UNITIL ENERGY SYSTEMS, INC.

Hurricane Sandy (October 2012) Incremental Cost - Recovery
Calculation of Increment to the Storm Recovery Adjustment Factor
Effective May 1, 2013

| Description | Amount |
| :--- | ---: |
|  |  |
| Incremental Annual Recovery (Page 2) | $\$$ |
| Sales (kWh) - 12 months ending December 31, 2012 | 639,703 |
| Storm Recovery Adjustment Factor (Increment)* | $\$=1,201,472,661$ |

* To be added to the current Storm Recovery Adjustment Factor of $\$ 0.00178$ per kWh.

UNITIL ENERGY SYSTEMS, INC. Hurricane Sandy (October 2012) - Recovery Schedule


Column
Notes
(A) Time period
(B) Prior period Column (D) + Prior period Column (G)
(C) Annual Recovery
(D) Column (B) - Column (C)
(E) $\quad$ ( Column (B) + Column (D) ) $\div 2$
(F) UES' Cost of Debt net of deferred taxes
(G) Column (E) times Column (F)
(H) Prior Year Column (H) + Current Year Column (G)

UNITIL ENERGY SYSTEMS, INC.
Hurricane Sandy (October 2012) Estimated Incremental Costs

|  | $\frac{\text { Month }}{(A)}$ | Beginning Balance (B) |  | Sandy Charges (C) |  | Ending Balance (F) |  | Balance Subject to Interest (G) | Interest $\frac{\text { Rate }}{(\mathrm{H})}$ |  | $\frac{\text { Interest }}{(1)}$ |  | $\frac{\text { Balance }}{(\mathrm{J})}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (1) | Oct - Dec 2012 | \$ | \$ | 2,310,089 | \$ | 2,310,089 | \$ | 1,155,045 | 4.52\% | \$ | 13,123 | \$ | 2,323,212 |
| (2) | Jan - Mar 2013 | \$ 2,323,212 | \$ |  | \$ | 2,323,212 | \$ | 2,323,212 | 4.52\% | \$ | 25,893 | \$ | 2,349,105 |
| (3) | Apr-13 | \$ 2,349,105 | \$ | - | \$ | 2,349,105 | \$ | 2,349,105 | 4.52\% |  | 8,727 | \$ | 2,357,832 |
|  |  |  |  | 2,310,089 |  |  |  |  |  | \$ | 47,743 | \$ | 2,357,832 |

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## STORM RECOVERY ADJUSTMENT FACTOR SCHEDULE SRAF

The Storm Recovery Adjustment Factor ("SRAF") shall be billed by the Company to all customers taking Delivery Service from the Company. The purpose of the SRAF is to recover the costs of certain storms as approved by the Commission. As set out below, the total SRAF is $\$ 0.00231178$ per kWh , which includes the initial SRAF of $\$ 0.00096$ per kWh and the-adjustments of $\$ 0.00082$ per kWh and $\$ 0.00053$ per kWh .

The initial SRAF, which is recovering the costs incurred as result of the December 2008 ice storm and the February 2010 wind storm, was established in the Company's last base rate case, DE 10-055, effective May 1, 2011. The initial SRAF was calculated using a total cost of $\$ 7,651,723$, the combined cost of the 2008 and 2010 storms, inclusive of carrying charges. The total cost is being recovered on a levelized basis of $\$ 1,132,686$ over a period of eight years. Any unamortized balance will accrue carrying charges at an annual rate of 4.52 percent (equaling the Company's cost of debt of 7.60 percent, net of deferred taxes). Based on test year unit sales in DE 10-055, the initial SRAF was set at $\$ 0.00096$ per kWh and will remain in place until these storm costs have been fully recovered.
| The initial SRAF wasill be adjusted effective May 1, 2012 to recover the costs incurred as result of Tropical Storm Irene, which occurred in August 2011, and the Snow Storm, which occurred in October 2011. The adjustment was calculated using a total cost of $\$ 4,524,136$, the estimated combined cost of the 2011 storms, inclusive of carrying charges. The total cost is being recovered on a levelized basis of $\$ 1,004,291$ over a period of five years. Any unamortized balance will accrue carrying charges at an annual rate of 4.52 percent (equaling the Company's cost of debt of 7.60 percent, net of deferred taxes). Based on actual unit sales for twelve months ending October 2011, the adjustment wasis set at $\$ 0.00082$ per kWh and will remain in place until these storm costs have been fully recovered. The amounts subject to recovery shall be reconciled based on the results of the Commission Staff's Audit.

A second adjustment to the SRAF will take place effective May 1, 2013 to recover the costs incurred as result of Hurricane Sandy, which occurred in October 2012. The adjustment was calculated using a total cost of $\$ 2,357,832$, inclusive of carrying charges. The total cost is being recovered on a levelized basis of $\$ 639,703$ over a period of four years. Any unamortized balance will accrue carrying charges at an annual rate of 4.52 percent (equaling the Company's cost of debt of 7.60 percent, net of deferred taxes). Based on actual unit sales for twelve months ending December 31, 2012, the adjustment is set at $\$ 0.00053$ per kWh and will remain in place until these storm costs have been fully recovered. The amounts subject to recovery shall be reconciled based on the results of the Commission Staff's Audit.

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## STORM RECOVERY ADJUSTMENT FACTOR SCHEDULE SRAF

The Company may petition to change the SRAF should significant over- or underrecoveries occur, or expect to occur. Any adjustment to the SRAF shall be in accordance with a notice filed with the Commission setting forth the amount of the proposed charge and the amount of the increase or decrease. The notice shall further specify the effective date of such charge, which shall not be earlier than forty-five (45) days after the filing of the notice, or such other date as the Commission may authorize.

The Company shall reconcile revenue billed through the SRAF and the amounts subject to recovery, and shall file the results of its recovery with the Commission no later than sixty (60) days after the conclusion of the recovery periods. The disposition of any remaining balances will be subject to Commission review and approval.
| Authorized by NHPUC Order No. 25,351 in Case No. DE $11-277$ dated April 24, 2012
$\left.\begin{array}{|ccccc|}\hline \text { Typical Bill Impacts as a Result of Proposed Rates for May 1, 2013 Storm Recovery Adjustment Factol } \\ \text { Impacts do NOT include the Electricity Consumption Tax } \\ \text { Impact on D Rate Customers }\end{array}\right]$

| Unitil Energy Systems, Inc. <br> Typical Bill Impacts as a Result of Proposed Rates for May 1, 2013 Storm Recovery Adjustment Factol Impacts do NOT include the Electricity Consumption Tax Impact on G2 Rate Customers |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Average |  | Total Bill | Total Bill |  | \% |
| Load Monthly <br> Factor $\underline{k W}$ | Monthly kWh | Using Rates Effective 11/1/2012 | Using Rates Proposed 5/1/2013 | Total Difference | Total Difference |
| 20\% 5 | 730 | \$133.48 | \$133.87 | \$0.39 | 0.3\% |
| 20\% 10 | 1,460 | \$250.00 | \$250.77 | \$0.77 | 0.3\% |
| 20\% 15 | 2,190 | \$366.52 | \$367.68 | \$1.16 | 0.3\% |
| 20\% 25 | 3,650 | \$599.56 | \$601.49 | \$1.93 | 0.3\% |
| 20\% 50 | 7,300 | \$1,182.15 | \$1,186.02 | \$3.87 | 0.3\% |
| 20\% 75 | 10,950 | \$1,764.75 | \$1,770.55 | \$5.80 | 0.3\% |
| 20\% 100 | 14,600 | \$2,347.35 | \$2,355.08 | \$7.74 | 0.3\% |
| 20\% 150 | 21,900 | \$3,512.54 | \$3,524.15 | \$11.61 | 0.3\% |
| 36\% 5 | 1,314 | \$188.61 | \$189.31 | \$0.70 | 0.4\% |
| 36\% 10 | 2,628 | \$360.27 | \$361.66 | \$1.39 | 0.4\% |
| 36\% 15 | 3,942 | \$531.92 | \$534.01 | \$2.09 | 0.4\% |
| 36\% 25 | 6,570 | \$875.23 | \$878.72 | \$3.48 | 0.4\% |
| 36\% 50 | 13,140 | \$1,733.51 | \$1,740.47 | \$6.96 | 0.4\% |
| 36\% 75 | 19,710 | \$2,591.78 | \$2,602.23 | \$10.45 | 0.4\% |
| 36\% 100 | 26,280 | \$3,450.05 | \$3,463.98 | \$13.93 | 0.4\% |
| 36\% 150 | 39,420 | \$5,166.60 | \$5,187.49 | \$20.89 | 0.4\% |
| 50\% 5 | 1,825 | \$236.86 | \$237.83 | \$0.97 | 0.4\% |
| 50\% 10 | 3,650 | \$456.76 | \$458.69 | \$1.93 | 0.4\% |
| 50\% 15 | 5,475 | \$676.65 | \$679.56 | \$2.90 | 0.4\% |
| 50\% 25 | 9,125 | \$1,116.45 | \$1,121.29 | \$4.84 | 0.4\% |
| 50\% 50 | 18,250 | \$2,215.94 | \$2,225.62 | \$9.67 | 0.4\% |
| 50\% 75 | 27,375 | \$3,315.43 | \$3,329.94 | \$14.51 | 0.4\% |
| 50\% 100 | 36,500 | \$4,414.93 | \$4,434.27 | \$19.35 | 0.4\% |
| 50\% 150 | 54,750 | \$6,613.91 | \$6,642.93 | \$29.02 | 0.4\% |
|  | $\begin{gathered} \text { Rates - Effective } \\ 11 / 1 / 2012 \\ \hline \end{gathered}$ | Rates - Proposed 5/1/2013 | Difference |  |  |
| Customer Charge | \$16.96 | \$16.96 | \$0.00 |  |  |
|  | All kW | All kW | All kW |  |  |
| Distribution Charge | \$9.50 | \$9.50 | \$0.00 |  |  |
| Stranded Cost Charge | \$0.02 | \$0.02 | \$0.00 |  |  |
| TOTAL | \$9.52 | \$9.52 | \$0.00 |  |  |
|  | kWh | kWh | kWh |  |  |
| Distribution Charge | \$0.00000 | \$0.00000 | \$0.00000 |  |  |
| External Delivery Charge | \$0.01753 | \$0.01753 | \$0.00000 |  |  |
| Stranded Cost Charge | \$0.00002 | \$0.00002 | \$0.00000 |  |  |
| Storm Recovery Adj. Factor | \$0.00178 | \$0.00231 | \$0.00053 |  |  |
| System Benefits Charge | \$0.00330 | \$0.00330 | \$0.00000 |  |  |
| Default Service Charge | \$0.07178 | \$0.07178 | \$0.00000 |  |  |
| TOTAL | \$0.09441 | \$0.09494 | \$0.00053 |  |  |

$\left.\begin{array}{|cccc|}\hline \text { Typical Bill Impacts as a Result of Proposed Rates for May 1, 2013 Storm Recovery Adjustment Factor } \\ \text { Impacts do NOT include the Electricity Consumption Tax } \\ \text { Impact on G2 kWh Meter Rate Customers }\end{array}\right]$
$\left.\begin{array}{|cccc|}\hline \text { Typical Bill Impacts as a Result of Proposed Rates for May 1, 2013 Storm Recovery Adjustment Factor } \\ \text { Impacts do NOT include the Electricity Consumption Tax } \\ \text { Impact on G2 QRWH and SH Rate Customers }\end{array}\right]$


| Unitil Energy Systems, Inc.Typical Bill Impacts as a Result of Proposed Rates for May 1, 2013 Storm Recovery Adjustment FactorImpacts do NOT include the Electricity Consumption TaxImpact on OL Rate Customers* |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Nominal Watts | Lumens | Type | Average Monthly kWh | Total Bill Using Rates Effective 11/1/2012 | Total Bill <br> Using Rates <br> Proposed 5/1/2013 | Total Difference | \% <br> Total Difference |
| Mercury Vapor: |  |  |  |  |  |  |  |  |
| 1 | 100 | 3,500 | ST | 40 | \$14.17 | \$14.19 | \$0.02 | 0.1\% |
| 2 | 175 | 7,000 | ST | 67 | \$18.91 | \$18.95 | \$0.04 | 0.2\% |
| 3 | 250 | 11,000 | ST | 95 | \$23.42 | \$23.47 | \$0.05 | 0.2\% |
| 4 | 400 | 20,000 | ST | 154 | \$32.01 | \$32.09 | \$0.08 | 0.3\% |
| 5 | 1,000 | 60,000 | ST | 388 | \$72.65 | \$72.85 | \$0.21 | 0.3\% |
| 6 | 250 | 11,000 | FL | 95 | \$24.45 | \$24.50 | \$0.05 | 0.2\% |
| 7 | 400 | 20,000 | FL | 154 | \$33.33 | \$33.41 | \$0.08 | 0.2\% |
| 8 | 1,000 | 60,000 | FL | 388 | \$68.67 | \$68.87 | \$0.21 | 0.3\% |
| 9 | 100 | 3,500 | PB | 40 | \$14.29 | \$14.31 | \$0.02 | 0.1\% |
| 10 | 175 | 7,000 | PB | 67 | \$18.13 | \$18.17 | \$0.04 | 0.2\% |
| High Pressure Sodium: |  |  |  |  |  |  |  |  |
| 11 | 50 | 4,000 | ST | 21 | \$12.59 | \$12.61 | \$0.01 | 0.1\% |
| 12 | 100 | 9,500 | ST | 43 | \$16.17 | \$16.20 | \$0.02 | 0.1\% |
| 13 | 150 | 16,000 | ST | 60 | \$17.83 | \$17.86 | \$0.03 | 0.2\% |
| 14 | 250 | 30,000 | ST | 101 | \$25.12 | \$25.18 | \$0.05 | 0.2\% |
| 15 | 400 | 50,000 | ST | 161 | \$35.20 | \$35.29 | \$0.09 | 0.2\% |
| 16 | 1,000 | 140,000 | ST | 398 | \$73.13 | \$73.34 | \$0.21 | 0.3\% |
| 17 | 150 | 16,000 | FL | 60 | \$19.90 | \$19.93 | \$0.03 | 0.2\% |
| 18 | 250 | 30,000 | FL | 101 | \$26.56 | \$26.62 | \$0.05 | 0.2\% |
| 19 | 400 | 50,000 | FL | 161 | \$34.73 | \$34.82 | \$0.09 | 0.2\% |
| 20 | 1,000 | 140,000 | FL | 398 | \$73.45 | \$73.66 | \$0.21 | 0.3\% |
| 21 | 50 | 4,000 | PB | 21 | \$11.69 | \$11.71 | \$0.01 | 0.1\% |
| 22 | 100 | 95,000 | PB | 43 | \$15.13 | \$15.16 | \$0.02 | 0.2\% |
| Metal Halide: |  |  |  |  |  |  |  |  |
| 23 | 175 | 8,800 | ST | 66 | \$22.50 | \$22.53 | \$0.03 | 0.2\% |
| 24 | 250 | 13,500 | ST | 92 | \$26.50 | \$26.55 | \$0.05 | 0.2\% |
| 25 | 400 | 23,500 | ST | 148 | \$32.49 | \$32.57 | \$0.08 | 0.2\% |
| 26 | 175 | 8,800 | FL | 66 | \$25.24 | \$25.27 | \$0.03 | 0.1\% |
| 27 | 250 | 13,500 | FL | 92 | \$29.31 | \$29.36 | \$0.05 | 0.2\% |
| 28 | 400 | 23,500 | FL | 148 | \$34.64 | \$34.72 | \$0.08 | 0.2\% |
| 29 | 175 | 8,800 | PB | 66 | \$21.37 | \$21.40 | \$0.03 | 0.2\% |
| 30 | 250 | 13,500 | PB | 92 | \$24.86 | \$24.91 | \$0.05 | 0.2\% |
| 31 | 400 | 23,500 | PB | 148 | \$31.36 | \$31.44 | \$0.08 | 0.3\% |
| Luminaire Charges For Year Round Service: |  |  |  |  |  |  |  |  |
| Rates - Effective 11/1/2012 |  |  |  |  |  |  |  |  |
|  |  | Mercury Vapor Rate/Mo. |  |  | Sodium Vapor Rate/Mo. |  | Metal Halide | ate/Mo. |
| Customer Charge | \$0.00 |  |  | \$10.39 | 11 | \$10.61 | 23 | \$16.26 |
|  |  |  |  | \$12.58 | 12 | \$12.11 | 24 | \$17.81 |
|  | All kWh |  |  | \$14.44 | 13 | \$12.16 | 25 | \$18.51 |
| Distribution Charge | \$0.00000 |  |  | \$17.46 | 14 | \$15.58 | 26 | \$19.00 |
| External Delivery Charge | \$0.01753 |  |  | \$35.99 | 15 | \$19.99 | 27 | \$20.62 |
| Stranded Cost Charge | \$0.00009 |  |  | \$15.47 | 16 | \$35.53 | 28 | \$20.66 |
| Storm Recovery Adj. Factor | \$0.00178 |  |  | \$18.78 | 17 | \$14.23 | 29 | \$15.13 |
| System Benefits Charge | \$0.00330 |  |  | \$32.01 | 18 | \$17.02 | 30 | \$16.17 |
| Default Service Charge | \$0.07178 |  |  | \$10.51 | 19 | \$19.52 | 31 | \$17.38 |
|  |  |  |  | \$11.80 | 20 | \$35.85 |  |  |
| total | \$0.09448 |  |  |  | 21 | \$9.71 |  |  |
|  |  |  |  |  | 22 | \$11.07 |  |  |
| Rates - Proposed 5/1/2013 |  |  |  |  |  |  |  |  |
|  |  | Mercury Vapor Rate/Mo. |  |  | Sodium Vapor Rate/Mo. |  | Metal Halide Rate/Mo. |  |
| Customer Charge | \$0.00 |  |  | \$10.39 | 11 | \$10.61 | 23 | \$16.26 |
|  |  |  |  | \$12.58 | 12 | \$12.11 | 24 | \$17.81 |
|  | All kWh |  |  | \$14.44 | 13 | \$12.16 | 25 | \$18.51 |
| Distribution Charge | \$0.00000 |  |  | \$17.46 | 14 | \$15.58 | 26 | \$19.00 |
| External Delivery Charge | \$0.01753 |  |  | \$35.99 | 15 | \$19.99 | 27 | \$20.62 |
| Stranded Cost Charge | \$0.00009 |  |  | \$15.47 | 16 | \$35.53 | 28 | \$20.66 |
| Storm Recovery Adj. Factor | \$0.00231 |  |  | \$18.78 | 17 | \$14.23 | 29 | \$15.13 |
| System Benefits Charge | \$0.00330 |  |  | \$32.01 | 18 | \$17.02 | 30 | \$16.17 |
| Default Service Charge | \$0.07178 |  |  | \$10.51 | 19 | \$19.52 | 31 | \$17.38 |
|  |  |  |  | \$11.80 | 20 | \$35.85 |  |  |
| TOTAL | \$0.09501 |  |  |  | 21 | \$9.71 |  |  |
|  |  |  |  |  | 22 | \$11.07 |  |  |
|  | Difference | Mercury Vapor-Difference |  |  | Sodium Vapor-Difference |  | Metal Halide-Difference |  |
| Customer Charge | \$0.00 |  |  | \$0.00 | 11 | \$0.00 | 23 | \$0.00 |
|  |  |  |  | \$0.00 | 12 | \$0.00 | 24 | \$0.00 |
|  | All kWh |  |  | \$0.00 | 13 | \$0.00 | 25 | \$0.00 |
| Distribution Charge | \$0.00000 |  |  | \$0.00 | 14 | \$0.00 | 26 | \$0.00 |
| External Delivery Charge | \$0.00000 |  |  | \$0.00 | 15 | \$0.00 | 27 | \$0.00 |
| Stranded Cost Charge | \$0.00000 |  |  | \$0.00 | 16 | \$0.00 | 28 | \$0.00 |
| Storm Recovery Adj. Factor | \$0.00053 |  |  | \$0.00 | 17 | \$0.00 | 29 | \$0.00 |
| System Benefits Charge | \$0.00000 |  |  | \$0.00 | 18 | \$0.00 | 30 | \$0.00 |
| Default Service Charge | \$0.00000 |  |  | \$0.00 | 19 | \$0.00 | 31 | \$0.00 |
|  |  |  |  | \$0.00 | 20 | \$0.00 |  |  |
| total | \$0.00053 |  |  |  | 21 | \$0.00 |  |  |
|  |  |  |  |  | 22 | \$0.00 |  |  |

Luminaire charges based on All-Night Service option.

