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August 3, 2018

Via Electronic Mail and Hand Delivery

Luly E. Massaro, Commission Clerk
Rhode Island Public Utilities Commission
89 Jefferson Boulevard
Warwick, RI 02888

RE: Docket 4692 – Standard Offer Service Procurement Plan
Responses to Division Data Requests – Sets 1 and 2

Dear Ms. Massaro:

On behalf of National Grid[1] enclosed are the Company's responses to the first and second sets of data requests issued by the Rhode Island Division of Public Utilities and Carriers in the above-referenced docket.

Thank you for your attention to this filing. If you have any questions concerning this matter, please contact me at 401-457-5164.

Very truly yours,

Adam M. Ramos

AMR:cw
Enclosures

cc: Docket 4692 Service List
Leo Wold, Esq.
Christy Hetherington, Esq.
John Bell

57956550 (57972.177967)

[1] National Grid or the Company.

Division 1-1

Request:

Based on the contracts currently executed for Residential Standard Offer Service, and assuming the remaining procurements for the periods identified in subparts a, b & c below do not change the embedded cost of power, please provide the expected SOS rate and associated bill impacts compared to the current rate assuming the following:

a. A six-month rate – October 2018 through March 2019 as proposed
b. A six-month rate – April 2019 through September 2019 (assuming approval of the currently proposed 6-month rate for the period October 2018 through March 2019)
c. A twelve-month rate – October 2018 through September 2019

Response:

a. Attachment DIV1-1(a) provides the proposed rates and bill impacts resulting from the proposed rates for Residential Standard Offer Service (SOS) for the period October 1, 2018 through March 31, 2019, as presented in Attachments 1 and 3 of the initial filing, respectively.

b. Attachment DIV1-1(b) provides an illustrative Residential SOS rate for the period April 1, 2019 through September 30, 2019. These calculations include contracts executed to date for 55% of the SOS obligation and assume that the remaining procurements for SOS and the estimated NYMEX spot market price for this period do not change the embedded cost of power. Page 1 shows the current average bids, converted to retail rates. Page 2 shows the calculation of the illustrative SOS rate. Pages 3 and 4 show illustrative bill impacts comparing monthly bills based on the proposed October 2018 through March 2019 SOS rate and the illustrative SOS rate calculated on Page 2 for the period April 2019 through September 2019, with all other rates remaining unchanged.

Division 1-1, page 2

c. Attachment DIV1-1(c) provides an illustrative Residential SOS rate for the 12-month period of October 1, 2018 through September 30, 2019. Page 1 shows the current final bids for the period of October 1, 2018 through March 31, 2019, the contracts executed to date for the period of April 1, 2019 through September 30, 2019, and assumes that the remaining procurements for SOS and estimated NYMEX spot market prices will not change the embedded cost of power. Page 2 shows the calculation of the illustrative 12-month SOS rate. Pages 3 and 4 show illustrative bill impacts comparing bills based on currently effective rates and bills based on the illustrative 12-month SOS rate.

The table below summarizes the proposed and illustrative SOS rates and their associated bill impacts for a residential A-16 SOS customer using 500 kWh per month presented in Attachments DIV 1-1(a), DIV 1-1(b), and DIV 1-1(c):

	Proposed Oct. 2018 – Mar. 2019	Illustrative Apr. 2019 – Sep. 2019	Illustrative Oct. 2018 – Sep. 2019
SOS rate	12.129¢/kWh	7.919¢/kWh	9.965¢/kWh
Monthly bill increase/(decrease)	$18.97/19.0%	($21.92)/-18.5%	$7.70/7.7%

The Narragansett Electric Company
d/b/a National Grid

Standard Offer Service Prices (cents per kWh at retail)
Residential Group: October 2018 through March 2019
Commercial Group: October 2018 through March 2019
Industrial Group: October 2018 through December 2018

Power Supply
¢ per kWh

Contract Month	1	2	3	4	5	6
Calendar Month	October	November	December	January	February	March
Year	2018	2018	2018	2019	2019	2019
Customer Group						
Residential (1)	10.062	10.101	11.321	13.838	14.347	11.127
Commercial Group (1)	9.506	9.908	11.691	13.886	14.370	10.951
Industrial Group	8.389	8.748	11.320	n/a	n/a	n/a

Footnotes:

1) Monthly prices calculated as the sum of the average cost of supply (converted to retail delivery) as provided in a confidential submission under separate cover plus estimated cost of providing 10% of Residential and Commercial Customer supply for the period October 2018 through March 2019 through spot market purchases.

The Narragansett Electric Company
d/b/a National Grid
Residential Group Standard Offer Service Charge
(Rates A-16 and A-60)
Based on Weighted Average Effective Standard Offer Service Prices
October 2018 through March 2019

Section 1: Percentage of Residential Customer kWhs Attributable to Standard Offer Service

(1)	Residential Group Standard Offer Service kWhs - June 2018	189,115,621
(2)	Total Residential Group kWhs - June 2018	212,897,283
(3)	Percentage of Residential Group Standard Offer Service kWhs to Total Residential Customer kWhs	88.83%

Section 2: Projected Residential Group Standard Offer Service kWhs

		2018 October (a)	November (b)	December (c)	January (d)	February (e)	March (f)	Total (g)
(4)	Projected Total Company Residential Group kWhs	211,685,376	201,168,881	244,207,153	276,441,428	255,738,535	240,370,533	1,429,611,905
(5)	Percentage of Residential Group Standard Offer Service kWhs to Total Residential Customer kWhs	88.83%	88.83%	88.83%	88.83%	88.83%	88.83%	
(6)	Projected Residential Group Standard Offer Service kWhs	188,040,119	178,698,317	216,929,214	245,562,920	227,172,541	213,521,145	1,269,924,255

Section 3: Weighted Average Residential Group Standard Offer Service Charge

(7)	Projected Residential Group Standard Offer Service kWhs	188,040,119	178,698,317	216,929,214	245,562,920	227,172,541	213,521,145	1,269,924,255
(8)	Estimated Residential Group Standard Offer Service Price per kWh	$0.10062	$0.10101	$0.11321	$0.13838	$0.14347	$0.11127	
(9)	Projected Residential Group Standard Offer Service Cost	$18,920,597	$18,050,317	$24,558,556	$33,980,997	$32,592,444	$23,758,498	$151,861,409
(10)	Weighted Average Residential Group Base Standard Offer Service Charge							$0.11958
(11)	Monthly and Weighted Average Standard Offer Service Base Price per kWh	$0.10062	$0.10101	$0.11321	$0.13838	$0.14347	$0.11127	$0.11958
(12)	Standard Offer Service Administrative Cost Factor	$0.00160	$0.00160	$0.00160	$0.00160	$0.00160	$0.00160	$0.00160
(13)	Standard Offer Adjustment Factor	$0.00007	$0.00007	$0.00007	$0.00007	$0.00007	$0.00007	$0.00007
(14)	Renewable Energy Standard Charge	$0.00004	$0.00004	$0.00004	$0.00004	$0.00004	$0.00004	$0.00004
(15)	Total Estimated Residential Group Standard Offer Service Price per kWh	$0.10233	$0.10272	$0.11492	$0.14009	$0.14518	$0.11298	$0.12129
(16)	Currently Effective Residential Group Standard Offer Service Charge							$0.08486
(17)	Proposed Increase/(Decrease) to Residential Group Standard Offer Service Charge							$0.03643

(1) Per Company revenue reports (Rates A-16 and A-60) - June 2018
(2) Per Company revenue reports (Rates A-16 and A-60) - June 2018
(3) Line (1) ÷ Line (2), rounded to four decimal places
(4) Per Company forecast for Residential Group rates
(5) Line (3)
(6) Line (4) x Line (5)
(7) Line (6)
(8) Attachment 1, Page 1 (truncated to 5 decimal places)
(9) Line (7) x Line (8)
(10) Line (9) total ÷ Line (7) total, truncated after 5 decimal places
(11) Line (8) for monthly prices and Line (10) for weighted average price
(12) per Summary of Rates, Standard Offer Service, RIPUC No. 2096, issued 4/16/18)
(13) per Summary of Rates, Standard Offer Service, RIPUC No. 2096, issued 4/16/18)
(14) per Summary of Rates, Standard Offer Service, RIPUC No. 2096, issued 4/16/18)
(15) Sum of Lines (11) through (14)
(16) per Summary of Rates, Standard Offer Service, RIPUC No. 2096, issued 4/16/18)
(17) Line (15) total - Line (16)

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4692

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to A-16 Rate Customers

	Present Rates				Proposed Rates Effective October 1, 2018				$ Increase (Decrease)				Increase (Decrease) % of Total Bill				Percentage
Monthly kWh	Delivery Services	Supply Services	GET	Total	Delivery Services	Supply Services	GET	Total	Delivery Services	Supply Services	GET	Total	Delivery Services	Supply Services	GET	Total	of Customers
(a)	(b)	(c)	(d)	(e)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)
150	$20.57	$12.73	$1.39	$34.69	$20.57	$18.19	$1.62	$40.38	$0.00	$5.46	$0.23	$5.69	0.0%	15.7%	0.7%	16.4%	30.1%
300	$34.56	$25.46	$2.50	$62.52	$34.56	$36.39	$2.96	$73.91	$0.00	$10.93	$0.46	$11.39	0.0%	17.5%	0.7%	18.2%	12.9%
400	$43.88	$33.94	$3.24	$81.06	$43.88	$48.52	$3.85	$96.25	$0.00	$14.58	$0.61	$15.19	0.0%	18.0%	0.8%	18.7%	11.6%
500	$53.21	$42.43	$3.99	$99.63	$53.21	$60.65	$4.74	$118.60	$0.00	$18.22	$0.75	$18.97	0.0%	18.3%	0.8%	19.0%	9.6%
600	$62.53	$50.92	$4.73	$118.18	$62.53	$72.77	$5.64	$140.94	$0.00	$21.85	$0.91	$22.76	0.0%	18.5%	0.8%	19.3%	7.7%
700	$71.85	$59.40	$5.47	$136.72	$71.85	$84.90	$6.53	$163.28	$0.00	$25.50	$1.06	$26.56	0.0%	18.7%	0.8%	19.4%	19.0%
1,200	$118.47	$101.83	$9.18	$229.48	$118.47	$145.55	$11.00	$275.02	$0.00	$43.72	$1.82	$45.54	0.0%	19.1%	0.8%	19.8%	6.8%
2,000	$193.05	$169.72	$15.12	$377.89	$193.05	$242.58	$18.15	$453.78	$0.00	$72.86	$3.03	$75.89	0.0%	19.3%	0.8%	20.1%	2.3%

		Present Rates	Proposed Rates Effective October 1, 2018	Line Item on Bill
		(o)	(p)	
(1)	Distribution Customer Charge	$5.00	$5.00	Customer Charge
(2)	LIHEAP Enhancement Charge	$0.81	$0.81	LIHEAP Enhancement Charge
(3)	Renewable Energy Growth Program Charge	$0.78	$0.78	RE Growth Program
(4)	Distribution Charge (per kWh)	$0.03664	$0.03664	Distribution Energy Charge
(5)	Operating & Maintenance Expense Charge	$0.00175	$0.00175	
(6)	Operating & Maintenance Expense Reconciliation Factor	($0.00001)	($0.00001)	
(7)	FY18 CapEx Factor Charge	$0.00355	$0.00355	
(8)	CapEx Reconciliation Factor	($0.00135)	($0.00135)	
(9)	Revenue Decoupling Adjustment Factor	$0.00184	$0.00184	
(10)	Pension Adjustment Factor	($0.00085)	($0.00085)	
(11)	Storm Fund Replenishment Factor	$0.00288	$0.00288	
(12)	Arrearage Management Adjustment Factor	$0.00002	$0.00002	
(13)	Long-term Contracting for Renewable Energy Charge	$0.00647	$0.00647	Renewable Energy Distribution Charge
(14)	Net Metering Charge	$0.00043	$0.00043	
(15)	Base Transmission Charge	$0.03154	$0.03154	Transmission Charge
(16)	Transmission Adjustment Factor	$0.00076	$0.00076	
(17)	Transmission Uncollectible Factor	$0.00041	$0.00041	
(18)	Base Transition Charge	($0.00083)	($0.00083)	Transition Charge
(19)	Transition Adjustment	($0.00004)	($0.00004)	
(20)	Energy Efficiency Program Charge	$0.01002	$0.01002	Energy Efficiency Programs
(21)	Standard Offer Service Base Charge	$0.08315	$0.11958	Supply Services Energy Charge
(22)	SOS Adjustment Factor	$0.00007	$0.00007	
(23)	SOS Adminstrative Cost Adjustment Factor	$0.00160	$0.00160	
(24)	Renewable Energy Standard Charge	$0.00004	$0.00004	
	Line Item on Bill			
(25)	Customer Charge	$5.00	$5.00	
(26)	LIHEAP Enhancement Charge	$0.81	$0.81	
(27)	RE Growth Program	$0.78	$0.78	
(28)	Transmission Charge	kWh x $0.03271	$0.03271	
(29)	Distribution Energy Charge	kWh x $0.04447	$0.04447	
(30)	Transition Charge	kWh x ($0.00087)	($0.00087)	
(31)	Energy Efficiency Programs	kWh x $0.01002	$0.01002	
(32)	Renewable Energy Distribution Charge	kWh x $0.00690	$0.00690	
(33)	Supply Services Energy Charge	kWh x $0.08486	$0.12129	

Column (o): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 7/1/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 7/1/2018
Column (p): Lines (1) through (20), (22) through (24) per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 7/1/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 7/1/2018
Line (21): Proposed Residential Standard Offer Service Base Rate per Schedule Attachment 1, Page 3, Line (10), Column (g)

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4692
Attachment 3
Page 2 of 6

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to A-60 Rate Customers

Monthly kWh	Present Rates				Proposed Rates Effective October 1, 2018				$ Increase (Decrease)				Increase (Decrease) % of Total Bill				Percentage of Customers
	Delivery Services	Supply Services	GET	Total	Delivery Services	Supply Services	GET	Total	Delivery Services	Supply Services	GET	Total	Delivery Services	Supply Services	GET	Total	
(a)	(b)	(c)	(d)	(e)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)
150	$13.55	$12.73	$1.10	$27.38	$13.55	$18.19	$1.32	$33.06	$0.00	$5.46	$0.22	$5.68	0.0%	19.9%	0.8%	20.7%	32.1%
300	$25.52	$25.46	$2.12	$53.10	$25.52	$36.39	$2.58	$64.49	$0.00	$10.93	$0.46	$11.39	0.0%	20.6%	0.9%	21.5%	15.4%
400	$33.49	$33.94	$2.81	$70.24	$33.49	$48.52	$3.42	$85.43	$0.00	$14.58	$0.61	$15.19	0.0%	20.8%	0.9%	21.6%	12.5%
500	$41.47	$42.43	$3.50	$87.40	$41.47	$60.65	$4.26	$106.38	$0.00	$18.22	$0.76	$18.98	0.0%	20.8%	0.9%	21.7%	9.6%
600	$49.45	$50.92	$4.18	$104.55	$49.45	$72.77	$5.09	$127.31	$0.00	$21.85	$0.91	$22.76	0.0%	20.9%	0.9%	21.8%	7.2%
700	$57.42	$59.40	$4.87	$121.69	$57.42	$84.90	$5.93	$148.25	$0.00	$25.50	$1.06	$26.56	0.0%	21.0%	0.9%	21.8%	16.4%
1,200	$97.30	$101.83	$8.30	$207.43	$97.30	$145.55	$10.12	$252.97	$0.00	$43.72	$1.82	$45.54	0.0%	21.1%	0.9%	22.0%	5.2%
2,000	$161.11	$169.72	$13.78	$344.61	$161.11	$242.58	$16.82	$420.51	$0.00	$72.86	$3.04	$75.90	0.0%	21.1%	0.9%	22.0%	1.6%

		Present Rates	Proposed Rates Effective October 1, 2018	Line Item on Bill
		(o)	(p)	
(1)	Distribution Customer Charge	$0.00	$0.00	Customer Charge
(2)	LIHEAP Enhancement Charge	$0.81	$0.81	LIHEAP Enhancement Charge
(3)	Renewable Energy Growth Program Charge	$0.78	$0.78	RE Growth Program
(4)	Distribution Charge (per kWh)	$0.02317	$0.02317	Distribution Energy Charge
(5)	Operating & Maintenance Expense Charge	$0.00175	$0.00175	
(6)	Operating & Maintenance Expense Reconciliation Factor	($0.00001)	($0.00001)	
(7)	FY18 CapEx Factor Charge	$0.00355	$0.00355	
(8)	CapEx Reconciliation Factor	($0.00135)	($0.00135)	
(9)	Revenue Decoupling Adjustment Factor	$0.00184	$0.00184	
(10)	Pension Adjustment Factor	($0.00085)	($0.00085)	
(11)	Storm Fund Replenishment Factor	$0.00288	$0.00288	
(12)	Arrearage Management Adjustment Factor	$0.00002	$0.00002	
(13)	Long-term Contracting for Renewable Energy Charge	$0.00647	$0.00647	Renewable Energy Distribution Charge
(14)	Net Metering Charge	$0.00043	$0.00043	
(15)	Base Transmission Charge	$0.03154	$0.03154	Transmission Charge
(16)	Transmission Adjustment Factor	$0.00076	$0.00076	
(17)	Transmission Uncollectible Factor	$0.00041	$0.00041	
(18)	Base Transition Charge	($0.00083)	($0.00083)	Transition Charge
(19)	Transition Adjustment	($0.00004)	($0.00004)	
(20)	Energy Efficiency Program Charge	$0.01002	$0.01002	Energy Efficiency Programs
(21)	Standard Offer Service Base Charge	$0.08315	$0.11958	Supply Services Energy Charge
(22)	SOS Adjustment Factor	$0.00007	$0.00007	
(23)	SOS Adminstrative Cost Adjustment Factor	$0.00160	$0.00160	
(24)	Renewable Energy Standard Charge	$0.00004	$0.00004	
	Line Item on Bill			
(25)	Customer Charge	$0.00	$0.00	
(26)	LIHEAP Enhancement Charge	$0.81	$0.81	
(27)	RE Growth Program	$0.78	$0.78	
(28)	Transmission Charge	$0.03271	$0.03271	
(29)	Distribution Energy Charge	$0.03100	$0.03100	
(30)	Transition Charge	($0.00087)	($0.00087)	
(31)	Energy Efficiency Programs	$0.01002	$0.01002	
(32)	Renewable Energy Distribution Charge	$0.00690	$0.00690	
(33)	Supply Services Energy Charge	$0.08486	$0.12129	

Column (o): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 7/1/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 7/1/2018
Column (p): Lines (1) through (20), (22) through (24) per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 7/1/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 7/1/2018
Line (21): Proposed Residential Standard Offer Service Base Rate per Schedule Attachment 1, Page 3, Line (10), Column (g)

The Narragansett Electric Company
d/b/a National Grid
Illustrative Standard Offer Service Prices (cents per kWh at retail)
Residential Group: April 2019 through September 2019

Power Supply
¢ per kWh

Contract Month	1	2	3	4	5	6
Calendar Month	April	May	June	July	August	September
Year	2019	2019	2019	2019	2019	2019
Customer Group						
Residential (1)	10.243	9.795	7.032	6.789	6.707	7.101

Footnotes: (1) Illustrative monthly prices calculated as the sum of the average cost of supply (converted to retail delivery) as provided in RIPUC No. 4692, Attachment 5 (Confidential), Page 25 of 25; July 11, 2018 Final Bid Prices (¢ / kWh) at Retail Customer Meter, Excluding RES Compliance.

The Narragansett Electric Company
d/b/a National Grid

Illustrative Residential Group Standard Offer Service Charge
(Rates A-16 and A-60)
Based on Weighted Average Illustrative Standard Offer Service Prices
April 2019 through September 2019

Section 1: Percentage of Residential Customer kWhs Attributable to Standard Offer Service

(1)	Residential Standard Offer Service kWhs - June 2018	189,115,621
(2)	Total Residential kWhs - June 2018	212,897,283
(3)	Percentage of Residential Standard Offer Service kWhs to Total Residential kWhs	88.83%

Section 2: Projected Residential Standard Offer Service kWhs

		2019 April (a)	May (b)	June (c)	2019 July (d)	August (e)	September (f)	Total (g)
(4)	Projected Total Company Residential Group kWhs	211,832,206	202,509,053	213,153,581	289,629,018	324,265,832	270,291,405	1,511,681,094
(5)	Percentage of Residential Standard Offer Service kWhs to Total Residential kWhs	88.83%	88.83%	88.83%	88.83%	88.83%	88.83%	
(6)	Projected Residential Standard Offer Service kWhs	188,170,548	179,888,792	189,344,326	257,277,456	288,045,338	240,099,855	1,342,826,316

Section 3: Weighted Average ResidentialStandard Offer Service Charge

(7)	Projected Residential Standard Offer Service kWhs	188,170,548	179,888,792	189,344,326	257,277,456	288,045,338	240,099,855	1,342,826,316
(8)	Estimated Residential Standard Offer Service Price per kWh	$0.10243	$0.09795	$0.07032	$0.06789	$0.06707	$0.07101	
(9)	Projected Residential Standard Offer Service Cost	$19,274,309	$17,620,107	$13,314,693	$17,466,567	$19,319,201	$17,049,491	$104,044,368
(10)	Weighted Average Residential Base Standard Offer Service Charge							$0.07748
(11)	Monthly and Weighted Average Standard Offer Service Base Price per kWh	$0.10243	$0.09795	$0.07032	$0.06789	$0.06707	$0.07101	$0.07748
(12)	Standard Offer Service Administrative Cost Factor	$0.00160	$0.00160	$0.00160	$0.00160	$0.00160	$0.00160	$0.00160
(13)	Standard Offer Adjustment Factor	$0.00007	$0.00007	$0.00007	$0.00007	$0.00007	$0.00007	$0.00007
(14)	Renewable Energy Standard Charge	$0.00004	$0.00004	$0.00004	$0.00004	$0.00004	$0.00004	$0.00004
(15)	Total Estimated Residential Standard Offer Service Price per kWh	$0.10414	$0.09966	$0.07203	$0.06960	$0.06878	$0.07272	$0.07919
(16)	Proposed Standard Offer Service Rate							$0.12129
(17)	Proposed Increase/(Decrease) to ResidentialStandard Offer Service Charge							($0.04210)

(1) Per Company revenue reports (Rates A-16 and A-60) - June 2018
(2) Per Company revenue reports (Rates A-16 and A-60) - June 2018
(3) Line (1) ÷ Line (2), rounded to four decimal places
(4) Per Company forecast for Residential rates
(5) Line (3)
(6) Line (4) x Line (5)
(7) Line (6)
(8) Illustrative bid prices per Page 1
(9) Line (7) x Line (8)
(10) Line (9) total ÷ Line (7) total, truncated after 5 decimal places
(11) Line (8) for monthly prices and Line (10) for weighted average price
(12) per Summary of Rates, Standard Offer Service, RIPUC No. 2096, issued 4/16/18)
(13) per Summary of Rates, Standard Offer Service, RIPUC No. 2096, issued 4/16/18)
(14) per Summary of Rates, Standard Offer Service, RIPUC No. 2096, issued 4/16/18)
(15) Sum of Lines (11) through (14)
(16) proposed Oct. 2018 - Mar. 2019 Standard Offer Service Rate as per DIV 1-1(a), Page 2, Line (15), Column (g)
(17) Line (15) total - Line (16)

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to A-16 Rate Customers

Current delivery rates as of July 1, 2018, and proposed SOS Rates for Oct. 2018 - Mar. 2019					Illustrative SOS Rates Effective April 1, 2019				$ Increase (Decrease)				Increase (Decrease) % of Total Bill				Percentage of Customers
Monthly kWh (a)	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (f)	Supply Services (g)	GET (h)	Total (i)	Delivery Services (j)	Supply Services (k)	GET (l)	Total (m)	(n)
150	$20.57	$18.19	$1.62	$40.38	$20.57	$11.88	$1.35	$33.80	$0.00	($6.31)	($0.27)	($6.58)	0.0%	-15.6%	-0.7%	-16.3%	30.1%
300	$34.56	$36.39	$2.96	$73.91	$34.56	$23.76	$2.43	$60.75	$0.00	($12.63)	($0.53)	($13.16)	0.0%	-17.1%	-0.7%	-17.8%	12.9%
400	$43.88	$48.52	$3.85	$96.25	$43.88	$31.68	$3.15	$78.71	$0.00	($16.84)	($0.70)	($17.54)	0.0%	-17.5%	-0.7%	-18.2%	11.6%
500	$53.21	$60.65	$4.74	$118.60	$53.21	$39.60	$3.87	$96.68	$0.00	($21.05)	($0.87)	($21.92)	0.0%	-17.7%	-0.7%	-18.5%	9.6%
600	$62.53	$72.77	$5.64	$140.94	$62.53	$47.51	$4.59	$114.63	$0.00	($25.26)	($1.05)	($26.31)	0.0%	-17.9%	-0.7%	-18.7%	7.7%
700	$71.85	$84.90	$6.53	$163.28	$71.85	$55.43	$5.30	$132.58	$0.00	($29.47)	($1.23)	($30.70)	0.0%	-18.0%	-0.8%	-18.8%	19.0%
1,200	$118.47	$145.55	$11.00	$275.02	$118.47	$95.03	$8.90	$222.40	$0.00	($50.52)	($2.10)	($52.62)	0.0%	-18.4%	-0.8%	-19.1%	6.8%
2,000	$193.05	$242.58	$18.15	$453.78	$193.05	$158.38	$14.64	$366.07	$0.00	($84.20)	($3.51)	($87.71)	0.0%	-18.6%	-0.8%	-19.3%	2.3%

	Current delivery rates as of July 1, 2018, and proposed SOS Rates for Oct. 2018 - Mar. 2019		(o)	Illustrative SOS Rates Effective April 1, 2019 (p)	Line Item on Bill
(1)	Distribution Customer Charge		$5.00	$5.00	Customer Charge
(2)	LIHEAP Enhancement Charge		$0.81	$0.81	LIHEAP Enhancement Charge
(3)	Renewable Energy Growth Program Charge		$0.78	$0.78	RE Growth Program
(4)	Distribution Charge (per kWh)		$0.03664	$0.03664	Distribution Energy Charge
(5)	Operating & Maintenance Expense Charge		$0.00175	$0.00175	
(6)	Operating & Maintenance Expense Reconciliation Factor		($0.00001)	($0.00001)	
(7)	FY18 CapEx Factor Charge		$0.00355	$0.00355	
(8)	CapEx Reconciliation Factor		($0.00135)	($0.00135)	
(9)	Revenue Decoupling Adjustment Factor		$0.00184	$0.00184	
(10)	Pension Adjustment Factor		($0.00085)	($0.00085)	
(11)	Storm Fund Replenishment Factor		$0.00288	$0.00288	
(12)	Arrearage Management Adjustment Factor		$0.00002	$0.00002	
(13)	Long-term Contracting for Renewable Energy Charge		$0.00647	$0.00647	Renewable Energy Distribution Charge
(14)	Net Metering Charge		$0.00043	$0.00043	
(15)	Base Transmission Charge		$0.03154	$0.03154	Transmission Charge
(16)	Transmission Adjustment Factor		$0.00076	$0.00076	
(17)	Transmission Uncollectible Factor		$0.00041	$0.00041	
(18)	Base Transition Charge		($0.00083)	($0.00083)	Transition Charge
(19)	Transition Adjustment		($0.00004)	($0.00004)	
(20)	Energy Efficiency Program Charge		$0.01002	$0.01002	Energy Efficiency Programs
(21)	Standard Offer Service Base Charge		$0.11958	$0.07748	Supply Services Energy Charge
(22)	SOS Adjustment Factor		$0.00007	$0.00007	
(23)	SOS Adminstrative Cost Adjustment Factor		$0.00160	$0.00160	
(24)	Renewable Energy Standard Charge		$0.00004	$0.00004	
	Line Item on Bill				
(25)	Customer Charge		$5.00	$5.00	
(26)	LIHEAP Enhancement Charge		$0.81	$0.81	
(27)	RE Growth Program		$0.78	$0.78	
(28)	Transmission Charge	kWh x	$0.03271	$0.03271	
(29)	Distribution Energy Charge	kWh x	$0.04447	$0.04447	
(30)	Transition Charge	kWh x	($0.00087)	($0.00087)	
(31)	Energy Efficiency Programs	kWh x	$0.01002	$0.01002	
(32)	Renewable Energy Distribution Charge	kWh x	$0.00690	$0.00690	
(33)	Supply Services Energy Charge	kWh x	$0.12129	$0.07919	

Column (o): Lines (1) through (20) per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 7/1/2018; Line (21) per proposed Standard Offer Service Rate for Residential Customers, Attachment 1, Page 3, Line (10); Lines (22) through (24) per Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 7/1/2018
Column (p): Lines (1) through (20), (22) through (24) per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 7/1/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 7/1/2018
Line (21): IllustrativeResidential Standard Offer Service Base Rate per Page 2, Line (10), Column (g)

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to A-60 Rate Customers

Current delivery rates as of July 1, 2018, and proposed SOS Rates for Oct. 2018 - Mar. 2019					Illustrative SOS Rates Effective April 1, 2019				$ Increase (Decrease)				Increase (Decrease) % of Total Bill				Percentage of Customers
Monthly kWh (a)	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (f)	Supply Services (g)	GET (h)	Total (i)	Delivery Services (j)	Supply Services (k)	GET (l)	Total (m)	(n)
150	$13.55	$18.19	$1.32	$33.06	$13.55	$11.88	$1.06	$26.49	$0.00	($6.31)	($0.26)	($6.57)	0.0%	-19.1%	-0.8%	-19.9%	32.1%
300	$25.52	$36.39	$2.58	$64.49	$25.52	$23.76	$2.05	$51.33	$0.00	($12.63)	($0.53)	($13.16)	0.0%	-19.6%	-0.8%	-20.4%	15.4%
400	$33.49	$48.52	$3.42	$85.43	$33.49	$31.68	$2.72	$67.89	$0.00	($16.84)	($0.70)	($17.54)	0.0%	-19.7%	-0.8%	-20.5%	12.5%
500	$41.47	$60.65	$4.26	$106.38	$41.47	$39.60	$3.38	$84.45	$0.00	($21.05)	($0.88)	($21.93)	0.0%	-19.8%	-0.8%	-20.6%	9.6%
600	$49.45	$72.77	$5.09	$127.31	$49.45	$47.51	$4.04	$101.00	$0.00	($25.26)	($1.05)	($26.31)	0.0%	-19.8%	-0.8%	-20.7%	7.2%
700	$57.42	$84.90	$5.93	$148.25	$57.42	$55.43	$4.70	$117.55	$0.00	($29.47)	($1.23)	($30.70)	0.0%	-19.9%	-0.8%	-20.7%	16.4%
1,200	$97.30	$145.55	$10.12	$252.97	$97.30	$95.03	$8.01	$200.34	$0.00	($50.52)	($2.11)	($52.63)	0.0%	-20.0%	-0.8%	-20.8%	5.2%
2,000	$161.11	$242.58	$16.82	$420.51	$161.11	$158.38	$13.31	$332.80	$0.00	($84.20)	($3.51)	($87.71)	0.0%	-20.0%	-0.8%	-20.9%	1.6%

		Current delivery rates as of July 1, 2018, and proposed SOS Rates for Oct. 2018 - Mar. 2019 (o)	Illustrative SOS Rates Effective April 1, 2019 (p)	Line Item on Bill
(1)	Distribution Customer Charge	$0.00	$0.00	Customer Charge
(2)	LIHEAP Enhancement Charge	$0.81	$0.81	LIHEAP Enhancement Charge
(3)	Renewable Energy Growth Program Charge	$0.78	$0.78	RE Growth Program
(4)	Distribution Charge (per kWh)	$0.02317	$0.02317	
(5)	Operating & Maintenance Expense Charge	$0.00175	$0.00175	
(6)	Operating & Maintenance Expense Reconciliation Factor	($0.00001)	($0.00001)	
(7)	FY18 CapEx Factor Charge	$0.00355	$0.00355	
(8)	CapEx Reconciliation Factor	($0.00135)	($0.00135)	Distribution Energy Charge
(9)	Revenue Decoupling Adjustment Factor	$0.00184	$0.00184	
(10)	Pension Adjustment Factor	($0.00085)	($0.00085)	
(11)	Storm Fund Replenishment Factor	$0.00288	$0.00288	
(12)	Arrearage Management Adjustment Factor	$0.00002	$0.00002	
(13)	Long-term Contracting for Renewable Energy Charge	$0.00647	$0.00647	Renewable Energy Distribution Charge
(14)	Net Metering Charge	$0.00043	$0.00043	
(15)	Base Transmission Charge	$0.03154	$0.03154	
(16)	Transmission Adjustment Factor	$0.00076	$0.00076	Transmission Charge
(17)	Transmission Uncollectible Factor	$0.00041	$0.00041	
(18)	Base Transition Charge	($0.00083)	($0.00083)	Transition Charge
(19)	Transition Adjustment	($0.00004)	($0.00004)	
(20)	Energy Efficiency Program Charge	$0.01002	$0.01002	Energy Efficiency Programs
(21)	Standard Offer Service Base Charge	$0.11958	$0.07748	
(22)	SOS Adjustment Factor	$0.00007	$0.00007	Supply Services Energy Charge
(23)	SOS Adminstrative Cost Adjustment Factor	$0.00160	$0.00160	
(24)	Renewable Energy Standard Charge	$0.00004	$0.00004	
	Line Item on Bill			
(25)	Customer Charge	$0.00	$0.00	
(26)	LIHEAP Enhancement Charge	$0.81	$0.81	
(27)	RE Growth Program	$0.78	$0.78	
(28)	Transmission Charge	$0.03271	$0.03271	
(29)	Distribution Energy Charge	$0.03100	$0.03100	
(30)	Transition Charge	($0.00087)	($0.00087)	
(31)	Energy Efficiency Programs	$0.01002	$0.01002	
(32)	Renewable Energy Distribution Charge	$0.00690	$0.00690	
(33)	Supply Services Energy Charge	$0.12129	$0.07919	

Column (o): Lines (1) through (20) per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 7/1/2018; Line (21) per proposed Standard Offer Service Rate for Residential Customers, Attachment 1, Page 3, Line (10); Lines (22) through (24) per Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 7/1/2018

Column (p): Lines (1) through (20), (22) through (24) per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 7/1/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 7/1/2018

Line (21): IllustrativeResidential Standard Offer Service Base Rate per Page 2, Line (10), Column (g)

The Narragansett Electric Company
d/b/a National Grid

Illustrative Standard Offer Service Prices (cents per kWh at retail)
Residential Group: October 2018 through September 2019

Power Supply
¢ per kWh

Contract Month	1	2	3	4	5	6	7	8	9	10	11	12
Calendar Month	October	November	December	January	February	March	April	May	June	July	August	September
Year	2018	2018	2018	2019	2019	2019	2019	2019	2019	2019	2019	2019
Customer Group												
Residential (1)	10.062	10.101	11.321	13.838	14.347	11.127	10.243	9.795	7.032	6.789	6.707	7.101

Footnotes: (1) Illustrative monthly prices calculated as the sum of the average cost of supply (converted to retail delivery) as provided in RIPUC No. 4692, Attachment 5 (Confidential), Page 25 of 25; July 11, 2018 Final Bid Prices (¢ / kWh) at Retail Customer Meter, Excluding RES Compliance.

The Narragansett Electric Company
d/b/a National Grid
Illustrative Residential Group Standard Offer Service Charge
(Rates A-16 and A-60)
Based on Weighted Average Effective Standard Offer Service Prices
October 2018 through September 2019

Section 1: Percentage of Residential Customer kWhs Attributable to Standard Offer Service

(1)	Residential Standard Offer Service kWhs - June 2018	189,115,621
(2)	Total Residential kWhs - June 2018	212,897,283
(3)	Percentage of Residential Standard Offer Service kWhs to Total Residential kWhs	88.83%

Section 2: Projected Residential Standard Offer Service kWhs

		2018 October (a)	November (b)	December (c)	2019 January (d)	February (e)	March (f)	April (g)	May (h)	June (i)	July (j)	August (k)	September (l)	Total (m)
(4)	Projected Total Company Residential Group kWhs	211,685,376	201,168,881	244,207,153	276,441,428	255,738,535	240,370,533	211,832,206	202,509,053	213,153,581	289,629,018	324,265,832	270,291,405	2,941,292,999
(5)	Percentage of Residential Standard Offer Service kWhs to Total Residential kWhs	88.83%	88.83%	88.83%	88.83%	88.83%	88.83%	88.83%	88.83%	88.83%	88.83%	88.83%	88.83%	
(6)	Projected Residential Standard Offer Service kWhs	188,040,119	178,698,317	216,929,214	245,562,920	227,172,541	213,521,145	188,170,548	179,888,792	189,344,326	257,277,456	288,045,338	240,099,855	2,612,750,571

Section 3: Weighted Average ResidentialStandard Offer Service Charge

(7)	Projected Residential Standard Offer Service kWhs	188,040,119	178,698,317	216,929,214	245,562,920	227,172,541	213,521,145	188,170,548	179,888,792	189,344,326	257,277,456	288,045,338	240,099,855	2,612,750,571
(8)	Estimated Residential Standard Offer Service Price per kWh	$0.10062	$0.10101	$0.11321	$0.13838	$0.14347	$0.11127	$0.10243	$0.09795	$0.07032	$0.06789	$0.06707	$0.07101	
(9)	Projected Residential Standard Offer Service Cost	$18,920,597	$18,050,317	$24,558,556	$33,980,997	$32,592,444	$23,758,498	$19,274,309	$17,620,107	$13,314,693	$17,466,567	$19,319,201	$17,049,491	$255,905,777
(10)	Weighted Average Residential Base Standard Offer Service Charge													$0.09794
(11)	Monthly and Weighted Average Standard Offer Service Base Price per kWh	$0.10062	$0.10101	$0.11321	$0.13838	$0.14347	$0.11127	$0.10243	$0.09795	$0.07032	$0.06789	$0.06707	$0.07101	$0.09794
(12)	Standard Offer Service Administrative Cost Factor	$0.00160	$0.00160	$0.00160	$0.00160	$0.00160	$0.00160	$0.00160	$0.00160	$0.00160	$0.00160	$0.00160	$0.00160	$0.00160
(13)	Standard Offer Adjustment Factor	$0.00007	$0.00007	$0.00007	$0.00007	$0.00007	$0.00007	$0.00007	$0.00007	$0.00007	$0.00007	$0.00007	$0.00007	$0.00007
(14)	Renewable Energy Standard Charge	$0.00004	$0.00004	$0.00004	$0.00004	$0.00004	$0.00004	$0.00004	$0.00004	$0.00004	$0.00004	$0.00004	$0.00004	$0.00004
(15)	Total Estimated Residential Standard Offer Service Price per kWh	$0.10233	$0.10272	$0.11492	$0.14009	$0.14518	$0.11298	$0.10414	$0.09966	$0.07203	$0.06960	$0.06878	$0.07272	$0.09965
(16)	Currently Effective Residential Standard Offer Service Charge													$0.08486
(17)	Proposed Increase/(Decrease) to ResidentialStandard Offer Service Charge													$0.01479

(1) Per Company revenue reports (Rates A-16 and A-60) - June 2018
(2) Per Company revenue reports (Rates A-16 and A-60) - June 2018
(3) Line (1) ÷ Line (2), rounded to four decimal places
(4) Per Company forecast for Residential rates
(5) Line (3)
(6) Line (4) x Line (5)
(7) Line (6)
(8) per Page 1
(9) Line (7) x Line (8)
(10) Line (9) total ÷ Line (7) total, truncated after 5 decimal places
(11) Line (8) for monthly prices and Line (10) for weighted average price
(12) per Summary of Rates, Standard Offer Service, RIPUC No. 2096, issued 4/16/18)
(13) per Summary of Rates, Standard Offer Service, RIPUC No. 2096, issued 4/16/18)
(14) per Summary of Rates, Standard Offer Service, RIPUC No. 2096, issued 4/16/18)
(15) Sum of Lines (11) through (14)
(16) per Summary of Rates, Standard Offer Service, RIPUC No. 2096, issued 4/16/18)
(17) Line (15) total - Line (16)

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to A-16 Rate Customers

Monthly kWh	Present Rates				Illustrative SOS Rates Effective October 1, 2018				$ Increase (Decrease)				Increase (Decrease) % of Total Bill				Percentage of Customers
	Delivery Services	Supply Services	GET	Total	Delivery Services	Supply Services	GET	Total	Delivery Services	Supply Services	GET	Total	Delivery Services	Supply Services	GET	Total	
(a)	(b)	(c)	(d)	(e)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)
150	$20.57	$12.73	$1.39	$34.69	$20.57	$14.95	$1.48	$37.00	$0.00	$2.22	$0.09	$2.31	0.0%	6.4%	0.3%	6.7%	30.1%
300	$34.56	$25.46	$2.50	$62.52	$34.56	$29.90	$2.69	$67.15	$0.00	$4.44	$0.19	$4.63	0.0%	7.1%	0.3%	7.4%	12.9%
400	$43.88	$33.94	$3.24	$81.06	$43.88	$39.86	$3.49	$87.23	$0.00	$5.92	$0.25	$6.17	0.0%	7.3%	0.3%	7.6%	11.6%
500	$53.21	$42.43	$3.99	$99.63	$53.21	$49.83	$4.29	$107.33	$0.00	$7.40	$0.30	$7.70	0.0%	7.4%	0.3%	7.7%	9.6%
600	$62.53	$50.92	$4.73	$118.18	$62.53	$59.79	$5.10	$127.42	$0.00	$8.87	$0.37	$9.24	0.0%	7.5%	0.3%	7.8%	7.7%
700	$71.85	$59.40	$5.47	$136.72	$71.85	$69.76	$5.90	$147.51	$0.00	$10.36	$0.43	$10.79	0.0%	7.6%	0.3%	7.9%	19.0%
1,200	$118.47	$101.83	$9.18	$229.48	$118.47	$119.58	$9.92	$247.97	$0.00	$17.75	$0.74	$18.49	0.0%	7.7%	0.3%	8.1%	6.8%
2,000	$193.05	$169.72	$15.12	$377.89	$193.05	$199.30	$16.35	$408.70	$0.00	$29.58	$1.23	$30.81	0.0%	7.8%	0.3%	8.2%	2.3%

		Present Rates	Illustrative SOS Rates Effective October 1, 2018	Line Item on Bill
		(o)	(p)	
(1)	Distribution Customer Charge	$5.00	$5.00	Customer Charge
(2)	LIHEAP Enhancement Charge	$0.81	$0.81	LIHEAP Enhancement Charge
(3)	Renewable Energy Growth Program Charge	$0.78	$0.78	RE Growth Program
(4)	Distribution Charge (per kWh)	$0.03664	$0.03664	Distribution Energy Charge
(5)	Operating & Maintenance Expense Charge	$0.00175	$0.00175	
(6)	Operating & Maintenance Expense Reconciliation Factor	($0.00001)	($0.00001)	
(7)	FY18 CapEx Factor Charge	$0.00355	$0.00355	
(8)	CapEx Reconciliation Factor	($0.00135)	($0.00135)	
(9)	Revenue Decoupling Adjustment Factor	$0.00184	$0.00184	
(10)	Pension Adjustment Factor	($0.00085)	($0.00085)	
(11)	Storm Fund Replenishment Factor	$0.00288	$0.00288	
(12)	Arrearage Management Adjustment Factor	$0.00002	$0.00002	
(13)	Long-term Contracting for Renewable Energy Charge	$0.00647	$0.00647	Renewable Energy Distribution Charge
(14)	Net Metering Charge	$0.00043	$0.00043	
(15)	Base Transmission Charge	$0.03154	$0.03154	Transmission Charge
(16)	Transmission Adjustment Factor	$0.00076	$0.00076	
(17)	Transmission Uncollectible Factor	$0.00041	$0.00041	
(18)	Base Transition Charge	($0.00083)	($0.00083)	Transition Charge
(19)	Transition Adjustment	($0.00004)	($0.00004)	
(20)	Energy Efficiency Program Charge	$0.01002	$0.01002	Energy Efficiency Programs
(21)	Standard Offer Service Base Charge	$0.08315	$0.09794	Supply Services Energy Charge
(22)	SOS Adjustment Factor	$0.00007	$0.00007	
(23)	SOS Adminstrative Cost Adjustment Factor	$0.00160	$0.00160	
(24)	Renewable Energy Standard Charge	$0.00004	$0.00004	

	Line Item on Bill			
(25)	Customer Charge		$5.00	$5.00
(26)	LIHEAP Enhancement Charge		$0.81	$0.81
(27)	RE Growth Program		$0.78	$0.78
(28)	Transmission Charge	kWh x	$0.03271	$0.03271
(29)	Distribution Energy Charge	kWh x	$0.04447	$0.04447
(30)	Transition Charge	kWh x	($0.00087)	($0.00087)
(31)	Energy Efficiency Programs	kWh x	$0.01002	$0.01002
(32)	Renewable Energy Distribution Charge	kWh x	$0.00690	$0.00690
(33)	Supply Services Energy Charge	kWh x	$0.08486	$0.09965

Column (o): Lines (1) through (20) per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 7/1/2018; Lines (21) through (24) per Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 7/1/2018
Column (p): Lines (1) through (20), (22) through (24) per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 7/1/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 7/1/2018
Line (21): Illustrative 12-Month Residential Standard Offer Service Base Rate per Page 2, Line (10), Column (g)

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to A-60 Rate Customers

Monthly kWh	Present Rates				Illustrative SOS Rates Effective October 1, 2018				$ Increase (Decrease)				Increase (Decrease) % of Total Bill				Percentage of Customers
	Delivery Services	Supply Services	GET	Total	Delivery Services	Supply Services	GET	Total	Delivery Services	Supply Services	GET	Total	Delivery Services	Supply Services	GET	Total	
(a)	(b)	(c)	(d)	(e)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)
150	$13.55	$12.73	$1.10	$27.38	$13.55	$14.95	$1.19	$29.69	$0.00	$2.22	$0.09	$2.31	0.0%	8.1%	0.3%	8.4%	32.1%
300	$25.52	$25.46	$2.12	$53.10	$25.52	$29.90	$2.31	$57.73	$0.00	$4.44	$0.19	$4.63	0.0%	8.4%	0.4%	8.7%	15.4%
400	$33.49	$33.94	$2.81	$70.24	$33.49	$39.86	$3.06	$76.41	$0.00	$5.92	$0.25	$6.17	0.0%	8.4%	0.4%	8.8%	12.5%
500	$41.47	$42.43	$3.50	$87.40	$41.47	$49.83	$3.80	$95.10	$0.00	$7.40	$0.30	$7.70	0.0%	8.5%	0.3%	8.8%	9.6%
600	$49.45	$50.92	$4.18	$104.55	$49.45	$59.79	$4.55	$113.79	$0.00	$8.87	$0.37	$9.24	0.0%	8.5%	0.4%	8.8%	7.2%
700	$57.42	$59.40	$4.87	$121.69	$57.42	$69.76	$5.30	$132.48	$0.00	$10.36	$0.43	$10.79	0.0%	8.5%	0.4%	8.9%	16.4%
1,200	$97.30	$101.83	$8.30	$207.43	$97.30	$119.58	$9.04	$225.92	$0.00	$17.75	$0.74	$18.49	0.0%	8.6%	0.4%	8.9%	5.2%
2,000	$161.11	$169.72	$13.78	$344.61	$161.11	$199.30	$15.02	$375.43	$0.00	$29.58	$1.24	$30.82	0.0%	8.6%	0.4%	8.9%	1.6%

		Present Rates	Illustrative SOS Rates Effective October 1, 2018	Line Item on Bill
		(o)	(p)	
(1)	Distribution Customer Charge	$0.00	$0.00	Customer Charge
(2)	LIHEAP Enhancement Charge	$0.81	$0.81	LIHEAP Enhancement Charge
(3)	Renewable Energy Growth Program Charge	$0.78	$0.78	RE Growth Program
(4)	Distribution Charge (per kWh)	$0.02317	$0.02317	Distribution Energy Charge
(5)	Operating & Maintenance Expense Charge	$0.00175	$0.00175	
(6)	Operating & Maintenance Expense Reconciliation Factor	($0.00001)	($0.00001)	
(7)	FY18 CapEx Factor Charge	$0.00355	$0.00355	
(8)	CapEx Reconciliation Factor	($0.00135)	($0.00135)	
(9)	Revenue Decoupling Adjustment Factor	$0.00184	$0.00184	
(10)	Pension Adjustment Factor	($0.00085)	($0.00085)	
(11)	Storm Fund Replenishment Factor	$0.00288	$0.00288	
(12)	Arrearage Management Adjustment Factor	$0.00002	$0.00002	
(13)	Long-term Contracting for Renewable Energy Charge	$0.00647	$0.00647	Renewable Energy Distribution Charge
(14)	Net Metering Charge	$0.00043	$0.00043	
(15)	Base Transmission Charge	$0.03154	$0.03154	Transmission Charge
(16)	Transmission Adjustment Factor	$0.00076	$0.00076	
(17)	Transmission Uncollectible Factor	$0.00041	$0.00041	
(18)	Base Transition Charge	($0.00083)	($0.00083)	Transition Charge
(19)	Transition Adjustment	($0.00004)	($0.00004)	
(20)	Energy Efficiency Program Charge	$0.01002	$0.01002	Energy Efficiency Programs
(21)	Standard Offer Service Base Charge	$0.08315	$0.09794	Supply Services Energy Charge
(22)	SOS Adjustment Factor	$0.00007	$0.00007	
(23)	SOS Adminstrative Cost Adjustment Factor	$0.00160	$0.00160	
(24)	Renewable Energy Standard Charge	$0.00004	$0.00004	
	Line Item on Bill			
(25)	Customer Charge	$0.00	$0.00	
(26)	LIHEAP Enhancement Charge	$0.81	$0.81	
(27)	RE Growth Program	$0.78	$0.78	
(28)	Transmission Charge	$0.03271	$0.03271	
(29)	Distribution Energy Charge	$0.03100	$0.03100	
(30)	Transition Charge	($0.00087)	($0.00087)	
(31)	Energy Efficiency Programs	$0.01002	$0.01002	
(32)	Renewable Energy Distribution Charge	$0.00690	$0.00690	
(33)	Supply Services Energy Charge	$0.08486	$0.09965	

Column (o): Lines (1) through (20) per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 7/1/2018; Lines (21) through (24) per Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 7/1/2018
Column (p): Lines (1) through (20), (22) through (24) per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 7/1/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 7/1/2018
Line (21): Illustrative 12-Month Residential Standard Offer Service Base Rate per Page 2, Line (10), Column (g)

Division 1-2

Request:

Assuming the proposed 6-month residential standard offer rate is approved and also assuming rates are adjusted again for the 6-month period April to September 2019, what is the total expected residential standard offer service cost for all kWh deliveries for the 12-month period October 2018 through September 2019? Please be sure to include the impact of interest on any under or over recovery during the period.

Response:

Please see Attachment DIV 1-2 for an illustrative reconciliation of estimated Residential Standard Offer Service (SOS) cost and revenue for the period of October 2018 through September 2019, assuming the proposed Residential SOS rate effective October 1, 2018 through March 31, 2019 is approved, and assuming that the illustrative Residential SOS rate shown in Attachment DIV 1-1(b) is effective April 1, 2019 through September 30, 2019. The total illustrative Residential SOS estimated cost, as shown on Line (25), Column (k), is $255,905,777.

The illustrative reconciliation presents a small deferral balance plus nominal interest, which is caused by the fact that when calculating the SOS rate, the Company truncates to five decimal places. The Company designs Residential SOS rates to recover the estimated SOS costs during each 6-month period. If the assumptions used to develop the rates actually occurred, including the kWh forecast, the estimated line losses, and the estimated spot market costs, theoretically there would be no interest that would accrue over the pricing period.

Illustrative Residential Group Standard Offer Service Reconciliation
for the period October 2018 through September 2019
Using Proposed October 2018 - March 2019 Rates
and Illustrative April 2019 - September 2019 Rates

		Forecasted Residential kWh Deliveries (a)	Percent of kWh Deliveries on SOS (b)	Estimated Forecasted SOS kWh (c)	Actual/ Estimated Residential Cost per kWh (d)	Illustrative Estimated Residential Cost (e)	Estimated Forecasted SOS kWh (f)	Proposed Oct.- Mar. and Illustrative April- Sept. Rate (g)	Illustrative Estimated Residential Revenue (h)
(1)	Oct-18	211,685,376	88.83%	188,040,120	$0.10062	$18,920,597	188,040,120	$0.11958	$22,485,838
(2)	Nov-18	201,168,881	88.83%	178,698,317	$0.10101	$18,050,317	178,698,317	$0.11958	$21,368,745
(3)	Dec-18	244,207,153	88.83%	216,929,214	$0.11321	$24,558,556	216,929,214	$0.11958	$25,940,395
(4)	Jan-19	276,441,428	88.83%	245,562,920	$0.13838	$33,980,997	245,562,920	$0.11958	$29,364,414
(5)	Feb-19	255,738,535	88.83%	227,172,541	$0.14347	$32,592,444	227,172,541	$0.11958	$27,165,292
(6)	Mar-19	240,370,533	88.83%	213,521,144	$0.11127	$23,758,498	213,521,144	$0.11958	$25,532,858
(7)	Apr-19	211,832,206	88.83%	188,170,549	$0.10243	$19,274,309	188,170,549	$0.07748	$14,579,454
(8)	May-19	202,509,053	88.83%	179,888,792	$0.09795	$17,620,107	179,888,792	$0.07748	$13,937,784
(9)	Jun-19	213,153,581	88.83%	189,344,326	$0.07032	$13,314,693	189,344,326	$0.07748	$14,670,398
(10)	Jul-19	289,629,018	88.83%	257,277,457	$0.06789	$17,466,567	257,277,457	$0.07748	$19,933,857
(11)	Aug-19	324,265,832	88.83%	288,045,339	$0.06707	$19,319,201	288,045,339	$0.07748	$22,317,753
(12)	Sep-19	270,291,405	88.83%	240,099,855	$0.07101	$17,049,491	240,099,855	$0.07748	$18,602,937

		Beginning Balance (i)	Illustrative Estimated Revenue (j)	Illustrative Estimated Cost (k)	Illustrative Monthly Over/(Under) Recovery (l)	Ending Balance (m)
(13)	Oct-18	$0	$22,485,838	$18,920,597	$3,565,241	$3,565,241
(14)	Nov-18	$3,565,241	$21,368,745	$18,050,317	$3,318,428	$6,883,669
(15)	Dec-18	$6,883,669	$25,940,395	$24,558,556	$1,381,839	$8,265,508
(16)	Jan-19	$8,265,508	$29,364,414	$33,980,997	($4,616,583)	$3,648,925
(17)	Feb-19	$3,648,925	$27,165,292	$32,592,444	($5,427,152)	($1,778,227)
(18)	Mar-19	($1,778,227)	$25,532,858	$23,758,498	$1,774,360	($3,867)
(19)	Apr-19	($3,867)	$14,579,454	$19,274,309	($4,694,855)	($4,698,722)
(20)	May-19	($4,698,722)	$13,937,784	$17,620,107	($3,682,323)	($8,381,045)
(21)	Jun-19	($8,381,045)	$14,670,398	$13,314,693	$1,355,705	($7,025,340)
(22)	Jul-19	($7,025,340)	$19,933,857	$17,466,567	$2,467,290	($4,558,050)
(23)	Aug-19	($4,558,050)	$22,317,753	$19,319,201	$2,998,552	($1,559,498)
(24)	Sep-19	($1,559,498)	$18,602,937	$17,049,491	$1,553,446	($6,052)
(25)	Totals		$255,899,725	$255,905,777	($6,052)	

(26)	Estimated Interest during Reconciliation Period	($71)
(27)	Estimated Ending Balance incl. Estimated Interest During Reconciliation Period	($6,123)

Line (26): (Line (13) Column (i) + Line (24) Column (m)) ÷ 2) x 2.33%
Line (27): Line (25), Column (m) + Line (26)

Column (a): per Company Forecast
Column (b): Percentage of Residential Standard Offer Service kWhs to Total Residential kWhs, per Attachment DIV 1-1(a), Page 2, Line (3)
Column (c): Column (a) x Column (b)
Column (d): Line (1) through (6); Residential SOS rates per Attachment DIV 1-1(a), Page 1, Residential Group, Truncated to 5 decimal places
Line (7) through (12); Illustrative Residential SOS rates per Attachment DIV 1-1(b), Page 1, Residential Group, Truncated to 5 decimal places
Column (e): Column (c) x Column (d)
Column (f): Column (c)
Column (g): Line (1) through (6); Proposed Residential SOS rate per Attachment DIV 1-1(a), Page 2, Line (10)
Line (7) through (12); Illustrative Residential SOS rate per Attachment DIV 1-1(b), Page 2, Line (10)
Column (h): Column (f) x Column (g)
Column (i): Line (14) Beginning balance of $0; Column (m), previous line
Column (j): Column (h)
Column (k): Column (e)
Column (l): Column (j) - Column (k)
Column (m): Column (i) + Column (l)

Division 1-3

Request:

Assuming a 12-month residential standard offer rate is approved for the period October 2018 through September 2019, what is the total expected residential standard offer service cost for all kWh deliveries for the 12-month period October through September 2019? Please be sure to include the impact of interest on any under or over recovery during the period.

Response:

Please see Attachment DIV 1-3 for an illustrative reconciliation of estimated Residential Standard Offer Service (SOS) cost and revenue for the period of October 2018 through September 2019, assuming that the illustrative Residential SOS rate shown in Attachment DIV 1-1(c) is implemented. The total illustrative Residential estimated cost, as shown on Line (25), Column (k), is $255,905,777. The illustrative reconciliation presents a small deferral balance plus nominal interest, which is caused by the fact that when calculating the SOS rate, the Company truncates to five decimal places.

The Company designs Residential SOS rates to recover the estimated SOS costs during each 6-month period and, in this case, during the 12-month period. If the assumptions used to develop the rates actually occurred, including the kWh forecast, the estimated line losses, and the estimated spot market costs, theoretically there would be no interest that would accrue over the pricing period.

Illustrative Residential Group Standard Offer Service Reconciliation
for the period October 2018 through September 2019
Using Illustrative October 2018 - September 2019 Rate

		Forecasted Residential kWh Deliveries (a)	Percent of kWh Deliveries on SOS (b)	Estimated Forecasted SOS kWh (c)	Actual/ Estimated Residential Cost per kWh (d)	Illustrative Estimated Residential Cost (e)	Estimated Forecasted SOS kWh (f)	Illustrative 12 month Rate (g)	Illustrative Estimated Residential Revenue (h)
(1)	Oct-18	211,685,376	88.83%	188,040,120	$0.10062	$18,920,597	188,040,120	$0.09794	$18,416,649
(2)	Nov-18	201,168,881	88.83%	178,698,317	$0.10101	$18,050,317	178,698,317	$0.09794	$17,501,713
(3)	Dec-18	244,207,153	88.83%	216,929,214	$0.11321	$24,558,556	216,929,214	$0.09794	$21,246,047
(4)	Jan-19	276,441,428	88.83%	245,562,920	$0.13838	$33,980,997	245,562,920	$0.09794	$24,050,432
(5)	Feb-19	255,738,535	88.83%	227,172,541	$0.14347	$32,592,444	227,172,541	$0.09794	$22,249,279
(6)	Mar-19	240,370,533	88.83%	213,521,144	$0.11127	$23,758,498	213,521,144	$0.09794	$20,912,261
(7)	Apr-19	211,832,206	88.83%	188,170,549	$0.10243	$19,274,309	188,170,549	$0.09794	$18,429,424
(8)	May-19	202,509,053	88.83%	179,888,792	$0.09795	$17,620,107	179,888,792	$0.09794	$17,618,308
(9)	Jun-19	213,153,581	88.83%	189,344,326	$0.07032	$13,314,693	189,344,326	$0.09794	$18,544,383
(10)	Jul-19	289,629,018	88.83%	257,277,457	$0.06789	$17,466,567	257,277,457	$0.09794	$25,197,754
(11)	Aug-19	324,265,832	88.83%	288,045,339	$0.06707	$19,319,201	288,045,339	$0.09794	$28,211,161
(12)	Sep-19	270,291,405	88.83%	240,099,855	$0.07101	$17,049,491	240,099,855	$0.09794	$23,515,380

		Beginning Balance (i)	Illustrative Estimated Revenue (j)	Illustrative Estimated Cost (k)	Illustrative Monthly Over/(Under) Recovery (l)	Ending Balance (m)
(13)	Oct-18	$0	$18,416,649	$18,920,597	($503,948)	($503,948)
(14)	Nov-18	($503,948)	$17,501,713	$18,050,317	($548,604)	($1,052,552)
(15)	Dec-18	($1,052,552)	$21,246,047	$24,558,556	($3,312,509)	($4,365,061)
(16)	Jan-19	($4,365,061)	$24,050,432	$33,980,997	($9,930,565)	($14,295,626)
(17)	Feb-19	($14,295,626)	$22,249,279	$32,592,444	($10,343,165)	($24,638,791)
(18)	Mar-19	($24,638,791)	$20,912,261	$23,758,498	($2,846,237)	($27,485,028)
(19)	Apr-19	($27,485,028)	$18,429,424	$19,274,309	($844,885)	($28,329,913)
(20)	May-19	($28,329,913)	$17,618,308	$17,620,107	($1,799)	($28,331,712)
(21)	Jun-19	($28,331,712)	$18,544,383	$13,314,693	$5,229,690	($23,102,022)
(22)	Jul-19	($23,102,022)	$25,197,754	$17,466,567	$7,731,187	($15,370,835)
(23)	Aug-19	($15,370,835)	$28,211,161	$19,319,201	$8,891,960	($6,478,875)
(24)	Sep-19	($6,478,875)	$23,515,380	$17,049,491	$6,465,889	($12,986)
(25)	Totals		$255,892,791	$255,905,777	($12,986)	

(26)	Estimated Interest during Reconciliation Period	($151)
(27)	Estimated Ending Balance incl. Estimated Interest During Reconciliation Period	($13,137)

Line (26): (Line (13) Column (i) + Line (24) Column (m)) ÷ 2) x 2.33%
Line (27): Line (25), Column (m) + Line (26)

Column (a): per Company Forecast
Column (b): Percentage of Residential Standard Offer Service kWhs to Total Residential kWhs, per Attachment DIV 1-1(a), Page 2, Line (3)
Column (c): Column (a) x Column (b)
Column (d): Line (1) through (6); Residential SOS rates per Attachment DIV 1-1(a), Page 1, Residential Group, Truncated to 5 decimal places
Line (7) through (12); Illustrative Residential SOS rates per Attachment DIV 1-1(b), Page 1, Residential Group, Truncated to 5 decimal places
Column (e): Column (c) x Column (d)
Column (f): Column (c)
Column (g): Illustrative 12-Month Residential SOS rate per Attachment DIV 1-1(c), Page 2, Line (10)
Column (h): Column (f) x Column (g)
Column (i): Line (14) Beginning balance of $0; Column (m), previous line
Column (j): Column (h)
Column (k): Column (e)
Column (l): Column (j) - Column (k)
Column (m): Column (i) + Column (l)

Division 1-4

Request:

If a 12-month rate is ordered, how much of the Company's costs will be deferred into the recovery period April through September 2019? Also, please show the bill impacts for the A-16 and A-60 rate classes assuming a 12-month rate.

Response:

Attachment DIV 1-3 presents an illustrative Residential reconciliation of estimated Standard Offer Service (SOS) cost and revenue for the period October 2018 through September 2019, assuming that the illustrative 12-month Residential SOS rate calculated in Attachment DIV 1-1(c) is implemented. As presented on line (19), column (i), of Attachment DIV 1-3, approximately $27.5 million would be deferred at March 31, 2019 and carried forward into the recovery period April 2019 through September 2019 under this scenario.

Please see pages 3 and 4 of Attachment DIV 1-1(c) for the bill impacts for Rates A-16 and A-60 rate classes, respectively, assuming a 12-month rate. The bill impacts for Rate A-60 do not reflect proposed change in the low income discount pending in the Company's general rate case in Docket No. 4770.

Division 2-1

Request:

If the October 2018-March 2019 SOS rate were set at 10.99¢, please provide the following:

a. Deferred SOS costs from the October 2018-March 2019 period to the April-September 2019 period.
b. The estimated SOS rate for April-September 2019.
c. Associated bill impacts of the 10.99 cent rate in October 2018 and the estimated SOS rate for April 2019.

Response:

a. As presented on Page 1, Line (16) of Attachment DIV 2-1(a), the Company estimates deferred SOS costs of $14,464,437 from the October 2018-March 2019 period that would be carried into the April-September 2019 period.

b. As presented on Page 2, Line (15) of Attachment DIV 2-1(a), the estimated Total SOS Rate for April- September 2018 would be 8.996 cents.

c. Please see pages 1 and 2 of Attachment DIV 2-1(b) for the bill impacts for Rates A-16 and A-60, respectively, based on a Residential SOS rate of 10.99 cents beginning in October 2018. See pages 3 and 4 for the bill impacts for Rates A-16 and A-60, respectively, based on an April 2018 Residential SOS rate of 8.996 cents.

The table below summarizes the illustrative Residential SOS rates and their associated bill impacts for a residential A-16 SOS customer using 500 kWh per month presented in Attachments DIV 2-1(a) and DIV 2-1(b):

	Illustrative Oct. 2018 – Mar. 2019	Illustrative Apr. 2019 – Sep. 2019
Residential SOS rate	10.990¢/kWh	8.996¢/kWh
Monthly bill increase/(decrease)	$13.04/13.1%	($10.39)/-9.2%

Prepared by or under the supervision of: Scott M. McCabe

Calculation of October 2018 - March 2019 Residential Standard Offer Service Deferral at Illustrative SOS Rate of 10.990¢/kWh

		Total Forecasted Residential kWh	Residential Load on SOS in June 2018	Forecasted Residential SOS kWh	Cost in ¢ per kWh	Estimated Residential SOS Cost	Residential Base SOS Rate
		(a)	(b)	(c)	(d)	(e)	(f)
(1)	Oct-18	211,685,376	88.83%	188,040,120	10.062	$18,920,597	
(2)	Nov-18	201,168,881	88.83%	178,698,317	10.101	$18,050,317	
(3)	Dec-18	244,207,153	88.83%	216,929,214	11.321	$24,558,556	
(4)	Jan-19	276,441,428	88.83%	245,562,920	13.838	$33,980,997	
(5)	Feb-19	255,738,535	88.83%	227,172,541	14.347	$32,592,444	
(6)	Mar-19	240,370,533	88.83%	213,521,144	11.127	$23,758,498	
(7)				1,269,924,256		$151,861,409	$0.11958

(8)	Proposed Oct 18 - Mar 19 Base SOS Rate	$0.11958
(9)	SOS Admin Cost Factor	$0.00160
(10)	SOS Adjmt Factor	$0.00007
(11)	RES Charge	$0.00004
(12)	Total Proposed Residential SOS Rate	$0.12129
(13)	Target Residential SOS Rate	$0.10990
(14)	Deferred SOS Rate	$0.01139
(15)	Forecasted Residential SOS kWh	1,269,924,256
(16)	Deferred Residential SOS Cost	$14,464,437
(17)	Illustrative Oct 18 - Mar 19 Base SOS Rate including deferral	$0.10819

Column (a) per Company Forecast
Column (b): Percentage of Residential Standard Offer Service kWhs to Total Residential kWhs, per Attachment DIV 1-1(a), Page 2, Line (3)
Column (c): Column (a) x Column (b)
Column (d): Residential SOS rates per Attachment DIV 1-1(a), Page 1, Residential Group
Column (e): Column (c) x Column (d)
Column (f): Line (7), Column (e) ÷ Column (c), truncated to 5 decimal places

Line (7): Columns (c) and (e), Sum of Lines (1) through (6); Column (f), Column (e) ÷ Column (c), truncated to 5 decimal places
Line (8); Line (7), Column (f)
Lines (9) through (11): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2096 effective 7/1/2018
Line (12): Sum of Lines (8) through (11)
Line (13): Illustrative rate as per request in DIV 2-1
Line (14): Line (12) - Line (13)
Line (15): Line (7), Column (c)
Line (16): Line (14) x Line (15)
Line (17): Line (8) - Line (14)

Calculation of Illustrative April 2019 - September 2019 Residential Standard Offer Service Rate Including Deferral

		Total Forecasted Residential kWh	Residential Load on SOS in June 2018	Forecasted Residential SOS kWh	Cost in ¢ per kWh	Estimated Residential SOS Cost	Residential Base SOS Rate
		(a)	(b)	(c)	(d)	(e)	(f)
(1)	Apr-19	211,832,206	88.83%	188,170,549	10.243	$19,274,309	
(2)	May-19	202,509,053	88.83%	179,888,792	9.795	$17,620,107	
(3)	Jun-19	213,153,581	88.83%	189,344,326	7.032	$13,314,693	
(4)	Jul-19	289,629,018	88.83%	257,277,457	6.789	$17,466,567	
(5)	Aug-19	324,265,832	88.83%	288,045,339	6.707	$19,319,201	
(6)	Sep-19	270,291,405	88.83%	240,099,855	7.101	$17,049,491	
(7)				1,342,826,318		$104,044,368	$0.07748

(8)	Deferred Residential SOS Cost	$14,464,437
(9)	Forecasted Residential SOS kWh	1,342,826,318
(10)	Deferred SOS Rate	$0.01077
(11)	Illustrative Apr. 19 - Sept. 19 Base SOS Rate including deferral recovery	$0.08825
(12)	SOS Admin Cost Factor	$0.00160
(13)	SOS Adjmt Factor	$0.00007
(14)	RES Charge	$0.00004
(15)	Total Illustrative April 2019 - September 2019 Residential SOS Rate	$0.08996

Column (a) per Company Forecast
Column (b): Percentage of Residential Standard Offer Service kWhs to Total Residential kWhs, per Attachment DIV 1-1(a), Page 2, Line (3)
Column (c): Column (a) x Column (b)
Column (d): Illustrative Residential SOS rates per Attachment DIV 1-1(b), Page 1, Residential Group, Truncated to 5 decimal places
Column (e): Column (c) x Column (d)
Column (f): Line (7), Column (e) ÷ Column (c), truncated to 5 decimal places

Line (7): Columns (c) and (e), Sum of Lines (1) through (6); Column (f), Column (e) ÷ Column (c), truncated to 5 decimal places
Line (8); Page 1, Line (16), Column (f)
Line (9): Line (7), Column (c)
Line (10): Line (8) ÷ Line (9), truncated to 5 decimal places
Line (11): Line (7), Column (f) + Line (10), Column (f)
Lines (12) through (14): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2096 effective 7/1/2018
Line (15): Sum of Lines (11) through (14)

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to A-16 Rate Customers

Monthly kWh (a)	Present Rates Delivery Services (b)	Present Rates Supply Services (c)	Present Rates GET (d)	Present Rates Total (e)	Illustrative Rates Effective October 1, 2018 Delivery Services (b)	Illustrative Rates Effective October 1, 2018 Supply Services (c)	Illustrative Rates Effective October 1, 2018 GET (d)	Illustrative Rates Effective October 1, 2018 Total (e)	$ Increase (Decrease) Delivery Services (f)	$ Increase (Decrease) Supply Services (g)	$ Increase (Decrease) GET (h)	$ Increase (Decrease) Total (i)	Increase (Decrease) % of Total Bill Delivery Services (j)	Increase (Decrease) % of Total Bill Supply Services (k)	Increase (Decrease) % of Total Bill GET (l)	Increase (Decrease) % of Total Bill Total (m)	Percentage of Customers (n)
150	$20.57	$12.73	$1.39	$34.69	$20.57	$16.49	$1.54	$38.60	$0.00	$3.76	$0.15	$3.91	0.0%	10.8%	0.4%	11.3%	30.1%
300	$34.56	$25.46	$2.50	$62.52	$34.56	$32.97	$2.81	$70.34	$0.00	$7.51	$0.31	$7.82	0.0%	12.0%	0.5%	12.5%	12.9%
400	$43.88	$33.94	$3.24	$81.06	$43.88	$43.96	$3.66	$91.50	$0.00	$10.02	$0.42	$10.44	0.0%	12.4%	0.5%	12.9%	11.6%
500	$53.21	$42.43	$3.99	$99.63	$53.21	$54.95	$4.51	$112.67	$0.00	$12.52	$0.52	$13.04	0.0%	12.6%	0.5%	13.1%	9.6%
600	$62.53	$50.92	$4.73	$118.18	$62.53	$65.94	$5.35	$133.82	$0.00	$15.02	$0.62	$15.64	0.0%	12.7%	0.5%	13.2%	7.7%
700	$71.85	$59.40	$5.47	$136.72	$71.85	$76.93	$6.20	$154.98	$0.00	$17.53	$0.73	$18.26	0.0%	12.8%	0.5%	13.4%	19.0%
1,200	$118.47	$101.83	$9.18	$229.48	$118.47	$131.88	$10.43	$260.78	$0.00	$30.05	$1.25	$31.30	0.0%	13.1%	0.5%	13.6%	6.8%
2,000	$193.05	$169.72	$15.12	$377.89	$193.05	$219.80	$17.20	$430.05	$0.00	$50.08	$2.08	$52.16	0.0%	13.3%	0.6%	13.8%	2.3%

		Present Rates (o)	Illustrative Rates Effective October 1, 2018 (p)	Line Item on Bill
(1)	Distribution Customer Charge	$5.00	$5.00	Customer Charge
(2)	LIHEAP Enhancement Charge	$0.81	$0.81	LIHEAP Enhancement Charge
(3)	Renewable Energy Growth Program Charge	$0.78	$0.78	RE Growth Program
(4)	Distribution Charge (per kWh)	$0.03664	$0.03664	Distribution Energy Charge
(5)	Operating & Maintenance Expense Charge	$0.00175	$0.00175	
(6)	Operating & Maintenance Expense Reconciliation Factor	($0.00001)	($0.00001)	
(7)	FY18 CapEx Factor Charge	$0.00355	$0.00355	
(8)	CapEx Reconciliation Factor	($0.00135)	($0.00135)	
(9)	Revenue Decoupling Adjustment Factor	$0.00184	$0.00184	
(10)	Pension Adjustment Factor	($0.00085)	($0.00085)	
(11)	Storm Fund Replenishment Factor	$0.00288	$0.00288	
(12)	Arrearage Management Adjustment Factor	$0.00002	$0.00002	
(13)	Long-term Contracting for Renewable Energy Charge	$0.00647	$0.00647	Renewable Energy Distribution Charge
(14)	Net Metering Charge	$0.00043	$0.00043	
(15)	Base Transmission Charge	$0.03154	$0.03154	Transmission Charge
(16)	Transmission Adjustment Factor	$0.00076	$0.00076	
(17)	Transmission Uncollectible Factor	$0.00041	$0.00041	
(18)	Base Transition Charge	($0.00083)	($0.00083)	Transition Charge
(19)	Transition Adjustment	($0.00004)	($0.00004)	
(20)	Energy Efficiency Program Charge	$0.01002	$0.01002	Energy Efficiency Programs
(21)	Standard Offer Service Base Charge	$0.08315	$0.10819	Supply Services Energy Charge
(22)	SOS Adjustment Factor	$0.00007	$0.00007	
(23)	SOS Adminstrative Cost Adjustment Factor	$0.00160	$0.00160	
(24)	Renewable Energy Standard Charge	$0.00004	$0.00004	

	Line Item on Bill			
(25)	Customer Charge		$5.00	$5.00
(26)	LIHEAP Enhancement Charge		$0.81	$0.81
(27)	RE Growth Program		$0.78	$0.78
(28)	Transmission Charge	kWh x	$0.03271	$0.03271
(29)	Distribution Energy Charge	kWh x	$0.04447	$0.04447
(30)	Transition Charge	kWh x	($0.00087)	($0.00087)
(31)	Energy Efficiency Programs	kWh x	$0.01002	$0.01002
(32)	Renewable Energy Distribution Charge	kWh x	$0.00690	$0.00690
(33)	Supply Services Energy Charge	kWh x	$0.08486	$0.10990

Column (o): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 7/1/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 7/1/2018
Column (p): Lines (1) through (20), (22) through (24) per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 7/1/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 7/1/2018
Line (21): Illustrative Residential Standard Offer Service Base Rate per Attachment DIV 2-1(a), Page 1, Line (17)

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to A-60 Rate Customers

Monthly kWh	Present Rates				Illustrative Rates Effective October 1, 2018				$ Increase (Decrease)				Increase (Decrease) % of Total Bill				Percentage of Customers
	Delivery Services	Supply Services	GET	Total	Delivery Services	Supply Services	GET	Total	Delivery Services	Supply Services	GET	Total	Delivery Services	Supply Services	GET	Total	
(a)	(b)	(c)	(d)	(e)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)
150	$13.55	$12.73	$1.10	$27.38	$13.55	$16.49	$1.25	$31.29	$0.00	$3.76	$0.15	$3.91	0.0%	13.7%	0.5%	14.3%	32.1%
300	$25.52	$25.46	$2.12	$53.10	$25.52	$32.97	$2.44	$60.93	$0.00	$7.51	$0.32	$7.83	0.0%	14.1%	0.6%	14.7%	15.4%
400	$33.49	$33.94	$2.81	$70.24	$33.49	$43.96	$3.23	$80.68	$0.00	$10.02	$0.42	$10.44	0.0%	14.3%	0.6%	14.9%	12.5%
500	$41.47	$42.43	$3.50	$87.40	$41.47	$54.95	$4.02	$100.44	$0.00	$12.52	$0.52	$13.04	0.0%	14.3%	0.6%	14.9%	9.6%
600	$49.45	$50.92	$4.18	$104.55	$49.45	$65.94	$4.81	$120.20	$0.00	$15.02	$0.63	$15.65	0.0%	14.4%	0.6%	15.0%	7.2%
700	$57.42	$59.40	$4.87	$121.69	$57.42	$76.93	$5.60	$139.95	$0.00	$17.53	$0.73	$18.26	0.0%	14.4%	0.6%	15.0%	16.4%
1,200	$97.30	$101.83	$8.30	$207.43	$97.30	$131.88	$9.55	$238.73	$0.00	$30.05	$1.25	$31.30	0.0%	14.5%	0.6%	15.1%	5.2%
2,000	$161.11	$169.72	$13.78	$344.61	$161.11	$219.80	$15.87	$396.78	$0.00	$50.08	$2.09	$52.17	0.0%	14.5%	0.6%	15.1%	1.6%

		Present Rates	Illustrative Rates Effective October 1, 2018	Line Item on Bill
		(o)	(p)	
(1)	Distribution Customer Charge	$0.00	$0.00	Customer Charge
(2)	LIHEAP Enhancement Charge	$0.81	$0.81	LIHEAP Enhancement Charge
(3)	Renewable Energy Growth Program Charge	$0.78	$0.78	RE Growth Program
(4)	Distribution Charge (per kWh)	$0.02317	$0.02317	
(5)	Operating & Maintenance Expense Charge	$0.00175	$0.00175	
(6)	Operating & Maintenance Expense Reconciliation Factor	($0.00001)	($0.00001)	
(7)	FY18 CapEx Factor Charge	$0.00355	$0.00355	
(8)	CapEx Reconciliation Factor	($0.00135)	($0.00135)	Distribution Energy Charge
(9)	Revenue Decoupling Adjustment Factor	$0.00184	$0.00184	
(10)	Pension Adjustment Factor	($0.00085)	($0.00085)	
(11)	Storm Fund Replenishment Factor	$0.00288	$0.00288	
(12)	Arrearage Management Adjustment Factor	$0.00002	$0.00002	
(13)	Long-term Contracting for Renewable Energy Charge	$0.00647	$0.00647	Renewable Energy Distribution Charge
(14)	Net Metering Charge	$0.00043	$0.00043	
(15)	Base Transmission Charge	$0.03154	$0.03154	
(16)	Transmission Adjustment Factor	$0.00076	$0.00076	Transmission Charge
(17)	Transmission Uncollectible Factor	$0.00041	$0.00041	
(18)	Base Transition Charge	($0.00083)	($0.00083)	Transition Charge
(19)	Transition Adjustment	($0.00004)	($0.00004)	
(20)	Energy Efficiency Program Charge	$0.01002	$0.01002	Energy Efficiency Programs
(21)	Standard Offer Service Base Charge	$0.08315	$0.10819	
(22)	SOS Adjustment Factor	$0.00007	$0.00007	Supply Services Energy Charge
(23)	SOS Adminstrative Cost Adjustment Factor	$0.00160	$0.00160	
(24)	Renewable Energy Standard Charge	$0.00004	$0.00004	
	Line Item on Bill			
(25)	Customer Charge	$0.00	$0.00	
(26)	LIHEAP Enhancement Charge	$0.81	$0.81	
(27)	RE Growth Program	$0.78	$0.78	
(28)	Transmission Charge	$0.03271	$0.03271	
(29)	Distribution Energy Charge	$0.03100	$0.03100	
(30)	Transition Charge	($0.00087)	($0.00087)	
(31)	Energy Efficiency Programs	$0.01002	$0.01002	
(32)	Renewable Energy Distribution Charge	$0.00690	$0.00690	
(33)	Supply Services Energy Charge	$0.08486	$0.10990	

Column (o): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 7/1/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 7/1/2018
Column (p): Lines (1) through (20), (22) through (24) per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 7/1/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 7/1/2018
Line (21): Illustrative Residential Standard Offer Service Base Rate per Attachment DIV 2-1(a), Page 1, Line (17)

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to A-16 Rate Customers

Monthly kWh (a)	Illustrative Rates as per DIV 2-1(a), Page 1				Illustrative Rates Effective April 1, 2019				$ Increase (Decrease)				Increase (Decrease) % of Total Bill				Percentage of Customers (n)
	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (f)	Supply Services (g)	GET (h)	Total (i)	Delivery Services (j)	Supply Services (k)	GET (l)	Total (m)	
150	$20.57	$16.49	$1.54	$38.60	$20.57	$13.49	$1.42	$35.48	$0.00	($3.00)	($0.12)	($3.12)	0.0%	-7.8%	-0.3%	-8.1%	30.1%
300	$34.56	$32.97	$2.81	$70.34	$34.56	$26.99	$2.56	$64.11	$0.00	($5.98)	($0.25)	($6.23)	0.0%	-8.5%	-0.4%	-8.9%	12.9%
400	$43.88	$43.96	$3.66	$91.50	$43.88	$35.98	$3.33	$83.19	$0.00	($7.98)	($0.33)	($8.31)	0.0%	-8.7%	-0.4%	-9.1%	11.6%
500	$53.21	$54.95	$4.51	$112.67	$53.21	$44.98	$4.09	$102.28	$0.00	($9.97)	($0.42)	($10.39)	0.0%	-8.8%	-0.4%	-9.2%	9.6%
600	$62.53	$65.94	$5.35	$133.82	$62.53	$53.98	$4.85	$121.36	$0.00	($11.96)	($0.50)	($12.46)	0.0%	-8.9%	-0.4%	-9.3%	7.7%
700	$71.85	$76.93	$6.20	$154.98	$71.85	$62.97	$5.62	$140.44	$0.00	($13.96)	($0.58)	($14.54)	0.0%	-9.0%	-0.4%	-9.4%	19.0%
1,200	$118.47	$131.88	$10.43	$260.78	$118.47	$107.95	$9.43	$235.85	$0.00	($23.93)	($1.00)	($24.93)	0.0%	-9.2%	-0.4%	-9.6%	6.8%
2,000	$193.05	$219.80	$17.20	$430.05	$193.05	$179.92	$15.54	$388.51	$0.00	($39.88)	($1.66)	($41.54)	0.0%	-9.3%	-0.4%	-9.7%	2.3%

		Illustrative Rates as per DIV 2-1(a), Page 1 (o)	Illustrative Rates Effective April 1, 2019 (p)	Line Item on Bill
(1)	Distribution Customer Charge	$5.00	$5.00	Customer Charge
(2)	LIHEAP Enhancement Charge	$0.81	$0.81	LIHEAP Enhancement Charge
(3)	Renewable Energy Growth Program Charge	$0.78	$0.78	RE Growth Program
(4)	Distribution Charge (per kWh)	$0.03664	$0.03664	Distribution Energy Charge
(5)	Operating & Maintenance Expense Charge	$0.00175	$0.00175	
(6)	Operating & Maintenance Expense Reconciliation Factor	($0.00001)	($0.00001)	
(7)	FY18 CapEx Factor Charge	$0.00355	$0.00355	
(8)	CapEx Reconciliation Factor	($0.00135)	($0.00135)	
(9)	Revenue Decoupling Adjustment Factor	$0.00184	$0.00184	
(10)	Pension Adjustment Factor	($0.00085)	($0.00085)	
(11)	Storm Fund Replenishment Factor	$0.00288	$0.00288	
(12)	Arrearage Management Adjustment Factor	$0.00002	$0.00002	
(13)	Long-term Contracting for Renewable Energy Charge	$0.00647	$0.00647	Renewable Energy Distribution Charge
(14)	Net Metering Charge	$0.00043	$0.00043	
(15)	Base Transmission Charge	$0.03154	$0.03154	Transmission Charge
(16)	Transmission Adjustment Factor	$0.00076	$0.00076	
(17)	Transmission Uncollectible Factor	$0.00041	$0.00041	
(18)	Base Transition Charge	($0.00083)	($0.00083)	Transition Charge
(19)	Transition Adjustment	($0.00004)	($0.00004)	
(20)	Energy Efficiency Program Charge	$0.01002	$0.01002	Energy Efficiency Programs
(21)	Standard Offer Service Base Charge	$0.10819	$0.08825	Supply Services Energy Charge
(22)	SOS Adjustment Factor	$0.00007	$0.00007	
(23)	SOS Adminstrative Cost Adjustment Factor	$0.00160	$0.00160	
(24)	Renewable Energy Standard Charge	$0.00004	$0.00004	

	Line Item on Bill			
(25)	Customer Charge		$5.00	$5.00
(26)	LIHEAP Enhancement Charge		$0.81	$0.81
(27)	RE Growth Program		$0.78	$0.78
(28)	Transmission Charge	kWh x	$0.03271	$0.03271
(29)	Distribution Energy Charge	kWh x	$0.04447	$0.04447
(30)	Transition Charge	kWh x	($0.00087)	($0.00087)
(31)	Energy Efficiency Programs	kWh x	$0.01002	$0.01002
(32)	Renewable Energy Distribution Charge	kWh x	$0.00690	$0.00690
(33)	Supply Services Energy Charge	kWh x	$0.10990	$0.08996

Column (o): Lines (1) through (20), (22) through (24) per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 7/1/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 7/1/2018; Line (2
per Attachment DIV 2-1(a), Page 1, Line (17)
Column (p): Lines (1) through (20), (22) through (24) per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 7/1/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 7/1/2018
Line (21): per Attachment DIV 2-1(a), Page 2, Line (11)

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to A-60 Rate Customers

Monthly kWh	Present Rates				Illustrative Rates Effective April 1, 2019				$ Increase (Decrease)				Increase (Decrease) % of Total Bill				Percentage of Customers
	Delivery Services	Supply Services	GET	Total	Delivery Services	Supply Services	GET	Total	Delivery Services	Supply Services	GET	Total	Delivery Services	Supply Services	GET	Total	
(a)	(b)	(c)	(d)	(e)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)
150	$13.55	$16.49	$1.25	$31.29	$13.55	$13.49	$1.13	$28.17	$0.00	($3.00)	($0.12)	($3.12)	0.0%	-9.6%	-0.4%	-10.0%	32.1%
300	$25.52	$32.97	$2.44	$60.93	$25.52	$26.99	$2.19	$54.70	$0.00	($5.98)	($0.25)	($6.23)	0.0%	-9.8%	-0.4%	-10.2%	15.4%
400	$33.49	$43.96	$3.23	$80.68	$33.49	$35.98	$2.89	$72.36	$0.00	($7.98)	($0.34)	($8.32)	0.0%	-9.9%	-0.4%	-10.3%	12.5%
500	$41.47	$54.95	$4.02	$100.44	$41.47	$44.98	$3.60	$90.05	$0.00	($9.97)	($0.42)	($10.39)	0.0%	-9.9%	-0.4%	-10.3%	9.6%
600	$49.45	$65.94	$4.81	$120.20	$49.45	$53.98	$4.31	$107.74	$0.00	($11.96)	($0.50)	($12.46)	0.0%	-10.0%	-0.4%	-10.4%	7.2%
700	$57.42	$76.93	$5.60	$139.95	$57.42	$62.97	$5.02	$125.41	$0.00	($13.96)	($0.58)	($14.54)	0.0%	-10.0%	-0.4%	-10.4%	16.4%
1,200	$97.30	$131.88	$9.55	$238.73	$97.30	$107.95	$8.55	$213.80	$0.00	($23.93)	($1.00)	($24.93)	0.0%	-10.0%	-0.4%	-10.4%	5.2%
2,000	$161.11	$219.80	$15.87	$396.78	$161.11	$179.92	$14.21	$355.24	$0.00	($39.88)	($1.66)	($41.54)	0.0%	-10.1%	-0.4%	-10.5%	1.6%

		Illustrative Rates as per DIV 2-1(a), Page 1	Illustrative Rates Effective April 1, 2019	Line Item on Bill
		(o)	(p)	
(1)	Distribution Customer Charge	$0.00	$0.00	Customer Charge
(2)	LIHEAP Enhancement Charge	$0.81	$0.81	LIHEAP Enhancement Charge
(3)	Renewable Energy Growth Program Charge	$0.78	$0.78	RE Growth Program
(4)	Distribution Charge (per kWh)	$0.02317	$0.02317	
(5)	Operating & Maintenance Expense Charge	$0.00175	$0.00175	
(6)	Operating & Maintenance Expense Reconciliation Factor	($0.00001)	($0.00001)	
(7)	FY18 CapEx Factor Charge	$0.00355	$0.00355	
(8)	CapEx Reconciliation Factor	($0.00135)	($0.00135)	Distribution Energy Charge
(9)	Revenue Decoupling Adjustment Factor	$0.00184	$0.00184	
(10)	Pension Adjustment Factor	($0.00085)	($0.00085)	
(11)	Storm Fund Replenishment Factor	$0.00288	$0.00288	
(12)	Arrearage Management Adjustment Factor	$0.00002	$0.00002	
(13)	Long-term Contracting for Renewable Energy Charge	$0.00647	$0.00647	Renewable Energy Distribution Charge
(14)	Net Metering Charge	$0.00043	$0.00043	
(15)	Base Transmission Charge	$0.03154	$0.03154	
(16)	Transmission Adjustment Factor	$0.00076	$0.00076	Transmission Charge
(17)	Transmission Uncollectible Factor	$0.00041	$0.00041	
(18)	Base Transition Charge	($0.00083)	($0.00083)	Transition Charge
(19)	Transition Adjustment	($0.00004)	($0.00004)	
(20)	Energy Efficiency Program Charge	$0.01002	$0.01002	Energy Efficiency Programs
(21)	Standard Offer Service Base Charge	$0.10819	$0.08825	
(22)	SOS Adjustment Factor	$0.00007	$0.00007	Supply Services Energy Charge
(23)	SOS Adminstrative Cost Adjustment Factor	$0.00160	$0.00160	
(24)	Renewable Energy Standard Charge	$0.00004	$0.00004	
	Line Item on Bill			
(25)	Customer Charge	$0.00	$0.00	
(26)	LIHEAP Enhancement Charge	$0.81	$0.81	
(27)	RE Growth Program	$0.78	$0.78	
(28)	Transmission Charge	$0.03271	$0.03271	
(29)	Distribution Energy Charge	$0.03100	$0.03100	
(30)	Transition Charge	($0.00087)	($0.00087)	
(31)	Energy Efficiency Programs	$0.01002	$0.01002	
(32)	Renewable Energy Distribution Charge	$0.00690	$0.00690	
(33)	Supply Services Energy Charge	$0.10990	$0.08996	

Column (o): Lines (1) through (20), (22) through (24) per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 7/1/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 7/1/2018; Line (2
per Attachment DIV 2-1(a), Page 1, Line (17)
Column (p): Lines (1) through (20), (22) through (24) per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 7/1/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 7/1/2018
Line (21): per Attachment DIV 2-1(a), Page 2, Line (11)