ISO-NE Tariff Charges</b> |                       |                           |
|  | \$ 17,845,604                            | \$ 20,807,038         | \$ 2,961,434              |
| 10   | <b>Total Estimated Expenses</b>          |                       |                           |
|  | \$ 23,231,692                            | \$ 26,891,183         | \$ 3,659,490              |

**Summary of ISO-NE Tariff Section II Charges  
Estimated For the Year 2021**

|                       | (1)                 | (2)  | (3)   | (4)  | (5)   | (6)                                   | (7)   | (8)                               | (9)                               |
|-----------------------|---------------------|--|---|--|---|---------------------------------------|---|-----------------------------------|-----------------------------------|
|                       | Monthly PTF kW Load | OATT Schedule 9 - Regional Network Service Charges | OATT Schedule 1 - System Control & Dispatch | OATT Schedule 16 - System Restoration and Planning Service | OATT Schedule 2 - Reactive Supply and Voltage Control Service | ISO-NE OATT Tariff Section II Charges | ISO-NE Schedule 1 - Scheduling & Dispatch Service | ISO-NE Schedule 5 - NESCOE Budget | Total ISO-NE Transmission Charges |
| 1 January             | 139,406             | 1,501,656  | 20,275                                      | 14,331   | 10,149  | 1,546,411                             | 27,021  | 873                               | 1,574,305                         |
| 2 February            | 132,723             | 1,429,668  | 19,303                                      | 13,644   | 9,662   | 1,472,278                             | 25,726  | 831                               | 1,498,834                         |
| 3 March               | 122,214             | 1,316,467  | 17,775                                      | 12,564   | 8,897   | 1,355,703                             | 23,689  | 765                               | 1,380,157                         |
| 4 April               | 110,821             | 1,193,744  | 16,118                                      | 11,392   | 8,068   | 1,229,322                             | 21,480  | 694                               | 1,251,496                         |
| 5 May                 | 155,770             | 1,677,926  | 22,655                                      | 16,013   | 11,340  | 1,727,935                             | 30,193  | 975                               | 1,759,103                         |
| 6 June                | 179,865             | 2,068,448  | 26,160                                      | 18,490   | 13,094  | 2,126,192                             | 34,863  | 1,126                             | 2,162,181                         |
| 7 July                | 191,231             | 2,199,157  | 27,813                                      | 19,659   | 13,922  | 2,260,550                             | 37,066  | 1,197                             | 2,298,813                         |
| 8 August              | 190,297             | 2,188,416  | 27,677                                      | 19,563   | 13,854  | 2,249,509                             | 36,885  | 1,191                             | 2,287,585                         |
| 9 September           | 154,018             | 1,771,207  | 22,401                                      | 15,833   | 11,213  | 1,820,653                             | 29,853  | 964                               | 1,851,471                         |
| 10 October            | 118,810             | 1,366,315  | 17,280                                      | 12,214   | 8,649   | 1,404,458                             | 23,029  | 744                               | 1,428,231                         |
| 11 November           | 134,212             | 1,543,438  | 19,520                                      | 13,797   | 9,771   | 1,586,526                             | 26,014  | 840                               | 1,613,380                         |
| 12 December           | 141,541             | 1,627,722  | 20,586                                      | 14,550   | 10,304  | 1,673,162                             | 27,435  | 886                               | 1,701,483                         |
| <b>13 12-Mo Total</b> |                     | <b>\$19,884,162</b>                                | <b>\$257,564</b>                            | <b>\$182,049</b>   | <b>\$128,922</b>  | <b>\$20,452,697</b>                   | <b>\$343,255</b>                                  | <b>\$11,086</b>                   | <b>\$20,807,038</b>               |

Line 1-12: Column (1) = 2019 Monthly Coincident Network Load of LU

Line 1-5: Column (2) = June 1, 2020 OATT Schedule 9 RNS Rate \* Column (1) / 12

2020 RNS Rate= \$ 129.26 /kW-YR

Line 6-12: Column (2) = Estimated June 1, 2021 RNS Rate \* Column (1) / 12

2021 RNS Rate= \$ 138.00 /kW-YR

Line 1-12: Column (3) = Current OATT Schedule 1 Rate \* Column (1) / 12

Rate = \$ 1.74530 /kW-YR

Line 1-12: Column (4) = 0 [No Reliability Must Run Contracts are currently in effect for New Hampshire]

Line 1-12: Column (4) = JDW-3, Line 8 \* Column (1)

Rate = \$ 0.10280 /kW-Month

Line 1-12: Column (5) = JDW-3, Line 4 \* Column (1)

Rate = \$ 0.07280 /kW-Month

Line 1-12: Column (6) = Sum of Columns (2) thru (5)

Line 1-12: Column (7) = JDW-2 Column (2)

Rate = \$ 0.19383 kW-month

Line 1-12: Column (8) = JDW-2 Column (3)

Rate = \$ 0.00626 kW-month

Line 1-12: Column (9) = Sum of Columns (6) thru (8)

Line 13 = Sum of Line 1 thru Line 12

**Summary of ISO Tariff Section IV.A Administrative Charges  
Estimated For the Year 2021**

| Period      | (1)<br>Monthly Regional<br>Network Load | (2)<br>ISO-NE Schedule 1 -<br>Scheduling &<br>Dispatch Service | (3)<br>ISO-NE Schedule 5 -<br>NESCOE Budget | (4)<br>Section IV.A -<br>Administrative<br>Charges |
|-------------|---|--|---|--|
| 1 January   | 139,406                                 | \$27,021   | \$873                                       | \$27,894   |
| 2 February  | 132,723                                 | 25,726   | 831   | 26,557   |
| 3 March     | 122,214                                 | 23,689   | 765   | 24,454   |
| 4 April     | 110,821                                 | 21,480   | 694   | 22,174   |
| 5 May       | 155,770                                 | 30,193   | 975   | 31,168   |
| 6 June      | 179,865                                 | 34,863   | 1,126                                       | 35,989   |
| 7 July      | 191,231                                 | 37,066   | 1,197                                       | 38,263   |
| 8 August    | 190,297                                 | 36,885   | 1,191                                       | 38,077   |
| 9 September | 154,018                                 | 29,853   | 964   | 30,817   |
| 10 October  | 118,810                                 | 23,029   | 744   | 23,773   |
| 11 November | 134,212                                 | 26,014   | 840   | 26,854   |
| 12 December | 141,541                                 | 27,435   | 886   | 28,321   |
| 13          | <b>Totals</b>                           | <b>\$343,255</b>   | <b>\$11,086</b>                             | <b>\$354,341</b>                                   |

Column (1) = 2019 Monthly Coincident Network Load of LU

Column (2) = Column (1) \* \$0.19383 per kW-month per ISO 2021 Capital Budget Filing      \$      0.19383

Column (3) = Column (1) \* \$0.00626 per kW-month per NESCOE 2021 Budget Filing      \$      0.00626

Column (4) = Column (2) + Column (3)

**Summary of Reactive Power & Black Start Costs  
Estimated For the Year 2021**

**Section I: Development of ISO-NE Schedule 2 Costs**

|   |                                       |           |
|---|---------------------------------------|-----------|
| 1 | Granite Total ISO-NE Schedule 2 Costs | \$167,153 |
| 2 | 2020 Granite Peak Load (KW)           | 191,231   |
|   |                                       | <hr/>     |
| 3 | Estimated Rate / KW-Yr                | \$0.8741  |
|   |                                       | <hr/>     |
| 4 | Estimated Rate / KW-Mo                | \$0.0728  |

**Section II: Development of ISO-NE Schedule 16 Costs**

|   |   |           |
|---|---|-----------|
| 5 | Granite Total ISO-NE Schedule 16 Settlement Costs | \$235,908 |
| 6 | 2020 Granite Peak Load (KW)                       | 191,231   |
|   |   | <hr/>     |
| 7 | Estimated Rate / KW-Yr                            | \$1.2336  |
|   |   | <hr/>     |
| 8 | Estimated Rate / KW-Mo                            | \$0.1028  |

Line 1 = Granite ISO-NE Schedule 2 costs for the 12 months ending December 2020

Line 2 = Granite Peak Load in 2020

Line 3 = Line 1 / Line 2

Line 4 = Line 3 / 12

Line 5 = ISO Schedule 16 Settlement Reports for the 12 months ending December 2020

Line 6 = Line 5

Line 7 = Line 5 / Line 6

Line 8 = Line 7 / 12

**Summary of New England Power - Schedule No. 21 Charges  
Estimated For the Year 2021**

| Period                 | (1)<br>Net Monthly<br>Demand<br>Charge | (2)<br>Load<br>Dispatch<br>Charge | (3)<br>Specific<br>Distribution | (4)<br>Transformer<br>Surcharge | (5)<br>Meter<br>Surcharge | (6)<br>Maintenance<br>Service<br>Credit | (7)<br>Total<br>NEP Costs |
|------------------------|--|-----------------------------------|---------------------------------|---------------------------------|---------------------------|---|---------------------------|
| 1 January              | 407,880                                | 7,861                             | 16,638                          | 75,640                          | 1,074                     | (2,081)                                 | 507,012                   |
| 2 February             | 407,880                                | 7,861                             | 16,638                          | 75,640                          | 1,074                     | (2,081)                                 | 507,012                   |
| 3 March                | 407,880                                | 7,861                             | 16,638                          | 75,640                          | 1,074                     | (2,081)                                 | 507,012                   |
| 4 April                | 407,880                                | 7,861                             | 16,638                          | 75,640                          | 1,074                     | (2,081)                                 | 507,012                   |
| 5 May                  | 407,880                                | 7,861                             | 16,638                          | 75,640                          | 1,074                     | (2,081)                                 | 507,012                   |
| 6 June                 | 407,880                                | 7,861                             | 16,638                          | 75,640                          | 1,074                     | (2,081)                                 | 507,012                   |
| 7 July                 | 407,880                                | 7,861                             | 16,638                          | 75,640                          | 1,074                     | (2,081)                                 | 507,012                   |
| 8 August               | 407,880                                | 7,861                             | 16,638                          | 75,640                          | 1,074                     | (2,081)                                 | 507,012                   |
| 9 September            | 407,880                                | 7,861                             | 16,638                          | 75,640                          | 1,074                     | (2,081)                                 | 507,012                   |
| 10 October             | 407,880                                | 7,861                             | 16,638                          | 75,640                          | 1,074                     | (2,081)                                 | 507,012                   |
| 11 November            | 407,880                                | 7,861                             | 16,638                          | 75,640                          | 1,074                     | (2,081)                                 | 507,012                   |
| 12 December            | 407,880                                | 7,861                             | 16,638                          | 75,640                          | 1,074                     | (2,081)                                 | 507,012                   |
| <b>13 12- Mo Total</b> | <b>\$4,894,564</b>                     | <b>\$94,336</b>                   | <b>\$199,651</b>                | <b>\$907,681</b>                | <b>\$12,885</b>           | <b>-\$24,972</b>                        | <b>\$6,084,144</b>        |

Column (1) = Monthly Average of the PTF & Non-PTF Monthly Demand Charges for the 12 month period ending December 2020

Column (2) = Monthly Average of the Load Dispatch Charge for the 12 month period ending December 2020

Column (3) = 23,768 kW & \$0.70 per NEP Tariff as of June 1, 2020

Column (4) = 193,949 kW & \$0.39 per NEP Tariff as of June 1, 2020

Column (5) = 17 meters \* \$63.16 per meter per NEP Tariff as of June 1, 2020

Column (6) Per the Integrated Facilities Supplement dated July 3, 2012 between NEP and Granite State

Column (7) = Sum of Columns (1) through (6)

**Comparison of Actual LNS Transmission Expenses  
For the Years 2019 and 2020**

| NEP Schedule 21 Actual Expenses |   |   |   |                            |                                       |                           |
|---------------------------------|---|---|---|----------------------------|---------------------------------------|---------------------------|
|                                 |   |   |   |                            |                                       | (1)                       |
|                                 | Coincident<br>Network<br>Load - PTF           | NEP<br>Monthly<br>Demand<br>Charge -<br>PTF | NEP<br>Monthly<br>Demand<br>Charge -<br>NON-PTF | Load<br>Dispatch<br>Charge | Sum of<br>Other NEP<br>LNS<br>Charges | Non-PTF<br><br>Sch 21-NEP |
| January-2019                    | 152,467                                       | 28,718                                      | 380,791   | (222)                      | 83,623                                | \$492,909                 |
| February-2019                   | 135,924                                       | (134,556)                                   | 356,600   | (2,028)                    | 82,505                                | \$302,521                 |
| March-2019                      | 135,529                                       | (44,499)                                    | 371,670   | 3,512                      | 83,642                                | \$414,324                 |
| April-2019                      | 119,726                                       | 36,375                                      | 402,859   | 2,455                      | 86,648                                | \$528,337                 |
| May-2019                        | 131,552                                       | 132,703                                     | 419,292   | 1,984                      | 123,786                               | \$677,766                 |
| June-2019                       | 161,645                                       | 116,843                                     | 410,126   | 3,563                      | 95,777                                | \$626,309                 |
| July-2019                       | 188,300                                       | (92,989)                                    | 366,364   | (211)                      | 95,782                                | \$368,946                 |
| August-2019                     | 184,624                                       | (257,527)                                   | 395,462   | (8,008)                    | 94,586                                | \$224,513                 |
| September-2019                  | 147,737                                       | (259,231)                                   | 375,267   | (5,164)                    | 96,007                                | \$206,879                 |
| October-2019                    | 112,715                                       | (8,805)                                     | 374,654   | 57,400                     | 95,613                                | \$518,861                 |
| November-2019                   | 135,261                                       | 30,053                                      | 354,726   | 310                        | 96,772                                | \$481,861                 |
| December-2019                   | 143,385                                       | 43,514                                      | 385,870   | (1,172)                    | 96,427                                | \$524,639                 |
|                                 |   |   | <b>4,184,278</b>                                | <b>\$52,419</b>            | <b>\$1,131,168</b>                    | <b>\$5,367,865</b>        |
| January-2020                    | 139,406                                       | 19,379                                      | 417,133   | 6,634                      | 95,676                                | \$538,822                 |
| February-2020                   | 132,723                                       | 55,175                                      | 418,323   | 4,715                      | 95,704                                | \$573,916                 |
| March-2020                      | 122,214                                       | 74,059                                      | 390,913   | 9,512                      | 93,748                                | \$568,231                 |
| April-2020                      | 110,821                                       | 156,215                                     | 409,358   | 1,853                      | 93,487                                | \$660,912                 |
| May-2020                        | 155,770                                       | 385,138                                     | 541,977   | 3,150                      | 95,767                                | \$1,026,032               |
| June-2020                       | 179,865                                       | 256,028                                     | 485,455   | 7,156                      | 91,254                                | \$839,894                 |
| July-2020                       | 191,231                                       | (276,592)                                   | 390,042   | 1,100                      | 91,201                                | \$205,751                 |
| August-2020                     | 190,297                                       | (373,837)                                   | 442,779   | (853)                      | 89,547                                | \$157,636                 |
| September-2020                  | 154,018                                       | (323,575)                                   | 460,727   | 347                        | 91,410                                | \$228,910                 |
| October-2020                    | 118,810                                       | (115,244)                                   | 406,717   | 23,804                     | 90,884                                | \$406,162                 |
| November-2020                   | 134,212                                       | 69,126                                      | 420,938   | 33,844                     | 61,270                                | \$585,179                 |
| December-2020                   | 141,541                                       | (154,842)                                   | 339,172   | 3,073                      | 92,932                                | \$280,335                 |
|                                 |   |   | <b>4,894,564</b>                                | <b>\$94,336</b>            | <b>\$1,082,881</b>                    | <b>\$6,071,780</b>        |
|                                 | % increase in NEP Expenses from previous year |   |   |                            |                                       | 13%                       |