Schedule HSG-1 (REV-1)

Allocated Cost of Service for the Rate Year Revenue Requirement

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)

Index to Class Cost of Service Study

Exhibit	Description
HSG-1 Index (REV-1)	Index to Class Cost of Service Study
HSG-1A (REV-1)	Summary of Results
HSG-1B (REV-1)	Class Allocations- Total
HSG-1C-1 (REV-1)	Unit Costs By Functional Classification
HSG-1C-2 (REV-1)	Temporary Turn-Off Charge for Lighting
HSG-1C-3 (REV-1)	S-05 kWh Rate
HSG-1C-4 (REV-1)	Transformer Costs
HSG-1C-5 (REV-1)	Meter Costs
HSG-1D (REV-1)	Functionalization
HSG-1E (REV-1)	Classification
HSG-1F-1 (REV-1)	Class Allocation- SubTransmission Demand
HSG-1F-2 (REV-1)	Class Allocation- Primary Demand
HSG-1F-3 (REV-1)	Class Allocation- Secondary Demand
HSG-1F-4 (REV-1)	Class Allocation- Secondary Customer
HSG-1F-5 (REV-1)	Class Allocation- Billing Customer
HSG-1G-1 (REV-1)	Allocator Assignments
HSG-1G-2 (REV-1)	Functionalization Factors
HSG-1G-3 (REV-1)	Classification Factors
HSG-1G-4 (REV-1)	Class Allocation Factors

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1 Index (REV-1)
Page 1 of 1

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)

Summary of Results

Line	Account	Balance	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
1	Distribution revenue	270,662	144,451	28,729	42,965	38,950	6,584	8,291	692
2	Late Payments Charges	1,657	884	176	263	238	40	51	4
3	Other revenue	6,873	3,833	758	1,148	802	162	163	7
4	Total Revenue	279,192	149,168	29,663	44,377	39,991	6,786	8,504	703
5									
6	Expenses	246,609	138,729	27,047	36,531	30,458	6,145	7,511	187
7	Net income	32,583	10,439	2,616	7,845	9,533	641	993	517
8									
9	Rate Base	726,440	402,348	74,498	116,382	103,024	21,752	8,229	207
10									
11	Return on Rate Base	4.4853%	2.59%	3.51%	6.74%	9.25%	2.95%	12.07%	249.87%
12	*Relative Return*	*1.00*	*0.58*	*0.78*	*1.50*	*2.06*	*0.66*	*2.69*	*55.71*
13	Revenue Requirement	306,626	173,307	33,330	45,688	38,106	8,001	8,080	115
14									
15	Operating expenses	150,755	85,415	16,558	21,889	17,209	3,736	5,877	71
16	Uncollectibles- Delivery	4,479	2,532	487	667	557	117	118	2
17	Depreciation expense	50,933	29,970	5,787	6,943	6,207	1,173	839	14
18	General tax / Other	35,648	19,494	3,851	5,805	4,941	1,034	512	10
19	GRT	0	0	0	0	0	0	0	0
20		241,815	137,411	26,683	35,304	28,914	6,060	7,346	96
21	Pre-tax income	64,811	35,897	6,647	10,383	9,192	1,941	734	18
22	Income taxes	10,837	6,002	1,111	1,736	1,537	325	123	3
23	Net income	53,974	29,894	5,535	8,647	7,655	1,616	611	15
24									
25	Return on Rate Base	7.43%	7.43%	7.43%	7.43%	7.43%	7.43%	7.43%	7.43%
26									
27	Revenue increase (decrease)	27,434	24,139	3,667	1,311	(1,885)	1,215	(424)	(589)
28	Revenue increase (decrease) %	9.83%	16.18%	12.4%	2.95%	(4.7%)	17.90%	(5.0%)	(83.7%)
29	Relative incr (decr)	*1.00*	*1.65*	*1.26*	*0.30*	*(0.48)*	*1.82*	*(0.51)*	*(8.52)*

Total
Sch. HSG-1B (REV-1)
Tot
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocations- Total

Line	Account	No.	Balance	Check	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
1	I. ELECTRIC PLANT IN SERVICE										
2	A. HYDRO PRODUCTION PL/										
3	Production Plant	302	3,126	0	1,281	260	561	812	175	27	10
4	Hydro Production Plant		3,126	0	1,281	260	561	812	175	27	10
5											
6	C. TRANSMISSION PLANT										
7	Transmission Plant	361	-	0	-	-	-	-	-	-	-
8	Transmission Plant	350-359	-	0	-	-	-	-	-	-	-
9											
10	D. DISTRIBUTION PLANT										
11	Land and Land Rights	360	12,970	0	6,331	1,264	2,135	2,561	575	103	-
12	Structures and Improvements	361	10,145	0	4,952	989	1,670	2,003	450	81	-
13	Station Equipment	362	254,614	0	124,278	24,818	41,915	50,275	11,297	2,030	-
14	Poles, Towers and Fixtures	364	237,915	0	134,708	26,901	44,941	23,782	5,339	2,201	43
15	OH Conductors and Devices	365	308,051	0	167,007	33,351	55,885	39,995	8,974	2,729	110
16	UG Conduit	366	71,882	0	36,969	7,383	12,418	11,814	2,649	604	45
17	UG Conductors & Devices	367	173,809	0	87,818	17,537	29,536	30,478	6,827	1,435	179
18	Line Transformers	368	189,828	0	90,559	19,824	41,822	34,688	2,935	-	-
19	Services	369	107,009	0	95,006	10,647	1,328	27	0	-	-
20	Meters	370	57,072	0	32,234	16,965	6,034	1,825	7	-	7
21	Install on Cust Premises	371	120	0	104	12	2	0	0	1	0
22	Street Light & Signal	373	39,684	0	-	-	-	-	-	39,684	-
23	Electric Plant ARO	374	-	0	-	-	-	-	-	-	-
24	Distribution Plant	360-373	1,463,099	0	779,965	159,692	237,685	197,449	39,055	48,868	384
25											
26	E. GENERAL PLANT										
27	Land and Land Rights	389	-	0	-	-	-	-	-	-	-
28	General Plant	390	47,682	0	26,710	5,362	6,982	5,314	1,162	2,132	21
29	General Plant	389-399	47,682	0	26,710	5,362	6,982	5,314	1,162	2,132	21
30											
31	TOTAL UTILITY PLANT		1,513,907	0	807,956	165,315	245,228	203,574	40,392	51,027	415
32											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1B (REV-1)
Page 1 of 6

Total
Sch. HSG-1B (REV-1)
Tot
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocations- Total

Line	Account	No.	Balance	Check	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
33	II. DEPRECIATION RESERVE										
34	Production Plant	108.3	3,119	0	1,278	260	560	810	174	27	10
35	Structures and Improvements	108.5	5,100	0	2,489	497	840	1,007	226	41	-
36	Station Equipment	108.5	51,252	0	25,016	4,996	8,437	10,120	2,274	409	-
37	Poles, Towers and Fixtures	108.5	107,524	0	60,880	12,158	20,311	10,748	2,413	995	19
38	OH Conductors and Devices	108.5	127,510	0	69,128	13,805	23,132	16,555	3,715	1,129	46
39	UG Conduit	108.5	33,881	0	17,425	3,480	5,853	5,569	1,249	285	21
40	UG Conductors & Devices	108.5	67,415	0	34,062	6,802	11,456	11,821	2,648	556	69
41	Line Transformers	108.5	117,426	0	56,019	12,263	25,870	21,458	1,816	-	-
42	Services	108.5	41,311	0	36,677	4,110	513	11	0	-	-
43	Meters	108.5	46,003	0	25,983	13,675	4,864	1,471	6	-	5
44	Install on Cust Premises	108.5	10	0	9	1	0	0	0	0	0
45	Street Light & Signal	108.5	37,190	0	-	-	-	-	-	37,190	-
46	General Plant	108.5	14,663	0	8,214	1,649	2,147	1,634	357	656	6
47	Net Additions / Retirements	108.6	36,338	0	19,393	3,968	5,886	4,886	970	1,225	10
48	Depreciation Reserve	108	688,742	0	356,573	77,663	109,869	86,090	15,847	42,512	187
49											
50	III. OTHER RATE BASE ITEMS										
51	Property Held for Future Use		2,494	0	1,328	275	405	336	67	84	1
52	Unamortized Debt costs		5,116	0	2,834	525	820	726	153	58	1
53	Materials and Supp / Prepay		3,494	0	1,997	386	499	392	85	133	2
54	Injuries & Damages Reserve		-	0	-	-	-	-	-	-	-
55	Cash Working Capital		17,350	0	9,914	1,918	2,480	1,945	422	662	8
56	Accumulated Deferred FIT		(205,947)	0	(112,657)	(21,876)	(33,783)	(29,322)	(6,126)	(2,125)	(57)
57	Customer Deposits		(8,889)	0	(400)	(3,692)	(3,778)	(1,017)	-	(2)	-
58	Net Additions / Retirements		87,657	0	47,950	9,311	14,379	12,480	2,607	905	24
59	Other Rate Base	131-283	(98,725)	0	(49,035)	(13,153)	(18,978)	(14,460)	(2,792)	(286)	(21)
60											
61	TOTAL RATE BASE		726,440	0	402,348	74,498	116,382	103,024	21,752	8,229	207
62											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1B (REV-1)
Page 2 of 6

Total
Sch. HSG-1B (REV-1)
Tot
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocations- Total

Line	Account	No.	Balance	Check	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
63	I. OPERATING AND MAINTENANCE EXPENSES										
64	B. TRANSMISSION EXPENSE										
65	Transmission Expense		-	0	-	-	-	-	-	-	-
66	Transmission Expense		-	0	-	-	-	-	-	-	-
67											
68	C. DISTRIBUTION EXPENSE										
69	Purchased Power- Borderline	555	-	0	-	-	-	-	-	-	-
70	Dist Oper-Supervision & Eng	580	2,369	0	1,199	268	399	312	68	123	1
71	Dist Oper-Load Dispatching	581	2,427	0	995	202	435	630	136	21	7
72	Dist Oper-Substations	582	1,316	0	642	128	217	260	58	10	-
73	Dist Oper-Overhead Lines	583	2,678	0	1,480	296	495	313	70	24	1
74	Dist Oper-Underground Lines	584	370	0	187	37	63	65	15	3	0
75	Dist Oper-Outdoor Lighting	585	318	0	-	-	-	-	-	318	-
76	Dist Oper-Electric Meters	586	1,420	0	802	422	150	45	0	-	0
77	Dist Oper-Cust Install	587	102	0	41	8	18	27	6	1	0
78	Dist Oper-Misc Expenses	588	7,353	0	3,720	831	1,238	969	211	381	4
79	Dist Oper-Rents	589	295	0	157	32	48	40	8	10	0
80	Dist Maint-Supervision & Eng	590	1,033	0	523	117	174	136	30	53	1
81	Dist Maint-Structures	591	81	0	40	8	13	16	4	1	-
82	Dist Maint-Substations	592	1,670	0	815	163	275	330	74	13	-
83	Dist Maint-Overhead Lines	593	19,858	0	10,974	2,192	3,667	2,320	521	179	6
84	Dist Maint-Underground Lines	594	2,369	0	1,197	239	403	415	93	20	2
85	Dist Maint-Line Transformers	595	392	0	187	41	86	72	6	-	-
86	Dist Maint-Outdoor Lighting	596	916	0	-	-	-	-	-	916	-
87	Dist Maint-Electric Meters	597	57	0	32	17	6	2	0	-	0
88	Oper. & Maint. Exp.	500-599	45,024	0	22,991	5,000	7,687	5,952	1,298	2,073	23
89											
90	D. CUSTOMER ACCOUNTS AND SERVICE										
91	Supervision	901	707	0	604	69	22	4	2	6	0
92	Meter Reading Exp- Comp	902	383	0	216	114	40	12	0	-	0
93	Cust Recs & Coll	903	12,306	0	10,511	1,192	385	76	35	107	0
94	Uncollectible- Delivery	904	4,122	0	2,200	438	654	593	100	126	11
95	Misc Cust Acct	905	920	0	798	95	16	2	0	9	0
96	Customer Accts. Exp.	901-905	18,438	0	14,329	1,907	1,118	688	137	248	11
97											
98	Cust Service-Supervision	907	62	0	25	5	11	17	4	1	0
99	Cust Assistance Expenses	908	1,138	0	460	93	201	305	66	10	4
100	Info&Instruct Advertising Exp	9090	518	0	209	43	92	139	30	4	2
101	Cust Service-Misc Expenses	910	1,102	0	445	90	195	295	63	9	4
102	Demo & Selling Expenses	912	287	0	116	24	51	77	17	2	1
103	Sales-Misc Expenses	916	579	0	234	48	102	155	33	5	2
104	Customer Serv. Exp.		3,686	0	1,489	303	652	987	212	31	12
105	Customer Accts. & Serv. Exp.	901-919	22,124	0	15,818	2,210	1,770	1,675	350	280	23

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1B (REV-1)
Page 3 of 6

Total
Sch. HSG-1B (REV-1)
Tot
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocations- Total

Line	Account	No.	Balance	Check	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
106											
107	E. ADMINISTRATIVE AND GENERAL										
108	A&G-Salaries	920	18,783	0	10,522	2,112	2,750	2,093	458	840	8
109	A&G-Office Supplies	921	6,391	0	3,580	719	936	712	156	286	3
110	A&G-Outside Services	923	5,459	0	3,058	614	799	608	133	244	2
111	Property Insurance	924	8,210	0	4,382	897	1,330	1,104	219	277	2
112	Injuries & Damages Insurance	925	3,459	0	1,846	378	560	465	92	117	1
113	Employee Pensions & Benefits	926	24,688	0	13,829	2,776	3,615	2,751	601	1,104	11
114	Regulatory Comm Expenses	928	4,290	0	2,376	440	687	608	128	49	1
115	A&G-Misc Expenses	930200	2	0	1	0	0	1	0	0	0
116	A&G-Rents	931	16,246	0	9,100	1,827	2,379	1,810	396	726	7
117	A&G Maint-Gen Plant-Elec	935	201	0	113	23	29	22	5	9	0
118	Admin & Genl. Exp.	920-932	87,729	0	48,806	9,785	13,087	10,176	2,188	3,651	36
119	Total Operating Expenses		154,877	0	87,615	16,996	22,543	17,802	3,837	6,003	81
120											
121	II. DEPRECIATION EXPENSE										
122	Structures and Improvements		-	0	-	-	-	-	-	-	-
123	Station Equipment		5,698	0	2,781	555	938	1,125	253	45	-
124	Poles, Towers and Fixtures		2	0	1	0	0	0	0	0	0
125	OH Conductors and Devices		44	0	24	5	8	6	1	0	0
126	UG Conduit		18,322	0	9,423	1,882	3,165	3,011	675	154	12
127	UG Conductors & Devices		311	0	157	31	53	55	12	3	0
128	Line Transformers		7,052	0	3,364	736	1,554	1,289	109	-	-
129	Services		10,572	0	9,386	1,052	131	3	0	-	-
130	Meters		3,223	0	1,820	958	341	103	0	-	0
131	Install on Cust Premises		654	0	568	67	11	1	0	6	0
132	Street Light & Signal		476	0	-	-	-	-	-	476	-
133	General Plant		-	0	-	-	-	-	-	-	-
134	Net Additions / Retirements		4,579	0	2,445	500	741	615	122	154	1
135	Depreciation Expense	403	50,933	0	29,970	5,787	6,943	6,207	1,173	839	14
136											

Total
Sch. HSG-1B (REV-1)
Tot
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocations- Total

Line	Account	No.	Balance	Check	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
137	III. TAXES and OTHER										
138	A. GENERAL TAXES										
139	Municipal property tax	408140	30,530	0	16,701	3,243	5,008	4,347	908	315	8
140	Payroll related	408110	4,199	0	2,352	472	615	468	102	188	2
141	Other tax, Reg deferrals	408170	787	0	436	81	126	112	24	9	0
142	General Taxes		35,516	0	19,489	3,796	5,749	4,926	1,034	512	10
143											
144	B. FEDERAL / STATE INCOME TAXES										
145	Income Tax Exp		5,151	0	1,650	413	1,240	1,507	101	157	82
146	Income Taxes	409-411	5,151	0	1,650	413	1,240	1,507	101	157	82
147	Total Taxes	408-411	40,667	0	21,139	4,209	6,989	6,433	1,135	669	92
148											
149	Interest on Customer deposits		132	0	6	55	56	15	-	0	-
150	TOTAL EXPENSES		246,609	0	138,729	27,047	36,531	30,458	6,145	7,511	187
151					0						
152	IV. OPERATING REVENUES at Present Rates										
153	Distribution charge revenue		270,662	0	144,451	28,729	42,965	38,950	6,584	8,291	692
154	Forfeited discounts		1,657	0	884	176	263	238	40	51	4
155	Rent from Utility Property		2,885	0	1,633	326	545	288	65	27	1
156	Misc Service Revenue		1,368	0	730	145	217	197	33	42	3
157	Other revenue		594	0	317	63	94	85	14	18	2
158	CIAC / Cost Recovery		1,883	0	1,076	208	269	211	46	72	1
159	M1 Revenue		143	0	76	15	23	21	3	4	0
160	Operating Revenues		279,192	0	149,168	29,663	44,377	39,991	6,786	8,504	703
161											
162	TOTAL EXPENSES		246,609	0	138,729	27,047	36,531	30,458	6,145	7,511	187
163	V. NET INCOME at Present Rates		32,583	0	10,439	2,616	7,845	9,533	641	993	517
164			36,148		14,801	3,075	7,380	9,306	764	940	(118)

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1B (REV-1)
Page 5 of 6

Total
Sch. HSG-1B (REV-1)
Tot
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocations- Total

Line	Account	No.	Balance	Check		Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
165	SUMMARY REPORT											
166	Utility Revenues	440-446	270,662	0		144,451	28,729	42,965	38,950	6,584	8,291	692
167	Other Operating Revenues	450-456	8,530	0		4,717	934	1,411	1,041	202	214	11
168	Total Operating Revenues		279,192	0		149,168	29,663	44,377	39,991	6,786	8,504	703
169												
170	Distribution / Transmission	580-599	45,024	0		22,991	5,000	7,687	5,952	1,298	2,073	23
171	Customer Acctg & Service	901-919	22,124	0		15,818	2,210	1,770	1,675	350	280	23
172	Admin & General	920-932	87,729	0		48,806	9,785	13,087	10,176	2,188	3,651	36
173	Total Operating Expenses		154,877	0		87,615	16,996	22,543	17,802	3,837	6,003	81
174												
175	Depreciation Expense	403	50,933	0		29,970	5,787	6,943	6,207	1,173	839	14
176	Taxes Other Than Inc / Other	408	35,648	0		19,494	3,851	5,805	4,941	1,034	512	10
177	Income before Income tax		37,734	0		12,089	3,029	9,085	11,040	742	1,150	598
178	Income Taxes	409-411	5,151	0		1,650	413	1,240	1,507	101	157	82
179	NET INCOME		32,583	0		10,439	2,616	7,845	9,533	641	993	517
180												
181	RATE BASE		726,440	0		402,348	74,498	116,382	103,024	21,752	8,229	207
182	Return on Rate Base		4.49%			2.59%	3.51%	6.74%	9.25%	2.95%	12.07%	249.87%
183												
184	REVENUE REQUIREMENTS											
185	Target Rate of Return		7.4300%			7.4300%	7.4300%	7.4300%	7.4300%	7.4300%	7.4300%	7.4300%
186	Rate Base		726,440	0		402,348	74,498	116,382	103,024	21,752	8,229	207
187												
188	Operating expenses		150,755	0		85,415	16,558	21,889	17,209	3,736	5,877	71
189	Uncollectibles- Delivery		4,479	0		2,532	487	667	557	117	118	2
190	Depreciation expense		50,933	0		29,970	5,787	6,943	6,207	1,173	839	14
191	General taxes / Other		35,648	0		19,494	3,851	5,805	4,941	1,034	512	10
192	Subtotal- Operating Costs to recc		241,815	0		137,411	26,683	35,304	28,914	6,060	7,346	96
193												
194	Target Return on Rate Base- Aft		53,974	0		29,894	5,535	8,647	7,655	1,616	611	15
195	Income taxes to recover		10,837	0		6,002	1,111	1,736	1,537	325	123	3
196												
197	Subtotal- Rev Req before GRT		306,626		0	173,307	33,330	45,688	38,106	8,001	8,080	115
198	GRT needed		0	0.00%		0	0	0	0	0	0	0
199	TOTAL REVENUE REQ.		306,626		0	173,307	33,330	45,688	38,106	8,001	8,080	115
200												
201	Revenue at Present rates		279,192		0	149,168	29,663	44,377	39,991	6,786	8,504	703
202	Revenue Excess (Deficiency)		(27,434)		0	(24,139)	(3,667)	(1,311)	1,885	(1,215)	424	589

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1B (REV-1)
Page 6 of 6

FuncClass
Sch. HSG-1C-1 (REV-1)
Tot
Unit Cost

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Unit Costs By Functional Classification

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1C-1 (REV-1)
Sheet 1 of 1

	Account Description	Total	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
1	Demand-related								
2	SubTransmission	21,642	9,840	1,975	3,674	4,820	1,052	185	96
3	Primary Dist	142,923	70,119	13,968	23,484	27,901	6,259	1,189	2
4	Secondary Dist	72,870	43,776	8,891	15,542	3,697	364	597	2
5		237,435	123,736	24,834	42,701	36,419	7,675	1,971	100
6	Per kW / month-Transmission Level								
7	SubTransmission	$0.93	$0.87	$0.88	$0.97	$1.04	$1.03	$1.00	$0.72
8	Primary Dist	$6.15	$6.23	$6.22	$6.19	$6.04	$6.12	$6.47	$0.02
9	Secondary Dist	$3.13	$3.89	$3.96	$4.10	$0.80	$0.36	$3.25	$0.01
10	Total Per kW / month	$10.21	$11.00	$11.05	$11.25	$7.88	$7.50	$10.72	$0.75
11									
12	NCP_at_115	1,938	938	187	316	385	85	15	11
13									
14	Customer-related								
15	Primary Dist	0	0	0	0	0	0	0	0
16	Secondary Dist	25,512	17,240	1,965	356	110	22	5,819	0
17	Billing	43,679	32,331	6,530	2,631	1,578	304	291	14
18		69,191	49,571	8,496	2,987	1,687	326	6,109	14
19	Per monthly bill								
20	Primary Dist	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
21	Secondary Dist	$4.19	$3.26	$3.14	$3.39	$8.23	$141.53	$96.57	$20.63
22	Billing	$7.17	$6.12	$10.42	$25.07	$118.57	$1,944.31	$4.82	$1,147.80
23	**Per bill**	$11.36	$9.38	$13.56	$28.47	$126.80	$2,085.85	$101.40	$1,168.43
24			$7.80	$12.20	$53.78	$315.48	$3,145.17	$2.55	$1,075.89
25	Number of Bills	6,089,923	5,284,666	626,592	104,935	13,307	156	60,254	12
26									
27	Regulatory Asset Amortization								
28	Billing	0	0	0	0	0	0	0	0
29	Per MWh	-	-	-	-	-	-	-	-
30	Number of MWh	7,773,861	3,186,181	647,655	1,394,628	2,019,488	434,854	67,092	23,963
31									
32	Competitive								
33	Competitive	0	0	0	0	0	0	0	0
34	Open	0	0	0	0	0	0	0	0
35		0	0	0	0	0	0	0	0
36	Per monthly bill								
37	Competitive	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
38	Open	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
39		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
40									
41	Total revenue requirement	306,626	173,307	33,330	45,688	38,106	8,001	8,080	115

Temp-Off
Sch. HSG-1C-2 (REV-1)
Inp
Temp-Off

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Temporary Turn-Off Charge for Lighting

		FACILITIES ($000s)
1	Production Plant	$0
2	Transmission Plant	0
3	Distribution Plant	39,684
4	General Plant	1,757
5	**Total Gross Utility Plant**	41,441
6	Less: Depreciation Reserve	(38,725)
7	**Total Net Utility Plant**	2,716
8	Other Rate Base, net	314
9	**Total Rate Base**	3,030
10	**Return on Equity**	7.43%
11	Return on Rate Base	225
12		
13	Power Supply Expenses	0
14	Transmission O & M	0
15	Distribution O & M	0
16	Customer Accounts & Service	280
17	Administrative & General (A&G)	2,967
18	Depreciation	601
19	Taxes Other than Income	256
20	Customer Deposits	0
21	Income Tax	45
22	**Total Operating Expenses**	4,149
23	Other Operating Revenue	59
24	**Total Revenue Requirement**	4,316
25		
26	**TOTAL LIGHTING REVENUE REQUIREMENT**	8,080
27		
28	**PERCENTAGE**	53.4%

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1C-2 (REV-1)
Page 1 of 1

S-05
Sch. HSG-1C-3 (
Inp
S-05

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
S-05 kWh Rate

Line	Account	No.	Lighting Balance	Allocator	Facilities Costs	Distribution System Cost
1	I. ELECTRIC PLANT IN SERVICE					
2	A. HYDRO PRODUCTION PLANT					
3	Production Plant	302	27	None	-	27
4	Hydro Production Plant		27		-	27
5						
6	C. TRANSMISSION PLANT					
7	Transmission Plant	361	-	None	-	-
8	Transmission Plant	350-359	-		-	-
9						
10	D. DISTRIBUTION PLANT					
11	Land and Land Rights	360	103	None	-	103
12	Structures and Improvements	361	81	None	-	81
13	Station Equipment	362	2,030	None	-	2,030
14	Poles, Towers and Fixtures	364	2,201	None	-	2,201
15	OH Conductors and Devices	365	2,729	None	-	2,729
16	UG Conduit	366	604	None	-	604
17	UG Conductors & Devices	367	1,435	None	-	1,435
18	Line Transformers	368	-	Xfmr_Cost	-	-
19	Services	369	-	Services_Cost	-	-
20	Meters	370	-	None	-	-
21	Install on Cust Premises	371	1	None	-	1
22	Street Light & Signal	373	39,684	Lighting	39,684	-
23	Electric Plant ARO	374	-	None	-	-
24	Distribution Plant	360-373	48,868		39,684	9,184
25						
26	E. GENERAL PLANT					
27	Land and Land Rights	389	-	SecC-Lab	-	-
28	General Plant	390	2,132	SecC-Lab	1,757	375
29	General Plant	389-399	2,132		1,757	375
30						
31	TOTAL UTILITY PLANT		51,027		41,441	9,586
32						

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1C-3 (REV-1)
Page 1 of 6

S-05
Sch. HSG-1C-3 (
Inp
S-05

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
S-05 kWh Rate

Line	Account	No.	Lighting Balance	Allocator	Facilities Costs	Distribution System Cost
33	II. DEPRECIATION RESERVE					
34	Production Plant	108.3	27	None	-	27
35	Structures and Improvements	108.5	41	None	-	41
36	Station Equipment	108.5	409	None	-	409
37	Poles, Towers and Fixtures	108.5	995	None	-	995
38	OH Conductors and Devices	108.5	1,129	None	-	1,129
39	UG Conduit	108.5	285	None	-	285
40	UG Conductors & Devices	108.5	556	None	-	556
41	Line Transformers	108.5	-	Xfmr_Cost	-	-
42	Services	108.5	-	Services_Cost	-	-
43	Meters	108.5	-	None	-	-
44	Install on Cust Premises	108.5	0	None	-	0
45	Street Light & Signal	108.5	37,190	Lighting	37,190	-
46	General Plant	108.5	656	SecC-Lab	540	115
47	Net Additions / Retirements	108.6	1,225	SecC-PT	995	230
48	Depreciation Reserve	108	42,512		38,725	3,787
49						
50	III. OTHER RATE BASE ITEMS					
51	Property Held for Future Use		84	SecC-PT	68	16
52	Unamortized Debt costs		58	RateBase	5	53
53	Materials and Supp / Prepay		133	SecC-OpExp	106	28
54	Injuries & Damages Reserve		-	SecC-PT	-	-
55	Cash Working Capital		662	SecC-OpExp	525	137
56	Accumulated Deferred FIT		(2,125)	SecC-NetPT	(678)	(1,447)
57	Customer Deposits		(2)	None	-	(2)
58	Net Additions / Retirements		905	SecC-NetPT	288	616
59	Other Rate Base	131-283	(286)		314	(600)
60						
61	TOTAL RATE BASE		8,229		3,030	5,199
62						

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1C-3 (REV-1)
Page 2 of 6

S-05
Sch. HSG-1C-3 (
Inp
S-05

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
S-05 kWh Rate

Line	Account	No.	Lighting Balance	Allocator	Facilities Costs	Distribution System Cost
63	I. OPERATING AND MAINTENANCE EXPENSES					
64	B. TRANSMISSION EXPENSE					
65	Transmission Expense		-	None	-	-
66	Transmission Expense		-		-	-
67						
68	C. DISTRIBUTION EXPENSE					
69	Purchased Power- Borderline	555	-	None	-	-
70	Dist Oper-Supervision & Eng	580	123	SecC-Lab	104	18
71	Dist Oper-Load Dispatching	581	21	None	-	21
72	Dist Oper-Substations	582	10	None	-	10
73	Dist Oper-Overhead Lines	583	24	None	-	24
74	Dist Oper-Underground Lines	584	3	None	-	3
75	Dist Oper-Outdoor Lighting	585	318	Lighting	318	-
76	Dist Oper-Electric Meters	586	-	None	-	-
77	Dist Oper-Cust Install	587	1	None	-	1
78	Dist Oper-Misc Expenses	588	381	SecC-Lab	324	57
79	Dist Oper-Rents	589	10	SecC-PT	8	2
80	Dist Maint-Supervision & Eng	590	53	SecC-Lab	45	8
81	Dist Maint-Structures	591	1	None	-	1
82	Dist Maint-Substations	592	13	None	-	13
83	Dist Maint-Overhead Lines	593	179	None	-	179
84	Dist Maint-Underground Lines	594	20	None	-	20
85	Dist Maint-Line Transformers	595	-	Xfmr_Cost	-	-
86	Dist Maint-Outdoor Lighting	596	916	Lighting	916	-
87	Dist Maint-Electric Meters	597	-	None	-	-
88	Oper. & Maint. Exp.	500-599	2,073		1,715	358
89			2,073		1,715	358
90	D. CUSTOMER ACCOUNTS AND SERVICE					
91	Supervision	901	6	None	-	6
92	Meter Reading Exp- Comp	902	-	None	-	-
93	Cust Recs & Coll	903	107	None	-	107
94	Uncollectible- Delivery	904	126	None	-	126
95	Misc Cust Acct	905	9	None	-	9
96	Customer Accts. Exp.	901-905	248		-	248
97						
98	Cust Service-Supervision	907	1	None	-	1
99	Cust Assistance Expenses	908	10	None	-	10
100	Info&Instruct Advertising Exp	9090	4	None	-	4
101	Cust Service-Misc Expenses	910	9	None	-	9
102	Demo & Selling Expenses	912	2	None	-	2
103	Sales-Misc Expenses	916	5	None	-	5
104	Customer Serv. Exp.		31		-	31
105	Customer Accts. & Serv. Exp.	901-919	280		-	280

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1C-3 (REV-1)
Page 3 of 6

S-05
Sch. HSG-1C-3 (
Inp
S-05

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
S-05 kWh Rate

Line	Account	No.	Lighting Balance	Allocator	Facilities Costs	Distribution System Cost
106						
107	E. ADMINISTRATIVE AND GENERAL					
108	A&G-Salaries	920	840	SecC-Lab	692	148
109	A&G-Office Supplies	921	286	SecC-Lab	235	50
110	A&G-Outside Services	923	244	SecC-Lab	201	43
111	Property Insurance	924	277	SecC-PT	225	52
112	Injuries & Damages Insurance	925	117	SecC-PT	95	22
113	Employee Pensions & Benefits	926	1,104	SecC-Lab	910	194
114	Regulatory Comm Expenses	928	49	RateBase	4	45
115	A&G-Misc Expenses	930200	0	MWh-Gen	0	0
116	A&G-Rents	931	726	SecC-Lab	599	128
117	A&G Maint-Gen Plant-Elec	935	9	SecC-Lab	7	2
118	Admin & Genl. Exp.	920-932	3,651		2,967	683
119	Total Operating Expenses		6,003		4,683	1,321
120						
121	II. DEPRECIATION EXPENSE					
122	Structures and Improvements	403	-	None	-	-
123	Station Equipment	403	45	None	-	45
124	Poles, Towers and Fixtures	403	0	None	-	0
125	OH Conductors and Devices	403	0	None	-	0
126	UG Conduit	403	154	None	-	154
127	UG Conductors & Devices	403	3	None	-	3
128	Line Transformers	403	-	Xfmr_Cost	-	-
129	Services	403	-	Services_Cost	-	-
130	Meters	403	-	None	-	-
131	Install on Cust Premises	403	6	None	-	6
132	Street Light & Signal	403	476	Lighting	476	-
133	General Plant	403	-	SecC-Lab	-	-
134	Net Additions / Retirements	407300	154	SecC-PT	125	29
135	Depreciation Expense	403	839		601	238
136						

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1C-3 (REV-1)
Page 4 of 6

S-05
Sch. HSG-1C-3 (
Inp
S-05

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
S-05 kWh Rate

Line	Account	No.	Lighting Balance	Allocator	Facilities Costs	Distribution System Cost
137	III. TAXES and OTHER					
138	A. GENERAL TAXES					
139	Municipal property tax	408140	315	SecC-NetPt	100	215
140	Payroll related	408110	188	SecC-Lab	155	33
141	Other tax, Reg deferrals	408170	9	RateBase	1	8
142	General Taxes		512		256	256
143						
144	B. FEDERAL / STATE INCOME TAXES					
145	Income Tax Exp		157	SecC-Pretax	(659)	816
146	Income Taxes	409-411	157		(659)	816
147	Total Taxes	408-411	669		(403)	1,072
148						
149	Interest on Customer deposits		0	None	-	0
150	TOTAL EXPENSES		7,511		4,881	2,631
151						
152	IV. OPERATING REVENUES at Present Rates					
153	Distribution charge revenue		8,291	Total_Del_Rev	652	7,639
154	Forfeited discounts		51	None	-	51
155	Rent from Utility Property		27	None	-	27
156	Misc Service Revenue		42	Total_Del_Rev	-	42
157	Other revenue		18	Total_Del_Rev	1	17
158	CIAC / Cost Recovery		72	SecC-OpExp	57	15
159	M1 Revenue		4	Total_Del_Rev	0	4
160	Operating Revenues		8,504		710	7,794
161						
162	TOTAL EXPENSES		7,511		4,881	2,631
163	V. NET INCOME at Present Rat		993		(4,170)	5,163
164						

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1C-3 (REV-1)
Page 5 of 6

S-05
Sch. HSG-1C-3 (
Inp
S-05

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
S-05 kWh Rate

Line	Account	No.	Lighting Balance	Allocator	Facilities Costs	Distribution System Cost
165	SUMMARY REPORT					
166	Utility Revenues	440-446	8,291		652	7,639
167	Other Operating Revenues	450-456	214		59	155
168	Total Operating Revenues		8,504		710	7,794
169						
170	Distribution / Transmission	580-599	2,073		1,715	358
171	Customer Acctg & Service	901-919	280		0	280
172	Admin & General	920-932	3,651		2,967	683
173	Total Operating Expenses		6,003		4,683	1,321
174						
175	Depreciation Expense	403	839		601	238
176	Taxes Other Than Inc / Other	408	512		256	256
177	Income before Income tax		1,150		(4,830)	5,980
178	Income Taxes	409-411	157		(659)	816
179	NET INCOME		993		(4,170)	5,163
180						
181	RATE BASE		8,229		3,030	5,199
182	Return on Rate Base		12.07%			
183						
184	REVENUE REQUIREMENTS					
185	Target Rate of Return		7.4300%		7.4300%	7.4300%
186	Rate Base		8,229		3,030	5,199
187						
188	Operating expenses		5,877		4,683	1,195
189	Uncollectibles- Delivery		118	Total_RevReq	9	109
190	Depreciation expense		839		601	238
191	General taxes / Other		512		256	256
192	Subtotal- Operating Costs to recc		7,346		5,549	1,797
193						
194	Target Return on Rate Base- Aft		611		225	386
195	Income taxes to recover		123	SecC-RB	45	78
196						
197	Subtotal- Rev Req before GRT		8,080		5,819	2,261
198	GRT needed		0		0	0
199	TOTAL REVENUE REQ.		8,080		5,819	2,261
200	Streetlighting Rate Year kWh					62,049,950
201				Return	0.00622	
202	**Rate S-05 per kWh charge**			Costs and Other	0.03022	**0.03644**
203						

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1C-3 (REV-1)
Page 6 of 6

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HSG-1C-
Inp
Transforn

Narragansett Electric Company d/b/a National Gri
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)

Transformer Costs

	Account Description	Total
1	Line Transformer cost, net	72,402
2	Other Rate Base items, net	(8,662)
3	Line Transfomer-Related Rate Base	63,740
4	Rate of return on rate base	7.43%
5	Return on Service / Meter rate base	4,736
6	Income tax gross-up	951
7	**Return component**	**5,687**
8		
9	Maintenence-Line Transformers	392
10	Line Transformers share of A&G costs	512
11	Line Transformers Depreciation Expense	7,052
12	**Expense component**	**7,956**
13		
14	**Revenue requirement-total**	**13,643**
15		
16	Demand units	1,341,258
17		
18	**Transformer Cost per Month**	**$0.85**
19		
20	Annual Demand Units- B32/G32/B62/G62	3,442,070
21	Annual Billing Demand Units- B32/G32/B62/G62	7,608,765
22	**Convert NCP to Billing Units**	**$0.38**
23		
24	Distribution Plant in Service, net	825,165
25	Transformers % of Plant	8.8%
26	Other Rate Base items, net	(98,725)
27		
28	Distribution O&M	45,024
29	Customer Accounts	22,124
30		67,148
31	Line Transformers % of Operating Costs	0.6%
32	A&G Costs	87,729
33		
34	Income tax gross-up	20.1%

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1C-4 (REV-1)
Page 1 of 1

Meter
HSG-1C-5 (REV-1)
Inp
Meter Co

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Meter Costs

	Account Description	Total	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
1	Meter cost, net	11,069	6,252	3,290	1,170	354	1	0	1
2	ADIT- Services / Meters / Xfmrs	(7,836)	(4,495)	(2,245)	(831)	(263)	(1)	0	(1)
3	Service / Meter-Related Rate Base	3,233	1,757	1,045	339	91	0	0	0
4	Rate of return on rate base	7.43%	7.43%	7.43%	7.43%	7.43%	7.43%	7.43%	7.43%
5	Return on Service / Meter rate base	240	131	78	25	7	0	0	0
6	Income tax gross-up	48	26	16	5	1	0	0	0
7	Return component	288	157	93	30	8	0	0	0
8									
9	Meter expenses	1,420	802	422	150	45	0	0	0
10	Meter maintenance	57	32	17	6	2	0	0	0
11	Meter depreciation expense	3,223	1,820	958	341	103	0	0	0
12	Property tax- Meters	1,162	666	333	123	39	0	0	0
13	Labor-related costs	2,456	1,389	727	260	79	0	0	0
14	Cost component	8,317	4,710	2,457	880	268	1	0	1
15									
16	Total	8,606	4,867	2,550	910	277	1	0	1
17									
18	Number of Bills	6,089,923	5,284,666	626,592	104,935	13,307	156	60,254	12
19									
20	**Total per Customer-month**	**$1.41**	**$0.92**	**$4.07**	**$8.67**	**$20.78**	**$7.02**	**$0.00**	**$81.33**
21									

Meter
HSG-1C-5 (REV-1)
Inp
Meter Co

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Meter Costs

	Account Description	Total	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
22	Utility Plant in Service- Cost	1,513,907	807,956	165,315	245,228	203,574	40,392	51,027	415
23	Meters % of Plant	3.8%	4.0%	10.3%	2.5%	0.9%	0.0%	0.0%	1.6%
24	ADIT	(205,947)	(112,657)	(21,876)	(33,783)	(29,322)	(6,126)	(2,125)	(57)
25	Municipal property tax	30,530	16,701	3,243	5,008	4,347	908	315	8
26									
27	Income tax gross-up	20.08%	20.08%	20.08%	20.08%	20.08%	20.08%	20.08%	20.08%
28									
29	Labor costs included above	1,256	709	373	133	40	0	0	0
30	Total Labor costs	33,255	18,628	3,740	4,869	3,706	810	1,487	14
31	Portion of Labor included above	3.78%	3.81%	9.98%	2.73%	1.08%	0.02%	0.00%	1.01%
32									
33	**Labor-related Costs**								
34	A&G-Salaries	25,174	14,101	2,831	3,686	2,805	613	1,126	11
35	A&G-Office Supplies	5,459	3,058	614	799	608	133	244	2
36	A&G-Rents / General Plant	201	113	23	29	22	5	9	0
37	A&G Outside services	0							
38	Injuires & Damages	4,290	2,376	440	687	608	128	49	1
39	Employee benefits	24,688	13,829	2,776	3,615	2,751	601	1,104	11
40	PR taxes	4,199	2,352	472	615	468	102	188	2
41	General / Common Plant	1,012	653	124	98	38	17	81	1
42	Total Labor-related costs	65,023	36,482	7,281	9,530	7,302	1,601	2,800	28

Functions
Sch. HSG-1D (REV-1)
Fnc
Functiona

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Functionalization

Line	Account	No.	Balance	Allocator	SubTransmission	Primary Dist	Secondary Dist	Billing
1	I. ELECTRIC PLANT IN SERVICE							
2	A. HYDRO PRODUCTION PLANT							
3	Production Plant	302	3,126	SubT	3,126	-	-	-
4	Hydro Production Plant		3,126		3,126	0	0	0
5								
6	C. TRANSMISSION PLANT							
7	Transmission Plant	361	0	None	-	-	-	-
8	Transmission Plant	350-359	0		-	-	-	-
9								
10	D. DISTRIBUTION PLANT							
11	Land and Land Rights	360	12,970	Stations	-	12,970	-	-
12	Structures and Improvements	361	10,145	Stations	-	10,145	-	-
13	Station Equipment	362	254,614	Stations	-	254,614	-	-
14	Poles, Towers and Fixtures	364	237,915	Func-364	7,532	112,861	117,522	-
15	OH Conductors and Devices	365	308,051	Func-365	19,249	183,175	105,627	-
16	UG Conduit	366	71,882	Func-366	7,934	51,844	12,103	-
17	UG Conductors & Devices	367	173,809	Func-367	31,274	122,866	19,668	-
18	Line Transformers	368	189,828	Sec	-	-	189,828	-
19	Services	369	107,009	Sec	-	-	107,009	-
20	Meters	370	57,072	Bill	-	-	-	57,072
21	Install on Cust Premises	371	120	Bill	-	-	-	120
22	Street Light & Signal	373	39,684	Sec	-	-	39,684	-
23	Electric Plant ARO	374	0	None	-	-	-	-
24	Distribution Plant	360-373	1,463,099		65,989	748,476	591,442	57,192
25								
26	E. GENERAL PLANT							
27	Land and Land Rights	389	0	None	-	-	-	-
28	General Plant	390	47,682	Labor	5,023	19,609	12,743	10,307
29	General Plant	389-399	47,682		5,023	19,609	12,743	10,307
30								
31	TOTAL UTILITY PLANT		1,513,907		74,139	768,085	604,184	67,499
32								

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1D (REV-1)
Page 1 of 6

Functions
Sch. HSG-1D (REV-1)
Fnc
Function

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Functionalization

Line	Account	No.	Balance	Allocator	SubTransmission	Primary Dist	Secondary Dist	Billing
33	II. DEPRECIATION RESERVE							
34	Production Plant	108.3	3,119	SubT	3,119	-	-	-
35	Structures and Improvements	108.5	5,100	Stations	-	5,100	-	-
36	Station Equipment	108.5	51,252	Stations	-	51,252	-	-
37	Poles, Towers and Fixtures	108.5	107,524	Func-364	3,404	51,007	53,113	-
38	OH Conductors and Devices	108.5	127,510	Func-365	7,968	75,821	43,722	-
39	UG Conduit	108.5	33,881	Func-366	3,740	24,436	5,705	-
40	UG Conductors & Devices	108.5	67,415	Func-367	12,130	47,656	7,629	-
41	Line Transformers	108.5	117,426	Sec	-	-	117,426	-
42	Services	108.5	41,311	Sec	-	-	41,311	-
43	Meters	108.5	46,003	Bill	-	-	-	46,003
44	Install on Cust Premises	108.5	10	Bill	-	-	-	10
45	Street Light & Signal	108.5	37,190	Sec	-	-	37,190	-
46	General Plant	108.5	14,663	Labor	1,545	6,030	3,919	3,170
47	Net Additions / Retirements	108.6	36,338	Plant	1,780	18,436	14,502	1,620
48	Depreciation Reserve	108	688,742		33,685	279,738	324,516	50,803
49								
50	III. OTHER RATE BASE ITEMS							
51	Property Held for Future Use		2,494	Plant	122	1,265	995	111
52	Unamortized Debt costs		5,116	RateBase	260	3,034	1,744	78
53	Materials and Supp / Prepay		3,494	OpExp	310	1,369	903	911
54	Injuries & Damages Reserve		0	Plant	-	-	-	-
55	Cash Working Capital		17,350	OpExp	1,540	6,798	4,486	4,526
56	Accumulated Deferred FIT		(205,947)	NetPlant	(10,097)	(121,883)	(69,800)	(4,167)
57	Customer Deposits		(8,889)	Bill	-	-	-	(8,889)
58	Net Additions / Retirements		87,657	NetPlant	4,297	51,877	29,709	1,774
59	Other Rate Base	131-283	(98,725)		(3,567)	(57,540)	(31,962)	(5,657)
60								
61	TOTAL RATE BASE		726,440		36,886	430,807	247,707	11,040
62			*726,440*					

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1D (REV-1)
Page 2 of 6

Functions
Sch. HSG-1D (REV-1)
Fnc
Function

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Functionalization

Line	Account	No.	Balance	Allocator	SubTransmission	Primary Dist	Secondary Dist	Billing
63	I. OPERATING AND MAINTENANCE EXPENSES							
64	B. TRANSMISSION EXPENSE							
65	Transmission Expense		0	None	-	-	-	-
66	Transmission Expense		0		-	-	-	-
67								
68	C. DISTRIBUTION EXPENSE							
69	Purchased Power- Borderline	555	0	SubT	-	-	-	-
70	Dist Oper-Supervision & Eng	580	2,369	Dist-Lab	298	1,164	756	151
71	Dist Oper-Load Dispatching	581	2,427	SubT	2,427	-	-	-
72	Dist Oper-Substations	582	1,316	Stations	-	1,316	-	-
73	Dist Oper-Overhead Lines	583	2,678	OH_Total	131	1,452	1,095	-
74	Dist Oper-Underground Lines	584	370	Func-367	67	262	42	-
75	Dist Oper-Outdoor Lighting	585	318	Sec	-	-	318	-
76	Dist Oper-Electric Meters	586	1,420	Bill	-	-	-	1,420
77	Dist Oper-Cust Install	587	102	Func-364	3	48	50	-
78	Dist Oper-Misc Expenses	588	7,353	Dist-Lab	925	3,612	2,347	468
79	Dist Oper-Rents	589	295	Plant	14	150	118	13
80	Dist Maint-Supervision & Eng	590	1,033	Dist-Lab	130	507	330	66
81	Dist Maint-Structures	591	81	Stations	-	81	-	-
82	Dist Maint-Substations	592	1,670	Stations	-	1,670	-	-
83	Dist Maint-Overhead Lines	593	19,858	OH_Total	974	10,767	8,116	-
84	Dist Maint-Underground Lines	594	2,369	Func-367	426	1,675	268	-
85	Dist Maint-Line Transformers	595	392	Sec	-	-	392	-
86	Dist Maint-Outdoor Lighting	596	916	Sec	-	-	916	-
87	Dist Maint-Electric Meters	597	57	Bill	-	-	-	57
88	Oper. & Maint. Exp.	500-599	45,024		5,396	22,704	14,748	2,175
89			*45,024*	*Check*	5,396	22,704	14,748	2,175
90	D. CUSTOMER ACCOUNTS AND SERVICE							
91	Supervision	901	707	Bill	-	-	-	707
92	Meter Reading Exp- Comp	902	383	Bill	-	-	-	383
93	Cust Recs & Coll	903	12,306	Bill	-	-	-	12,306
94	Uncollectible- Delivery	904	4,122	Bill	-	-	-	4,122
95	Misc Cust Acct	905	920	BIll	-	-	-	920
96	Customer Accts. Exp.	901-905	18,438		-	-	-	18,438
97								
98	Cust Service-Supervision	907	62	Bill	-	-	-	62
99	Cust Assistance Expenses	908	1,138	Bill	-	-	-	1,138
100	Info&Instruct Advertising Exp	9090	518	Bill	-	-	-	518
101	Cust Service-Misc Expenses	910	1,102	Bill	-	-	-	1,102
102	Demo & Selling Expenses	912	287	Bill	-	-	-	287
103	Sales-Misc Expenses	916	579	Bill	-	-	-	579
104	Customer Serv. Exp.		3,686		-	-	-	3,686
105	Customer Accts. & Serv. Exp.	901-919	22,124		-	-	-	22,124

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1D (REV-1)
Page 3 of 6

Functions
Sch. HSG-1D (REV-1)
Fnc
Function

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Functionalization

Line	Account	No.	Balance	Allocator	SubTransmission	Primary Dist	Secondary Dist	Billing
106								
107	E. ADMINISTRATIVE AND GENERAL							
108	A&G-Salaries	920	18,783	Labor	1,979	7,724	5,020	4,060
109	A&G-Office Supplies	921	6,391	Labor	673	2,628	1,708	1,382
110	A&G-Outside Services	923	5,459	Labor	575	2,245	1,459	1,180
111	Property Insurance	924	8,210	Plant	402	4,165	3,277	366
112	Injuries & Damages Insurance	925	3,459	Plant	169	1,755	1,380	154
113	Employee Pensions & Benefits	926	24,688	Labor	2,601	10,153	6,598	5,337
114	Regulatory Comm Expenses	928	4,290	RateBase	218	2,544	1,463	65
115	A&G-Misc Expenses	930200	2	Plant	0	1	1	0
116	A&G-Rents	931	16,246	Labor	1,711	6,681	4,342	3,512
117	A&G Maint-Gen Plant-Elec	935	201	Labor	21	83	54	43
118	Admin & Genl. Exp.	920-932	87,729		8,350	37,980	25,300	16,100
119	Total Operating Expenses		154,877		13,746	60,684	40,048	40,399
120								
121	II. DEPRECIATION EXPENSE							
122	Structures and Improvements	403	0	Stations	-	-	-	-
123	Station Equipment	403	5,698	Stations	-	5,698	-	-
124	Poles, Towers and Fixtures	403	2	Func-364	0	1	1	-
125	OH Conductors and Devices	403	44	Func-365	3	26	15	-
126	UG Conduit	403	18,322	Func-366	2,022	13,215	3,085	-
127	UG Conductors & Devices	403	311	Func-367	56	220	35	-
128	Line Transformers	403	7,052	Sec	-	-	7,052	-
129	Services	403	10,572	Sec	-	-	10,572	-
130	Meters	403	3,223	Bill	-	-	-	3,223
131	Install on Cust Premises	403	654	Bill	-	-	-	654
132	Street Light & Signal	403	476	Sec	-	-	476	-
133	General Plant	403	0	Labor	-	-	-	-
134	Net Additions / Retirements	407300	4,579	Plant	224	2,323	1,827	204
135	Depreciation Expense	403	50,933		2,305	21,483	23,064	4,081
136								

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1D (REV-1)
Page 4 of 6

Functions
Sch. HSG-1D (REV-1)
Fnc
Functiona

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Functionalization

Line	Account	No.	Balance	Allocator	SubTransmission	Primary Dist	Secondary Dist	Billing
137	III. TAXES and OTHER							
138	A. GENERAL TAXES							
139	Municipal property tax	408140	30,530	NetPlant	1,497	18,068	10,347	618
140	Payroll related	408110	4,199	Labor	442	1,727	1,122	908
141	Other tax, Reg deferrals	408170	787	RateBase	40	467	268	12
142	General Taxes		35,516		1,979	20,262	11,738	1,537
143								
144	B. FEDERAL / STATE INCOME TAXES							
145	Income Tax Exp		5,151	Pretax	226	3,337	1,893	(305)
146	Income Taxes	409-411	5,151		226	3,337	1,893	(305)
147	Total Taxes	408-411	40,667		2,205	23,599	13,631	1,232
148								
149	Interest on Customer deposits		132	Bill	-	-	-	132
150	TOTAL EXPENSES		246,609		18,256	105,766	76,743	45,844
151								
152	IV. OPERATING REVENUES at Present Rates							
153	Distribution charge revenue		270,662	RevReqPF	19,373	124,432	86,569	40,288
154	Forfeited discounts		1,657	Bill	-	-	-	1,657
155	Rent from Utility Property		2,885	Func-364	91	1,369	1,425	-
156	Misc Service Revenue		1,368	Bill	-	-	-	1,368
157	Other revenue		594	RevReqPF	43	273	190	88
158	CIAC / Cost Recovery		1,883	OpExp	167	738	487	491
159	M1 Revenue		143	RevReqPF	10	66	46	21
160	Operating Revenues		279,192		19,685	126,877	88,717	43,914
161								
162	TOTAL EXPENSES		246,609		18,256	105,766	76,743	45,844
163	V. NET INCOME at Present Rates		32,583		1,428	21,111	11,974	(1,930)
164			*32,583*	*Check*	*582*	*15,651*	*11,164*	*1,391*

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1D (REV-1)
Page 5 of 6

Functions
Sch. HSG-1D (REV-1)
Fnc
Functiona

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Functionalization

Line	Account	No.	Balance	Allocator	SubTransmission	Primary Dist	Secondary Dist	Billing
165	SUMMARY REPORT							
166	Utility Revenues	440-446	270,662		19,373	124,432	86,569	40,288
167	Other Operating Revenues	450-456	8,530		311	2,445	2,148	3,626
168	Total Operating Revenues		279,192		19,685	126,877	88,717	43,914
169								
170	Distribution / Transmission	580-599	45,024		5,396	22,704	14,748	2,175
171	Customer Acctg & Service	901-919	22,124		-	-	-	22,124
172	Admin & General	920-932	87,729		8,350	37,980	25,300	16,100
173	Total Operating Expenses		154,877		13,746	60,684	40,048	40,399
174								
175	Depreciation Expense	403	50,933		2,305	21,483	23,064	4,081
176	Taxes Other Than Inc / Other	408	35,648		1,979	20,262	11,738	1,669
177	Income before Income tax		37,734		1,654	24,449	13,867	(2,235)
178	Income Taxes	409-411	5,151		226	3,337	1,893	(305)
179	NET INCOME		32,583		1,428	21,111	11,974	(1,930)
180								
181	RATE BASE		726,440		36,886	430,807	247,707	11,040
182	Return on Rate Base		4.4853%		3.9%	4.9%	4.8%	(17.5%)
183								
184	REVENUE REQUIREMENTS							
185	Target Rate of Return		7.43%		7.43%	7.43%	7.43%	7.43%
186	Rate Base		726,440		36,886	430,807	247,707	11,040
187								
188	Operating expenses		150,755		13,746	60,684	40,048	36,277
189	Uncollectibles- Delivery		4,479	RevReqPF	321	2,059	1,433	667
190	Depreciation expense		50,933		2,305	21,483	23,064	4,081
191	General taxes / Other		35,648		1,979	20,262	11,738	1,669
192	Subtotal- Operating Costs to recover		241,815		18,351	104,487	76,282	42,694
193								
194	Target Return on Rate Base- After taxes		53,974		2,741	32,009	18,405	820
195	Income taxes to recover		10,837	RateBase	550	6,427	3,695	165
196				16.72%				
197	Subtotal- Rev Req before GRT		306,626	20.08%	21,642	142,923	98,382	43,679
198	GRT needed			0.00%	0	0	0	0
199	TOTAL REVENUE REQ.		306,626		21,642	142,923	98,382	43,679

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1D (REV-1)
Page 6 of 6

Classify
Sch. HSG-1E (REV-1)
Cls
Classifica

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)

			Classification									
			Primary Dist					Secondary Dist				
Line	Account	No.	Total		Demand	Customer		Total		Demand	Customer	
1	I. ELECTRIC PLANT IN SERVICE											
2	A. HYDRO PRODUCTION PLANT											
3	Production Plant	302	0	None	0	0	-	0	None	0	0	-
4	Hydro Production Plant		0		0	0	-	0		0	0	-
5												
6	C. TRANSMISSION PLANT						-					-
7	Transmission Plant	361	0	None	0	0	-	0	None	0	0	-
8	Transmission Plant	350-359	0		0	0	-	0		0	0	-
9												
10	D. DISTRIBUTION PLANT											
11	Land and Land Rights	360	12,970	Demand	12,970	0	-	0	None	0	0	-
12	Structures and Improvements	361	10,145	Demand	10,145	0	-	0	None	0	0	-
13	Station Equipment	362	254,614	Demand	254,614	0	-	0	None	0	0	-
14	Poles, Towers and Fixtures	364	112,861	Demand	112,861	0	-	117,522	Demand	117,522	0	-
15	OH Conductors and Devices	365	183,175	Demand	183,175	0	-	105,627	Demand	105,627	0	-
16	UG Conduit	366	51,844	Demand	51,844	0	-	12,103	Demand	12,103	0	-
17	UG Conductors & Devices	367	122,866	Demand	122,866	0	-	19,668	Demand	19,668	0	-
18	Line Transformers	368	0	None	0	0	-	189,828	Demand	189,828	0	-
19	Services	369	0	None	0	0	-	107,009	Customer	0	107,009	-
20	Meters	370	0	None	0	0	-	0	None	0	0	-
21	Install on Cust Premises	371	0	None	0	0	-	0	None	0	0	-
22	Street Light & Signal	373	0	None	0	0	-	39,684	Customer	0	39,684	-
23	Electric Plant ARO	374	0	None	0	0	-	0	None	0	0	-
24	Distribution Plant	360-373	748,476		748,476	0	-	591,442		444,749	146,693	-
25												
26	E. GENERAL PLANT											
27	Land and Land Rights	389	0	None	0	0	-	0	None	0	0	-
28	General Plant	390	19,609	Demand	19,609	0	-	12,743	SecLabor	10,986	1,757	-
29	General Plant	389-399	19,609		19,609	0	-	12,743		10,986	1,757	-
30												
31	TOTAL UTILITY PLANT		768,085		768,085	0	-	604,184		455,735	148,450	-
32												

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1E (REV-1)
Page 1 of 6

Classify
Sch. HSG-1E (REV-1)
Cls
Classifica

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)

			Classification									
			Primary Dist					Secondary Dist				
Line	Account	No.	Total		Demand	Customer		Total		Demand	Customer	
33	II. DEPRECIATION RESERVE											
34	Production Plant	108.3	0	None	0	0	-	0	None	0	0	-
35	Structures and Improvements	108.5	5,100	Demand	5,100	0	-	0	None	0	0	-
36	Station Equipment	108.5	51,252	Demand	51,252	0	-	0	None	0	0	-
37	Poles, Towers and Fixtures	108.5	51,007	Demand	51,007	0	-	53,113	Demand	53,113	0	-
38	OH Conductors and Devices	108.5	75,821	Demand	75,821	0	-	43,722	Demand	43,722	0	-
39	UG Conduit	108.5	24,436	Demand	24,436	0	-	5,705	Demand	5,705	0	-
40	UG Conductors & Devices	108.5	47,656	Demand	47,656	0	-	7,629	Demand	7,629	0	-
41	Line Transformers	108.5	0	None	0	0	-	117,426	Demand	117,426	0	-
42	Services	108.5	0	None	0	0	-	41,311	Customer	0	41,311	-
43	Meters	108.5	0	None	0	0	-	0	None	0	0	-
44	Install on Cust Premises	108.5	0	None	0	0	-	0	None	0	0	-
45	Street Light & Signal	108.5	0	None	0	0	-	37,190	Customer	0	37,190	-
46	General Plant	108.5	6,030	Demand	6,030	0	-	3,919	SecLabor	3,378	540	-
47	Net Additions / Retirements	108.6	18,436	Demand	18,436	0	-	14,502	SecPlant	10,939	3,563	-
48	Depreciation Reserve	108	279,738		279,738	0	-	324,516		241,912	82,604	-
49												
50	III. OTHER RATE BASE ITEMS											
51	Property Held for Future Use		1,265	Demand	1,265	0	-	995	SecPlant	751	245	-
52	Unamortized Debt costs		3,034	Demand	3,034	0	-	1,744	Sec_RB	1,337	407	-
53	Materials and Supp / Prepay		1,369	Demand	1,369	0	-	903	SecOpExp	771	132	-
54	Injuries & Damages Reserve		0	Demand	0	0	-	0	SecPlant	0	0	-
55	Cash Working Capital		6,798	Demand	6,798	0	-	4,486	SecOpExp	3,829	657	-
56	Accumulated Deferred FIT		(121,883)	Demand	(121,883)	0	-	(69,800)	SecNetPlant	(53,367)	(16,434)	-
57	Customer Deposits		0	None	0	0	-	0	None	0	0	-
58	Net Additions / Retirements		51,877	Demand	51,877	0	-	29,709	SecNetPlant	22,714	6,995	-
59	Other Rate Base	131-283	(57,540)		(57,540)	0	-	(31,962)		(23,964)	(7,998)	-
60												
61	TOTAL RATE BASE		430,807		430,807	0	-	247,707		189,859	57,848	-
62												

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1E (REV-1)
Page 2 of 6

Classify
Sch. HSG-1E (REV-1)
Cls
Classifica

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)

			Classification									
			Primary Dist					Secondary Dist				
Line	Account	No.	Total		Demand	Customer		Total		Demand	Customer	
63	I. OPERATING AND MAINTENANCE EXPENSES											
64	B. TRANSMISSION EXPENSE											
65	Transmission Expense		0	None	0	0	-	0	None	0	0	-
66	Transmission Expense		0		0	0	-	0		0	0	-
67												
68	C. DISTRIBUTION EXPENSE											
69	Purchased Power- Borderline	555	0	None	0	0	-	0	None	0	0	-
70	Dist Oper-Supervision & Eng	580	1,164	Demand	1,164	0	-	756	SecDxLabor	652	104	-
71	Dist Oper-Load Dispatching	581	0	None	0	0	-	0	None	0	0	-
72	Dist Oper-Substations	582	1,316	Demand	1,316	0	-	0	None	0	0	-
73	Dist Oper-Overhead Lines	583	1,452	Demand	1,452	0	-	1,095	Sec_OH	1,095	0	-
74	Dist Oper-Underground Lines	584	262	Demand	262	0	-	42	Sec_UG	42	0	-
75	Dist Oper-Outdoor Lighting	585	0	None	0	0	-	318	Customer	0	318	-
76	Dist Oper-Electric Meters	586	0	None	0	0	-	0	None	0	0	-
77	Dist Oper-Cust Install	587	48	Demand	48	0	-	50	Demand	50	0	-
78	Dist Oper-Misc Expenses	588	3,612	Demand	3,612	0	-	2,347	SecDxLabor	2,024	324	-
79	Dist Oper-Rents	589	150	Demand	150	0	-	118	SecPlant	89	29	-
80	Dist Maint-Supervision & Eng	590	507	Demand	507	0	-	330	SecLabor	284	45	-
81	Dist Maint-Structures	591	81	Demand	81	0	-	0	None	0	0	-
82	Dist Maint-Substations	592	1,670	Demand	1,670	0	-	0	None	0	0	-
83	Dist Maint-Overhead Lines	593	10,767	Demand	10,767	0	-	8,116	Demand	8,116	0	-
84	Dist Maint-Underground Lines	594	1,675	Demand	1,675	0	-	268	Demand	268	0	-
85	Dist Maint-Line Transformers	595	0	None	0	0	-	392	Demand	392	0	-
86	Dist Maint-Outdoor Lighting	596	0	None	0	0	-	916	Customer	0	916	-
87	Dist Maint-Electric Meters	597	0	None	0	0	-	0	None	0	0	-
88	Oper. & Maint. Exp.	500-599	22,704		22,704	0	-	14,748		13,012	1,736	-
89			22,704		22,704	0	-	14,748		13,012	1,736	-
90	D. CUSTOMER ACCOUNTS AND SERVICE											
91	Supervision	901	0	None	0	0	-	0	None	0	0	-
92	Meter Reading Exp- Comp	902	0	None	0	0	-	0	None	0	0	-
93	Cust Recs & Coll	903	0	None	0	0	-	0	None	0	0	-
94	Uncollectible- Delivery	904	0	None	0	0	-	0	None	0	0	-
95	Misc Cust Acct	905	0	None	0	0	-	0	None	0	0	-
96	Customer Accts. Exp.	901-905	0		0	0	-	0		0	0	-
97												
98	Cust Service-Supervision	907	0	None	0	0	-	0	None	0	0	-
99	Cust Assistance Expenses	908	0	None	0	0	-	0	None	0	0	-
100	Info&Instruct Advertising Exp	9090	0	None	0	0	-	0	None	0	0	-
101	Cust Service-Misc Expenses	910	0	None	0	0	-	0	None	0	0	-
102	Demo & Selling Expenses	912	0	None	0	0	-	0	None	0	0	-
103	Sales-Misc Expenses	916	0	None	0	0	-	0	None	0	0	-
104	Customer Serv. Exp.		0		0	0	-	0		0	0	-
105	Customer Accts. & Serv. Exp.	901-919	0		0	0	-	0		0	0	-

Classify
Sch. HSG-1E (REV-1)
Cls
Classifica

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)

			Classification									
			Primary Dist					Secondary Dist				
Line	Account	No.	Total		Demand	Customer		Total		Demand	Customer	
106												
107	E. ADMINISTRATIVE AND GENERAL											
108	A&G-Salaries	920	7,724	Demand	7,724	0	-	5,020	SecLabor	4,328	692	-
109	A&G-Office Supplies	921	2,628	Demand	2,628	0	-	1,708	SecLabor	1,472	235	-
110	A&G-Outside Services	923	2,245	Demand	2,245	0	-	1,459	SecLabor	1,258	201	-
111	Property Insurance	924	4,165	Demand	4,165	0	-	3,277	SecPlant	2,471	805	-
112	Injuries & Damages Insurance	925	1,755	Demand	1,755	0	-	1,380	SecPlant	1,041	339	-
113	Employee Pensions & Benefits	926	10,153	Demand	10,153	0	-	6,598	SecLabor	5,688	910	-
114	Regulatory Comm Expenses	928	2,544	Demand	2,544	0	-	1,463	Sec_RB	1,121	342	-
115	A&G-Misc Expenses	930200	1	Demand	1	0	-	1	SecPlant	1	0	-
116	A&G-Rents	931	6,681	Demand	6,681	0	-	4,342	SecLabor	3,743	599	-
117	A&G Maint-Gen Plant-Elec	935	83	Demand	83	0	-	54	SecLabor	46	7	-
118	Admin & Genl. Exp.	920-932	37,980		37,980	0	-	25,300		21,170	4,130	-
119	Total Operating Expenses		60,684		60,684	0	-	40,048		34,182	5,866	-
120												
121	II. DEPRECIATION EXPENSE											
122	Structures and Improvements	403	0	Demand	0	0	-	0	None	0	0	-
123	Station Equipment	403	5,698	Demand	5,698	0	-	0	None	0	0	-
124	Poles, Towers and Fixtures	403	1	Demand	1	0	-	1	Demand	1	0	-
125	OH Conductors and Devices	403	26	Demand	26	0	-	15	Demand	15	0	-
126	UG Conduit	403	13,215	Demand	13,215	0	-	3,085	Demand	3,085	0	-
127	UG Conductors & Devices	403	220	Demand	220	0	-	35	Demand	35	0	-
128	Line Transformers	403	0	None	0	0	-	7,052	Demand	7,052	0	-
129	Services	403	0	None	0	0	-	10,572	Customer	0	10,572	-
130	Meters	403	0	None	0	0	-	0	None	0	0	-
131	Install on Cust Premises	403	0	None	0	0	-	0	None	0	0	-
132	Street Light & Signal	403	0	None	0	0	-	476	Customer	0	476	-
133	General Plant	403	0	Demand	0	0	-	0	SecLabor	0	0	-
134	Net Additions / Retirements	407300	2,323	Demand	2,323	0	-	1,827	SecPlant	1,378	449	-
135	Depreciation Expense	403	21,483		21,483	0	-	23,064		11,567	11,497	-
136												

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1E (REV-1)
Page 4 of 6

Classify
Sch. HSG-1E (REV-1)
Cls
Classifica

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)

			Classification									
			Primary Dist					Secondary Dist				
Line	Account	No.	Total		Demand	Customer		Total		Demand	Customer	
137	III. TAXES and OTHER											
138	A. GENERAL TAXES											
139	Municipal property tax	408140	18,068	Demand	18,068	0	-	10,347	SecNetPlant	7,911	2,436	-
140	Payroll related	408110	1,727	Demand	1,727	0	-	1,122	SecLabor	967	155	-
141	Other tax, Reg deferrals	408170	467	Demand	467	0	-	268	Sec_RB	206	63	-
142	General Taxes		20,262		20,262	0	-	11,738		9,084	2,654	-
143												
144	B. FEDERAL / STATE INCOME TAXES											
145	Income Tax Exp		3,337	Demand	3,337	0	-	1,893	SecPretax	1,704	189	-
146	Income Taxes	409-411	3,337		3,337	0	-	1,893		1,704	189	-
147	Total Taxes	408-411	23,599		23,599	0	-	13,631		10,789	2,842	-
148												
149	Interest on Customer deposits		0	None	0	0	-	0	None	0	0	-
150	TOTAL EXPENSES		105,766		105,766	0	-	76,743		56,537	20,205	-
151												
152	IV. OPERATING REVENUES at Present Rates											
153	Distribution charge revenue		124,432	Demand	124,432	0	-	86,569	SecPlant	65,299	21,270	-
154	Forfeited discounts		0	None	0	0	-	0	None	0	0	-
155	Rent from Utility Property		1,369	Demand	1,369	0	-	1,425	Demand	1,425	0	-
156	Misc Service Revenue		0	Demand	0	0	-	0	None	0	0	-
157	Other revenue		273	Demand	273	0	-	190	SecPlant	143	47	-
158	CIAC / Cost Recovery		738	Demand	738	0	-	487	SecOpExp	416	71	-
159	M1 Revenue		66	Demand	66	0	-	46	Sec_RB	35	11	-
160	Operating Revenues		126,877		126,877	0	-	88,717		67,318	21,399	-
161												
162	TOTAL EXPENSES		105,766		105,766	0	-	76,743		56,537	20,205	-
163	V. NET INCOME at Present Rates		21,111		21,111	0	-	11,974		10,780	1,193	-
164												

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1E (REV-1)
Page 5 of 6

Classify
Sch. HSG-1E (REV-1)
Cls
Classifica

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)

			Classification								
			Primary Dist				Secondary Dist				
Line	Account	No.	Total		Demand	Customer	Total		Demand	Customer	
165	SUMMARY REPORT										
166	Utility Revenues	440-446	124,432		124,432	0	- 86,569		65,299	21,270	-
167	Other Operating Revenues	450-456	2,445		2,445	0	- 2,148		2,019	129	-
168	Total Operating Revenues		126,877		126,877	0	- 88,717		67,318	21,399	-
169											
170	Distribution / Transmission	580-599	22,704		22,704	0	- 14,748		13,012	1,736	-
171	Customer Acctg & Service	901-919	0		0	0	- 0		0	0	-
172	Admin & General	920-932	37,980		37,980	0	- 25,300		21,170	4,130	-
173	Total Operating Expenses		60,684		60,684	0	- 40,048		34,182	5,866	-
174											
175	Depreciation Expense	403	21,483		21,483	0	- 23,064		11,567	11,497	-
176	Taxes Other Than Inc / Other	408	20,262		20,262	0	- 11,738		9,084	2,654	-
177	Income before Income tax		24,449		24,449	0	- 13,867		12,485	1,382	-
178	Income Taxes	409-411	3,337		3,337	0	- 1,893		1,704	189	-
179	NET INCOME		21,111		21,111	0	- 11,974		10,780	1,193	-
180											
181	RATE BASE		430,807		430,807	0	- 247,707		189,859	57,848	-
182	Return on Rate Base										
183											
184	REVENUE REQUIREMENTS										
185	Target Rate of Return		7.4300%		7.4300%	7.4300%	7.4300%		7.4300%	7.4300%	
186	Rate Base		430,807		430,807	0	- 247,707		189,859	57,848	-
187											
188	Operating expenses		60,684		60,684	0	- 40,048		34,182	5,866	-
189	Uncollectibles- Delivery		2,059	Demand	2,059	0	- 1,433	Sec_RB	1,098	335	-
190	Depreciation expense		21,483		21,483	0	- 23,064		11,567	11,497	-
191	General taxes / Other		20,262		20,262	0	- 11,738		9,084	2,654	-
192	Subtotal- Operating Costs to recover		104,487		104,487	0	- 76,282		55,931	20,351	-
193											
194	Target Return on Rate Base- After taxes		32,009		32,009	0	- 18,405		14,107	4,298	-
195	Income taxes to recover		6,427	Demand	6,427	0	- 3,695	Sec_RB	2,832	863	-
196				20.08%				20.08%			
197	Subtotal- Rev Req before GRT		142,923		142,923	0	- 98,382		72,870	25,512	-
198	GRT needed		0	0.00%	0	0	- 0	0.00%	0	0	-
199	TOTAL REVENUE REQ.		142,923		142,923	0	- 98,382		72,870	25,512	-

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1E (REV-1)
Page 6 of 6

SubTDem
Sch. HSG-1F-1 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- SubTransmission Demand

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
1	I. ELECTRIC PLANT IN SERVICE										
2	A. HYDRO PRODUCTION PL/										
3	Production Plant	302	3,126	MWh-Gen	1,281	260	561	812	175	27	10
4	Hydro Production Plant		3,126		1,281	260	561	812	175	27	10
5											
6	C. TRANSMISSION PLANT										
7	Transmission Plant	361	-	None	-	-	-	-	-	-	-
8	Transmission Plant	350-359	-		-	-	-	-	-	-	-
9											
10	D. DISTRIBUTION PLANT										
11	Land and Land Rights	360	-	None	-	-	-	-	-	-	-
12	Structures and Improvements	361	-	None	-	-	-	-	-	-	-
13	Station Equipment	362	-	None	-	-	-	-	-	-	-
14	Poles, Towers and Fixtures	364	7,532	NCP_at_115	3,644	728	1,229	1,497	331	60	43
15	OH Conductors and Devices	365	19,249	NCP_at_115	9,313	1,860	3,141	3,827	847	152	110
16	UG Conduit	366	7,934	NCP_at_115	3,839	767	1,295	1,577	349	63	45
17	UG Conductors & Devices	367	31,274	NCP_at_115	15,131	3,022	5,103	6,217	1,375	247	179
18	Line Transformers	368	-	None	-	-	-	-	-	-	-
19	Services	369	-	None	-	-	-	-	-	-	-
20	Meters	370	-	None	-	-	-	-	-	-	-
21	Install on Cust Premises	371	-	None	-	-	-	-	-	-	-
22	Street Light & Signal	373	-	None	-	-	-	-	-	-	-
23	Electric Plant ARO	374	-	None	-	-	-	-	-	-	-
24	Distribution Plant	360-373	65,989		31,926	6,376	10,768	13,118	2,902	522	378
25											
26	E. GENERAL PLANT										
27	Land and Land Rights	389	-	None	-	-	-	-	-	-	-
28	General Plant	390	5,023	SubT-Lab	2,180	440	875	1,205	261	42	20
29	General Plant	389-399	5,023		2,180	440	875	1,205	261	42	20
30											
31	TOTAL UTILITY PLANT		74,139		35,387	7,076	12,203	15,136	3,339	591	407
32											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-1 (REV-1)
Page 1 of 6

SubTDem
Sch. HSG-1F-1 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- SubTransmission Demand

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
33	II. DEPRECIATION RESERVE										
34	Production Plant	108.3	3,119	MWh-Gen	1,278	260	560	810	174	27	10
35	Structures and Improvements	108.5	-	None	-	-	-	-	-	-	-
36	Station Equipment	108.5	-	None	-	-	-	-	-	-	-
37	Poles, Towers and Fixtures	108.5	3,404	NCP_at_115	1,647	329	555	677	150	27	19
38	OH Conductors and Devices	108.5	7,968	NCP_at_115	3,855	770	1,300	1,584	350	63	46
39	UG Conduit	108.5	3,740	NCP_at_115	1,809	361	610	743	164	30	21
40	UG Conductors & Devices	108.5	12,130	NCP_at_115	5,869	1,172	1,979	2,411	533	96	69
41	Line Transformers	108.5	-	None	-	-	-	-	-	-	-
42	Services	108.5	-	None	-	-	-	-	-	-	-
43	Meters	108.5	-	None	-	-	-	-	-	-	-
44	Install on Cust Premises	108.5	-	None	-	-	-	-	-	-	-
45	Street Light & Signal	108.5	-	None	-	-	-	-	-	-	-
46	General Plant	108.5	1,545	SubT-Lab	670	135	269	371	80	13	6
47	Net Additions / Retirements	108.6	1,780	SubT-Pt	849	170	293	363	80	14	10
48	Depreciation Reserve	108	33,685		15,978	3,197	5,567	6,960	1,533	269	181
49											
50	III. OTHER RATE BASE ITEMS										
51	Property Held for Future Use		122	SubT-Pt	58	12	20	25	5	1	1
52	Unamortized Debt costs		260	RateBase	144	27	42	37	8	3	0
53	Materials and Supp / Prepay		310	SubT-OpEx	136	27	54	73	16	3	1
54	Injuries & Damages Reserve		-	SubT-Pt	-	-	-	-	-	-	-
55	Cash Working Capital		1,540	SubT-OpEx	676	136	267	363	79	13	6
56	Accumulated Deferred FIT		(10,097)	SubT-NetPt	(4,844)	(968)	(1,656)	(2,041)	(451)	(80)	(56)
57	Customer Deposits		-	None	-	-	-	-	-	-	-
58	Net Additions / Retirements		4,297	SubT-NetPt	2,062	412	705	869	192	34	24
59	Other Rate Base	131-283	(3,567)		(1,768)	(354)	(569)	(674)	(151)	(27)	(24)
60											
61	TOTAL RATE BASE		36,886		17,642	3,525	6,067	7,502	1,655	295	202
62											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-1 (REV-1)
Page 2 of 6

SubTDem
Sch. HSG-1F-1 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- SubTransmission Demand

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
63	I. OPERATING AND MAINTENANCE EXPENSES										
64	B. TRANSMISSION EXPENSE										
65	Transmission Expense		-	None	-	-	-	-	-	-	-
66	Transmission Expense		-		-	-	-	-	-	-	-
67											
68	C. DISTRIBUTION EXPENSE										
69	Purchased Power- Borderline	555	-	MWh-Gen	-	-	-	-	-	-	-
70	Dist Oper-Supervision & Eng	580	298	SubT-Lab	129	26	52	72	16	3	1
71	Dist Oper-Load Dispatching	581	2,427	MWh-Gen	995	202	435	630	136	21	7
72	Dist Oper-Substations	582	-	None	-	-	-	-	-	-	-
73	Dist Oper-Overhead Lines	583	131	NCP_at_115	64	13	21	26	6	1	1
74	Dist Oper-Underground Lines	584	67	NCP_at_115	32	6	11	13	3	1	0
75	Dist Oper-Outdoor Lighting	585	-	None	-	-	-	-	-	-	-
76	Dist Oper-Electric Meters	586	-	None	-	-	-	-	-	-	-
77	Dist Oper-Cust Install	587	3	MWh-Meter	1	0	1	1	0	0	0
78	Dist Oper-Misc Expenses	588	925	SubT-Lab	401	81	161	222	48	8	4
79	Dist Oper-Rents	589	14	SubT-Pt	7	1	2	3	1	0	0
80	Dist Maint-Supervision & Eng	590	130	SubT-Lab	56	11	23	31	7	1	1
81	Dist Maint-Structures	591	-	None	-	-	-	-	-	-	-
82	Dist Maint-Substations	592	-	None	-	-	-	-	-	-	-
83	Dist Maint-Overhead Lines	593	974	NCP_at_115	471	94	159	194	43	8	6
84	Dist Maint-Underground Lines	594	426	NCP_at_115	206	41	70	85	19	3	2
85	Dist Maint-Line Transformers	595	-	None	-	-	-	-	-	-	-
86	Dist Maint-Outdoor Lighting	596	-	None	-	-	-	-	-	-	-
87	Dist Maint-Electric Meters	597	-	None	-	-	-	-	-	-	-
88	Oper. & Maint. Exp.	500-599	5,396		2,363	477	935	1,277	277	45	22
89			5,396		2,363	477	935	1,277	277	45	22
90	D. CUSTOMER ACCOUNTS AND SERVICE										
91	Supervision	901	-	None	-	-	-	-	-	-	-
92	Meter Reading Exp- Comp	902	-	None	-	-	-	-	-	-	-
93	Cust Recs & Coll	903	-	None	-	-	-	-	-	-	-
94	Uncollectible- Delivery	904	-	None	-	-	-	-	-	-	-
95	Misc Cust Acct	905	-	None	-	-	-	-	-	-	-
96	Customer Accts. Exp.	901-905	-		-	-	-	-	-	-	-
97											
98	Cust Service-Supervision	907	-	None	-	-	-	-	-	-	-
99	Cust Assistance Expenses	908	-	None	-	-	-	-	-	-	-
100	Info&Instruct Advertising Exp	9090	-	None	-	-	-	-	-	-	-
101	Cust Service-Misc Expenses	910	-	None	-	-	-	-	-	-	-
102	Demo & Selling Expenses	912	-	None	-	-	-	-	-	-	-
103	Sales-Misc Expenses	916	-	None	-	-	-	-	-	-	-
104	Customer Serv. Exp.		-		-	-	-	-	-	-	-
105	Customer Accts. & Serv. Exp.	901-919	-		-	-	-	-	-	-	-

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-1 (REV-1)
Page 3 of 6

SubTDem
Sch. HSG-1F-1 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- SubTransmission Demand

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
106											
107	E. ADMINISTRATIVE AND GENERAL										
108	A&G-Salaries	920	1,979	SubT-Lab	859	173	345	475	103	17	8
109	A&G-Office Supplies	921	673	SubT-Lab	292	59	117	162	35	6	3
110	A&G-Outside Services	923	575	SubT-Lab	250	50	100	138	30	5	2
111	Property Insurance	924	402	SubT-Pt	192	38	66	82	18	3	2
112	Injuries & Damages Insurance	925	169	SubT-Pt	81	16	28	35	8	1	1
113	Employee Pensions & Benefits	926	2,601	SubT-Lab	1,128	228	453	624	135	22	10
114	Regulatory Comm Expenses	928	218	RateBase	121	22	35	31	7	2	0
115	A&G-Misc Expenses	930200	0	MWh-Gen	0	0	0	0	0	0	0
116	A&G-Rents	931	1,711	SubT-Lab	743	150	298	411	89	14	7
117	A&G Maint-Gen Plant-Elec	935	21	SubT-Lab	9	2	4	5	1	0	0
118	Admin & Genl. Exp.	920-932	8,350		3,674	739	1,445	1,962	426	70	33
119	Total Operating Expenses		13,746		6,037	1,216	2,380	3,239	703	116	55
120											
121	II. DEPRECIATION EXPENSE										
122	Structures and Improvements	403	-	None	-	-	-	-	-	-	-
123	Station Equipment	403	-	None	-	-	-	-	-	-	-
124	Poles, Towers and Fixtures	403	0	NCP_at_115	0	0	0	0	0	0	0
125	OH Conductors and Devices	403	3	NCP_at_115	1	0	0	1	0	0	0
126	UG Conduit	403	2,022	NCP_at_115	978	195	330	402	89	16	12
127	UG Conductors & Devices	403	56	NCP_at_115	27	5	9	11	2	0	0
128	Line Transformers	403	-	None	-	-	-	-	-	-	-
129	Services	403	-	None	-	-	-	-	-	-	-
130	Meters	403	-	None	-	-	-	-	-	-	-
131	Install on Cust Premises	403	-	None	-	-	-	-	-	-	-
132	Street Light & Signal	403	-	None	-	-	-	-	-	-	-
133	General Plant	403	-	SubT-Lab	-	-	-	-	-	-	-
134	Net Additions / Retirements	407300	224	NCP_at_115	108	22	37	45	10	2	1
135	Depreciation Expense	403	2,305		1,115	223	376	458	101	18	13
136											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-1 (REV-1)
Page 4 of 6

SubTDem
Sch. HSG-1F-1 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- SubTransmission Demand

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
137	III. TAXES and OTHER										
138	A. GENERAL TAXES										
139	Municipal property tax	408140	1,497	SubT-NetPt	718	144	246	302	67	12	8
140	Payroll related	408110	442	SubT-Lab	192	39	77	106	23	4	2
141	Other tax, Reg deferrals	408170	40	RateBase	22	4	6	6	1	0	0
142	General Taxes		1,979		932	186	329	414	91	16	10
143											
144	B. FEDERAL / STATE INCOME TAXES										
145	Income Tax Exp		226	SubT-Pretax	328	63	6	(172)	(56)	61	(4)
146	Income Taxes	409-411	226		328	63	6	(172)	(56)	61	(4)
147	Total Taxes	408-411	2,205		1,260	249	335	243	35	77	6
148											
149	Interest on Customer deposits		-	None	-	-	-	-	-	-	-
150	TOTAL EXPENSES		18,256		8,413	1,688	3,091	3,939	840	211	75
151											
152	IV. OPERATING REVENUES at Present Rates										
153	Distribution charge revenue		19,373	Total_Del_Rev	10,339	2,056	3,075	2,788	471	593	50
154	Forfeited discounts		-	None	-	-	-	-	-	-	-
155	Rent from Utility Property		91	NCP_at_115	44	9	15	18	4	1	1
156	Misc Service Revenue		-	None	-	-	-	-	-	-	-
157	Other revenue		43	Total_Del_Rev	23	5	7	6	1	1	0
158	CIAC / Cost Recovery		167	SubT-OpEx	73	15	29	39	9	1	1
159	M1 Revenue		10	Total_Del_Rev	5	1	2	1	0	0	0
160	Operating Revenues		19,685		10,485	2,086	3,128	2,853	485	597	51
161											
162	TOTAL EXPENSES		18,256		8,413	1,688	3,091	3,939	840	211	75
163	V. NET INCOME at Present Rat		1,428		2,073	397	36	(1,086)	(354)	386	(24)
164											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-1 (REV-1)
Page 5 of 6

SubTDem
Sch. HSG-1F-1 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- SubTransmission Demand

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
165	SUMMARY REPORT										
166	Utility Revenues	440-446	19,373		10,339	2,056	3,075	2,788	471	593	50
167	Other Operating Revenues	450-456	311		146	29	52	65	14	4	1
168	Total Operating Revenues		19,685		10,485	2,086	3,128	2,853	485	597	51
169											
170	Distribution / Transmission	580-599	5,396		2,363	477	935	1,277	277	45	22
171	Customer Acctg & Service	901-919	0		0	0	0	0	0	0	0
172	Admin & General	920-932	8,350		3,674	739	1,445	1,962	426	70	33
173	Total Operating Expenses		13,746		6,037	1,216	2,380	3,239	703	116	55
174											
175	Depreciation Expense	403	2,305		1,115	223	376	458	101	18	13
176	Taxes Other Than Inc / Other	408	1,979		932	186	329	414	91	16	10
177	Income before Income tax		1,654		2,400	460	42	(1,258)	(410)	447	(27)
178	Income Taxes	409-411	226		328	63	6	(172)	(56)	61	(4)
179	NET INCOME		1,428		2,073	397	36	(1,086)	(354)	386	(24)
180											
181	RATE BASE		36,886		17,642	3,525	6,067	7,502	1,655	295	202
182	Return on Rate Base		3.87%								
183											
184	REVENUE REQUIREMENTS										
185	Target Rate of Return		7.4300%		7.4300%	7.4300%	7.4300%	7.4300%	7.4300%	7.4300%	7.4300%
186	Rate Base		36,886		17,642	3,525	6,067	7,502	1,655	295	202
187											
188	Operating expenses		13,746		6,037	1,216	2,380	3,239	703	116	55
189	Uncollectibles- Delivery		321	Total_RevReq	181	35	48	40	8	8	0
190	Depreciation expense		2,305		1,115	223	376	458	101	18	13
191	General taxes / Other		1,979		932	186	329	414	91	16	10
192	Subtotal- Operating Costs to recc		18,351		8,266	1,660	3,133	4,151	904	158	78
193											
194	Target Return on Rate Base- Aft		2,741		1,311	262	451	557	123	22	15
195	Income taxes to recover		550	SubT-RB	263	53	91	112	25	4	3
196											
197	Subtotal- Rev Req before GRT		21,642		9,840	1,975	3,674	4,820	1,052	185	96
198	GRT needed		0	0.00%	0	0	0	0	0	0	0
199	TOTAL REVENUE REQ.		21,642		9,840	1,975	3,674	4,820	1,052	185	96

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-1 (REV-1)
Page 6 of 6

PrimDem
Sch. HSG-1F-2 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- Primary Demand

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
1	I. ELECTRIC PLANT IN SERVICE										
2	A. HYDRO PRODUCTION PL/										
3	Production Plant	302	-	None	-	-	-	-	-	-	-
4	Hydro Production Plant		-		-	-	-	-	-	-	-
5											
6	C. TRANSMISSION PLANT										
7	Transmission Plant	361	-	None	-	-	-	-	-	-	-
8	Transmission Plant	350-359	-		-	-	-	-	-	-	-
9											
10	D. DISTRIBUTION PLANT										
11	Land and Land Rights	360	12,970	NCP_at_Pri	6,331	1,264	2,135	2,561	575	103	-
12	Structures and Improvements	361	10,145	NCP_at_Pri	4,952	989	1,670	2,003	450	81	-
13	Station Equipment	362	254,614	NCP_at_Pri	124,278	24,818	41,915	50,275	11,297	2,030	-
14	Poles, Towers and Fixtures	364	112,861	NCP_at_Pri	55,088	11,001	18,579	22,285	5,008	900	-
15	OH Conductors and Devices	365	183,175	NCP_at_Pri	89,409	17,855	30,154	36,169	8,128	1,461	-
16	UG Conduit	366	51,844	NCP_at_Pri	25,306	5,054	8,535	10,237	2,300	413	-
17	UG Conductors & Devices	367	122,866	NCP_at_Pri	59,972	11,976	20,226	24,260	5,452	980	-
18	Line Transformers	368	-	None	-	-	-	-	-	-	-
19	Services	369	-	None	-	-	-	-	-	-	-
20	Meters	370	-	None	-	-	-	-	-	-	-
21	Install on Cust Premises	371	-	None	-	-	-	-	-	-	-
22	Street Light & Signal	373	-	None	-	-	-	-	-	-	-
23	Electric Plant ARO	374	-	None	-	-	-	-	-	-	-
24	Distribution Plant	360-373	748,476		365,335	72,957	123,215	147,790	33,210	5,969	-
25											
26	E. GENERAL PLANT										
27	Land and Land Rights	389	-	None	-	-	-	-	-	-	-
28	General Plant	390	19,609	PriD-Lab	9,564	1,910	3,229	3,878	871	156	0
29	General Plant	389-399	19,609		9,564	1,910	3,229	3,878	871	156	0
30											
31	TOTAL UTILITY PLANT		768,085		374,899	74,867	126,444	151,668	34,081	6,125	0
32											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-2 (REV-1)
Page 1 of 6

PrimDem
Sch. HSG-1F-2 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- Primary Demand

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
33	II. DEPRECIATION RESERVE										
34	Production Plant	108.3	-	None	-	-	-	-	-	-	-
35	Structures and Improvements	108.5	5,100	NCP_at_Pri	2,489	497	840	1,007	226	41	-
36	Station Equipment	108.5	51,252	NCP_at_Pri	25,016	4,996	8,437	10,120	2,274	409	-
37	Poles, Towers and Fixtures	108.5	51,007	NCP_at_Pri	24,897	4,972	8,397	10,071	2,263	407	-
38	OH Conductors and Devices	108.5	75,821	NCP_at_Pri	37,008	7,391	12,482	14,971	3,364	605	-
39	UG Conduit	108.5	24,436	NCP_at_Pri	11,928	2,382	4,023	4,825	1,084	195	-
40	UG Conductors & Devices	108.5	47,656	NCP_at_Pri	23,261	4,645	7,845	9,410	2,115	380	-
41	Line Transformers	108.5	-	None	-	-	-	-	-	-	-
42	Services	108.5	-	None	-	-	-	-	-	-	-
43	Meters	108.5	-	None	-	-	-	-	-	-	-
44	Install on Cust Premises	108.5	-	None	-	-	-	-	-	-	-
45	Street Light & Signal	108.5	-	None	-	-	-	-	-	-	-
46	General Plant	108.5	6,030	PriD-Lab	2,941	587	993	1,193	268	48	0
47	Net Additions / Retirements	108.6	18,436	PriD-PT	8,999	1,797	3,035	3,640	818	147	0
48	Depreciation Reserve	108	279,738		136,539	27,267	46,051	55,237	12,412	2,231	0
49											
50	III. OTHER RATE BASE ITEMS										
51	Property Held for Future Use		1,265	PriD-PT	618	123	208	250	56	10	0
52	Unamortized Debt costs		3,034	RateBase	1,680	311	486	430	91	34	1
53	Materials and Supp / Prepay		1,369	PriD-OpExp	672	134	225	267	60	11	0
54	Injuries & Damages Reserve		-	PriD-PT	-	-	-	-	-	-	-
55	Cash Working Capital		6,798	PriD-OpExp	3,335	664	1,118	1,328	298	55	0
56	Accumulated Deferred FIT		(121,883)	PriD-NetPT	(59,490)	(11,880)	(20,065)	(24,067)	(5,408)	(972)	(0)
57	Customer Deposits		-	None	-	-	-	-	-	-	-
58	Net Additions / Retirements		51,877	PriD-NetPT	25,321	5,057	8,540	10,244	2,302	414	0
59	Other Rate Base	131-283	(57,540)		(27,865)	(5,592)	(9,487)	(11,548)	(2,601)	(448)	1
60											
61	TOTAL RATE BASE		430,807		210,495	42,009	70,906	84,882	19,067	3,447	1
62											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-2 (REV-1)
Page 2 of 6

PrimDem
Sch. HSG-1F-2 (REV-1)
CAI
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- Primary Demand

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
63	I. OPERATING AND MAINTENANCE EXPENSES										
64	B. TRANSMISSION EXPENSE										
65	Transmission Expense		-	None	-	-	-	-	-	-	-
66	Transmission Expense		-		-	-	-	-	-	-	-
67											
68	C. DISTRIBUTION EXPENSE										
69	Purchased Power- Borderline	555	-	None	-	-	-	-	-	-	-
70	Dist Oper-Supervision & Eng	580	1,164	PriD-Lab	568	113	192	230	52	9	0
71	Dist Oper-Load Dispatching	581	-	None	-	-	-	-	-	-	-
72	Dist Oper-Substations	582	1,316	NCP_at_Pri	642	128	217	260	58	10	-
73	Dist Oper-Overhead Lines	583	1,452	NCP_at_Pri	709	142	239	287	64	12	-
74	Dist Oper-Underground Lines	584	262	NCP_at_Pri	128	25	43	52	12	2	-
75	Dist Oper-Outdoor Lighting	585	-	None	-	-	-	-	-	-	-
76	Dist Oper-Electric Meters	586	-	None	-	-	-	-	-	-	-
77	Dist Oper-Cust Install	587	48	MWh-Meter	20	4	9	13	3	0	0
78	Dist Oper-Misc Expenses	588	3,612	PriD-Lab	1,762	352	595	714	160	29	0
79	Dist Oper-Rents	589	150	PriD-PT	73	15	25	30	7	1	0
80	Dist Maint-Supervision & Eng	590	507	PriD-Lab	248	49	84	100	23	4	0
81	Dist Maint-Structures	591	81	NCP_at_Pri	40	8	13	16	4	1	-
82	Dist Maint-Substations	592	1,670	NCP_at_Pri	815	163	275	330	74	13	-
83	Dist Maint-Overhead Lines	593	10,767	NCP_at_Pri	5,256	1,050	1,773	2,126	478	86	-
84	Dist Maint-Underground Lines	594	1,675	NCP_at_Pri	817	163	276	331	74	13	-
85	Dist Maint-Line Transformers	595	-	None	-	-	-	-	-	-	-
86	Dist Maint-Outdoor Lighting	596	-	None	-	-	-	-	-	-	-
87	Dist Maint-Electric Meters	597	-	None	-	-	-	-	-	-	-
88	Oper. & Maint. Exp.	500-599	22,704		11,076	2,212	3,738	4,488	1,008	181	0
89			22,704		11,076	2,212	3,738	4,488	1,008	181	0
90	D. CUSTOMER ACCOUNTS AND SERVICE										
91	Supervision	901	-	None	-	-	-	-	-	-	-
92	Meter Reading Exp- Comp	902	-	None	-	-	-	-	-	-	-
93	Cust Recs & Coll	903	-	None	-	-	-	-	-	-	-
94	Uncollectible- Delivery	904	-	None	-	-	-	-	-	-	-
95	Misc Cust Acct	905	-	None	-	-	-	-	-	-	-
96	Customer Accts. Exp.	901-905	-		-	-	-	-	-	-	-
97											
98	Cust Service-Supervision	907	-	None	-	-	-	-	-	-	-
99	Cust Assistance Expenses	908	-	None	-	-	-	-	-	-	-
100	Info&Instruct Advertising Exp	9090	-	None	-	-	-	-	-	-	-
101	Cust Service-Misc Expenses	910	-	None	-	-	-	-	-	-	-
102	Demo & Selling Expenses	912	-	None	-	-	-	-	-	-	-
103	Sales-Misc Expenses	916	-	None	-	-	-	-	-	-	-
104	Customer Serv. Exp.		-		-	-	-	-	-	-	-
105	Customer Accts. & Serv. Exp.	901-919	-		-	-	-	-	-	-	-

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-2 (REV-1)
Page 3 of 6

PrimDem
Sch. HSG-1F-2 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- Primary Demand

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
106											
107	E. ADMINISTRATIVE AND GENERAL										
108	A&G-Salaries	920	7,724	PriD-Lab	3,767	752	1,272	1,528	343	62	0
109	A&G-Office Supplies	921	2,628	PriD-Lab	1,282	256	433	520	117	21	0
110	A&G-Outside Services	923	2,245	PriD-Lab	1,095	219	370	444	100	18	0
111	Property Insurance	924	4,165	PriD-PT	2,033	406	686	823	185	33	0
112	Injuries & Damages Insurance	925	1,755	PriD-PT	857	171	289	347	78	14	0
113	Employee Pensions & Benefits	926	10,153	PriD-Lab	4,952	989	1,672	2,008	451	81	0
114	Regulatory Comm Expenses	928	2,544	RateBase	1,409	261	408	361	76	29	1
115	A&G-Misc Expenses	930200	1	MWh-Gen	0	0	0	0	0	0	0
116	A&G-Rents	931	6,681	PriD-Lab	3,259	651	1,100	1,321	297	53	0
117	A&G Maint-Gen Plant-Elec	935	83	PriD-Lab	40	8	14	16	4	1	0
118	Admin & Genl. Exp.	920-932	37,980		18,694	3,713	6,243	7,367	1,650	311	1
119	Total Operating Expenses		60,684		29,770	5,925	9,981	11,855	2,659	493	1
120											
121	II. DEPRECIATION EXPENSE										
122	Structures and Improvements	403	-	NCP_at_Pri	-	-	-	-	-	-	-
123	Station Equipment	403	5,698	NCP_at_Pri	2,781	555	938	1,125	253	45	-
124	Poles, Towers and Fixtures	403	1	NCP_at_Pri	0	0	0	0	0	0	-
125	OH Conductors and Devices	403	26	NCP_at_Pri	13	3	4	5	1	0	-
126	UG Conduit	403	13,215	NCP_at_Pri	6,450	1,288	2,175	2,609	586	105	-
127	UG Conductors & Devices	403	220	NCP_at_Pri	107	21	36	43	10	2	-
128	Line Transformers	403	-	None	-	-	-	-	-	-	-
129	Services	403	-	None	-	-	-	-	-	-	-
130	Meters	403	-	None	-	-	-	-	-	-	-
131	Install on Cust Premises	403	-	None	-	-	-	-	-	-	-
132	Street Light & Signal	403	-	None	-	-	-	-	-	-	-
133	General Plant	403	-	PriD-Lab	-	-	-	-	-	-	-
134	Net Additions / Retirements	407300	2,323	PriD-PT	1,134	226	382	459	103	19	0
135	Depreciation Expense	403	21,483		10,486	2,094	3,537	4,242	953	171	0
136											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-2 (REV-1)
Page 4 of 6

PrimDem
Sch. HSG-1F-2 (REV-1)
CAI
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- Primary Demand

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
137	III. TAXES and OTHER										
138	A. GENERAL TAXES										
139	Municipal property tax	408140	18,068	PriD-NetPt	8,819	1,761	2,974	3,568	802	144	0
140	Payroll related	408110	1,727	PriD-Lab	842	168	284	342	77	14	0
141	Other tax, Reg deferrals	408170	467	RateBase	258	48	75	66	14	5	0
142	General Taxes		20,262		9,920	1,977	3,334	3,975	892	163	0
143											
144	B. FEDERAL / STATE INCOME TAXES										
145	Income Tax Exp		3,337	PriD-Pretax	2,381	471	451	(232)	(188)	411	43
146	Income Taxes	409-411	3,337		2,381	471	451	(232)	(188)	411	43
147	Total Taxes	408-411	23,599		12,301	2,449	3,784	3,743	705	574	44
148											
149	Interest on Customer deposits		-	None	-	-	-	-	-	-	-
150	TOTAL EXPENSES		105,766		52,557	10,467	17,302	19,840	4,316	1,238	45
151											
152	IV. OPERATING REVENUES at Present Rates										
153	Distribution charge revenue		124,432	Total_Del_Rev	66,409	13,208	19,752	17,906	3,027	3,812	318
154	Forfeited discounts		-	None	-	-	-	-	-	-	-
155	Rent from Utility Property		1,369	NCP_at_Pri	668	133	225	270	61	11	-
156	Misc Service Revenue		-	Total_Del_Rev	-	-	-	-	-	-	-
157	Other revenue		273	Total_Del_Rev	146	29	43	39	7	8	1
158	CIAC / Cost Recovery		738	PriD-OpExp	362	72	121	144	32	6	0
159	M1 Revenue		66	Total_Del_Rev	35	7	10	9	2	2	0
160	Operating Revenues		126,877		67,619	13,449	20,153	18,370	3,128	3,839	319
161											
162	TOTAL EXPENSES		105,766		52,557	10,467	17,302	19,840	4,316	1,238	45
163	V. NET INCOME at Present Rat		21,111		15,063	2,982	2,851	(1,470)	(1,188)	2,601	274
164											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-2 (REV-1)
Page 5 of 6

PrimDem
Sch. HSG-1F-2 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- Primary Demand

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
165	SUMMARY REPORT										
166	Utility Revenues	440-446	124,432		66,409	13,208	19,752	17,906	3,027	3,812	318
167	Other Operating Revenues	450-456	2,445		1,211	241	400	463	101	27	1
168	Total Operating Revenues		126,877		67,619	13,449	20,153	18,370	3,128	3,839	319
169											
170	Distribution / Transmission	580-599	22,704		11,076	2,212	3,738	4,488	1,008	181	0
171	Customer Acctg & Service	901-919	0		0	0	0	0	0	0	0
172	Admin & General	920-932	37,980		18,694	3,713	6,243	7,367	1,650	311	1
173	Total Operating Expenses		60,684		29,770	5,925	9,981	11,855	2,659	493	1
174											
175	Depreciation Expense	403	21,483		10,486	2,094	3,537	4,242	953	171	0
176	Taxes Other Than Inc / Other	408	20,262		9,920	1,977	3,334	3,975	892	163	0
177	Income before Income tax		24,449		17,444	3,453	3,302	(1,703)	(1,376)	3,012	318
178	Income Taxes	409-411	3,337		2,381	471	451	(232)	(188)	411	43
179	NET INCOME		21,111		15,063	2,982	2,851	(1,470)	(1,188)	2,601	274
180											
181	RATE BASE		430,807		210,495	42,009	70,906	84,882	19,067	3,447	1
182	Return on Rate Base		4.90%								
183											
184	REVENUE REQUIREMENTS										
185	Target Rate of Return		7.4300%		7.4300%	7.4300%	7.4300%	7.4300%	7.4300%	7.4300%	7.4300%
186	Rate Base		430,807		210,495	42,009	70,906	84,882	19,067	3,447	1
187											
188	Operating expenses		60,684		29,770	5,925	9,981	11,855	2,659	493	1
189	Uncollectibles- Delivery		2,059	Total_RevReq	1,164	224	307	256	54	54	1
190	Depreciation expense		21,483		10,486	2,094	3,537	4,242	953	171	0
191	General taxes / Other		20,262		9,920	1,977	3,334	3,975	892	163	0
192	Subtotal- Operating Costs to recc		104,487		51,339	10,220	17,158	20,328	4,558	881	2
193											
194	Target Return on Rate Base- Aft		32,009		15,640	3,121	5,268	6,307	1,417	256	0
195	Income taxes to recover		6,427	PriD-RB	3,140	627	1,058	1,266	284	51	0
196				20.08%							
197	Subtotal- Rev Req before GRT		142,923		70,119	13,968	23,484	27,901	6,259	1,189	2
198	GRT needed		0	0.00%	0	0	0	0	0	0	0
199	TOTAL REVENUE REQ.		142,923		70,119	13,968	23,484	27,901	6,259	1,189	2

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-2 (REV-1)
Page 6 of 6

SecnDem
Sch. HSG-1F-3 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- Secondary Demand

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
1	I. ELECTRIC PLANT IN SERVICE										
2	A. HYDRO PRODUCTION PL/										
3	Production Plant	302	-	None	-	-	-	-	-	-	-
4	Hydro Production Plant		-		-	-	-	-	-	-	-
5											
6	C. TRANSMISSION PLANT										
7	Transmission Plant	361	-	None	-	-	-	-	-	-	-
8	Transmission Plant	350-359	-		-	-	-	-	-	-	-
9											
10	D. DISTRIBUTION PLANT										
11	Land and Land Rights	360	-	None	-	-	-	-	-	-	-
12	Structures and Improvements	361	-	None	-	-	-	-	-	-	-
13	Station Equipment	362	-	None	-	-	-	-	-	-	-
14	Poles, Towers and Fixtures	364	117,522	NCP_at_Sec	75,976	15,172	25,133	-	-	1,241	-
15	OH Conductors and Devices	365	105,627	NCP_at_Sec	68,285	13,637	22,589	-	-	1,116	-
16	UG Conduit	366	12,103	NCP_at_Sec	7,825	1,563	2,588	-	-	128	-
17	UG Conductors & Devices	367	19,668	NCP_at_Sec	12,715	2,539	4,206	-	-	208	-
18	Line Transformers	368	189,828	Xfmr_Cost	90,559	19,824	41,822	34,688	2,935	-	-
19	Services	369	-	None	-	-	-	-	-	-	-
20	Meters	370	-	None	-	-	-	-	-	-	-
21	Install on Cust Premises	371	-	None	-	-	-	-	-	-	-
22	Street Light & Signal	373	-	None	-	-	-	-	-	-	-
23	Electric Plant ARO	374	-	None	-	-	-	-	-	-	-
24	Distribution Plant	360-373	444,749		255,360	52,735	96,339	34,688	2,935	2,693	-
25											
26	E. GENERAL PLANT										
27	Land and Land Rights	389	-	None	-	-	-	-	-	-	-
28	General Plant	390	10,986	SecD-Lab	7,016	1,405	2,349	94	11	112	0
29	General Plant	389-399	10,986		7,016	1,405	2,349	94	11	112	0
30											
31	TOTAL UTILITY PLANT		455,735		262,375	54,140	98,687	34,782	2,946	2,804	0
32											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-3 (REV-1)
Page 1 of 6

SecnDem
Sch. HSG-1F-3 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- Secondary Demand

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
33	II. DEPRECIATION RESERVE										
34	Production Plant	108.3	-	None	-	-	-	-	-	-	-
35	Structures and Improvements	108.5	-	None	-	-	-	-	-	-	-
36	Station Equipment	108.5	-	None	-	-	-	-	-	-	-
37	Poles, Towers and Fixtures	108.5	53,113	NCP_at_Sec	34,337	6,857	11,359	-	-	561	-
38	OH Conductors and Devices	108.5	43,722	NCP_at_Sec	28,265	5,645	9,350	-	-	462	-
39	UG Conduit	108.5	5,705	NCP_at_Sec	3,688	737	1,220	-	-	60	-
40	UG Conductors & Devices	108.5	7,629	NCP_at_Sec	4,932	985	1,631	-	-	81	-
41	Line Transformers	108.5	117,426	Xfmr_Cost	56,019	12,263	25,870	21,458	1,816	-	-
42	Services	108.5	-	None	-	-	-	-	-	-	-
43	Meters	108.5	-	None	-	-	-	-	-	-	-
44	Install on Cust Premises	108.5	-	None	-	-	-	-	-	-	-
45	Street Light & Signal	108.5	-	None	-	-	-	-	-	-	-
46	General Plant	108.5	3,378	SecD-Lab	2,157	432	722	29	3	34	0
47	Net Additions / Retirements	108.6	10,939	SecD-PT	6,298	1,299	2,369	835	71	67	0
48	Depreciation Reserve	108	241,912		135,696	28,217	52,522	22,321	1,890	1,265	0
49											
50	III. OTHER RATE BASE ITEMS										
51	Property Held for Future Use		751	SecD-PT	432	89	163	57	5	5	0
52	Unamortized Debt costs		1,337	RateBase	741	137	214	190	40	15	0
53	Materials and Supp / Prepay		771	SecD-OpExp	485	97	164	15	2	8	0
54	Injuries & Damages Reserve		-	SecD-PT	-	-	-	-	-	-	-
55	Cash Working Capital		3,829	SecD-OpExp	2,409	483	813	77	10	37	0
56	Accumulated Deferred FIT		(53,367)	SecD-NetPT	(31,617)	(6,470)	(11,522)	(3,110)	(264)	(384)	(0)
57	Customer Deposits		-	None	-	-	-	-	-	-	-
58	Net Additions / Retirements		22,714	SecD-NetPT	13,457	2,754	4,904	1,324	112	163	0
59	Other Rate Base	131-283	(23,964)		(14,093)	(2,910)	(5,264)	(1,447)	(95)	(156)	0
60											
61	TOTAL RATE BASE		189,859		112,587	23,012	40,901	11,013	961	1,383	1
62											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-3 (REV-1)
Page 2 of 6

SecnDem
Sch. HSG-1F-3 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- Secondary Demand

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
63	I. OPERATING AND MAINTENANCE EXPENSES										
64	B. TRANSMISSION EXPENSE										
65	Transmission Expense		-	None	-	-	-	-	-	-	-
66	Transmission Expense		-		-	-	-	-	-	-	-
67											
68	C. DISTRIBUTION EXPENSE										
69	Purchased Power- Borderline	555	-	None	-	-	-	-	-	-	-
70	Dist Oper-Supervision & Eng	580	652	SecD-Lab	416	83	139	6	1	7	0
71	Dist Oper-Load Dispatching	581	-	None	-	-	-	-	-	-	-
72	Dist Oper-Substations	582	-	None	-	-	-	-	-	-	-
73	Dist Oper-Overhead Lines	583	1,095	NCP_at_Sec	708	141	234	-	-	12	-
74	Dist Oper-Underground Lines	584	42	NCP_at_Sec	27	5	9	-	-	0	-
75	Dist Oper-Outdoor Lighting	585	-	None	-	-	-	-	-	-	-
76	Dist Oper-Electric Meters	586	-	None	-	-	-	-	-	-	-
77	Dist Oper-Cust Install	587	50	MWh-Meter	20	4	9	13	3	0	0
78	Dist Oper-Misc Expenses	588	2,024	SecD-Lab	1,292	259	433	17	2	21	0
79	Dist Oper-Rents	589	89	SecD-PT	51	11	19	7	1	1	0
80	Dist Maint-Supervision & Eng	590	284	SecD-Lab	182	36	61	2	0	3	0
81	Dist Maint-Structures	591	-	None	-	-	-	-	-	-	-
82	Dist Maint-Substations	592	-	None	-	-	-	-	-	-	-
83	Dist Maint-Overhead Lines	593	8,116	NCP_at_Sec	5,247	1,048	1,736	-	-	86	-
84	Dist Maint-Underground Lines	594	268	NCP_at_Sec	173	35	57	-	-	3	-
85	Dist Maint-Line Transformers	595	392	Xfmr_Cost	187	41	86	72	6	-	-
86	Dist Maint-Outdoor Lighting	596	-	None	-	-	-	-	-	-	-
87	Dist Maint-Electric Meters	597	-	None	-	-	-	-	-	-	-
88	Oper. & Maint. Exp.	500-599	13,012		8,304	1,663	2,783	117	13	132	0
89			13,012		8,304	1,663	2,783	117	13	132	0
90	D. CUSTOMER ACCOUNTS AND SERVICE										
91	Supervision	901	-	None	-	-	-	-	-	-	-
92	Meter Reading Exp- Comp	902	-	None	-	-	-	-	-	-	-
93	Cust Recs & Coll	903	-	None	-	-	-	-	-	-	-
94	Uncollectible- Delivery	904	-	None	-	-	-	-	-	-	-
95	Misc Cust Acct	905	-	None	-	-	-	-	-	-	-
96	Customer Accts. Exp.	901-905	-		-	-	-	-	-	-	-
97											
98	Cust Service-Supervision	907	-	None	-	-	-	-	-	-	-
99	Cust Assistance Expenses	908	-	None	-	-	-	-	-	-	-
100	Info&Instruct Advertising Exp	9090	-	None	-	-	-	-	-	-	-
101	Cust Service-Misc Expenses	910	-	None	-	-	-	-	-	-	-
102	Demo & Selling Expenses	912	-	None	-	-	-	-	-	-	-
103	Sales-Misc Expenses	916	-	None	-	-	-	-	-	-	-
104	Customer Serv. Exp.		-		-	-	-	-	-	-	-
105	Customer Accts. & Serv. Exp.	901-919	-		-	-	-	-	-	-	-

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-3 (REV-1)
Page 3 of 6

SecnDem
Sch. HSG-1F-3 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- Secondary Demand

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
106											
107	E. ADMINISTRATIVE AND GENERAL										
108	A&G-Salaries	920	4,328	SecD-Lab	2,764	553	925	37	4	44	0
109	A&G-Office Supplies	921	1,472	SecD-Lab	940	188	315	13	1	15	0
110	A&G-Outside Services	923	1,258	SecD-Lab	803	161	269	11	1	13	0
111	Property Insurance	924	2,471	SecD-PT	1,423	294	535	189	16	15	0
112	Injuries & Damages Insurance	925	1,041	SecD-PT	599	124	225	79	7	6	0
113	Employee Pensions & Benefits	926	5,688	SecD-Lab	3,632	727	1,216	49	6	58	0
114	Regulatory Comm Expenses	928	1,121	RateBase	621	115	180	159	34	13	0
115	A&G-Misc Expenses	930200	1	MWh-Gen	0	0	0	0	0	0	0
116	A&G-Rents	931	3,743	SecD-Lab	2,390	479	800	32	4	38	0
117	A&G Maint-Gen Plant-Elec	935	46	SecD-Lab	30	6	10	0	0	0	0
118	Admin & Genl. Exp.	920-932	21,170		13,203	2,647	4,475	569	73	203	1
119	Total Operating Expenses		34,182		21,507	4,310	7,259	686	86	334	1
120											
121	II. DEPRECIATION EXPENSE										
122	Structures and Improvements	403	-	None	-	-	-	-	-	-	-
123	Station Equipment	403	-	None	-	-	-	-	-	-	-
124	Poles, Towers and Fixtures	403	1	NCP_at_Sec	1	0	0	-	-	0	-
125	OH Conductors and Devices	403	15	NCP_at_Sec	10	2	3	-	-	0	-
126	UG Conduit	403	3,085	NCP_at_Sec	1,994	398	660	-	-	33	-
127	UG Conductors & Devices	403	35	NCP_at_Sec	23	5	8	-	-	0	-
128	Line Transformers	403	7,052	Xfmr_Cost	3,364	736	1,554	1,289	109	-	-
129	Services	403	-	None	-	-	-	-	-	-	-
130	Meters	403	-	None	-	-	-	-	-	-	-
131	Install on Cust Premises	403	-	None	-	-	-	-	-	-	-
132	Street Light & Signal	403	-	None	-	-	-	-	-	-	-
133	General Plant	403	-	SecD-Lab	-	-	-	-	-	-	-
134	Net Additions / Retirements	407300	1,378	SecD-PT	794	164	298	105	9	8	0
135	Depreciation Expense	403	11,567		6,185	1,305	2,523	1,394	118	42	0
136											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-3 (REV-1)
Page 4 of 6

SecnDem
Sch. HSG-1F-3 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- Secondary Demand

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
137	III. TAXES and OTHER										
138	A. GENERAL TAXES										
139	Municipal property tax	408140	7,911	SecD-NetPt	4,687	959	1,708	461	39	57	0
140	Payroll related	408110	967	SecD-Lab	618	124	207	8	1	10	0
141	Other tax, Reg deferrals	408170	206	RateBase	114	21	33	29	6	2	0
142	General Taxes		9,084		5,419	1,104	1,948	498	46	69	0
143											
144	B. FEDERAL / STATE INCOME TAXES										
145	Income Tax Exp		1,704	SecD-Pretax	412	64	(129)	935	183	216	23
146	Income Taxes	409-411	1,704		412	64	(129)	935	183	216	23
147	Total Taxes	408-411	10,789		5,830	1,168	1,819	1,434	230	285	23
148											
149	Interest on Customer deposits		-	None	-	-	-	-	-	-	-
150	TOTAL EXPENSES		56,537		33,523	6,783	11,601	3,514	433	661	24
151											
152	IV. OPERATING REVENUES at Present Rates										
153	Distribution charge revenue		65,299	Total_Del_Rev	34,850	6,931	10,366	9,397	1,588	2,000	167
154	Forfeited discounts		-	None	-	-	-	-	-	-	-
155	Rent from Utility Property		1,425	NCP_at_Sec	921	184	305	-	-	15	-
156	Misc Service Revenue		-	Total_Del_Rev	-	-	-	-	-	-	-
157	Other revenue		143	Total_Del_Rev	76	15	23	21	3	4	0
158	CIAC / Cost Recovery		416	SecD-OpExp	261	52	88	8	1	4	0
159	M1 Revenue		35	Total_Del_Rev	19	4	6	5	1	1	0
160	Operating Revenues		67,318		36,128	7,186	10,787	9,431	1,594	2,025	168
161											
162	TOTAL EXPENSES		56,537		33,523	6,783	11,601	3,514	433	661	24
163	V. NET INCOME at Present Rat		10,780		2,605	404	(814)	5,917	1,161	1,364	144
164											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-3 (REV-1)
Page 5 of 6

SecnDem
Sch. HSG-1F-3 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- Secondary Demand

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
165	SUMMARY REPORT										
166	Utility Revenues	440-446	65,299		34,850	6,931	10,366	9,397	1,588	2,000	167
167	Other Operating Revenues	450-456	2,019		1,278	255	421	34	5	25	0
168	Total Operating Revenues		67,318		36,128	7,186	10,787	9,431	1,594	2,025	168
169											
170	Distribution / Transmission	580-599	13,012		8,304	1,663	2,783	117	13	132	0
171	Customer Acctg & Service	901-919	0		0	0	0	0	0	0	0
172	Admin & General	920-932	21,170		13,203	2,647	4,475	569	73	203	1
173	Total Operating Expenses		34,182		21,507	4,310	7,259	686	86	334	1
174											
175	Depreciation Expense	403	11,567		6,185	1,305	2,523	1,394	118	42	0
176	Taxes Other Than Inc / Other	408	9,084		5,419	1,104	1,948	498	46	69	0
177	Income before Income tax		12,485		3,017	468	(942)	6,853	1,344	1,580	166
178	Income Taxes	409-411	1,704		412	64	(129)	935	183	216	23
179	NET INCOME		10,780		2,605	404	(814)	5,917	1,161	1,364	144
180											
181	RATE BASE		189,859		112,587	23,012	40,901	11,013	961	1,383	1
182	Return on Rate Base		5.68%								
183											
184	REVENUE REQUIREMENTS										
185	Target Rate of Return		7.4300%		7.4300%	7.4300%	7.4300%	7.4300%	7.4300%	7.4300%	7.4300%
186	Rate Base		189,859		112,587	23,012	40,901	11,013	961	1,383	1
187											
188	Operating expenses		34,182		21,507	4,310	7,259	686	86	334	1
189	Uncollectibles- Delivery		1,098	Total_RevReq	621	119	164	136	29	29	0
190	Depreciation expense		11,567		6,185	1,305	2,523	1,394	118	42	0
191	General taxes / Other		9,084		5,419	1,104	1,948	498	46	69	0
192	Subtotal- Operating Costs to recc		55,931		33,732	6,838	11,893	2,715	278	474	2
193											
194	Target Return on Rate Base- Aft		14,107		8,365	1,710	3,039	818	71	103	0
195	Income taxes to recover		2,832	SecD-RB	1,680	343	610	164	14	21	0
196				20.08%							
197	Subtotal- Rev Req before GRT		72,870		43,776	8,891	15,542	3,697	364	597	2
198	GRT needed		-	0.00%	0	0	0	0	0	0	0
199	TOTAL REVENUE REQ.		72,870		43,776	8,891	15,542	3,697	364	597	2

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-3 (REV-1)
Page 6 of 6

SecnCus
Sch. HSG-1F-4 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- Secondary Customer

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
1	I. ELECTRIC PLANT IN SERVICE										
2	A. HYDRO PRODUCTION PL/										
3	Production Plant	302	-	None	-	-	-	-	-	-	-
4	Hydro Production Plant		-		-	-	-	-	-	-	-
5											
6	C. TRANSMISSION PLANT										
7	Transmission Plant	361	-	None	-	-	-	-	-	-	-
8	Transmission Plant	350-359	-		-	-	-	-	-	-	-
9											
10	D. DISTRIBUTION PLANT										
11	Land and Land Rights	360	-	None	-	-	-	-	-	-	-
12	Structures and Improvements	361	-	None	-	-	-	-	-	-	-
13	Station Equipment	362	-	None	-	-	-	-	-	-	-
14	Poles, Towers and Fixtures	364	-	None	-	-	-	-	-	-	-
15	OH Conductors and Devices	365	-	None	-	-	-	-	-	-	-
16	UG Conduit	366	-	None	-	-	-	-	-	-	-
17	UG Conductors & Devices	367	-	None	-	-	-	-	-	-	-
18	Line Transformers	368	-	Xfmr_Cost	-	-	-	-	-	-	-
19	Services	369	107,009	Services_Cost	95,006	10,647	1,328	27	0	-	-
20	Meters	370	-	None	-	-	-	-	-	-	-
21	Install on Cust Premises	371	-	None	-	-	-	-	-	-	-
22	Street Light & Signal	373	39,684	Lighting	-	-	-	-	-	39,684	-
23	Electric Plant ARO	374	-	None	-	-	-	-	-	-	-
24	Distribution Plant	360-373	146,693		95,006	10,647	1,328	27	0	39,684	-
25											
26	E. GENERAL PLANT										
27	Land and Land Rights	389	-	SecC-Lab	-	-	-	-	-	-	-
28	General Plant	390	1,757	SecC-Lab	0	0	0	0	0	1,757	0
29	General Plant	389-399	1,757		0	0	0	0	0	1,757	0
30											
31	TOTAL UTILITY PLANT		148,450		95,006	10,647	1,328	27	0	41,441	0
32											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-4 (REV-1)
Page 1 of 6

SecnCus
Sch. HSG-1F-4 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- Secondary Customer

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
33	II. DEPRECIATION RESERVE										
34	Production Plant	108.3	-	None	-	-	-	-	-	-	-
35	Structures and Improvements	108.5	-	None	-	-	-	-	-	-	-
36	Station Equipment	108.5	-	None	-	-	-	-	-	-	-
37	Poles, Towers and Fixtures	108.5	-	None	-	-	-	-	-	-	-
38	OH Conductors and Devices	108.5	-	None	-	-	-	-	-	-	-
39	UG Conduit	108.5	-	None	-	-	-	-	-	-	-
40	UG Conductors & Devices	108.5	-	None	-	-	-	-	-	-	-
41	Line Transformers	108.5	-	Xfmr_Cost	-	-	-	-	-	-	-
42	Services	108.5	41,311	Services_Cost	36,677	4,110	513	11	0	-	-
43	Meters	108.5	-	None	-	-	-	-	-	-	-
44	Install on Cust Premises	108.5	-	None	-	-	-	-	-	-	-
45	Street Light & Signal	108.5	37,190	Lighting	-	-	-	-	-	37,190	-
46	General Plant	108.5	540	SecC-Lab	0	0	0	0	0	540	0
47	Net Additions / Retirements	108.6	3,563	SecC-PT	2,280	256	32	1	0	995	0
48	Depreciation Reserve	108	82,604		38,958	4,366	545	11	0	38,725	0
49											
50	III. OTHER RATE BASE ITEMS										
51	Property Held for Future Use		245	SecC-PT	157	18	2	0	0	68	0
52	Unamortized Debt costs		407	RateBase	226	42	65	58	12	5	0
53	Materials and Supp / Prepay		132	SecC-OpExp	21	3	1	1	0	106	0
54	Injuries & Damages Reserve		-	SecC-PT	-	-	-	-	-	-	-
55	Cash Working Capital		657	SecC-OpExp	105	13	7	5	1	525	0
56	Accumulated Deferred FIT		(16,434)	SecC-NetPT	(13,989)	(1,568)	(196)	(4)	(0)	(678)	(0)
57	Customer Deposits		-	None	-	-	-	-	-	-	-
58	Net Additions / Retirements		6,995	SecC-NetPT	5,954	667	83	2	0	288	0
59	Other Rate Base	131-283	(7,998)		(7,526)	(825)	(36)	62	14	314	0
60											
61	TOTAL RATE BASE		57,848		48,522	5,456	748	78	14	3,030	0
62											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-4 (REV-1)
Page 2 of 6

SecnCus
Sch. HSG-1F-4 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- Secondary Customer

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
63	I. OPERATING AND MAINTENANCE EXPENSES										
64	B. TRANSMISSION EXPENSE										
65	Transmission Expense		-	None	-	-	-	-	-	-	-
66	Transmission Expense		-		-	-	-	-	-	-	-
67											
68	C. DISTRIBUTION EXPENSE										
69	Purchased Power- Borderline	555	-	None	-	-	-	-	-	-	-
70	Dist Oper-Supervision & Eng	580	104	SecC-Lab	0	0	0	0	0	104	0
71	Dist Oper-Load Dispatching	581	-	None	-	-	-	-	-	-	-
72	Dist Oper-Substations	582	-	None	-	-	-	-	-	-	-
73	Dist Oper-Overhead Lines	583	-	None	-	-	-	-	-	-	-
74	Dist Oper-Underground Lines	584	-	None	-	-	-	-	-	-	-
75	Dist Oper-Outdoor Lighting	585	318	Lighting	-	-	-	-	-	318	-
76	Dist Oper-Electric Meters	586	-	None	-	-	-	-	-	-	-
77	Dist Oper-Cust Install	587	-	None	-	-	-	-	-	-	-
78	Dist Oper-Misc Expenses	588	324	SecC-Lab	0	0	0	0	0	324	0
79	Dist Oper-Rents	589	29	SecC-PT	19	2	0	0	0	8	0
80	Dist Maint-Supervision & Eng	590	45	SecC-Lab	0	0	0	0	0	45	0
81	Dist Maint-Structures	591	-	None	-	-	-	-	-	-	-
82	Dist Maint-Substations	592	-	None	-	-	-	-	-	-	-
83	Dist Maint-Overhead Lines	593	-	None	-	-	-	-	-	-	-
84	Dist Maint-Underground Lines	594	-	None	-	-	-	-	-	-	-
85	Dist Maint-Line Transformers	595	-	Xfmr_Cost	-	-	-	-	-	-	-
86	Dist Maint-Outdoor Lighting	596	916	Lighting	-	-	-	-	-	916	-
87	Dist Maint-Electric Meters	597	-	None	-	-	-	-	-	-	-
88	Oper. & Maint. Exp.	500-599	1,736		19	2	0	0	0	1,715	0
89			1,736		19	2	0	0	0	1,715	0
90	D. CUSTOMER ACCOUNTS AND SERVICE										
91	Supervision	901	-	None	-	-	-	-	-	-	-
92	Meter Reading Exp- Comp	902	-	None	-	-	-	-	-	-	-
93	Cust Recs & Coll	903	-	None	-	-	-	-	-	-	-
94	Uncollectible- Delivery	904	-	None	-	-	-	-	-	-	-
95	Misc Cust Acct	905	-	None	-	-	-	-	-	-	-
96	Customer Accts. Exp.	901-905	-		-	-	-	-	-	-	-
97											
98	Cust Service-Supervision	907	-	None	-	-	-	-	-	-	-
99	Cust Assistance Expenses	908	-	None	-	-	-	-	-	-	-
100	Info&Instruct Advertising Exp	9090	-	None	-	-	-	-	-	-	-
101	Cust Service-Misc Expenses	910	-	None	-	-	-	-	-	-	-
102	Demo & Selling Expenses	912	-	None	-	-	-	-	-	-	-
103	Sales-Misc Expenses	916	-	None	-	-	-	-	-	-	-
104	Customer Serv. Exp.		-		-	-	-	-	-	-	-
105	Customer Accts. & Serv. Exp.	901-919	-		-	-	-	-	-	-	-

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-4 (REV-1)
Page 3 of 6

SecnCus
Sch. HSG-1F-4 (REV-1)
CAI
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- Secondary Customer

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
106											
107	E. ADMINISTRATIVE AND GENERAL										
108	A&G-Salaries	920	692	SecC-Lab	0	0	0	0	0	692	0
109	A&G-Office Supplies	921	235	SecC-Lab	0	0	0	0	0	235	0
110	A&G-Outside Services	923	201	SecC-Lab	0	0	0	0	0	201	0
111	Property Insurance	924	805	SecC-PT	515	58	7	0	0	225	0
112	Injuries & Damages Insurance	925	339	SecC-PT	217	24	3	0	0	95	0
113	Employee Pensions & Benefits	926	910	SecC-Lab	0	0	0	0	0	910	0
114	Regulatory Comm Expenses	928	342	RateBase	189	35	55	48	10	4	0
115	A&G-Misc Expenses	930200	0	MWh-Gen	0	0	0	0	0	0	0
116	A&G-Rents	931	599	SecC-Lab	0	0	0	0	0	599	0
117	A&G Maint-Gen Plant-Elec	935	7	SecC-Lab	0	0	0	0	0	7	0
118	Admin & Genl. Exp.	920-932	4,130		922	117	65	49	10	2,967	0
119	Total Operating Expenses		5,866		940	119	65	49	10	4,683	0
120											
121	II. DEPRECIATION EXPENSE										
122	Structures and Improvements	403	-	None	-	-	-	-	-	-	-
123	Station Equipment	403	-	None	-	-	-	-	-	-	-
124	Poles, Towers and Fixtures	403	-	None	-	-	-	-	-	-	-
125	OH Conductors and Devices	403	-	None	-	-	-	-	-	-	-
126	UG Conduit	403	-	None	-	-	-	-	-	-	-
127	UG Conductors & Devices	403	-	None	-	-	-	-	-	-	-
128	Line Transformers	403	-	Xfmr_Cost	-	-	-	-	-	-	-
129	Services	403	10,572	Services_Cost	9,386	1,052	131	3	0	-	-
130	Meters	403	-	None	-	-	-	-	-	-	-
131	Install on Cust Premises	403	-	None	-	-	-	-	-	-	-
132	Street Light & Signal	403	476	Lighting	-	-	-	-	-	476	-
133	General Plant	403	-	SecC-Lab	-	-	-	-	-	-	-
134	Net Additions / Retirements	407300	449	SecC-PT	287	32	4	0	0	125	0
135	Depreciation Expense	403	11,497		9,673	1,084	135	3	0	601	0
136											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-4 (REV-1)
Page 4 of 6

SecnCus
Sch. HSG-1F-4 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- Secondary Customer

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
137	III. TAXES and OTHER										
138	A. GENERAL TAXES										
139	Municipal property tax	408140	2,436	SecC-NetPt	2,074	232	29	1	0	100	0
140	Payroll related	408110	155	SecC-Lab	0	0	0	0	0	155	0
141	Other tax, Reg deferrals	408170	63	RateBase	35	6	10	9	2	1	0
142	General Taxes		2,654		2,108	239	39	9	2	256	0
143											
144	B. FEDERAL / STATE INCOME TAXES										
145	Income Tax Exp		189	SecC-Pretax	(181)	112	430	411	69	(659)	7
146	Income Taxes	409-411	189		(181)	112	430	411	69	(659)	7
147	Total Taxes	408-411	2,842		1,927	351	469	420	71	(403)	7
148											
149	Interest on Customer deposits		-	None	-	-	-	-	-	-	-
150	TOTAL EXPENSES		20,205		12,541	1,554	669	472	81	4,881	8
151											
152	IV. OPERATING REVENUES at Present Rates										
153	Distribution charge revenue		21,270	Total_Del_Rev	11,352	2,258	3,376	3,061	517	652	54
154	Forfeited discounts		-	None	-	-	-	-	-	-	-
155	Rent from Utility Property		-	None	-	-	-	-	-	-	-
156	Misc Service Revenue		-	Total_Del_Rev	-	-	-	-	-	-	-
157	Other revenue		47	Total_Del_Rev	25	5	7	7	1	1	0
158	CIAC / Cost Recovery		71	SecC-OpExp	11	1	1	1	0	57	0
159	M1 Revenue		11	Total_Del_Rev	6	1	2	2	0	0	0
160	Operating Revenues		21,399		11,394	2,265	3,386	3,070	519	710	55
161											
162	TOTAL EXPENSES		20,205		12,541	1,554	669	472	81	4,881	8
163	V. NET INCOME at Present Rat		1,193		(1,147)	711	2,717	2,598	438	(4,170)	47
164											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-4 (REV-1)
Page 5 of 6

SecnCus
Sch. HSG-1F-4 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- Secondary Customer

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
165	SUMMARY REPORT										
166	Utility Revenues	440-446	21,270		11,352	2,258	3,376	3,061	517	652	54
167	Other Operating Revenues	450-456	129		42	8	10	9	2	59	0
168	Total Operating Revenues		21,399		11,394	2,265	3,386	3,070	519	710	55
169											
170	Distribution / Transmission	580-599	1,736		19	2	0	0	0	1,715	0
171	Customer Acctg & Service	901-919	0		0	0	0	0	0	0	0
172	Admin & General	920-932	4,130		922	117	65	49	10	2,967	0
173	Total Operating Expenses		5,866		940	119	65	49	10	4,683	0
174											
175	Depreciation Expense	403	11,497		9,673	1,084	135	3	0	601	0
176	Taxes Other Than Inc / Other	408	2,654		2,108	239	39	9	2	256	0
177	Income before Income tax		1,382		(1,328)	823	3,147	3,009	507	(4,830)	54
178	Income Taxes	409-411	189		(181)	112	430	411	69	(659)	7
179	NET INCOME		1,193		(1,147)	711	2,717	2,598	438	(4,170)	47
180											
181	RATE BASE		57,848		48,522	5,456	748	78	14	3,030	0
182	Return on Rate Base		2.06%								
183											
184	REVENUE REQUIREMENTS										
185	Target Rate of Return		7.4300%		7.4300%	7.4300%	7.4300%	7.4300%	7.4300%	7.4300%	7.4300%
186	Rate Base		57,848		48,522	5,456	748	78	14	3,030	0
187											
188	Operating expenses		5,866		940	119	65	49	10	4,683	0
189	Uncollectibles- Delivery		335	Total_RevReq	189	36	50	42	9	9	0
190	Depreciation expense		11,497		9,673	1,084	135	3	0	601	0
191	General taxes / Other		2,654		2,108	239	39	9	2	256	0
192	Subtotal- Operating Costs to recc		20,351		12,911	1,478	289	103	21	5,549	0
193											
194	Target Return on Rate Base- Aft		4,298		3,605	405	56	6	1	225	0
195	Income taxes to recover		863	SecC-RB	724	81	11	1	0	45	0
196				20.08%							
197	Subtotal- Rev Req before GRT		25,512		17,240	1,965	356	110	22	5,819	0
198	GRT needed		-	0.00%	0	0	0	0	0	0	0
199	TOTAL REVENUE REQ.		25,512		17,240	1,965	356	110	22	5,819	0

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-4 (REV-1)
Page 6 of 6

BillCus
Sch. HSG-1F-5 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- Billing Customer

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
1	I. ELECTRIC PLANT IN SERVICE										
2	A. HYDRO PRODUCTION PL/										
3	Production Plant	302	-	None	-	-	-	-	-	-	-
4	Hydro Production Plant		-		-	-	-	-	-	-	-
5											
6	C. TRANSMISSION PLANT										
7	Transmission Plant	361	-	None	-	-	-	-	-	-	-
8	Transmission Plant	350-359	-		-	-	-	-	-	-	-
9											
10	D. DISTRIBUTION PLANT										
11	Land and Land Rights	360	-	None	-	-	-	-	-	-	-
12	Structures and Improvements	361	-	None	-	-	-	-	-	-	-
13	Station Equipment	362	-	None	-	-	-	-	-	-	-
14	Poles, Towers and Fixtures	364	-	None	-	-	-	-	-	-	-
15	OH Conductors and Devices	365	-	None	-	-	-	-	-	-	-
16	UG Conduit	366	-	None	-	-	-	-	-	-	-
17	UG Conductors & Devices	367	-	None	-	-	-	-	-	-	-
18	Line Transformers	368	-	None	-	-	-	-	-	-	-
19	Services	369	-	None	-	-	-	-	-	-	-
20	Meters	370	57,072	Meter_Cost	32,234	16,965	6,034	1,825	7	-	7
21	Install on Cust Premises	371	120	Customers	104	12	2	0	0	1	0
22	Street Light & Signal	373	-	None	-	-	-	-	-	-	-
23	Electric Plant ARO	374	-	None	-	-	-	-	-	-	-
24	Distribution Plant	360-373	57,192		32,339	16,977	6,036	1,825	7	1	7
25											
26	E. GENERAL PLANT										
27	Land and Land Rights	389	-	Bill-Lab	-	-	-	-	-	-	-
28	General Plant	390	10,307	Bill-Lab	7,951	1,607	530	137	18	65	0
29	General Plant	389-399	10,307		7,951	1,607	530	137	18	65	0
30											
31	TOTAL UTILITY PLANT		67,499		40,289	18,585	6,566	1,962	25	66	7
32											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-5 (REV-1)
Page 1 of 6

BillCus
Sch. HSG-1F-5 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- Billing Customer

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
33	II. DEPRECIATION RESERVE										
34	Production Plant	108.3	-	None	-	-	-	-	-	-	-
35	Structures and Improvements	108.5	-	None	-	-	-	-	-	-	-
36	Station Equipment	108.5	-	None	-	-	-	-	-	-	-
37	Poles, Towers and Fixtures	108.5	-	None	-	-	-	-	-	-	-
38	OH Conductors and Devices	108.5	-	None	-	-	-	-	-	-	-
39	UG Conduit	108.5	-	None	-	-	-	-	-	-	-
40	UG Conductors & Devices	108.5	-	None	-	-	-	-	-	-	-
41	Line Transformers	108.5	-	None	-	-	-	-	-	-	-
42	Services	108.5	-	None	-	-	-	-	-	-	-
43	Meters	108.5	46,003	Meter_Cost	25,983	13,675	4,864	1,471	6	-	5
44	Install on Cust Premises	108.5	10	Customers	9	1	0	0	0	0	0
45	Street Light & Signal	108.5	-	None	-	-	-	-	-	-	-
46	General Plant	108.5	3,170	Bill-Lab	2,445	494	163	42	6	20	0
47	Net Additions / Retirements	108.6	1,620	Bill-PT	967	446	158	47	1	2	0
48	Depreciation Reserve	108	50,803		29,403	14,616	5,184	1,560	12	22	6
49											
50	III. OTHER RATE BASE ITEMS										
51	Property Held for Future Use		111	Bill-DiPt	63	33	12	4	0	0	0
52	Unamortized Debt costs		78	RateBase	43	8	12	11	2	1	0
53	Materials and Supp / Prepay		911	Bill-OpExp	682	125	55	35	7	6	0
54	Injuries & Damages Reserve		-	Bill-PT	-	-	-	-	-	-	-
55	Cash Working Capital		4,526	Bill-OpExp	3,388	622	275	172	35	31	2
56	Accumulated Deferred FIT		(4,167)	Bill-NetPT	(2,717)	(991)	(345)	(100)	(3)	(11)	(0)
57	Customer Deposits		(8,889)	CustDep	(400)	(3,692)	(3,778)	(1,017)	-	(2)	-
58	Net Additions / Retirements		1,774	Bill-NetPT	1,156	422	147	43	1	5	0
59	Other Rate Base	131-283	(5,657)		2,216	(3,473)	(3,621)	(853)	42	30	2
60											
61	TOTAL RATE BASE		11,040		13,102	496	(2,240)	(451)	55	74	3
62											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-5 (REV-1)
Page 2 of 6

BillCus
Sch. HSG-1F-5 (REV-1)
CAI
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- Billing Customer

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
63	I. OPERATING AND MAINTENANCE EXPENSES										
64	B. TRANSMISSION EXPENSE										
65	Transmission Expense		-	None	-	-	-	-	-	-	-
66	Transmission Expense		-		-	-	-	-	-	-	-
67											
68	C. DISTRIBUTION EXPENSE										
69	Purchased Power- Borderline	555	-	None	-	-	-	-	-	-	-
70	Dist Oper-Supervision & Eng	580	151	Bill-DxLab	85	45	16	5	0	-	0
71	Dist Oper-Load Dispatching	581	-	None	-	-	-	-	-	-	-
72	Dist Oper-Substations	582	-	None	-	-	-	-	-	-	-
73	Dist Oper-Overhead Lines	583	-	None	-	-	-	-	-	-	-
74	Dist Oper-Underground Lines	584	-	None	-	-	-	-	-	-	-
75	Dist Oper-Outdoor Lighting	585	-	None	-	-	-	-	-	-	-
76	Dist Oper-Electric Meters	586	1,420	Meter_Cost	802	422	150	45	0	-	0
77	Dist Oper-Cust Install	587	-	None	-	-	-	-	-	-	-
78	Dist Oper-Misc Expenses	588	468	Bill-DxLab	264	139	50	15	0	-	0
79	Dist Oper-Rents	589	13	Bill-PT	8	4	1	0	0	0	0
80	Dist Maint-Supervision & Eng	590	66	Bill-DxLab	37	20	7	2	0	-	0
81	Dist Maint-Structures	591	-	None	-	-	-	-	-	-	-
82	Dist Maint-Substations	592	-	None	-	-	-	-	-	-	-
83	Dist Maint-Overhead Lines	593	-	None	-	-	-	-	-	-	-
84	Dist Maint-Underground Lines	594	-	None	-	-	-	-	-	-	-
85	Dist Maint-Line Transformers	595	-	None	-	-	-	-	-	-	-
86	Dist Maint-Outdoor Lighting	596	-	None	-	-	-	-	-	-	-
87	Dist Maint-Electric Meters	597	57	Meter_Cost	32	17	6	2	0	-	0
88	Oper. & Maint. Exp.	500-599	2,175		1,229	646	230	70	0	0	0
89			2,175		1,229	646	230	70	0	0	0
90	D. CUSTOMER ACCOUNTS AND SERVICE										
91	Supervision	901	707	Acct903	604	69	22	4	2	6	0
92	Meter Reading Exp- Comp	902	383	Meter_Cost	216	114	40	12	0	-	0
93	Cust Recs & Coll	903	12,306	Acct903	10,511	1,192	385	76	35	107	0
94	Uncollectible- Delivery	904	4,122	Total_Del_Rev	2,200	438	654	593	100	126	11
95	Misc Cust Acct	905	920	Customers	798	95	16	2	0	9	0
96	Customer Accts. Exp.	901-905	18,438		14,329	1,907	1,118	688	137	248	11
97											
98	Cust Service-Supervision	907	62	MWh-Meter	25	5	11	17	4	1	0
99	Cust Assistance Expenses	908	1,138	MWh-Meter	460	93	201	305	66	10	4
100	Info&Instruct Advertising Exp	9090	518	MWh-Meter	209	43	92	139	30	4	2
101	Cust Service-Misc Expenses	910	1,102	MWh-Meter	445	90	195	295	63	9	4
102	Demo & Selling Expenses	912	287	MWh-Meter	116	24	51	77	17	2	1
103	Sales-Misc Expenses	916	579	MWh-Meter	234	48	102	155	33	5	2
104	Customer Serv. Exp.		3,686		1,489	303	652	987	212	31	12
105	Customer Accts. & Serv. Exp.	901-919	22,124		15,818	2,210	1,770	1,675	350	280	23

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-5 (REV-1)
Page 3 of 6

BillCus
Sch. HSG-1F-5 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- Billing Customer

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
106											
107	E. ADMINISTRATIVE AND GENERAL										
108	A&G-Salaries	920	4,060	Bill-Lab	3,132	633	209	54	7	26	0
109	A&G-Office Supplies	921	1,382	Bill-Lab	1,066	215	71	18	2	9	0
110	A&G-Outside Services	923	1,180	Bill-Lab	910	184	61	16	2	7	0
111	Property Insurance	924	366	Bill-PT	218	101	36	11	0	0	0
112	Injuries & Damages Insurance	925	154	Bill-PT	92	42	15	4	0	0	0
113	Employee Pensions & Benefits	926	5,337	Bill-Lab	4,117	832	274	71	9	34	0
114	Regulatory Comm Expenses	928	65	RateBase	36	7	10	9	2	1	0
115	A&G-Misc Expenses	930200	0	MWh-Gen	0	0	0	0	0	0	0
116	A&G-Rents	931	3,512	Bill-Lab	2,709	548	180	47	6	22	0
117	A&G Maint-Gen Plant-Elec	935	43	Bill-Lab	34	7	2	1	0	0	0
118	Admin & Genl. Exp.	920-932	16,100		12,313	2,569	858	230	29	99	1
119	Total Operating Expenses		40,399		29,360	5,425	2,858	1,974	379	378	24
120											
121	II. DEPRECIATION EXPENSE										
122	Structures and Improvements	403	-	Bill-PT	-	-	-	-	-	-	-
123	Station Equipment	403	-	None	-	-	-	-	-	-	-
124	Poles, Towers and Fixtures	403	-	None	-	-	-	-	-	-	-
125	OH Conductors and Devices	403	-	None	-	-	-	-	-	-	-
126	UG Conduit	403	-	None	-	-	-	-	-	-	-
127	UG Conductors & Devices	403	-	None	-	-	-	-	-	-	-
128	Line Transformers	403	-	None	-	-	-	-	-	-	-
129	Services	403	-	None	-	-	-	-	-	-	-
130	Meters	403	3,223	Meter_Cost	1,820	958	341	103	0	-	0
131	Install on Cust Premises	403	654	Customers	568	67	11	1	0	6	0
132	Street Light & Signal	403	-	None	-	-	-	-	-	-	-
133	General Plant	403	-	Bill-Lab	-	-	-	-	-	-	-
134	Net Additions / Retirements	407300	204	Bill-PT	122	56	20	6	0	0	0
135	Depreciation Expense	403	4,081		2,510	1,082	372	110	1	7	0
136											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-5 (REV-1)
Page 4 of 6

BillCus
Sch. HSG-1F-5 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- Billing Customer

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
137	III. TAXES and OTHER										
138	A. GENERAL TAXES										
139	Municipal property tax	408140	618	Bill-NetPT	403	147	51	15	0	2	0
140	Payroll related	408110	908	Bill-Lab	700	142	47	12	2	6	0
141	Other tax, Reg deferrals	408170	12	RateBase	7	1	2	2	0	0	0
142	General Taxes		1,537		1,110	290	100	29	2	7	0
143											
144	B. FEDERAL / STATE INCOME TAXES										
145	Income Tax Exp		(305)	Bill-Pretax	(1,289)	(297)	483	565	93	128	12
146	Income Taxes	409-411	(305)		(1,289)	(297)	483	565	93	128	12
147	Total Taxes	408-411	1,232		(180)	(7)	583	594	95	136	12
148											
149	Interest on Customer deposits		132	CustDep	6	55	56	15	-	0	-
150	TOTAL EXPENSES		45,844		31,696	6,554	3,869	2,693	475	521	36
151											
152	IV. OPERATING REVENUES at Present Rates										
153	Distribution charge revenue		40,288	Total_Del_Rev	21,502	4,276	6,395	5,798	980	1,234	103
154	Forfeited discounts		1,657	Total_Del_Rev	884	176	263	238	40	51	4
155	Rent from Utility Property		-	None	-	-	-	-	-	-	-
156	Misc Service Revenue		1,368	Total_Del_Rev	730	145	217	197	33	42	3
157	Other revenue		88	Total_Del_Rev	47	9	14	13	2	3	0
158	CIAC / Cost Recovery		491	Bill-OpExp	368	68	30	19	4	3	0
159	M1 Revenue		21	Total_Del_Rev	11	2	3	3	1	1	0
160	Operating Revenues		43,914		23,542	4,677	6,923	6,267	1,060	1,334	111
161											
162	TOTAL EXPENSES		45,844		31,696	6,554	3,869	2,693	475	521	36
163	V. NET INCOME at Present Rat		(1,930)		(8,154)	(1,878)	3,054	3,574	585	812	75
164											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-5 (REV-1)
Page 5 of 6

BillCus
Sch. HSG-1F-5 (REV-1)
CAl
Class All

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation- Billing Customer

Line	Account	No.	Balance	Allocator	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
165	SUMMARY REPORT										
166	Utility Revenues	440-446	40,288		21,502	4,276	6,395	5,798	980	1,234	103
167	Other Operating Revenues	450-456	3,626		2,041	400	527	470	80	99	8
168	Total Operating Revenues		43,914		23,542	4,677	6,923	6,267	1,060	1,334	111
169											
170	Distribution / Transmission	580-599	2,175		1,229	646	230	70	0	0	0
171	Customer Acctg & Service	901-919	22,124		15,818	2,210	1,770	1,675	350	280	23
172	Admin & General	920-932	16,100		12,313	2,569	858	230	29	99	1
173	Total Operating Expenses		40,399		29,360	5,425	2,858	1,974	379	378	24
174											
175	Depreciation Expense	403	4,081		2,510	1,082	372	110	1	7	0
176	Taxes Other Than Inc / Other	408	1,669		1,115	344	156	44	2	8	0
177	Income before Income tax		(2,235)		(9,443)	(2,175)	3,537	4,139	678	941	87
178	Income Taxes	409-411	(305)		(1,289)	(297)	483	565	93	128	12
179	NET INCOME		(1,930)		(8,154)	(1,878)	3,054	3,574	585	812	75
180											
181	RATE BASE		11,040		13,102	496	(2,240)	(451)	55	74	3
182	Return on Rate Base		-17.48%								
183											
184	REVENUE REQUIREMENTS										
185	Target Rate of Return		7.4300%		7.4300%	7.4300%	7.4300%	7.4300%	7.4300%	7.4300%	7.4300%
186	Rate Base		11,040		13,102	496	(2,240)	(451)	55	74	3
187											
188	Operating expenses		36,277		27,160	4,988	2,204	1,381	279	252	13
189	Uncollectibles- Delivery		667	Total_RevReq	377	72	99	83	17	18	0
190	Depreciation expense		4,081		2,510	1,082	372	110	1	7	0
191	General taxes / Other		1,669		1,115	344	156	44	2	8	0
192	Subtotal- Operating Costs to recc		42,694		31,162	6,486	2,831	1,618	299	284	14
193											
194	Target Return on Rate Base- Aft		820		973	37	(166)	(34)	4	6	0
195	Income taxes to recover		165	Bill-RB	195	7	(33)	(7)	1	1	0
196				20.08%							
197	Subtotal- Rev Req before GRT		43,679		32,331	6,530	2,631	1,578	304	291	14
198	GRT needed		-	0.00%	0	0	0	0	0	0	0
199	TOTAL REVENUE REQ.		43,679		32,331	6,530	2,631	1,578	304	291	14

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1F-5 (REV-1)
Page 6 of 6

Assigned
Sch. HSG-1G-1 (REV-1)
Fac
Allocator Assignments

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Allocator Assignments

Line	Account	No.	Balance	Functional	Classification: Primary Dist	Classification: Secondary Dist	Class Allocation: SubTDem	Class Allocation: PrimDem	Class Allocation: SecnDem	Class Allocation: SecnCus	Class Allocation: BillCus
1	I. ELECTRIC PLANT IN SERVICE										
2	A. HYDRO PRODUCTION PLANT										
3	Production Plant	302	3,126	SubT	-	-	MWh-Gen	-	-	-	-
4	Hydro Production Plant		3,126								
5											
6	C. TRANSMISSION PLANT										
7	Transmission Plant	361	0	-	-	-	-	-	-	-	-
8	Transmission Plant	350-359	0								
9											
10	D. DISTRIBUTION PLANT										
11	Land and Land Rights	360	12,970	Stations	Demand	-	-	NCP_at_Pri	-	-	-
12	Structures and Improvements	361	10,145	Stations	Demand	-	-	NCP_at_Pri	-	-	-
13	Station Equipment	362	254,614	Stations	Demand	-	-	NCP_at_Pri	-	-	-
14	Poles, Towers and Fixtures	364	237,915	Func-364	Demand	Demand	NCP_at_115	NCP_at_Pri	NCP_at_Sec	-	-
15	OH Conductors and Devices	365	308,051	Func-365	Demand	Demand	NCP_at_115	NCP_at_Pri	NCP_at_Sec	-	-
16	UG Conduit	366	71,882	Func-366	Demand	Demand	NCP_at_115	NCP_at_Pri	NCP_at_Sec	-	-
17	UG Conductors & Devices	367	173,809	Func-367	Demand	Demand	NCP_at_115	NCP_at_Pri	NCP_at_Sec	-	-
18	Line Transformers	368	189,828	Sec	-	Demand	-	-	Xfmr_Cost	-	-
19	Services	369	107,009	Sec	-	Customer	-	-	-	Services_Cost	-
20	Meters	370	57,072	Bill	-	-	-	-	-	-	Meter_Cost
21	Install on Cust Premises	371	120	Bill	-	-	-	-	-	-	Customers
22	Street Light & Signal	373	39,684	Sec	-	Customer	-	-	-	Lighting	-
23	Electric Plant ARO	374	0	-	-	-	-	-	-	-	-
24	Distribution Plant	360-373	1,463,099								
25											
26	E. GENERAL PLANT										
27	Land and Land Rights	389	0	-	-	-	-	-	-	-	-
28	General Plant	390	47,682	Labor	Demand	SecLabor	SubT-Lab	PriD-Lab	SecD-Lab	SecC-Lab	Bill-Lab
29	General Plant	389-399	47,682								
30											
31	TOTAL UTILITY PLANT		1,513,907								
32											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1G-1 (REV-1)
Page 1 of 6

Assigned
Sch. HSG-1G-1 (REV-1)
Fac
Allocator Assignments

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Allocator Assignments

Line	Account	No.	Balance	Functional	Classification: Primary Dist	Classification: Secondary Dist	Class Allocation: SubTDem	PrimDem	SecnDem	SecnCus	BillCus
33	II. DEPRECIATION RESERVE										
34	Production Plant	108.3	3,119	SubT	-	-	MWh-Gen	-	-	-	-
35	Structures and Improvements	108.5	5,100	Stations	Demand	-	-	NCP_at_Pri	-	-	-
36	Station Equipment	108.5	51,252	Stations	Demand	-	-	NCP_at_Pri	-	-	-
37	Poles, Towers and Fixtures	108.5	107,524	Func-364	Demand	Demand	NCP_at_115	NCP_at_Pri	NCP_at_Sec	-	-
38	OH Conductors and Devices	108.5	127,510	Func-365	Demand	Demand	NCP_at_115	NCP_at_Pri	NCP_at_Sec	-	-
39	UG Conduit	108.5	33,881	Func-366	Demand	Demand	NCP_at_115	NCP_at_Pri	NCP_at_Sec	-	-
40	UG Conductors & Devices	108.5	67,415	Func-367	Demand	Demand	NCP_at_115	NCP_at_Pri	NCP_at_Sec	-	-
41	Line Transformers	108.5	117,426	Sec	-	Demand	-	-	Xfmr_Cost	-	-
42	Services	108.5	41,311	Sec	-	Customer	-	-	-	Services_Cost	-
43	Meters	108.5	46,003	Bill	-	-	-	-	-	-	Meter_Cost
44	Install on Cust Premises	108.5	10	Bill	-	-	-	-	-	-	Customers
45	Street Light & Signal	108.5	37,190	Sec	-	Customer	-	-	-	Lighting	-
46	General Plant	108.5	14,663	Labor	Demand	SecLabor	SubT-Lab	PriD-Lab	SecD-Lab	SecC-Lab	Bill-Lab
47	Net Additions / Retirements	108.6	36,338	Plant	Demand	SecPlant	SubT-Pt	PriD-PT	SecD-PT	SecC-PT	Bill-PT
48	Depreciation Reserve	108	688,742								
49											
50	III. OTHER RATE BASE ITEMS										
51	Property Held for Future Use		2,494	Plant	Demand	SecPlant	SubT-Pt	PriD-PT	SecD-PT	SecC-PT	Bill-DiPt
52	Unamortized Debt costs		5,116	RateBase	Demand	Sec_RB	RateBase	RateBase	RateBase	RateBase	RateBase
53	Materials and Supp / Prepay		3,494	OpExp	Demand	SecOpExp	SubT-OpEx	PriD-OpExp	SecD-OpExp	SecC-OpExp	Bill-OpExp
54	Injuries & Damages Reserve		0	-	-	-	-	-	-	-	-
55	Cash Working Capital		17,350	OpExp	Demand	SecOpExp	SubT-OpEx	PriD-OpExp	SecD-OpExp	SecC-OpExp	Bill-OpExp
56	Accumulated Deferred FIT		(205,947)	NetPlant	Demand	SecNetPlant	SubT-NetPt	PriD-NetPT	SecD-NetPT	SecC-NetPT	Bill-NetPT
57	Customer Deposits		(8,889)	Bill	-	-	-	-	-	-	CustDep
58	Net Additions / Retirements		87,657	NetPlant	Demand	SecNetPlant	SubT-NetPt	PriD-NetPT	SecD-NetPT	SecC-NetPT	Bill-NetPT
59	Other Rate Base	131-283	(98,725)								
60											
61	TOTAL RATE BASE		726,440								
62											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1G-1 (REV-1)
Page 2 of 6

Assigned
Sch. HSG-1G-1 (REV-1)
Fac
Allocator Assignments

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Allocator Assignments

Line	Account	No.	Balance	Functional	Classification: Primary Dist	Classification: Secondary Dist	Class Allocation: SubTDem	Class Allocation: PrimDem	Class Allocation: SecnDem	Class Allocation: SecnCus	Class Allocation: BillCus
63	I. OPERATING AND MAINTENANCE EXPENSES										
64	B. TRANSMISSION EXPENSE										
65	Transmission Expense										
66	Transmission Expense										
67											
68	C. DISTRIBUTION EXPENSE										
69	Purchased Power- Borderline	555	0	-	-	-	-	-	-	-	-
70	Dist Oper-Supervision & Eng	580	2,369	Dist-Lab	Demand	SecDxLabor	SubT-Lab	PriD-Lab	SecD-Lab	SecC-Lab	Bill-DxLab
71	Dist Oper-Load Dispatching	581	2,427	SubT	-	-	MWh-Gen	-	-	-	-
72	Dist Oper-Substations	582	1,316	Stations	Demand	-	-	NCP_at_Pri	-	-	-
73	Dist Oper-Overhead Lines	583	2,678	OH_Total	Demand	Sec_OH	NCP_at_115	NCP_at_Pri	NCP_at_Sec	-	-
74	Dist Oper-Underground Lines	584	370	Func-367	Demand	Sec_UG	NCP_at_115	NCP_at_Pri	NCP_at_Sec	-	-
75	Dist Oper-Outdoor Lighting	585	318	Sec	-	Customer	-	-	-	Lighting	-
76	Dist Oper-Electric Meters	586	1,420	Bill	-	-	-	-	-	-	Meter_Cost
77	Dist Oper-Cust Install	587	102	Func-364	Demand	Demand	MWh-Meter	MWh-Meter	MWh-Meter	-	-
78	Dist Oper-Misc Expenses	588	7,353	Dist-Lab	Demand	SecDxLabor	SubT-Lab	PriD-Lab	SecD-Lab	SecC-Lab	Bill-DxLab
79	Dist Oper-Rents	589	295	Plant	Demand	SecPlant	SubT-Pt	PriD-PT	SecD-PT	SecC-PT	Bill-PT
80	Dist Maint-Supervision & Eng	590	1,033	Dist-Lab	Demand	SecLabor	SubT-Lab	PriD-Lab	SecD-Lab	SecC-Lab	Bill-DxLab
81	Dist Maint-Structures	591	81	Stations	Demand	-	-	NCP_at_Pri	-	-	-
82	Dist Maint-Substations	592	1,670	Stations	Demand	-	-	NCP_at_Pri	-	-	-
83	Dist Maint-Overhead Lines	593	19,858	OH_Total	Demand	Demand	NCP_at_115	NCP_at_Pri	NCP_at_Sec	-	-
84	Dist Maint-Underground Lines	594	2,369	Func-367	Demand	Demand	NCP_at_115	NCP_at_Pri	NCP_at_Sec	-	-
85	Dist Maint-Line Transformers	595	392	Sec	-	Demand	-	-	Xfmr_Cost	-	-
86	Dist Maint-Outdoor Lighting	596	916	Sec	-	Customer	-	-	-	Lighting	-
87	Dist Maint-Electric Meters	597	57	Bill	-	-	-	-	-	-	Meter_Cost
88	Oper. & Maint. Exp.	500-599	45,024								
89											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1G-1 (REV-1)
Page 3 of 6

Assigned
Sch. HSG-1G-1 (REV-1)
Fac
Allocator Assignments

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Allocator Assignments

Line	Account	No.	Balance	Functional	Classification: Primary Dist	Classification: Secondary Dist	Class Allocation: SubTDem	PrimDem	SecnDem	SecnCus	BillCus
90	D. CUSTOMER ACCOUNTS AND SERVICE										
91	Supervision	901	707	Bill	-	-	-	-	-	-	Acct903
92	Meter Reading Exp- Comp	902	383	Bill	-	-	-	-	-	-	Meter_Cost
93	Cust Recs & Coll	903	12,306	Bill	-	-	-	-	-	-	Acct903
94	Uncollectible- Delivery	904	4,122	Bill	-	-	-	-	-	-	Total_Del_Rev
95	Misc Cust Acct	905	920	BIll	-	-	-	-	-	-	Customers
96	Customer Accts. Exp.	901-905	18,438								
97											
98	Cust Service-Supervision	907	62	Bill	-	-	-	-	-	-	MWh-Meter
99	Cust Assistance Expenses	908	1,138	Bill	-	-	-	-	-	-	MWh-Meter
100	Info&Instruct Advertising Exp	9,090	518	Bill	-	-	-	-	-	-	MWh-Meter
101	Cust Service-Misc Expenses	910	1,102	Bill	-	-	-	-	-	-	MWh-Meter
102	Demo & Selling Expenses	912	287	Bill	-	-	-	-	-	-	MWh-Meter
103	Sales-Misc Expenses	916	579	Bill	-	-	-	-	-	-	MWh-Meter
104			3,686								
105	Customer Accts. & Serv. Exp.	901-919	22,124								
106											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1G-1 (REV-1)
Page 4 of 6

Assigned
Sch. HSG-1G-1 (REV-1)
Fac
Allocator Assignments

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Allocator Assignments

Line	Account	No.	Balance	Functional	Classification: Primary Dist	Classification: Secondary Dist	Class Allocation: SubTDem	PrimDem	SecnDem	SecnCus	BillCus
107	E. ADMINISTRATIVE AND GENERAL										
108	A&G-Salaries	920	18,783	Labor	Demand	SecLabor	SubT-Lab	PriD-Lab	SecD-Lab	SecC-Lab	Bill-Lab
109	A&G-Office Supplies	921	6,391	Labor	Demand	SecLabor	SubT-Lab	PriD-Lab	SecD-Lab	SecC-Lab	Bill-Lab
110	A&G-Outside Services	923	5,459	Labor	Demand	SecLabor	SubT-Lab	PriD-Lab	SecD-Lab	SecC-Lab	Bill-Lab
111	Property Insurance	924	8,210	Plant	Demand	SecPlant	SubT-Pt	PriD-PT	SecD-PT	SecC-PT	Bill-PT
112	Injuries & Damages Insurance	925	3,459	Plant	Demand	SecPlant	SubT-Pt	PriD-PT	SecD-PT	SecC-PT	Bill-PT
113	Employee Pensions & Benefits	926	24,688	Labor	Demand	SecLabor	SubT-Lab	PriD-Lab	SecD-Lab	SecC-Lab	Bill-Lab
114	Regulatory Comm Expenses	928	4,290	RateBase	Demand	Sec_RB	RateBase	RateBase	RateBase	RateBase	RateBase
115	A&G-Misc Expenses	930200	2	Plant	Demand	SecPlant	-	MWh-Gen	MWh-Gen	MWh-Gen	-
116	A&G-Rents	931	16,246	Labor	Demand	SecLabor	SubT-Lab	PriD-Lab	SecD-Lab	SecC-Lab	Bill-Lab
117	A&G Maint-Gen Plant-Elec	935	201	Labor	Demand	SecLabor	SubT-Lab	PriD-Lab	SecD-Lab	SecC-Lab	Bill-Lab
118	Admin & Genl. Exp.	920-932	87,729								
119	Total Operating Expenses		154,877								
120											
121	II. DEPRECIATION EXPENSE										
122	Structures and Improvements	403	0	-	-	-	-	-	-	-	-
123	Station Equipment	403	5,698	Stations	Demand	-	-	NCP_at_Pri	-	-	-
124	Poles, Towers and Fixtures	403	2	Func-364	Demand	Demand	-	NCP_at_Pri	NCP_at_Sec	-	-
125	OH Conductors and Devices	403	44	Func-365	Demand	Demand	NCP_at_115	NCP_at_Pri	NCP_at_Sec	-	-
126	UG Conduit	403	18,322	Func-366	Demand	Demand	NCP_at_115	NCP_at_Pri	NCP_at_Sec	-	-
127	UG Conductors & Devices	403	311	Func-367	Demand	Demand	NCP_at_115	NCP_at_Pri	NCP_at_Sec	-	-
128	Line Transformers	403	7,052	Sec	-	Demand	-	-	Xfmr_Cost	-	-
129	Services	403	10,572	Sec	-	Customer	-	-	-	Services_Cost	-
130	Meters	403	3,223	Bill	-	-	-	-	-	-	Meter_Cost
131	Install on Cust Premises	403	654	Bill	-	-	-	-	-	-	Customers
132	Street Light & Signal	403	476	Sec	-	Customer	-	-	-	Lighting	-
133	General Plant	403	0	-	-	-	-	-	-	-	-
134	Net Additions / Retirements	407,300	4,579	Plant	Demand	SecPlant	NCP_at_115	PriD-PT	SecD-PT	SecC-PT	Bill-PT
135	Depreciation Expense	403	50,933								
136											

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1G-1 (REV-1)
Page 5 of 6

Assigned
Sch. HSG-1G-1 (REV-1)
Fac
Allocator Assignments

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Allocator Assignments

Line	Account	No.	Balance	Functional	Classification: Primary Dist	Classification: Secondary Dist	Class Allocation: SubTDem	PrimDem	SecnDem	SecnCus	BillCus
137	III. TAXES and OTHER										
138	A. GENERAL TAXES										
139	Municipal property tax	408,140	30,530	NetPlant	Demand	SecNetPlant	SubT-NetPt	PriD-NetPt	SecD-NetPt	SecC-NetPt	Bill-NetPT
140	Payroll related	408,110	4,199	Labor	Demand	SecLabor	SubT-Lab	PriD-Lab	SecD-Lab	SecC-Lab	Bill-Lab
141	Other tax, Reg deferrals	408,170	787	RateBase	Demand	Sec_RB	RateBase	RateBase	RateBase	RateBase	RateBase
142	General Taxes		35,516								
143											
144	B. FEDERAL / STATE INCOME TAXES										
145	Income Tax Exp		5,151	Pretax	Demand	SecPretax	SubT-Pretax	PriD-Pretax	SecD-Pretax	SecC-Pretax	Bill-Pretax
146	Income Taxes	409-411	5,151								
147	Total Taxes	408-411	40,667								
148											
149	Interest on Customer deposits		132	Bill	-	-	-	-	-	-	CustDep
150	TOTAL EXPENSES		246,609								
151											
152	IV. OPERATING REVENUES at Present Rates										
153	Distribution charge revenue		270,662	RevReqPF	Demand	SecPlant	Total_Del_Rev	Total_Del_Rev	Total_Del_Rev	Total_Del_Rev	Total_Del_Rev
154	Forfeited discounts		1,657	Bill	-	-	-	-	-	-	Total_Del_Rev
155	Rent from Utility Property		2,885	Func-364	Demand	Demand	NCP_at_115	NCP_at_Pri	NCP_at_Sec	-	-
156	Misc Service Revenue		1,368	Bill	-	-	-	-	-	-	Total_Del_Rev
157	Other revenue		594	RevReqPF	Demand	SecPlant	Total_Del_Rev	Total_Del_Rev	Total_Del_Rev	Total_Del_Rev	Total_Del_Rev
158	CIAC / Cost Recovery		1,883	OpExp	Demand	SecOpExp	SubT-OpEx	PriD-OpExp	SecD-OpExp	SecC-OpExp	Bill-OpExp
159	M1 Revenue		143	RevReqPF	Demand	Sec_RB	Total_Del_Rev	Total_Del_Rev	Total_Del_Rev	Total_Del_Rev	Total_Del_Rev
160	Operating Revenues		279,192								
161											
162	TOTAL EXPENSES		246,609								
163	V. NET INCOME at Present Rates		32,583								

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1G-1 (REV-1)
Page 6 of 6

FuncFctr
Sch. HSG-1G-2 (REV-1)
Fac
Functionalization Factors

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)

Functionalization Factors

0	Allocator Name	Total	Supply	SubTransmission	Primary Dist	Secondary Dist	Billing
1	None	0					
2		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
3							
4	Supply	1	1				
5		100.00%	100.00%	0.00%	0.00%	0.00%	0.00%
6							
7	SubT	1		1			
8		100.00%	0.00%	100.00%	0.00%	0.00%	0.00%
9							
10	Prim	1			1		
11		100.00%	0.00%	0.00%	100.00%	0.00%	0.00%
12							
13	Sec	1				1	
14		100.00%	0.00%	0.00%	0.00%	100.00%	0.00%
15							
16	Bill	1					1
17		100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
18							
19	Stations	1			1		
20		100.00%	0.00%	0.00%	100.00%	0.00%	0.00%
21							
22	Comp	1					
23		100.00%	0.00%	0.00%	0.00%	0.00%	0.00%
24							
25	Func-364	10,298	-	326	4,885	5,087	-
26		100.00%	0.00%	3.17%	47.44%	49.40%	0.00%
27							
28	Func-365	14,922	-	932	8,873	5,116	-
29		100.00%	0.00%	6.25%	59.46%	34.29%	0.00%
30							
31	Func-366	1,392	-	154	1,004	234	-
32		100.00%	0.00%	11.04%	72.12%	16.84%	0.00%
33							
34	Func-367	2,466	-	444	1,744	279	-
35		100.00%	0.00%	17.99%	70.69%	11.32%	0.00%
36							
37	PTF/OH/UG	791,657	-	65,989	470,747	254,921	-
38		100.00%	0.00%	8.34%	59.46%	32.20%	0.00%
39							
40	DistPt	1,463,099	-	65,989	748,476	591,442	57,192
41		100.00%	0.00%	4.51%	51.16%	40.42%	3.91%
42							

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1G-2 (REV-1)
Page 1 of 2

FuncFctr
Sch. HSG-1G-2 (REV-1)
Fac
Functionalization Factors

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)

Functionalization Factors

0	Allocator Name	Total	Supply	SubTransmission	Primary Dist	Secondary Dist	Billing
43	Plant	1,513,907	-	74,139	768,085	604,184	67,499
44		100.00%	0.00%	4.90%	50.74%	39.91%	4.46%
45							
46	NetPlant	825,165	-	40,454	488,347	279,668	16,697
47		100.00%	0.00%	4.90%	59.18%	33.89%	2.02%
48							
49	PTF-OH-UG	791,657	-	65,989	470,747	254,921	-
50		100.00%	0.00%	8.34%	59.46%	32.20%	0.00%
51							
52	OH_Total	545,966	-	26,781	296,036	223,149	-
53		100.00%	0.00%	4.91%	54.22%	40.87%	0.00%
54							
55	UG_Total	245,691	-	39,208	174,711	31,772	-
56		100.00%	0.00%	15.96%	71.11%	12.93%	0.00%
57							
58	RateBase	726,440	-	36,886	430,807	247,707	11,040
59		100.00%	0.00%	5.08%	59.30%	34.10%	1.52%
60							
61	Labor	33,255	-	3,503	13,676	8,887	7,189
62		100.00%	0.00%	10.53%	41.12%	26.72%	21.62%
63							
64	Dist-Lab	25,947	-	3,265	12,746	8,283	1,652
65		100.00%	0.00%	12.58%	49.13%	31.92%	6.37%
66							
67	OpExp	154,877	-	13,746	60,684	40,048	40,399
68		100.00%	0.00%	8.88%	39.18%	25.86%	26.08%
69							
70	RevReqPF	287,464	-	20,576	132,156	91,943	42,789
71		100.00%	0.00%	7.16%	45.97%	31.98%	14.89%
72							
73	Pretax	37,734	-	1,654	24,449	13,867	(2,235)
74		100.00%	-	4.38%	64.79%	36.75%	(5.92%)
75							

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1G-2 (REV-1)
Page 2 of 2

ClassFctr
Sch. HSG-1G-3 (REV-1)
Fac
Classification Factors

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)

Classification Factors

0	Allocator Name	Total	Demand	Commodity	Customer
1	None	0			
2		0.00%	0.00%	0.00%	0.00%
3					
4	Demand	1	1		
5		100.00%	100.00%	0.00%	0.00%
6					
7	Commodity	1		1	
8		100.00%	0.00%	100.00%	0.00%
9					
10	Customer	1			1
11		100.00%	0.00%	0.00%	100.00%
12					
13	Pri364	1	100.00%	0.00%	0.00%
14		100.00%	100.00%	0.00%	0.00%
15					
16	Pri365	100.00%	100.00%	0.00%	0.00%
17		100.00%	100.00%	0.00%	0.00%
18					
19	Pri366	100.00%	100.00%	0.00%	0.00%
20		100.00%	100.00%	0.00%	0.00%
21					
22	Pri367	100.00%	100.00%	0.00%	0.00%
23		100.00%	100.00%	0.00%	0.00%
24					
25	Pri368	100.00%	100.00%	0.00%	0.00%
26		100.00%	100.00%	0.00%	0.00%
27					
28	Sec364	100.00%	100.00%	0.00%	0.00%
29		100.00%	100.00%	0.00%	0.00%
30					
31	Sec365	100.00%	100.00%	0.00%	0.00%
32		100.00%	100.00%	0.00%	0.00%
33					
34	Sec366	100.00%	100.00%	0.00%	0.00%
35		100.00%	100.00%	0.00%	0.00%
36					

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1G-3 (REV-1)
Page 1 of 3

ClassFctr
Sch. HSG-1G-3 (REV-1)
Fac
Classification Factors

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)

Classification Factors

0	Allocator Name	Total	Demand	Commodity	Customer
37	Sec367	100.00%	100.00%	0.00%	0.00%
38		100.00%	100.00%	0.00%	0.00%
39					
40	Sec368	100.00%	100.00%	0.00%	0.00%
41		100.00%	100.00%	0.00%	0.00%
42					
43	Pri_OH	296,036	296,036	-	-
44		100.00%	100.00%	0.00%	0.00%
45					
46	Pri_UG	174,711	174,711	-	-
47		100.00%	100.00%	0.00%	0.00%
48					
49	PriPlant	768,085	768,085	-	-
50		100.00%	100.00%	0.00%	0.00%
51					
52	Pri364-367	470,747	470,747	-	-
53		100.00%	100.00%	0.00%	0.00%
54					
55	Pri_RB	430,807	430,807	-	-
56		100.00%	100.00%	0.00%	0.00%
57					
58	PriLabor	13,676	13,676	-	-
59		100.00%	100.00%	0.00%	0.00%
60					
61	PriOpExp	60,684	60,684	-	-
62		100.00%	100.00%	0.00%	0.00%
63					

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1G-3 (REV-1)
Page 2 of 3

ClassFctr
Sch. HSG-1G-3 (REV-1)
Fac
Classification Factors

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)

Classification Factors

0	Allocator Name	Total	Demand	Commodity	Customer
64	PriPretax	24,449	24,449	-	-
65		100.00%	100.00%	0.00%	0.00%
66					
67	Sec_OH	223,149	223,149	-	-
68		100.00%	100.00%	0.00%	0.00%
69					
70	Sec_UG	31,772	31,772	-	-
71		100.00%	100.00%	0.00%	0.00%
72					
73	SecPlant	604,184	455,735	-	148,450
74		100.00%	75.43%	0.00%	24.57%
75					
76	SecNetPlant	279,668	213,823	-	65,845
77		100.00%	76.46%	0.00%	23.54%
78					
79	Sec364-367	254,921	254,921	-	-
80		100.00%	100.00%	0.00%	0.00%
81					
82	Sec_RB	247,707	189,859	-	57,848
83		100.00%	76.65%	0.00%	23.35%
84					
85	SecDxLabor	8,283	7,141	-	1,142
86		100.00%	86.21%	0.00%	13.79%
87					
88	SecLabor	8,887	7,662	-	1,225
89		100.00%	86.21%	0.00%	13.79%
90					
91	SecOpExp	40,048	34,182	-	5,866
92		100.00%	85.35%	0.00%	14.65%
93					
94	SecPretax	13,867	12,485	-	1,382
95		100.00%	90.03%	0.00%	9.97%
96					
97	Sec_RRPF	85,810	60,648	-	25,162
98		100.00%	70.68%	0.00%	29.32%
99					

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1G-3 (REV-1)
Page 3 of 3

AllocFctr
Sch. HSG-1G-4 (REV-1)
Fac
Class Allocation Factors

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation Factors

0	Allocator Name	Total	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
1	None	-							
2		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
3									
4	A16/A60	1	1						
5		100.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
6									
7	Lighting	1						1	
8		100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%
9									
10	MWh-Meter	7,295,727	2,946,725	598,981	1,290,927	1,952,810	420,270	62,050	23,963
11		100.00%	40.39%	8.21%	17.69%	26.77%	5.76%	0.85%	0.33%
12									
13	MWh-Gen	7,773,861	3,186,181	647,655	1,394,628	2,019,488	434,854	67,092	23,963
14		100.00%	40.99%	8.33%	17.94%	25.98%	5.59%	0.86%	0.31%
15									
16	NCP_at_115	1,938	938	187	316	385	85	15	11
17		100.00%	48.38%	9.66%	16.32%	19.88%	4.40%	0.79%	0.57%
18									
19	NCP_at_Pri	1,856	906	181	306	367	82	15	-
20		100.00%	48.81%	9.75%	16.46%	19.75%	4.44%	0.80%	0.00%
21									
22	NCP_at_Sec	1,341	867	173	287	-	-	14	-
23		100.00%	64.65%	12.91%	21.39%	0.00%	0.00%	1.06%	0.00%
24									
25	Bills	6,090	5,285	627	105	13	0	60	0
26		100.00%	86.78%	10.29%	1.72%	0.22%	0.00%	0.99%	0.00%
27									
28	Customers	507.492	440.389	52.216	8.745	1.109	0.013	5.020	0.001
29		100.00%	86.78%	10.29%	1.72%	0.22%	0.00%	0.99%	0.00%
30									
31	Xfmr_Cost	108,932	51,967	11,376	23,999	19,906	1,684	-	-
32		100.00%	47.71%	10.44%	22.03%	18.27%	1.55%	0.00%	0.00%
33									
34	Services_Cost	894,020	793,737	88,952	11,099	229	4	-	-
35		100.00%	88.78%	9.95%	1.24%	0.03%	0.00%	0.00%	0.00%
36									
37	Meter_Cost	44,178	24,952	13,132	4,671	1,413	6	-	5
38		100.00%	56.48%	29.73%	10.57%	3.20%	0.01%	0.00%	0.01%
39									
40	All_Meters	513	449	54	9	1	0	-	0
41		100.00%	87.62%	10.48%	1.69%	0.21%	0.00%	0.00%	0.00%
42									

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1G-4 (REV-1)
Page 1 of 5

AllocFctr
Sch. HSG-1G-4 (REV-1)
Fac
Class Allocation Factors

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation Factors

0	Allocator Name	Total	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
43	kWh_Rev	142,462	104,958	19,515	6,042	10,760	-	804	383
44		100.00%	73.67%	13.70%	4.24%	7.55%	0.00%	0.56%	0.27%
45									
46	Demand_Rev	31,275	-	-	17,431	10,798	3,046	-	-
47		100.00%	0.00%	0.00%	55.73%	34.53%	9.74%	0.00%	0.00%
48									
49	Total_Del_Rev	270,662	144,451	28,729	42,965	38,950	6,584	8,291	692
50		100.00%	53.37%	10.61%	15.87%	14.39%	2.43%	3.06%	0.26%
51									
52	Acct903	0	0	0	0	0	0	0	0
53		100.00%	85.41%	9.69%	3.13%	0.62%	0.28%	0.87%	0.00%
54									
55	Write-Offs	3,122	2,593	270	173	41	24	21	-
56		100.00%	83.05%	8.66%	5.55%	1.31%	0.77%	0.66%	0.00%
57									
58	CustDep	100.00%	4.50%	41.54%	42.50%	11.44%	0.00%	0.03%	0.00%
59		100.00%	4.50%	41.54%	42.50%	11.44%	0.00%	0.03%	0.00%
60									
61	Light-Fixtures	6	-	-	-	-	-	6	-
62		100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%
63									
64	Lighting	1	0	0	0	0	0	1	0
65		100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%
66									
67	SubT-Pt	74,139	35,387	7,076	12,203	15,136	3,339	591	407
68		100.00%	47.73%	9.54%	16.46%	20.42%	4.50%	0.80%	0.55%
69									
70	SubT-NetPt	40,454	19,409	3,879	6,637	8,176	1,805	321	226
71		100.00%	47.98%	9.59%	16.41%	20.21%	4.46%	0.79%	0.56%
72									
73	SubT-OpEx	13,746	6,037	1,216	2,380	3,239	703	116	55
74		100.00%	43.92%	8.85%	17.32%	23.56%	5.12%	0.84%	0.40%
75									
76	SubT-RB	36,886	17,642	3,525	6,067	7,502	1,655	295	202
77		100.00%	47.83%	9.56%	16.45%	20.34%	4.49%	0.80%	0.55%
78									
79	SubT-Lab	3,503	1,520	307	610	841	182	29	14
80		100.00%	43.39%	8.76%	17.41%	24.00%	5.21%	0.84%	0.39%
81									
82	SubT-Pretax	1,654	2,400	460	42	(1,258)	(410)	447	(27)
83		100.00%	145.13%	27.82%	2.55%	-76.07%	-24.82%	27.05%	-1.66%
84									

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1G-4 (REV-1)
Page 2 of 5

AllocFctr
Sch. HSG-1G-4 (REV-1)
Fac
Class Allocation Factors

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation Factors

0	Allocator Name	Total	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
85	PriD-RB	430,807	210,495	42,009	70,906	84,882	19,067	3,447	1
86		100.00%	48.86%	9.75%	16.46%	19.70%	4.43%	0.80%	0.00%
87									
88	PriD-Lab	13,676	6,670	1,332	2,252	2,705	608	109	0
89		100.00%	48.77%	9.74%	16.47%	19.78%	4.44%	0.80%	0.00%
90									
91	PriD-OpExp	60,684	29,770	5,925	9,981	11,855	2,659	493	1
92		100.00%	49.06%	9.76%	16.45%	19.54%	4.38%	0.81%	0.00%
93									
94	PriD-Pt	768,085	374,899	74,867	126,444	151,668	34,081	6,125	0
95		100.00%	48.81%	9.75%	16.46%	19.75%	4.44%	0.80%	0.00%
96									
97	PriD-NetPt	488,347	238,360	47,601	80,393	96,430	21,669	3,894	0
98		100.00%	48.81%	9.75%	16.46%	19.75%	4.44%	0.80%	0.00%
99									
100	PriD-Pt-Tax	748,476	365,335	72,957	123,215	147,790	33,210	5,969	-
101		100.00%	48.81%	9.75%	16.46%	19.75%	4.44%	0.80%	0.00%
102									
103	PriD-Pretax	24,449	17,444	3,453	3,302	(1,703)	(1,376)	3,012	318
104		100.00%	71.35%	14.12%	13.50%	-6.97%	-5.63%	12.32%	1.30%
105									
106	SecD-RB	189,859	112,587	23,012	40,901	11,013	961	1,383	1
107		100.00%	59.30%	12.12%	21.54%	5.80%	0.51%	0.73%	0.00%
108									
109	SecD-Lab	7,662	4,893	980	1,638	65	8	78	0
110		100.00%	63.86%	12.79%	21.38%	0.85%	0.10%	1.02%	0.00%
111									
112	SecD-OpExp	34,182	21,507	4,310	7,259	686	86	334	1
113		100.00%	62.92%	12.61%	21.24%	2.01%	0.25%	0.98%	0.00%
114									
115	SecD-Pt	455,735	262,375	54,140	98,687	34,782	2,946	2,804	0
116		100.00%	57.57%	11.88%	21.65%	7.63%	0.65%	0.62%	0.00%
117									
118	SecD-NetPt	213,823	126,680	25,922	46,165	12,460	1,056	1,539	0
119		100.00%	59.25%	12.12%	21.59%	5.83%	0.49%	0.72%	0.00%
120									
121	SecD-Pt-Tax	444,749	255,360	52,735	96,339	34,688	2,935	2,693	-
122		100.00%	57.42%	11.86%	21.66%	7.80%	0.66%	0.61%	0.00%
123									
124	SecD-DiPt	444,749	255,360	52,735	96,339	34,688	2,935	2,693	-
125		100.00%	57.42%	11.86%	21.66%	7.80%	0.66%	0.61%	0.00%
126									

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1G-4 (REV-1)
Page 3 of 5

AllocFctr
Sch. HSG-1G-4 (REV-1)
Fac
Class Allocation Factors

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation Factors

0	Allocator Name	Total	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
127	SecD-Pretax	12,485	3,017	468	(942)	6,853	1,344	1,580	166
128		100.00%	24.16%	3.75%	-7.55%	54.89%	10.77%	12.65%	1.33%
129									
130	SecC-RB	57,848	48,522	5,456	748	78	14	3,030	0
131		100.00%	83.88%	9.43%	1.29%	0.14%	0.02%	5.24%	0.00%
132									
133	SecC-Lab	1,225	0	0	0	0	0	1,225	0
134		100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%
135									
136	SecC-OpExp	5,866	940	119	65	49	10	4,683	0
137		100.00%	16.03%	2.03%	1.11%	0.83%	0.17%	79.82%	0.00%
138									
139	SecC-Pt	148,450	95,006	10,647	1,328	27	0	41,441	0
140		100.00%	64.00%	7.17%	0.89%	0.02%	0.00%	27.92%	0.00%
141									
142	SecC-NetPt	65,845	56,048	6,281	784	16	0	2,716	0
143		100.00%	85.12%	9.54%	1.19%	0.02%	0.00%	4.12%	0.00%
144									
145	SecC-Pt-Tax	148,450	95,006	10,647	1,328	27	0	41,441	0
146		100.00%	64.00%	7.17%	0.89%	0.02%	0.00%	27.92%	0.00%
147									
148	SecC-Pretax	1,382	(1,328)	823	3,147	3,009	507	(4,830)	54
149		100.00%	-96.10%	59.56%	227.68%	217.70%	36.67%	-349.44%	3.94%
150									
151	Bill-RB	11,040	13,102	496	(2,240)	(451)	55	74	3
152		100.00%	118.68%	4.49%	-20.29%	-4.09%	0.50%	0.67%	0.03%
153									
154	Bill-DxLab	1,652	933	491	175	53	0	-	0
155		100.00%	56.48%	29.73%	10.57%	3.20%	0.01%	0.00%	0.01%
156									
157	Bill-Lab	7,189	5,545	1,121	369	95	12	45	0
158		100.00%	77.13%	15.60%	5.14%	1.33%	0.17%	0.63%	0.00%
159									
160	Bill-OpExp	36,277	27,160	4,988	2,204	1,381	279	252	13
161		100.00%	74.87%	13.75%	6.07%	3.81%	0.77%	0.70%	0.04%
162									
163	Bill-Pt	67,499	40,289	18,585	6,566	1,962	25	66	7
164		100.00%	59.69%	27.53%	9.73%	2.91%	0.04%	0.10%	0.01%
165									
166	Bill-NetPt	16,697	10,886	3,969	1,381	402	13	44	1
167		100.00%	65.20%	23.77%	8.27%	2.41%	0.08%	0.27%	0.01%
168									

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1G-4 (REV-1)
Page 4 of 5

AllocFctr
Sch. HSG-1G-4 (REV-1)
Fac
Class Allocation Factors

Narragansett Electric Company d/b/a National Grid
Class Cost of Service Study ($000s)
Rate Year Ending August 31, 2019 (REV-1)
Class Allocation Factors

0	Allocator Name	Total	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
169	Bill-DiPt	57,192	32,339	16,977	6,036	1,825	7	1	7
170		100.00%	56.54%	29.68%	10.55%	3.19%	0.01%	0.00%	0.01%
171									
172	Bill-Pretax	(2,235)	(9,443)	(2,175)	3,537	4,139	678	941	87
173		100.00%	422.46%	97.29%	(158.24%)	(185.18%)	(30.33%)	(42.09%)	(3.90%)
174									
175	Labor	33,255	18,628	3,740	4,869	3,706	810	1,487	14
176		100.00%	56.02%	11.25%	14.64%	11.14%	2.44%	4.47%	0.04%
177									
178	Labor-DistOM	25,947	13,127	2,932	4,369	3,418	744	1,344	13
179		100.00%	50.59%	11.30%	16.84%	13.17%	2.87%	5.18%	0.05%
180									
181	Plant	1,513,907	807,956	165,315	245,228	203,574	40,392	51,027	415
182		100.00%	53.37%	10.92%	16.20%	13.45%	2.67%	3.37%	0.03%
183									
184	RateBase	726,440	402,348	74,498	116,382	103,024	21,752	8,229	207
185		100.00%	55.39%	10.26%	16.02%	14.18%	2.99%	1.13%	0.03%
186									
187	Total_RevReq	306,626	173,307	33,330	45,688	38,106	8,001	8,080	115
188		100.00%	56.52%	10.87%	14.90%	12.43%	2.61%	2.64%	0.04%
189									

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-1G-4 (REV-1)
Page 5 of 5

Schedule HSG-2 (REV-1)

Development of External Allocators for the Allocated Cost of Service

Index
HSG-2 Index (REV-1)

Development of Allocators - Index

Line	Schedule	Description
1	Sch. HSG-2 Index (REV-1)	Development of Allocators - Index
2	Sch. HSG-2A (REV-1)	External Allocator Values- Class Allocation
3	Sch. HSG-2B (REV-1)	External Allocator Values- Functionalization
4	Sch. HSG-2C (REV-1)	Proof of Distribution Revenue at Current Rates- Rate Year
5	Sch. HSG-2D (REV-1)	Transformer Costs
6	Sch. HSG-2E (REV-1)	Transformer Cost Allocation to Rate Classes
7	Sch. HSG-2F (REV-1)	Transformer Unit Costs
8	Sch. HSG-2G (REV-1)	Services Costs
9	Sch. HSG-2H (REV-1)	Meter Costs
10	Sch. HSG-2I (REV-1)	Customer Deposits
11	Sch. HSG-2J (REV-1)	Customer Records and Accounting- Account 903
12	Sch. HSG-2K (REV-1)	Write-Offs
13	Sch. HSG-2L (REV-1)	Schedules for Demand Allocators
14	Sch. HSG-2M (REV-1)	Historical Load Factors and 1CP / NCP
15	Sch. HSG-2N (REV-1)	Test Year Ended 6/30/2017 Class Contributions to 1CP and Class NCP
16	Sch. HSG-2O (REV-1)	Rate Year 8/31/2019 Class Contributions to 1CP at Voltage Levels
17	Sch. HSG-2P (REV-1)	Rate Year 8/31/2019 Class NCP at Voltage Levels
18	Sch. HSG-2Q (REV-1)	Rate Year 8/31/2019 MWh Sales at Voltage Levels
19	Sch. HSG-2R (REV-1)	Functional Splits

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-2 Index (REV-1)
Page 1 of 1

Alloc

HSG-2A (REV-1)

External Allocator Values- Class Allocation

Line	Allocator Names	Total	Units	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
				A16/A60	C06	G02	B32 / G32	B62 / G62	S05/S06/S10/S14	X01
	ALLOCATION VALUES									
1	MWh-Meter	7,295,727	MWh	2,946,725	598,981	1,290,927	1,952,810	420,270	62,050	23,963
2	MWh-Gen	7,773,861	MWh	3,186,181	647,655	1,394,628	2,019,488	434,854	67,092	23,963
3	MWh-CI	4,262,989	MWh		598,981	1,290,927	1,952,810	420,270		
4										
5	NCP_at_115	1,937,857	MW	937,555	187,230	316,205	385,231	85,227	15,318	11,091
6	NCP_at_Pri	1,856,389	MW	906,113	180,951	305,601	366,552	82,368	14,804	0
7	NCP_at_Sec	1,341,258	MW	867,094	173,159	286,839	0	0	14,167	0
8	Customers-VL	1,122	MW				1,109	13		
9	Bills	6,089,923	#	5,284,666	626,592	104,935	13,307	156	60,254	12
10	Customers	507,492	#	440,389	52,216	8,745	1,109	13	5,020	1
11	Customers-CI	62,084	#		52,216	8,745	1,109	13		1
12	Customers-Large	9,867	#			8,745	1,109	13		
13	Xfmr_Cost	108,932,218	#	51,967,079	11,376,012	23,999,207	19,905,638	1,684,281	0	0
14	Services_Cost	894,020,312	$	793,737,225	88,952,112	11,098,734	228,709	3,533	0	0
15	Meter_Cost	44,178,183	$	24,951,924	13,132,122	4,670,716	1,412,718	5,586	0	5,116
16	All_Meters	512,923	#	449,413	53,757	8,666	1,078	5	0	4
17	Cust_Chge_Rev	64,929,905	$	24,237,476	6,226,298	14,166,287	10,977,890	2,658,482	6,461,580	201,893
18	kWh_Rev	142,462,130	$	104,957,514	19,515,431	6,041,540	10,759,982	0	804,259	383,403
19	Demand_Rev	31,275,430	$	0	0	17,431,271	10,798,356	3,045,803	0	0
20	Demand_Discounts	(812,303)	$	0	0	(47,568)	(118,564)	(646,172)	0	0
21	Total_Del_Rev	270,662,304	$	144,451,182	28,729,051	42,965,257	38,949,849	6,583,881	8,290,740	692,345
22	Other_Dist_Rev	0	$							
23	Acct903	100.00%	%	85.41%	9.69%	3.13%	0.62%	0.28%	0.87%	0.00%
24	Write-Offs	3,122,186	$	2,593,073	270,263	173,316	40,907	24,073	20,553	0
25	CustDep	100.00%	%	4.50%	41.54%	42.50%	11.44%	0.00%	0.03%	0.00%
26	Light-Fixtures	6,105	#						6,105	

Functions
HSG-2B (REV-1)

External Allocator Values- Functionalization

Line	Functional Allocator Values	Source	Total	Supply	SubTransmission	Primary	Secondary	Billing
1	Func-364	Schedule HSG-2R (REV-1), lines 9-11	10,298		326	4,885	5,087	
2	Func-365	Schedule HSG-2R (REV-1), lines 1-3	14,922		932	8,873	5,116	
3	Func-366	Schedule HSG-2R (REV-1), lines 17-19	1,392		154	1,004	234	
4	Func-367	Schedule HSG-2R (REV-1), lines 25-27	2,466		444	1,744	279	

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-2B (REV-1)

Revenue
HSG-2C (REV-1)

Proof of Distribution Revenue at Current Rates- Rate Year

	Code	Description	Includes	Customers	Annual Bills	Monthly Customer Charge	Customer Charge Revenue	Billing Demand	Demand Charge	Demand Charge Revenue
1	A16	Residential	A-16,A-60	440,389	5,284,666		24,237,476			
2	C06	Small C&I	C-06,C-08	52,216	626,592		6,226,298			
3	G02	General C&I	G-02	8,745	104,935		14,166,287	3,594,077		17,431,271
4	G32	200 kW Demand	B-32,G-32	1,109	13,307		10,977,890	2,996,026		10,798,356
5	G62	5000 kW Demand	B-62,G-62	13	156		2,658,482	1,018,663		3,045,803
6	SL	Lighting	S-05/06/10/14	5,020	60,254		6,461,580			
7	X01	Propulsion	X-01	1	12		201,893			
8				507,492	6,089,923		64,929,905	7,608,765		31,275,430
9										
10	A16	Residential Basic	A16/A60	403,958	4,847,495	$5.00	24,237,476			
11	A60	Resid. Low Income	A16/A60	36,431	437,171	-	-			
12	B32	C&I Back-up	B32 / G32	5	60	$825.00	49,629	126,964	See below	182,826
13	B62	5000 kW Back-up	B62 / G62	-	-	$17,000.00	-	-	See below	-
14	C06	Small C&I	C06	51,391	616,686	$10.00	6,166,861			
15	C08	Small C&I Unmetrd	C06	826	9,906	$6.00	59,437			
16	G02	General C&I	G02	8,745	104,935	$135.00	14,166,287	3,594,077	$4.85	17,431,271
17	G32	200 kW Demand	B32 / G32	1,104	13,246	$825.00	10,928,261	2,869,062	$3.70	10,615,530
18	G62	5000 kW Demand	B62 / G62	13	156	$17,000.00	2,658,482	1,018,663	$2.99	3,045,803
19	S05	SL Customer-owned	Lighting		-		-			
20	S06	SL Decorative	Lighting		14	$450.54	6,308			
21	S10	SL Private	Lighting	427	5,124	$157.93	809,211			
22	S14	SL Street	Lighting	4,593	55,116	$102.44	5,646,062			
23	X01	X-01		1	12	$16,500.00	201,893			
24				507,492	6,089,923		64,929,905	7,608,765		31,275,430
25				*Check*	*6,089,923*		*64,929,905*			
26										
27		B-32 C&I Back-up	Back-up				G32	95,646	$0.70	66,952
28			Supplemental				B32	31,317	$3.70	115,874
29								126,964		182,826
30										
31		B-62 5000 kW Back-u	Back-up					-	$0.30	-
32			Supplemental					-	$2.99	-
33								-		-
34										
35		C-6 Small C&I	kWh							
36			Over 25 kVA							
37										
38										
38		C-8 Small C&I Unmete	kWh							
39			Over 25 kVA							
40										

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-2C (REV-1)

Revenue
HSG-2C (REV-1)

Proof of Distribution Revenue at Current Rates- Rate Year

	Code	Description	Includes	kWh Deliveries	kWh Charge	kWh Charge Revenue	HVD Billing Units	HVD Credit Revenue	HVM Billing Units	HVM Credit Revenue
1	A16	Residential	A-16,A-60	2,946,725,332		104,957,514				
2	C06	Small C&I	C-06,C-08	598,981,304		19,515,431				
3	G02	General C&I	G-02	1,290,927,306		6,041,540	64,848	(28,766)	37,639,098	(18,802)
4	G32	200 kW Demand	B-32,G-32	1,952,809,776		10,759,982	1,392,345	(617,630)	33,349,315	(314,020)
5	G62	5000 kW Demand	B-62,G-62	420,270,233		-	893,698	(396,436)	5,704,285	(249,736)
6	SL	Lighting	S-05/06/10/14	62,049,950		804,259				
7	X01	Propulsion	X-01	23,962,704		383,403				
8				7,295,726,605		142,462,130	2,350,891	(1,042,832)	76,692,698	(582,559)
9										
10	A16	Residential Basic	A16/A60	2,723,228,532	$0.03664	99,779,093				
11	A60	Resid. Low Income	A16/A60	223,496,800	$0.02317	5,178,421				
12	B32	C&I Back-up	B32 / G32	13,230,918	$0.00551	72,902		-	305,357	(5,549)
13	B62	5000 kW Back-up	B62 / G62	-		-		-	-	-
14	C06	Small C&I	C06	595,486,038	See below	19,385,591				
15	C08	Small C&I Unmetrd	C06	3,495,266	See below	129,840				
16	G02	General C&I	G02	1,290,927,306	$0.00468	6,041,540	64,848	(28,766)	37,639,098	(18,802)
17	G32	200 kW Demand	B32 / G32	1,939,578,858	$0.00551	10,687,080	1,392,345	(617,630)	33,043,958	(308,471)
18	G62	5000 kW Demand	B62 / G62	420,270,233	-	-	893,698	(396,436)	5,704,285	(249,736)
19	S05	SL Customer-owned	Lighting	30,303,659	$0.02654	804,259				
20	S06	SL Decorative	Lighting	3,451		-				
21	S10	SL Private	Lighting	7,793,834		-				
22	S14	SL Street	Lighting	23,949,006		-				
23	X01	X-01		23,962,704	$0.01600	383,403				
24				7,295,726,605		142,462,130	2,350,891	(1,042,832)	76,692,698	(582,559)
25				*7,295,726,605*		*142,462,130*		*(1,042,838)*		*(582,559)*
26							Rate	($0.44359)		
27		B-32 C&I Back-up	Back-up		$0.00818					
28			Supplemental							
29										
30										
31		B-62 5000 kW Back-u	Back-up							
32			Supplemental							
33										
34										
35		C-6 Small C&I	kWh	595,486,038	$0.03253	19,371,161				
36			Over 25 kVA	7,800	$1.85000	14,430				
37				595,493,838		19,385,591				
38										
38		C-8 Small C&I Unmete	kWh	3,495,266	$0.03253	113,701				
39			Over 25 kVA	8,724	$1.85000	16,139				
40				3,503,990		129,840				

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-2C (REV-1)
Page 2 of 3

Revenue
HSG-2C (REV-1)

Proof of Distribution Revenue at Current Rates- Rate Year

	Code	Description	Includes	Feeder Service Billing Units	Feeder Service Revenue	CapEx Rev Req- FY 2018 ISR Plan	Normalized Rate Year Revenue	Adjust to RDM	Rate Year Revenue
1	A16	Residential	A-16,A-60			8,486,569	137,681,559	6,769,623	144,451,182
2	C06	Small C&I	C-06,C-08			1,611,260	27,352,989	1,376,062	28,729,051
3	G02	General C&I	G-02			2,408,031	39,999,561	2,965,696	42,965,257
4	G32	200 kW Demand	B-32,G-32	295,668	813,087	2,045,922	34,463,586	4,486,263	38,949,849
5	G62	5000 kW Demand	B-62,G-62			560,265	5,618,378	965,503	6,583,881
6	SL	Lighting	S-05/06/10/14			882,350	8,148,190	142,550	8,290,740
7	X01	Propulsion	X-01			51,999	637,295	55,050	692,345
8				295,668	813,087	16,046,396	253,901,557	16,760,747	270,662,304
9									
10	A16	Residential Basic	A16/A60			7,842,898	131,859,467	6,256,175	138,115,642
11	A60	Resid. Low Income	A16/A60			643,671	5,822,092	513,448	6,335,539
12	B32	C&I Back-up	B32 / G32			8,887	308,696	30,396	339,091
13	B62	5000 kW Back-up	B62 / G62			-	-	-	-
14	C06	Small C&I	C06			1,601,857	27,154,310	1,368,032	28,522,342
15	C08	Small C&I Unmetrd	C06			9,402	198,679	8,030	206,709
16	G02	General C&I	G02			2,408,031	39,999,561	2,965,696	42,965,257
17	G32	200 kW Demand	B32 / G32	295,668	813,087	2,037,034	34,154,890	4,455,867	38,610,758
18	G62	5000 kW Demand	B62 / G62			560,265	5,618,378	965,503	6,583,881
19	S05	SL Customer-owned	Lighting			430,918	1,235,177	69,618	1,304,795
20	S06	SL Decorative	Lighting			49	6,357	8	6,365
21	S10	SL Private	Lighting			110,828	920,039	17,905	937,944
22	S14	SL Street	Lighting			340,555	5,986,617	55,019	6,041,636
23	X01	X-01				51,999	637,295	55,050	692,345
24				295,668	813,087	16,046,396	253,901,557	16,760,747	270,662,304
25					*813,087*	*16,046,396*	*253,901,551*	*16,760,747*	*270,662,298*
26				Rate	$2.75		*253,901,551*		
27		B-32 C&I Back-up	Back-up						
28			Supplemental						
29									
30									
31		B-62 5000 kW Back-u	Back-up						
32			Supplemental						
33									
34									
35		C-6 Small C&I	kWh						
36			Over 25 kVA						
37									
38									
38		C-8 Small C&I Unmete	kWh						
39			Over 25 kVA						
40									

Xfmrs
HSG-2D (REV-1)

Transformer Costs

Line	Rate Class	Includes	Customers	Source	Average Cost Per Customer	Total Transformers Cost
1	Residential	A-16,A-60	423,655	See below	$123	51,967,079
2	Small C&I	C-06,C-08	47,430	See below	$240	11,376,012
3	General C&I	G-02	7,836	See below	$3,063	23,999,207
4	200 kW Demand	B-32,G-32	874	See below	$22,775	19,905,638
5	5000 kW Demand	B-62,G-62	5	See below	$336,856	1,684,281
6	Lighting	S-05/06/10/14	0			0
7	Propulsion	X-01	1			0
8			479,801		$227	108,932,218
9	*Check*		*479,803*			*108,932,218*
10						
11	A16		389,709	From Detail	$124	48,410,285
12	A60		33,946	From Detail	$105	3,556,794
13			423,655			51,967,079
14						
15	C06		46,894	From Detail	$240	11,250,437
16	C08		536	From Detail	$234	125,576
17			47,430			11,376,012
18						
19	200 kW Backup	B32	4	From Detail	$28,673	114,690
20	200 kW Demand	B-32,G-32	870	From Detail	$22,748	19,790,948
21			874			19,905,638
22						
23	5000 kW Backup	B62	0	From Detail	#DIV/0!	0
24	5000 kW Demand	B-62,G-62	5	From Detail	$336,856	1,684,281
25			5			1,684,281
26						
27	General C&I		7,836	From Detail	$3,063	23,999,207
28			7,836			23,999,207

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-2D (REV-1)
Page 1 of 1

Xfmr_Detail
HSG-2E (REV-1)

Transformer Cost Allocation to Rate Classes

Line	Transformer	Rate Code	Total Customers	Class NCP Per Customer	NCP of Customers on Transformer	Total NCP for Transformer	% of NCP for Transformer	Transformer Total Cost	Allocated Transformer Cost
1	OH_1_10	A16	15,760	2.06	32,427		71.955%	5,707,811	4,107,078
2	OH_1_10	A60	863	2.06	1,776		3.940%	5,707,811	224,899
3	OH_1_10	C06	1,897	3.47	6,574		14.588%	5,707,811	832,636
4	OH_1_10	C08	40	3.47	139		0.308%	5,707,811	17,557
5	OH_1_10	G02	62	34.95	2,167		4.808%	5,707,811	274,433
6	OH_1_10	G32	6	330.56	1,983	45,065	4.401%	5,707,811	251,208
7	OH_1_100	A16	1,052	2.06	2,165		43.715%	131,917	57,668
8	OH_1_100	A60	94	2.06	193		3.906%	131,917	5,153
9	OH_1_100	C06	344	3.47	1,192		24.076%	131,917	31,761
10	OH_1_100	C08	1	3.47	3		0.070%	131,917	92
11	OH_1_100	G02	40	34.95	1,398	4,951	28.232%	131,917	37,243
12	OH_1_167	A16	68	2.06	140		97.583%	8,144	7,947
13	OH_1_167	C06	1	3.47	3	143	2.417%	8,144	197
14	OH_1_25	A16	141,392	2.06	290,918		77.758%	19,695,158	15,314,485
15	OH_1_25	A60	10,480	2.06	21,563		5.763%	19,695,158	1,135,112
16	OH_1_25	C06	9,910	3.47	34,342		9.179%	19,695,158	1,807,850
17	OH_1_25	C08	142	3.47	492		0.132%	19,695,158	25,905
18	OH_1_25	G02	369	34.95	12,896		3.447%	19,695,158	678,846
19	OH_1_25	G32	23	330.56	7,603		2.032%	19,695,158	400,231
20	OH_1_25	G62	1	6,320.59	6,321	374,135	1.689%	19,695,158	332,728
21	OH_1_50	A16	173,502	2.06	356,985		71.689%	16,934,082	12,139,845
22	OH_1_50	A60	19,048	2.06	39,192		7.870%	16,934,082	1,332,779
23	OH_1_50	C06	16,271	3.47	56,386		11.323%	16,934,082	1,917,495
24	OH_1_50	C08	189	3.47	655		0.132%	16,934,082	22,273
25	OH_1_50	G02	882	34.95	30,824		6.190%	16,934,082	1,048,201
26	OH_1_50	G32	23	330.56	7,603		1.527%	16,934,082	258,549
27	OH_1_50	G62	1	6,320.59	6,321		1.269%	16,934,082	214,941
28	OH_1_50	M1	1	-	-	497,965	0.000%	16,934,082	-
29	OH_1_75	A16	397	2.06	817		37.316%	54,965	20,511
30	OH_1_75	A60	31	2.06	64		2.914%	54,965	1,602
31	OH_1_75	C06	96	3.47	333		15.198%	54,965	8,354
32	OH_1_75	G02	9	34.95	315		14.369%	54,965	7,898
33	OH_1_75	G32	2	330.56	661	2,189	30.203%	54,965	16,601
34	OH_3_1000	G02	1	34.95	35		5.021%	52,395	2,631
35	OH_3_1000	G32	2	330.56	661	696	94.979%	52,395	49,764
36	OH_3_150	A16	1,985	2.06	4,084		6.173%	5,650,374	348,787
37	OH_3_150	A60	189	2.06	389		0.588%	5,650,374	33,209
38	OH_3_150	C06	3,238	3.47	11,221		16.959%	5,650,374	958,269
39	OH_3_150	C08	24	3.47	83		0.126%	5,650,374	7,103
40	OH_3_150	G02	1,281	34.95	44,767		67.661%	5,650,374	3,823,102
41	OH_3_150	G32	17	330.56	5,620	66,164	8.493%	5,650,374	479,904

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-2E (REV-1)
Page 1 of 4

Xfmr_Detail
HSG-2E (REV-1)

Transformer Cost Allocation to Rate Classes

Line	Transformer	Rate Code	Total Customers	Class NCP Per Customer	NCP of Customers on Transformer	Total NCP for Transformer	% of NCP for Transformer	Transformer Total Cost	Allocated Transformer Cost
42	OH_3_1500	A16	2	2.06	4		0.132%	284,818	375
43	OH_3_1500	C06	2	3.47	7		0.222%	284,818	632
44	OH_3_1500	G02	4	34.95	140		4.472%	284,818	12,737
45	OH_3_1500	G32	9	330.56	2,975	3,126	95.175%	284,818	271,075
46	OH_3_2000	C06	6	3.47	21		1.310%	157,492	2,063
47	OH_3_2000	G02	7	34.95	245		15.408%	157,492	24,267
48	OH_3_2000	G32	4	330.56	1,322	1,588	83.282%	157,492	131,163
49	OH_3_30	A16	1,353	2.06	2,784		10.481%	3,450,181	361,597
50	OH_3_30	A60	117	2.06	241		0.906%	3,450,181	31,269
51	OH_3_30	C06	2,043	3.47	7,080		26.654%	3,450,181	919,615
52	OH_3_30	C08	11	3.47	38		0.144%	3,450,181	4,951
53	OH_3_30	G02	432	34.95	15,097		56.838%	3,450,181	1,961,000
54	OH_3_30	G32	4	330.56	1,322	26,562	4.978%	3,450,181	171,748
55	OH_3_300	A16	164	2.06	337		1.949%	1,304,417	25,426
56	OH_3_300	A60	36	2.06	74		0.428%	1,304,417	5,581
57	OH_3_300	C06	350	3.47	1,213		7.007%	1,304,417	91,394
58	OH_3_300	C08	1	3.47	3		0.020%	1,304,417	261
59	OH_3_300	G02	165	34.95	5,766		33.310%	1,304,417	434,502
60	OH_3_300	G32	30	330.56	9,917	17,311	57.286%	1,304,417	747,252
61	OH_3_500	A16	2	2.06	4		0.038%	516,859	198
62	OH_3_500	A60	1	2.06	2		0.019%	516,859	99
63	OH_3_500	C06	67	3.47	232		2.159%	516,859	11,161
64	OH_3_500	G02	36	34.95	1,258		11.701%	516,859	60,477
65	OH_3_500	G32	28	330.56	9,256	10,752	86.082%	516,859	444,924
66	OH_3_75	A16	2,926	2.06	6,020		7.684%	7,252,769	557,318
67	OH_3_75	A60	330	2.06	679		0.867%	7,252,769	62,855
68	OH_3_75	C06	4,290	3.47	14,867		18.976%	7,252,769	1,376,251
69	OH_3_75	C08	21	3.47	73		0.093%	7,252,769	6,737
70	OH_3_75	G02	1,547	34.95	54,063		69.005%	7,252,769	5,004,800
71	OH_3_75	G32	8	330.56	2,644	78,347	3.375%	7,252,769	244,807
72	OH_3_750	A16	4	2.06	8		0.157%	243,517	382
73	OH_3_750	C06	14	3.47	49		0.925%	243,517	2,253
74	OH_3_750	G02	16	34.95	559		10.663%	243,517	25,967
75	OH_3_750	G32	14	330.56	4,628	5,244	88.255%	243,517	214,915
76	UG_1_100	A16	2,174	2.06	4,473		67.652%	738,498	499,611
77	UG_1_100	A60	86	2.06	177		2.676%	738,498	19,764
78	UG_1_100	C06	309	3.47	1,071		16.195%	738,498	119,603
79	UG_1_100	C08	5	3.47	17		0.262%	738,498	1,935
80	UG_1_100	G02	25	34.95	874	6,612	13.214%	738,498	97,584
81	UG_1_167	A16	168	2.06	346		31.937%	79,574	25,414
82	UG_1_167	A60	1	2.06	2		0.190%	79,574	151
83	UG_1_167	C06	44	3.47	152		14.088%	79,574	11,210
84	UG_1_167	C08	2	3.47	7		0.640%	79,574	510

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-2E (REV-1)
Page 2 of 4

Xfmr_Detail
HSG-2E (REV-1)

Transformer Cost Allocation to Rate Classes

Line	Transformer	Rate Code	Total Customers	Class NCP Per Customer	NCP of Customers on Transformer	Total NCP for Transformer	% of NCP for Transformer	Transformer Total Cost	Allocated Transformer Cost
85	UG_1_167	G02	7	34.95	245		22.602%	79,574	17,986
86	UG_1_167	G32	1	330.56	331	1,082	30.542%	79,574	24,303
87	UG_1_25	A16	9,861	2.06	20,289		88.620%	5,062,089	4,486,027
88	UG_1_25	A60	200	2.06	412		1.797%	5,062,089	90,985
89	UG_1_25	C06	336	3.47	1,164		5.086%	5,062,089	257,449
90	UG_1_25	G02	20	34.95	699		3.053%	5,062,089	154,539
91	UG_1_25	G32	1	330.56	331		1.444%	5,062,089	73,088
92	UG_1_25	M1	1	-	-		0.000%	5,062,089	-
93	UG_1_25	X01	1	-	-	22,895	0.000%	5,062,089	-
94	UG_1_250	A16	22	2.06	45		22.756%	36,939	8,406
95	UG_1_250	C06	4	3.47	14		6.969%	36,939	2,574
96	UG_1_250	G02	4	34.95	140	199	70.275%	36,939	25,959
97	UG_1_50	A16	14,629	2.06	30,100		80.406%	6,602,570	5,308,845
98	UG_1_50	A60	452	2.06	930		2.484%	6,602,570	164,030
99	UG_1_50	C06	700	3.47	2,426		6.480%	6,602,570	427,853
100	UG_1_50	C08	15	3.47	52		0.139%	6,602,570	9,168
101	UG_1_50	G02	84	34.95	2,936		7.842%	6,602,570	517,764
102	UG_1_50	G32	3	330.56	992	37,435	2.649%	6,602,570	174,909
103	UG_1_500	C06	2	3.47	7		16.550%	8,338	1,380
104	UG_1_500	G02	1	34.95	35	42	83.450%	8,338	6,958
105	UG_1_75	A16	2,132	2.06	4,387		73.342%	710,803	521,320
106	UG_1_75	A60	118	2.06	243		4.059%	710,803	28,854
107	UG_1_75	C06	145	3.47	502		8.401%	710,803	59,717
108	UG_1_75	C08	3	3.47	10		0.174%	710,803	1,236
109	UG_1_75	G02	24	34.95	839	5,981	14.023%	710,803	99,677
110	UG_3_1000	A16	666	2.06	1,370		2.968%	2,519,155	74,758
111	UG_3_1000	A60	6	2.06	12		0.027%	2,519,155	673
112	UG_3_1000	C06	152	3.47	527		1.141%	2,519,155	28,737
113	UG_3_1000	C08	1	3.47	3		0.008%	2,519,155	189
114	UG_3_1000	G02	102	34.95	3,565		7.720%	2,519,155	194,468
115	UG_3_1000	G32	104	330.56	34,378		74.450%	2,519,155	1,875,511
116	UG_3_1000	G62	1	6,320.59	6,321	46,176	13.688%	2,519,155	344,820
117	UG_3_150	A16	8,017	2.06	16,495		27.115%	7,600,395	2,060,860
118	UG_3_150	A60	768	2.06	1,580		2.598%	7,600,395	197,423
119	UG_3_150	C06	2,405	3.47	8,334		13.700%	7,600,395	1,041,269
120	UG_3_150	C08	20	3.47	69		0.114%	7,600,395	8,659
121	UG_3_150	G02	879	34.95	30,719		50.496%	7,600,395	3,837,892
122	UG_3_150	G32	11	330.56	3,636	60,834	5.977%	7,600,395	454,292
123	UG_3_1500	A16	10	2.06	21		0.065%	1,974,262	1,281
124	UG_3_1500	A60	2	2.06	4		0.013%	1,974,262	256
125	UG_3_1500	B32	1	330.56	331		1.042%	1,974,262	20,576
126	UG_3_1500	C06	64	3.47	222		0.699%	1,974,262	13,805
127	UG_3_1500	C08	1	3.47	3		0.011%	1,974,262	216

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-2E (REV-1)
Page 3 of 4

Xfmr_Detail
HSG-2E (REV-1)

Transformer Cost Allocation to Rate Classes

Line	Transformer	Rate Code	Total Customers	Class NCP Per Customer	NCP of Customers on Transformer	Total NCP for Transformer	% of NCP for Transformer	Transformer Total Cost	Allocated Transformer Cost
128	UG_3_1500	G02	48	34.95	1,677		5.289%	1,974,262	104,413
129	UG_3_1500	G32	70	330.56	23,139		72.954%	1,974,262	1,440,293
130	UG_3_1500	G62	1	6,320.59	6,321	31,718	19.928%	1,974,262	393,422
131	UG_3_2000	A16	8	2.06	16		0.196%	630,205	1,236
132	UG_3_2000	C06	2	3.47	7		0.083%	630,205	520
133	UG_3_2000	G02	3	34.95	105		1.249%	630,205	7,873
134	UG_3_2000	G32	25	330.56	8,264	8,392	98.472%	630,205	620,576
135	UG_3_2500	A16	1	2.06	2		0.012%	1,075,322	130
136	UG_3_2500	C06	5	3.47	17		0.102%	1,075,322	1,092
137	UG_3_2500	C08	1	3.47	3		0.020%	1,075,322	218
138	UG_3_2500	G02	4	34.95	140		0.819%	1,075,322	8,811
139	UG_3_2500	G32	32	330.56	10,578		62.000%	1,075,322	666,701
140	UG_3_2500	G62	1	6,320.59	6,321	17,061	37.047%	1,075,322	398,370
141	UG_3_300	A16	5,606	2.06	11,535		13.216%	8,282,755	1,094,673
142	UG_3_300	A60	525	2.06	1,080		1.238%	8,282,755	102,516
143	UG_3_300	B32	3	330.56	992		1.136%	8,282,755	94,115
144	UG_3_300	C06	2,207	3.47	7,648		8.763%	8,282,755	725,847
145	UG_3_300	C08	32	3.47	111		0.127%	8,282,755	10,524
146	UG_3_300	G02	959	34.95	33,514		38.401%	8,282,755	3,180,661
147	UG_3_300	G32	98	330.56	32,395	87,275	37.118%	8,282,755	3,074,419
148	UG_3_3000	G32	3	330.56	992	992	100.000%	187,625	187,625
149	UG_3_500	A16	4,201	2.06	8,644		9.621%	6,478,957	623,332
150	UG_3_500	A60	389	2.06	800		0.891%	6,478,957	57,719
151	UG_3_500	C06	1,357	3.47	4,703		5.234%	6,478,957	339,123
152	UG_3_500	C08	19	3.47	66		0.073%	6,478,957	4,748
153	UG_3_500	G02	471	34.95	16,460		18.321%	6,478,957	1,187,011
154	UG_3_500	G32	179	330.56	59,170	89,843	65.860%	6,478,957	4,267,024
155	UG_3_75	A16	1,683	2.06	3,463		32.769%	1,655,297	542,416
156	UG_3_75	A60	182	2.06	374		3.544%	1,655,297	58,657
157	UG_3_75	C06	395	3.47	1,369		12.953%	1,655,297	214,416
158	UG_3_75	C08	5	3.47	17		0.164%	1,655,297	2,714
159	UG_3_75	G02	134	34.95	4,683		44.314%	1,655,297	733,535
160	UG_3_75	G32	2	330.56	661	10,568	6.256%	1,655,297	103,558
161	UG_3_750	A16	1,924	2.06	3,959		5.732%	3,844,535	220,360
162	UG_3_750	A60	28	2.06	58		0.083%	3,844,535	3,207
163	UG_3_750	C06	238	3.47	825		1.194%	3,844,535	45,911
164	UG_3_750	C08	3	3.47	10		0.015%	3,844,535	579
165	UG_3_750	G02	220	34.95	7,688		11.132%	3,844,535	427,973
166	UG_3_750	G32	171	330.56	56,526	69,066	81.844%	3,844,535	3,146,506
			479,803		1,630,408	1,630,408			108,932,218

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-2E (REV-1)
Page 4 of 4

Xfmr_Cost
HSG-2F (REV-1)

Transformer Unit Costs

Line	Transformer Type	Number	Total Unit Cost	Total Replacement Cost	kVA Rating	Average Cost Per kVA
1	OH_1_10	8,136	702	$5,707,811	10	$70.16
2	OH_1_100	119	1,109	131,917	100	$11.09
3	OH_1_167	3	2,715	8,144	167	$16.25
4	OH_1_25	25,194	782	19,695,158	25	$31.27
5	OH_1_50	15,623	1,084	16,934,082	50	$21.68
6	OH_1_667	0	13,776	-	75	$183.67
7	OH_1_75	37	1,486	54,965	1,000	$1.49
8	OH_3_1000	3	17,465	52,395	150	$116.43
9	OH_3_150	1,668	3,388	5,650,374	1,500	$2.26
10	OH_3_1500	12	23,735	284,818	2,000	$11.87
11	OH_3_2000	7	22,499	157,492	30	$749.96
12	OH_3_30	1,825	1,891	3,450,181	300	$6.30
13	OH_3_300	223	5,849	1,304,417	500	$11.70
14	OH_3_500	68	7,601	516,859	75	$101.34
15	OH_3_75	3,110	2,332	7,252,769	750	$3.11
16	OH_3_750	20	12,176	243,517	100	$121.76
17	UG_1_100	250	2,954	738,498	167	$17.69
18	UG_1_167	22	3,617	79,574	25	$144.68
19	UG_1_25	2,336	2,167	5,062,089	250	$8.67
20	UG_1_250	7	5,277	36,939	50	$105.54
21	UG_1_50	2,618	2,522	6,602,570	500	$5.04
22	UG_1_500	1	8,338	8,338	75	$111.17
23	UG_1_75	262	2,713	710,803	1,000	$2.71
24	UG_3_1000	206	12,229	2,519,155	150	$81.53
25	UG_3_150	1,390	5,468	7,600,395	1,500	$3.65
26	UG_3_1500	123	16,051	1,974,262	2,000	$8.03
27	UG_3_2000	32	19,694	630,205	2,500	$7.88
28	UG_3_2500	42	25,603	1,075,322	300	$85.34
29	UG_3_300	1,126	7,356	8,282,755	3,000	$2.45
30	UG_3_3000	6	31,271	187,625	500	$62.54
31	UG_3_500	679	9,542	6,478,957	75	$127.23
32	UG_3_75	315	5,255	1,655,297	750	$7.01
33	UG_3_750	364	10,562	3,844,535		
34		65,827		$108,932,218		
					15,387,421	$7.08

Services

HSG-2G (REV-1)

Services Costs

Line	Rate Class	Includes	Services / Customers	Average Services Cost	Total Services Cost	
1	Residential	A-16,A-60	423,655	1,874	793,737,225	A16
2	Small C&I	C-06,C-08	47,430	1,875	88,952,112	C06
3	General C&I	G-02	7,836	1,416	11,098,734	G02
4	200 kW Demand	B-32,G-32	871	263	228,709	G32
5	5000 kW Demand	B-62,G-62	5	707	3,533	G62
6	Lighting	S-05/06/10/14			0	S10
7	Propulsion	X-01	3		0	X01
8			479,800	$1,863	894,020,312	
9						

Service Drop Types for Each Rate Classs	Weighted Average Cost	A	B	C	D	E	F	D-Conv	Total
	Cost==>	231	931	1,993	1,150	2,203	0	2,608	
A-16	1,869		28,992	332,171	22,107	6,428	11		389,709
A-60	1,923		858	30,516	1,892	672	8		33,946
B-32	2,608							1	1
C-6	1,878		1,607	28,519	6,820	9,937	11		46,894
C-8	1,661	107	1	372		56			536
G-2	1,416	2,980	5	1,362		3,481		8	7,836
G-32	260	859		2				9	870
G-62	707	4						1	5
M-1	1,571			1	1				2
X-1	231	1							1
	1,863	3,951	31,463	392,943	30,820	20,574	30	19	479,800
A-16,A-60	1,874	0	29,850	362,687	23,999	7,100	19	0	423,655
B32-G32	263	859	0	2	0	0	0	10	871
C6-C8	1,875	107	1,608	28,891	6,820	9,993	11	0	47,430

Services Costs by Service Type

A	Underground Service connections in Padmount (Res./Com.)	231.25	Tighten only	100%	$231.25
B	Underground Service connectors only (Residential)	931.31	3-500 MCM Connectors	85%	$929.72
	Underground Service connections in Padmount (Res./Com.)		Tighten only	10%	$231.25
	Underground Service with connections (Residential Conventional)		70' of 1/0 3/C	5%	$2,358.46
	*Splits are a best guess based on engineering review		Composite Cost		$931.31
C	Overhead Service with connections (Residential)	1,992.62	65' of #2 3/C	100%	$1,992.62
D	Underground Service connectors only (Commercial)	1,149.88	4-500 MCM Connectors	85%	$1,172.18
	Underground Service connections in Padmount (Res./Com.)		Tighten only	10%	$231.25
	Underground Service with connections (Commercial Conventional)		65' of 4/0 4/C	5%	$2,607.98
	*Splits are a best guess based on engineering review		Composite Cost		$1,149.88
D-Conv		2,607.98			
E	Overhead Service with connections (Commercial)	2,203.43	60' of 1/0 4/C	100%	$2,203.43
F	Primary metered service with no secondary related cost	0.00		100%	$0.00
None		0.00			

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-2G (REV-1)
Page 1 of 1

Meters
HSG-2H (REV-1)

Meter Costs

Line	Rate Class	Includes	Meter Count	Total Cost	Average Meter Cost	Customers	kVA	Instr. Transf.	Extended Cost	Average Total Cost
1	Residential	A-16,A-60	449,413	26,339,551	58.61	423,655		213	24,951,924	58.90
2	Small C&I	C-06,C-08	53,757	9,485,841	176.46	47,430		8,314	13,132,122	276.87
3	General C&I	G-02	8,666	2,184,660	252.10	7,836	1,975	3,678	4,670,716	596.06
4	200 kW Demand	B-32,G-32	1,078	586,719	544.27	871	1,078	1,078	1,412,718	1,621.95
5	5000 kW Demand	B-62,G-62	5	2,721	544.27	5		5	5,586	1,117.12
6	Lighting	S-05/06/10/14				0			0	
7	Propulsion	X-01	4	2,177	544.27	3	4	4	5,116	1,705.26
8			512,923	38,601,670	75.26	479,800			44,178,183	
9							297.89	572.86		
10										
11	(a) Average costs represent total dollars for the class divided by the number of meters. See 'Meter Detail' for unit costs.									

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-2H (REV-1)

CustDep

HSG-2I (REV-1)

Customer Deposits

Line	Activity	Total	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
			A16/A60	C06	G02	B32 / G32	B62 / G62	S05/S06/S10/S14	X01
1	Narragansett Electric Company	1,005,981	45,252	417,856	427,539	115,061		273	
2		1,005,981	45,252	417,856	427,539	115,061	-	273	-
3									
4									
5	Cust_Dep Allocator	100.0%	4.5%	41.5%	42.5%	11.4%	0.0%	0.0%	0.0%

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-2I (REV-1)

Acct903
HSG-2J (REV-1)

Customer Records and Accounting- Account 903

Line	Activity	Total	Allocator	Total	Residential	Small C&I	General C&I	200 kW Demand	5000 kW Demand	Lighting	Propulsion
					A16/A60	C06	G02	B32 / G32	B62 / G62	S05/S06/S10/S14	X01
1	Credit & Collections	1,558,051	Write-offs	1,558,051	1,294,010	134,868	86,489	20,414	12,013	10,256	-
2	Mailing - Customer Service	2,109,719	Bills	2,109,719	1,830,756	217,069	36,353	4,610	54	20,874	4
3	Respond to Customer Calls / Inquiries	2,226,547	Customers	2,226,547	1,932,140	229,090	38,366	4,865	57	22,024	4
4	Customer Billing	1,612,851	Bills	1,612,851	1,399,588	165,946	27,791	3,524	41	15,958	3
5	Payment Processing	697,342	Bills	697,342	605,134	71,750	12,016	1,524	18	6,900	1
6	Collections	2,294,336	Write-offs	2,294,336	1,905,518	198,603	127,361	30,061	17,690	15,103	-
7		10,498,846		10,498,846	8,967,145	1,017,326	328,376	64,997	29,874	91,115	13
8											
9	Acct903 Allocator			100.00%	85.41%	9.69%	3.13%	0.62%	0.28%	0.87%	0.00%

WOffs
HSG-2K (REV-1)

Write-Offs

Line	Rate Class	Includes	Normalized Revenue		Net Write-Offs 2013-2016		Revenue 2013-2016		Write-Offs / Revenue	Write-Offs Applied to Normalized Revenue	Write-Offs Allocator
1	Residential	A-16,A-60	137,681,559	54.2%	38,576,960	84.2%	2,048,278,611	55.1%	1.88%	2,593,073	83.1%
2	Small C&I	C-06,C-08	27,352,989	10.8%	3,476,724	7.6%	351,874,945	9.5%	0.99%	270,263	8.7%
3	General C&I	G-02	39,999,561	15.8%	2,454,591	5.4%	566,493,150	15.2%	0.43%	173,316	5.6%
4	200 kW Demand	B-32,G-32	34,463,586	13.6%	669,854	1.5%	564,339,558	15.2%	0.12%	40,907	1.3%
5	5000 kW Demand	B-62,G-62	5,618,378	2.2%	504,952	1.1%	117,848,675	3.2%	0.43%	24,073	0.8%
6	Lighting	S-05/06/10/14	8,148,190	3.2%	159,879	0.3%	63,384,652	1.7%	0.25%	20,553	0.7%
7	Propulsion	X-01	637,295	0.3%		0.0%	7,751,167	0.2%	0.00%	0	0.0%
8			253,901,557	100.0%	45,842,959	100.0%	3,719,970,758	100.0%	1.23%	3,122,186	100.0%

Demand
HSG-2L (REV-1)

Schedules for Demand Allocators

Line	Schedule	Title	Allocator Values
	Demand-1	Historical Load Factors and 1CP / NCP *Development of Rate Year Class Contributions to 1CP and Class NCP*	
	Demand-2	Test Year Ended 6/30/2017 Class Contributions to 1CP and Class NCP	
	Demand-3	Rate Year 8/31/2019 Class Contributions to 1CP at Voltage Levels	
	Demand-4	Rate Year 8/31/2019 Class NCP at Voltage Levels	NCP_at_115 NCP_at_Pri NCP_at_Sec
	Demand-5	Rate Year 8/31/2019 MWh Sales at Voltage Levels	MWh-Gen MWh-Meter

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-2L (REV-1)

Demand-1
HSG-2M (REV-1)

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-2M (REV-1)
Sheet 1 of 1

Historical Load Factors and 1CP / NCP

Line	Rate Class	Includes	12/31/2008 Load Factor at NCP	11/30/2011 Load Factor at NCP	Test Year 6/30/2017 Historical MWh	Test Year 6/30/2017 Historical Class NCP	Test Year 6/30/2017 Load Factor at NCP	Rate Year 8/31/2019 Average Load Factor at NCP	Rate Year 8/31/2019 Rate Year MWh	Rate Year 8/31/2019 Rate Year Class NCP
1	Residential	A-16,A-60	42.4%	36.7%	3,066,425	940,122	37.2%	38.8%	2,946,725	867,094
2	Small C&I	C-06,C-08	40.0%	40.7%	602,260	182,144	37.7%	39.5%	598,981	173,159
3	General C&I	G-02	50.3%	51.9%	1,300,006	303,937	48.8%	50.3%	1,290,927	292,693
4	200 kW Demand	B-32,G-32	60.1%	60.9%	1,972,855	384,319	58.6%	59.8%	1,952,810	372,512
5	5000 kW Demand	B-62,G-62	56.1%	59.9%	431,699	83,832	58.8%	58.2%	420,270	82,368
6	Lighting	S-05/06/10	49.3%	50.7%	43,695	10,894	45.8% *	50.0%	62,050	14,167
7	Propulsion	X-01	21.9%	27.5%	23,832	11,120	*	24.7%	23,963	11,091
8	System		48.2%	45.5%	7,440,773	1,916,368	44.3%		7,295,727	1,813,084
9	*Check=*				*7,440,773*	*1,916,368*		**=Use 2008 and 2011*	*7,295,727*	
10										

11			12/31/2008	11/30/2011	Test Year 6/30/2017			Rate Year 8/31/2019		
12	**Rate Class**	**Includes**	**Load Factor at 1CP**	**Load Factor at 1CP**	**Historical MWh**	**Historical Contribution to 1CP**	**Load Factor at 1CP**	**Average Load Factor at 1CP**	**Rate Year MWh**	**Rate Year 1CP**
13	Residential	A-16,A-60	47.0%	38.6%	3,066,425	857,807	40.8%	42.2%	2,946,725	797,973
14	Small C&I	C-06,C-08	40.1%	44.2%	602,260	158,562	43.4%	42.5%	598,981	160,781
15	General C&I	G-02	50.9%	53.7%	1,300,006	281,080	52.8%	52.5%	1,290,927	280,886
16	200 kW Demand	B-32,G-32	61.7%	67.1%	1,972,855	364,220	61.8%	63.5%	1,952,810	350,818
17	5000 kW Demand	B-62,G-62	60.3%	89.1%	431,699	69,696	70.7%	73.4%	420,270	65,390
18	Lighting	S-05/06/10	7528.4%	7797.0%	43,695	28	17814.3% *	7662.7%	62,050	92
19	Propulsion	X-01	49.7%	61.3%	23,832	4,125	66.0% *	55.5%	23,963	4,927
20	System		51.8%	49.6%	7,440,773	1,735,518	48.9%		7,295,727	1,660,868
21	*Check=*					*1,735,518*		**=Use 2008 and 2011*		

Demand-2
HSG-2N (REV-1)

Test Year Ended 6/30/2017 Class Contributions to 1CP and Class NCP

Test Year 6/30/2017 Contributions to 1CP

	Rate Class	Includes	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17		1CP
1	Residential	A-16,A-60	761,978	857,807	684,818	269,085	451,976	548,652	531,597	470,989	484,392	384,095	518,573	626,604	A-16,A-60	857,807
2	Small C&I	C-06,C-08	148,935	158,562	161,733	119,602	72,269	84,560	78,901	67,790	65,308	54,559	136,336	165,480	C-06,C-08	158,562
3	General C&I	G-02	266,365	281,080	283,215	239,549	167,241	182,004	174,162	160,822	157,285	143,225	236,966	268,586	G-02	281,080
4	200 kW Demand	B-32,G-32	331,913	364,220	359,355	330,998	257,515	262,811	262,552	234,254	238,818	217,499	310,447	347,519	B-32,G-32	364,220
5	5000 kW Demanc	B-62,G-62	70,960	69,696	72,887	66,355	52,493	58,608	54,570	51,213	51,026	47,119	62,181	80,684	B-62,G-62	69,696
6	Lighting	S-05/06/10/14	28	28	28	28	10,301	9,598	10,433	10,894	9,343	10,200	28	27	S-05/06/10/14	28
7	Propulsion	X-01	6,885	4,125	7,379	4,229	4,273	4,724	4,786	6,759	5,020	4,143	5,264	3,954	X-01	4,125
8	**Total**		**1,587,064**	**1,735,518**	**1,569,415**	**1,029,846**	**1,016,068**	**1,150,957**	**1,117,001**	**1,002,721**	**1,011,192**	**860,840**	**1,269,795**	**1,492,854**		**1,735,518**
9	*Check=*		*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	Aug-16	1,735,518
10	Backup 200 kW	B32	3,967	3,269	2,372	1,967	2,405	2,152	1,482	1,439	1,320	1,218	1,839	6,341	B32	
11	200 kW Demand	G32	327,946	360,951	356,983	329,031	255,110	260,659	261,070	232,815	237,498	216,281	308,608	341,178	G02	
12			331,913	364,220	359,355	330,998	257,515	262,811	262,552	234,254	238,818	217,499	310,447	347,519		
13																
14																

Test Year 6/30/2017 Class NCP

15	Rate Class	Includes	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Class NCP	Month of Class NCP
16	Residential	A-16,A-60	861,555	940,122	719,492	451,368	538,894	609,613	636,173	553,848	523,667	449,566	575,224	574,387	940,122	Aug-16
17	Small C&I	C-06,C-08	182,144	177,186	172,817	119,602	117,248	128,613	126,242	123,347	123,473	104,020	146,548	181,313	182,144	Jul-16
18	General C&I	G-02	298,175	303,937	297,359	243,927	210,188	220,445	220,465	212,942	216,288	204,728	257,063	291,060	303,937	Aug-16
19	200 kW Demand	B-32,G-32	368,792	384,319	380,496	341,774	302,158	302,171	295,891	281,581	293,887	283,863	334,881	364,431	384,319	Aug-16
20	5000 kW Demanc	B-62,G-62	77,432	73,320	74,564	67,322	57,892	63,662	59,112	58,286	57,194	59,238	64,441	83,832	83,832	Jun-17
21	Lighting	S-05/06/10/14	9,720	8,621	9,588	9,047	10,301	9,598	10,433	10,894	9,343	10,200	7,367	7,587	10,894	Feb-17
22	Propulsion	X-01	7,709	8,001	7,379	8,691	7,355	6,778	8,218	6,769	11,120	7,197	8,616	9,336	11,120	Mar-17
23	**Total**		**1,805,527**	**1,895,506**	**1,661,695**	**1,241,731**	**1,244,036**	**1,340,880**	**1,356,534**	**1,247,667**	**1,234,972**	**1,118,812**	**1,394,140**	**1,511,946**	**1,916,368**	
24	*Check=*		*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*		
25	Backup 200 kW	B32	4,335	3,269	2,372	6,516	2,867	2,598	1,641	1,835	1,697	1,602	2,034	6,489		
26	200 kW Demand	G32	364,457	381,050	378,124	335,258	299,291	299,573	294,250	279,746	292,190	282,261	332,847	357,942		
27			368,792	384,319	380,496	341,774	302,158	302,171	295,891	281,581	293,887	283,863	334,881	364,431		

Demand-3
HSG-2O (REV-1)

Rate Year 8/31/2019 Class Contributions to 1CP at Voltage Levels

Line	Rate Class	Includes	1 Rate Year 1CP at Customer	2 % at 115 kV	3 % at Primary	4 % at Secondary	5 Rate Year 1CP at Secondary	8 Rate Year 1CP at Primary Before Losses	10 Rate Year 1CP at 115kV Before Losses
1	Residential	A-16,A-60	797,973			100%	797,973	833,882	862,818
2	Small C&I	C-06,C-08	160,781			100%	160,781	168,016	173,847
3	General C&I	G-02	280,886		2%	98%	275,269	293,273	303,450
4	200 kW Demand	B-32,G-32	350,818	1.6%	98.4%	0%	0	345,205	362,796
5	5000 kW Demand	B-62,G-62	65,390		100%	0%	0	65,390	67,660
6	Lighting	S-05/06/10/14	92			100%	92	97	100
7	Propulsion	X-01	4,927	100%	0%	0%	0	0	4,927
8	**Total**		**1,660,868**				**1,234,116**	**1,705,864**	**1,775,597**
		Check=	*1,660,868*						
9			Loss Multipliers					1.0450	1.0347

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-2O (REV-1)
Page 1 of 1

Demand-4
HSG-2P (REV-1)

Rate Year 8/31/2019 Class NCP at Voltage Levels

			1	2	3	4	5	8	10
Line	**Rate Class**	**Includes**	**Rate Year Class NCP at Customer**	**% at 115 kV**	**% at Primary**	**% at Secondary**	**Rate Year Class NCP at Secondary**	**Rate Year Class NCP at Primary Before Losses**	**Rate Year Class NCP at 115kV Before Losses**
1	Residential	A-16,A-60	867,094	0%	0%	100%	867,094	906,113	937,555
2	Small C&I	C-06,C-08	173,159	0%	0%	100%	173,159	180,951	187,230
3	General C&I	G-02	292,693	0%	2%	98%	286,839	305,601	316,205
4	200 kW Demand	B-32,G-32	372,512	2%	98%	0%	0	366,552	385,231
5	5000 kW Demand	B-62,G-62	82,368	0%	100%	0%	0	82,368	85,227
6	Lighting	S-05/06/10/14	14,167	0%	0%	100%	14,167	14,804	15,318
7	Propulsion	X-01	11,091	100%	0%	0%	0	0	11,091
8	**Total**		**1,813,084**				**1,341,258**	**1,856,389**	**1,937,857**
		Check=	*1,813,084*						
9			Loss Multipliers					1.0450	1.0347

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-2P (REV-1)
Page 1 of 1

Demand-5
HSG-2Q (REV-1)

Rate Year 8/31/2019 MWh Sales at Voltage Levels

			1	2	3	4	5	8	10
Line	**Rate Class**	**Includes**	**Rate Year MWh at Customer**	**% at 115 kV**	**% at Primary**	**% at Secondary**	**Rate Year MWh at Secondary**	**Rate Year MWh at Primary Before Losses**	**Rate Year MWh at 115kV Before Losses**
1	Residential	A-16,A-60	2,946,725	0.0%	0.0%	100.0%	2,946,725	3,079,328	3,186,181
2	Small C&I	C-06,C-08	598,981	0.0%	0.0%	100.0%	598,981	625,935	647,655
3	General C&I	G-02	1,290,927	0.0%	2.0%	98.0%	1,265,109	1,347,857	1,394,628
4	200 kW Demand	B-32,G-32	1,952,810	1.6%	98.4%	0.0%	-	1,921,565	2,019,488
5	5000 kW Demand	B-62,G-62	420,270	0.0%	100.0%	0.0%	-	420,270	434,854
6	Lighting	S-05/06/10/14	62,050	0.0%	0.0%	100.0%	62,050	64,842	67,092
7	Propulsion	X-01	23,963	100.0%	0.0%	0.0%	-	-	23,963
8	**Total**		**7,295,727**				**4,872,865**	**7,459,798**	**7,773,861**

		7	9
9	Loss Multipliers	1.0450	1.0347

Func 364-368
HSG-2R (REV-1)

Functional Splits

Account 365- Overhead Conductors and Devices

Circuit Miles

Line	Function	Conductor Rating	From GIS	%
1	Subtransmission	>15kV	932.417	6.2%
2	Primary	<=15kV	8,872.805	59.5%
3	Secondary		5,116.449	34.3%
4			14,921.671	100.0%
5				

Account 364- Poles, Towers and Fixtures

Overhead Linear Miles

6				
7				
8	**Function**	**Conductor Rating**	**From GIS**	**%**
9	Subtransmission	>15kV	326.010	3.2%
10	Primary	<=15kV	4,885.123	47.4%
11	Secondary		5,086.901	49.4%
12			10,298.034	100.0%
13				

Account 366- Underground Conduits

Circuit Miles

14				
15				
16	**Function**	**Conduit (Conductor) Rating**	**From GIS**	**%**
17	Subtransmission	>15kV	153.628	11.0%
18	Primary	<=15kV	1,003.856	72.1%
19	Secondary		234.355	16.8%
20			1,391.839	100.0%
21				

Account 367- Underground Conductors

Circuit Miles Excluding Neutrals

22				
23				
24	**Function**	**Conductor Rating**	**From GIS**	**%**
25	Subtransmission	>15kV	443.787	18.0%
26	Primary	<=15kV	1,743.503	70.7%
27	Secondary		279.099	11.3%
28			2,466.389	100.0%
29				

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-2R (REV-1)
Page 1 of 1

Schedule HSG-3 (REV-1)

Proposed Distribution Revenue Allocation

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-3 (REV-1)
Sheet 1 of 2

The Narragansett Electric Company

RESULTS OF ALLOCATED COST OF SERVICE STUDY AND REVENUE ALLOCATION

Line	From ACOS Rate Year Ending August 31, 2019 (REV-1)	Source	Total	Residential Rate A-16/ A-60	Small C&I Rate C-06	General C&I Rate G-02	200 kW Demand Rate G-32	5000 kW Demand Rate G-62	Lighting Rates S-05/S-06/ S-10/S-14	Propulsion Rate X-01
			(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	**SECTION 1. SUMMARY OF RESULTS OF ALLOCATED COST OF SERVICE STUDY**									
2										
3	Distribution Revenue at Present Rates	Sch HSG 1-A (REV-1)	270,662	144,451	28,729	42,965	38,950	6,584	8,291	692
4	Late Payment Charges	Sch HSG 1-A (REV-1)	1,657	884	176	263	238	40	51	4
5	Other Revenue	Sch HSG 1-A (REV-1)	6,873	3,833	758	1,148	802	162	163	7
6	**Total Revenue at Present Rates**		279,192	149,168	29,663	44,377	39,991	6,786	8,504	703
7	Expenses	Sch HSG 1-A (REV-1)	246,609	138,729	27,047	36,531	30,458	6,145	7,511	187
8	Net Income		32,583	10,439	2,616	7,845	9,533	641	993	517
9										
10	Rate Base	Sch HSG 1-A (REV-1)	726,440	402,348	74,498	116,382	103,024	21,752	8,229	207
11										
12	Return at Present rates	Sch HSG 1-A (REV-1)	4.49%	2.59%	3.51%	6.74%	9.25%	2.95%	12.07%	249.87%
13	Relative Return	Class/ Total	1.00 X	0.58 X	0.78 X	1.50 X	2.06 X	0.66 X	2.69 X	55.71 X
14										
15	Return on Rate Base at System Return	7.43%	53,974	29,894	5,535	8,647	7,655	1,616	611	15
16	Operating Expenses	Sch HSG 1-A (REV-1)	237,336	134,879	26,196	34,637	28,358	5,943	7,228	95
17	Uncollectibles	Sch HSG 1-A (REV-1)	4,479	2,532	487	667	557	117	118	2
18	Income Tax Expense	16.72%	10,837	6,002	1,111	1,736	1,537	325	123	3
19	Total Distribution Revenue Requirement	20.08%	306,626	173,307	33,330	45,688	38,106	8,001	8,080	115
20	Less: Other revenue	Sum Lns 4-5	8,530	4,717	934	1,411	1,041	202	214	11
21	Distribution Rates Revenue Requirement		298,096	168,590	32,396	44,276	37,065	7,799	7,867	104
22	**Increase/(Decrease) - Total Dist Revenue**		**27,434**	**24,139**	**3,667**	**1,311**	**(1,885)**	**1,215**	**(424)**	**(589)**
23	M1 Increase	0.005%	(14)	(8)	(2)	(2)	(2)	0	0	0
24	**Increase/(Decrease) - Total Dist Revenue**		27,420	24,131	3,665	1,309	(1,887)	1,215	(424)	(589)
25	**Percentage Increase/(Decrease) to Full COS**	Ln 22 / Ln 3	**10.1%**							
26	**Percentage Increase/(Decrease) excl M-01**	Ln 24 / Ln 3	**10.1%**	**16.7%**	**12.8%**	**3.0%**	**(4.8%)**	**18.5%**	**(5.1%)**	**(85.0%)**
27										

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-3 (REV-1)
Sheet 2 of 2

The Narragansett Electric Company

RESULTS OF ALLOCATED COST OF SERVICE STUDY AND REVENUE ALLOCATION

Line	From ACOS Rate Year Ending August 31, 2019 (REV-1)	Source	Total	Residential Rate A-16/ A-60	Small C&I Rate C-06	General C&I Rate G-02	200 kW Demand Rate G-32	5000 kW Demand Rate G-62	Lighting Rates S-05/S-06/ S-10/S-14	Propulsion Rate X-01
			(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
28	**SECTION 2. PROPOSED REVENUE ALLOCATION**									
29	**Percentage Increase/(Decrease) to Full COS**	Line 26	**10.1%**	**16.7%**	**12.8%**	**3.0%**	**(4.8%)**	**18.5%**	**(5.1%)**	**(85.0%)**
30	Relative Increase (Decrease)	Class/ Total	1.00 X	1.65 X	1.26 X	0.30 X	(0.48)X	1.82 X	(0.51)X	(8.39)X
31		Input		Max Rel Incr	2.00 X	20.3%	Min Rel Incr	(0.20)X	(2.0%)	
32										
33	Increase / (Decrease) for Full COS	Line 24	27,420	24,131	3,665	1,309	(1,887)	1,215	(424)	(589)
34	Reduce classes over maximum increase 2.00X average		0	-	-	-	-	-	-	-
35	Increase classes under minimum increase -0.20X average		1,928	-	-	-	1,098	-	256	575
36			29,349	24,131	3,665	1,309	(789)	1,215	(168)	(14)
37	Re-allocation of Surplus on Rev Req	Alloc Ln 34-35	(1,928)	(1,091)	(210)	(286)	(240)	(50)	(51)	(1)
38	Subtotal		27,420	23,040	3,455	1,023	(1,029)	1,165	(219)	(15)
39	Increase classes under minimum increase -0.20X average		0	0	0	0	0	0	0	0
40			0							
41	**Increase/(Decrease) - Total Dist Revenue**		**27,420**	**23,040**	**3,455**	**1,023**	**(1,029)**	**1,165**	**(219)**	**(15)**
42	**Percentage Increase/(Decrease)**	Ln 41 / Ln 3	**10.1%**	**16.0%**	**12.0%**	**2.4%**	**(2.6%)**	**17.7%**	**(2.6%)**	**(2.1%)**
43	Relative Increase (Decrease)	Class/ Total	1.00 X	1.57 X	1.19 X	0.23 X	(0.26)X	1.75 X	(0.26)X	(0.21)X
44										
45	Distribution Rates Revenue at Present	Ln 3	270,662	144,451	28,729	42,965	38,950	6,584	8,291	692
46	Increase/(Decrease) - Total Dist Revenue	Ln 41	27,420	23,040	3,455	1,023	(1,029)	1,165	(219)	(15)
47	**Distribution Rates Revenue at Proposed**		**298,082**	**167,491**	**32,184**	**43,988**	**37,921**	**7,748**	**8,072**	**678**
48	Other Revenue	Ln 20 - Ln23	8,544	4,725	936	1,413	1,043	202	214	11
49	Total Revenue		306,626	172,217	33,120	45,401	38,964	7,951	8,286	689
50	Operating Expenses	Ln 16	(237,336)	(134,879)	(26,196)	(34,637)	(28,358)	(5,943)	(7,228)	(95)
51	Uncollectibles	Alloc Ln 17	(4,479)	(2,517)	(484)	(661)	(570)	(116)	(121)	(10)
52	Income Tax Expense	Sum Ln 49-51 X 16.7%	(10,837)	(5,822)	(1,077)	(1,689)	(1,678)	(316)	(157)	(98)
53	**Return on Rate Base at Proposed Rates**		**53,974**	**28,999**	**5,363**	**8,414**	**8,358**	**1,575**	**780**	**486**
54										
55	**Return on Rate Base at Proposed Rates**		**7.43%**	**7.21%**	**7.20%**	**7.23%**	**8.11%**	**7.24%**	**9.47%**	**235.21%**
56	**Relative return**		**1.00 X**	**0.97 X**	**0.97 X**	**0.97 X**	**1.09 X**	**0.97 X**	**1.28 X**	**31.66 X**
57	**Progress Toward Unity**			**93%**	**86%**	**105%**	**91%**	**92%**	**84%**	**44%**

Schedule HSG-4 (REV-1)

Development of Proposed Rates

The Narragansett Electric Company
Development of Proposed Rates

Schedule Title	Reference
Index	HSG-4-Index (REV-1)
Rate Design for Residential Rates A-16 / A-60	HSG-4-A (REV-1)
Rate Design for Small C & I - Rate C-06	HSG-4-B (REV-1)
Rate Design for General C&I - Rate G-02	HSG-4-C (REV-1)
Rate Design for Large Demand - Rate G-32 / G-62 (includes Back-up Rate B-32 / B-62)	HSG-4-D (REV-1)
Rate Design for Propulsion - Rate X-01	HSG-4-E (REV-1)
Rate Design for Street and Area Lighting	HSG-4-F (REV-1)
Rate Design for Station Power- Rate M-1	HSG-4-G (REV-1)
2.4 kV Discount and High Voltage Delivery (115 kV) Discount	HSG-4-H (REV-1)
Summary of Proposed Electric Service Rates	HSG-4-I (REV-1)
Summary of Proposed Electric Service Rates- Street and Area Lighting	HSG-4-J (REV-1)
Rate Year Proof of Revenue at PROPOSED Rates	HSG-4-K (REV-1)

The Narragansett Electric Company
Rate Design for Residential Rates A-16 / A-60

Line		Billing Units	Year 1 Proposed Rates	Year 1 Revenue
		(a)	(b)	(c)
1	Revenue Allocation			**$167,491,395**
2				
3	Customer Charge:			
4	Monthly Bills- A-16	4,847,495	$8.50	$41,203,708
5	Monthly Bills- A-60	437,171	$8.50	$3,715,955
6	**Customer Charge Revenue**	5,284,666		**$44,919,663**
7				
8	Energy-based Charge:			
9	kWh Sales- A-16	2,723,228,532	$0.04159	$113,259,075
10	kWh Sales- A-60	223,496,800	$0.04159	$9,295,232
11	**Distribution Charge Revenue**	2,946,725,332		**$122,554,307**
12				
13	Rate A-16 Rev			$154,462,783
14	Rate A-60 Rev			$13,011,187
15				
16	**Total Revenue**			**$167,473,970**
17				
18	Difference			($17,425)
19				
20	Customer costs per month	Sch. HSG-1C-1 (REV-1), Line 23		$9.38
21	Demand costs per kW-month	Sch. HSG-1C-1 (REV-1), Line 10		$11.00
22	Use kW X		0.50	$5.50
23	Total			$14.88
24	Use		A-16	$8.50
25			A-60	$8.50
26				
27	Item		Source	
28	Line 1		Schedule HSG-3 (REV-1), Line 47	
29	Lines 4-5, Column (a)		Schedule HSG-4L (REV-1), Lines 10-11	
30	Lines 4-5, Column (b)		Proposed	
31	Lines 9-10, Column (a)		Schedule HSG-4L (REV-1), Lines 10-11	
32	Lines 9-10, Column (b)		Proposed, to produce revenue allocation	

The Narragansett Electric Company
Rate Design for Small C & I - Rate C-06

Line		Billing Units	Proposed Rates	Revenue
		(a)	(b)	(c)
1	Revenue Allocation			**$32,184,418**
2				
3	Customer Charge:			
4	Monthly Bills- Metered	616,686	$13.00	$8,016,920
5	Monthly Bills- Unmetered	9,906	$8.75	$86,678
6	**Customer Charge Revenue**	626,592		**$8,103,598**
7				
8	Energy-based Charge:			
9	kWh Sales- Metered	595,486,038	$0.04015	$23,908,764
10	kWh Sales- Unmetered	3,495,266	$0.04015	$140,335
11		598,981,304		$24,049,099
12				
13	Over 25 kVA- Metered	7,800	$1.85	$14,430
14	Over 25 kVA- Unmetered	8,724	$1.85	$16,139
15		16,524		$30,569
16	**Distribution Charge Revenue**			**$24,079,669**
17				
18	**Total Revenue**			**$32,183,267**
19				
20	Difference			($1,151)
21				
22	Customer costs per month	Sch. HSG-1C-1 (REV-1), Line 23		$13.56
23	Demand costs per kW-month	Sch. HSG-1C-1 (REV-1), Line 10		$11.05
24	Use kW X		0.25	$2.76
25	Total			$16.32
26	Use			$13.00
27				

28	Item	Source
29	Line 1	Schedule HSG-3 (REV-1), Line 47
30	Lines 4-5, Column (a)	Schedule HSG-4L (REV-1), Lines 14-15
31	Lines 9-10, Column (a)	Schedule HSG-4L (REV-1), Line 32, Line 36
32	Lines 13-14, Column (a)	Schedule HSG-4L (REV-1), Line 33, Line 37
33	Lines 4-5, Column (b)	Proposed
34	Lines 13-14, Column (b)	Proposed (same as present)
35	Lines 9-10, Columns (b)	Proposed, to produce revenue allocation

The Narragansett Electric Company
Rate Design for General C&I - Rate G-02

Line		Billing Units	Proposed Rates	Revenue
		(a)	(b)	(c)
1	Revenue Allocation			**$43,987,880**
2				
3	Customer Charge:			
4	Monthly Bills	104,935	$145.00	$15,215,642
5	**Customer Charge Revenue**			**$15,215,642**
6				
7	Usage-based Charges:			
8	kWh Sales	1,290,927,306	0.00422	$5,447,713
9				
10	Demand Billing Units (in excess of 10kW)	3,594,077	$6.50	$23,361,497
11				
12	HVD Billing Credit Units	64,848	($0.38)	($24,642)
13				
14	HVM Discount	$44,024,852	(0.050%)	($21,992)
15	**Distribution Charge Revenue**			**$28,762,576**
16	**Total Revenue**			**$43,978,218**
17				
18	Difference			($9,662)
19				
20	Customer costs per month	Sch. HSG-1C-1 (REV-1), Line 23		$28.47
21	Demand costs per kW-month	Sch. HSG-1C-1 (REV-1), Line 10		$11.25
22	Demand costs included		10	$112.53
23	Fixed charge indicated			$141.00
24	Use			$145.00
25				

	Item	Source
27	Line 1	Schedule HSG-3 (REV-1), Line 47
28	Lines 4, 8, 10, 12, 14, Column (a)	Schedule HSG-4L (REV-1), Line 16
29	Line 4, Column (b)	Proposed
30	Line 10, Column (b)	Proposed
31	Line 12, Column (b)	Schedule HSG-1C-4 (REV-1)
32	Line 14, Column (b)	Same % as present
33	Line 8, Column (b)	Proposed, to produce revenue allocation

The Narragansett Electric Company
Rate Design for Large Demand - Rate G-32 / G-62 (includes Back-up Rate B-32 / B-62)

Line			Billing Units	Proposed Rates	Revenue
			(a)	(b)	(c)
1	Revenue Allocation- G-32	$37,920,853			**$45,669,294**
2	Revenue Allocation- G-62	$7,748,441			
3	Customer Charge:				
4	Monthly Bills	B-32	60	$1,100.00	$66,172
5		G-32 / G-62	13,403	$1,100.00	$14,743,034
6	**Customer Charge Revenue**		13,463		**$14,809,206**
7					
8	Energy-based Charge:				
9	kWh Sales	B-32 Supplemental	13,230,918	$0.00567	$75,019
10	kWh Sales	G-32 / G-62	2,359,849,091	$0.00567	$13,380,344
11			2,373,080,009		$13,455,364
12	Demand Charge (Over 200 kW)				
13	Demand Billing Units	B-32 Back-up	95,646	$0.87	$83,212
14		B-32 Supplemental	31,317	$5.00	$156,586
15		G-32	3,512,410	$5.00	$17,562,051
16			3,639,374		$17,801,850
17					
18	HVD Billing Credit Units	B-32	0	($0.38)	$0
19		G-32	2,286,043	($0.38)	($868,696)
20			2,286,043		($868,696)
21					
22	HVM Discount		$46,991,860	(0.942%)	($442,480)
23	Second Feeder Service		295,668	$3.13	$925,441
24	**Distribution Charge Revenue**				**$30,871,478**
25					
26	**Total Revenue**				**$45,680,684**
27					
28	**Design of Back-up Demand Charge**				
29	Revenue Requirement (Demand and Energy Based Charges)				$31,174,001
30	Demand billing Units (Supplemental and G-32 Demands in excess of 200 kW)				3,543,727
31	Back-up Demand Charge before Discount				$8.79
32	Back-up Demand Charge after Discount of		90.0%		$0.87
33					
34	Difference				$11,390
35				G-32	G-62
36	Customer costs per month	Sch. HSG-1C-1 (REV-1), Line 23		$126.80	$2,085.85
37	Demand costs per kW-month	Sch. HSG-1C-1 (REV-1), Line 10		$7.88	$7.50
38	Demand costs included		200	$1,575.62	
39	Fixed charge indicated			$1,702.42	$2,085.85
40	Use			$1,100.00	
41					
42	Item		Source		
43	Line 1		Schedule HSG-3 (REV-1), Line 47		
44	Lines 4-5, 9-10, 18-19 and 23, Column (a)		Schedule HSG-4L (REV-1), Line 12 and Line 17		
45	Lines 13-15, Column (a)		Schedule HSG-4L (REV-1), Line 26-Line 27, Line 17		
46	Lines 4-5, 14-15, Column (b)		Proposed		
47	Lines 18-19 and Line 23, Column (b)		Schedule HSG-1C-4 (REV-1)		
48	Lines 9-10, Column (b)		Proposed, to produce revenue allocation		
49	Line 13, Column (b)		Line 32		

The Narragansett Electric Company
Rate Design for Propulsion - Rate X-01

Line		Billing Units	Proposed Rates	Revenue
		(a)	(b)	(c)
1	Revenue Allocation			**$677,645**
2				
3	Customer Charge:			
4	Monthly Bills	12	$21,000.00	$256,954
5	**Customer Charge Revenue**			**$256,954**
6				
7	Energy-based Charge:			
8	kWh Sales	23,962,704	$0.01755	$420,545
9	**Distribution Charge Revenue**			**$420,545**
10				
11	**Total Revenue**			**$677,500**
12				
13	Difference			($146)
14				
15	Customer costs per month	Sch. HSG-1C-1 (REV-1), Line 23		$1,168.43
16				
17	Item	Source		
18	Line 1	Schedule HSG-3 (REV-1), Line 47		
19	Lines 4 and 8, Column (a)	Schedule HSG-4L (REV-1), Line 23		
20	Line 4, Column (b)	Proposed		
21	Line 8, Column (b)	Proposed, to produce revenue allocation		

The Narragansett Electric Company
Rate Design for Street and Area Lighting

ISR Cap Ex Factor $0.01422

Line	Type	Lumens Description	S-10 Units	S-14 Units	Annual kWh / unit	Current Annual Price w/ ISR	Replace-ment Cost Annual Price	Proposed Annual Price	Annual Revenue	Note
			(a)	(b)	(c)	(d)	(e)	(f)	(g)	
1		Revenue Allocation							**$8,071,859**	
2										
3	Incan-descent	LUM INC RWY 105W	6	236	443	$83.73		$81.49	$19,721	(1)
4		LUM INC RWY 205W (S-14 Only)		27	860	$89.66		$81.49	$2,200	(1)
5			6	263					$21,921	
6										
7	Mercury Vapor Fixtures	LUM MV RWY 100W	100	2,355	543	$85.78		$85.53	$209,976	(1)
8		LUM MV RWY 175W	115	239	881	$90.59		$85.53	$30,278	(1)
9		LUM MV RWY 250W (S-14 Only)		57	1,282	$138.62		$139.19	$7,934	(1)
10		LUM MV RWY 400W	34	716	1,991	$191.77		$192.39	$144,293	(1)
11		LUM MV RWY 1000W	4	7	4,572	$228.47		$192.39	$2,116	(1)
12		LUM MV FLD 400W	412	28	1,991	$209.68		$220.43	$96,989	(1)
13		LUM MV FLD 1000W	207	3	4,572	$246.38		$220.43	$46,290	(1)
14		LUM MV POST 175W (S-14 Only)		2	881	$169.33		$164.69	$329	(1)
15			872	3,407					$538,205	
16										
17	High Pressure Sodium Vapor Fixtures	LUM HPS RWY 50W	116	25,601	255	$81.06		$81.49	$2,095,678	(2)
18		LUM HPS RWY 70W	271	9,152	359	$82.01		$82.45	$776,926	(2)
19		LUM HPS RWY 100W	192	5,957	493	$85.07		$85.53	$525,924	(2)
20		LUM HPS RWY 150W	16	8	722	$88.85		$89.33	$2,144	(2)
21		LUM HPS RWY 250W	185	4,534	1,269	$138.44		$139.19	$656,838	(2)
22		LUM HPS RWY 400W	41	180	1,962	$191.36		$192.39	$42,518	(2)
23		WALL HPS 250W 24 HR			2,663	$210.08		$211.22	$0	(2)
24		LUM HPS FLD 250W	1,013	243	1,269	$164.16		$165.05	$207,303	(2)
25		LUM HPS FLD 400W	1,977	574	2,663	$219.24		$220.43	$562,317	(2)
26		LUM HPS POST 50W	43	50	255	$159.12		$159.98	$14,878	(2)
27		LUM HPS POST 100W	40	851	493	$163.81		$164.69	$146,739	(2)
28		LUM HPS REC 100W-C1			493	$106.00		$106.57	$0	(2)
29			3,894	47,150					$5,031,265	
30										
31	Metal Halide	LUM MH FLD 400W	21		1,883	$208.15		$209.27	$4,395	(2)
32		LUM MH FLD 1000W			4,502	$245.39		$246.72	$0	(2)
33			21	0					$4,395	
34										
35	Light Emitting Diode ("LED")	LED RWY 20W			88	$91.86	$93.07	$93.07	$0	(3)
36		LED RWY 30W			130	$91.62	$94.60	$94.60	$0	(3)
37		LED RWY 60W			255	$102.78	$101.47	$101.47	$0	(3)
38		LED RWY 140W			589	$163.41	$134.57	$134.57	$0	(3)
39		LED RWY 275W			1,153	$214.67	$199.44	$199.44	$0	(3)
40		LED POST Top 60W			255	$151.32	$160.98	$160.98	$0	(3)
41			0	0					$0	

The Narragansett Electric Company
Rate Design for Street and Area Lighting

ISR Cap Ex Factor $0.01422

Line	Type	Lumens Description	S-10 Units	S-14 Units	Annual kWh / unit	Current Annual Price w/ ISR	Replace-ment Cost Annual Price	Proposed Annual Price	Annual Revenue	Note
42										
43	Temp-Off	LUM INC RWY 105W TT		1		$46.46		$43.52	$44	(4)
44		LUM MV RWY 400W TT		1		$98.08		$102.00	$102	(4)
45		LUM HPS RWY 50W TT		785		$46.46		$43.52	$34,163	(4)
46		LUM HPS RWY 70W TT		23		$46.15		$44.03	$1,013	(4)
47		LUM HPS RWY 100W TT		183		$46.84		$45.68	$8,359	(4)
48		LUM HPS RWY 250W TT		296		$72.23		$74.34	$22,005	(4)
49		LUM HPS RWY 400W TT		17		$98.08		$102.75	$1,747	(4)
50		LUM HPS POST 100W TT				$94.08		$87.96	$0	(4)
51		LUM HPS FLD 250W TT		1		$87.67		$88.15	$88	(4)
52		LUM HPS FLD 400W TT		3		$108.82		$117.73	$353	(4)
53		LUM MH FLD 400W TT				$108.82		$111.77	$0	(4)
54				1,310					$67,874	
55		**Total Luminaires**	**4,793**	**52,130**					**$5,663,659**	
56										
57	Standards	POLE-WOOD	178	258		$133.71		$134.43	$58,611	(2)
58		POLE FIBER PT EMB <25' w/out foun	97	455		$260.22		$261.63	$144,420	(2)
59		POLE FIBER RWY <25 w/ foundation	18	628		$424.14		$426.44	$275,480	(2)
60		POLE FIBER RWY => 25 w/ foundation		52		$473.53		$476.10	$24,757	(2)
61		POLE METAL=>25FT (with foundatic	38	1,588		$484.72		$487.35	$792,431	(2)
62		POLE METAL EMBEDDED (S-14 Only)		2		$405.16		$407.35	$815	(2)
63		**Total Standards**	**331**	**2,983**					**$1,296,514**	
64										
65	S-10		5,124			Average per unit		$183.89	$942,270	
66	S-14			55,113		Average per unit		$109.19	$6,017,904	
67									**$6,960,174**	
68			**Units**							
69	S-06 (Decorative)	DEC HPS AG 50W			255	$295.97	$232.75	$232.75	$0	(3)
70		DEC HPS AG 100W			493	$287.78	$233.14	$233.14	$0	(3)
71		DEC HPS WL 50W			255	$328.98	$257.61	$257.61	$0	(3)
72		DEC HPS WL 100W			493	$332.31	$269.55	$269.55	$0	(3)
73		DEC HPS TR-TW 50W			510	$513.54	$360.78	$360.78	$0	(3)
74		DEC HPS TR-TW 100W			986	$523.48	$378.59	$378.59	$0	(3)
75		DEC HPS AG-TW 50W			510	$701.09	$503.27	$503.27	$0	(3)
76		DEC HPS AG-TW 100W			986	$684.73	$504.04	$504.04	$0	(3)
77		DEC HPS WL-TW 50W			510	$767.12	$552.97	$552.97	$0	(3)
78		DEC HPS WL-TW 100W	7		986	$773.79	$576.85	$576.85	$4,038	(3)
79		DEC LED TR 60W			255	$151.32	$160.98	$160.98	$0	(3)
80		DEC LED TR-TW 60W			510	$405.15	$321.96	$321.96	$0	(3)
81		**Total Luminaires**	**7**						**$4,038**	
82										
83	S-06 Standards	DEC VILL PT/FDN				$566.70	$357.23	$357.23	$0	(3)
84		DEC WASH PT/FDN	7			$575.78	$472.37	$472.37	$3,307	(3)
85										
86		**Total Standards**	**7**						**$3,307**	
87		**Total Luminairies and Standards**	14			Average per unit		$524.61	**$7,345**	
88										
89	**TOTAL LIGHTS & STANDARDS**		**5,138**	**55,113**					**$6,967,518**	

The Narragansett Electric Company
Rate Design for Street and Area Lighting

ISR Cap Ex Factor $0.01422

Line	Type	Lumens Description	S-10 Units	S-14 Units	Annual kWh / unit	Current Annual Price w/ ISR	Replace-ment Cost Annual Price	Proposed Annual Price	Annual Revenue	Note
90										
91	**S-05**									
92	Annual kWh X 1000			30,303,659		MWh	Rate	$0.03644	$1,104,265	
93										
94									**$8,071,784**	
95										
96								Difference	($76)	
97										

98 Notes:
99 (1) Proposed = Equivalent Sodium Vapor replacement luminaire
100 (2) Proposed = [Current X 100.54%]
101 (3) Proposed = Replacement cost
102 (4) Proposed Temp-off = Full price X 53.41%

The Narragansett Electric Company
Rate Design for Station Power- Rate M-1

Line		Billing Units	Proposed Rates	Revenue
		(a)	(b)	(c)
1	Current Customer Charge		$3,959.09	
2	System Average Percentage Increase		10.1%	
3				
4	Customer Charge:			
5	Monthly Bills	36	$4,360.18	$156,966
6				
7				
8				
9				
10				

The Narragansett Electric Company
2.4 kV Discount and High Voltage Delivery (115 kV) Discount

		Source	Rate
1	2.4 kV Discount		
2	Transformer Billing Credit per kW-month	Sch. HSG-1C-4 (REV-1)	($0.38)
3			
4	High Voltage Delivery (115kV) Discount		
5	Incremental Discount - High Voltage Delivery (115kV) per kW-month	- (Line 7+ Line 2)	($2.75)
6			
7	Second Feeder Service Rate per kW-month	Sch. HSG-1C-1 (REV-1)	$3.13
8			
9			

The Narragansett Electric Company
Summary of Proposed Electric Service Rates

Line		A-16	A-60	C-06	G-02	B-32 / G-32	X-01	M-1
		(a)	(b)	(c)	(d)	(e)	(g)	(i)
	Source:	*Sch. HSG-4-A (REV-1)*	*Sch. HSG-4-A (REV-1)*	*Sch. HSG-4-B (REV-1)*	*Sch. HSG-4-C (REV-1)*	*Sch. HSG-4-D (REV-1)*	*Sch. HSG-4-E (REV-1)*	*Sch. HSG-4-G (REV-1)*
1	Customer Charges (per month)		*Nominal*					
2	Customer Charge	$8.50	$8.50	$13.00	$145.00	$1,100.00	$21,000.00	$4,360.18
3	Unmetered Charge			$8.75				
4	Customer Charge Year 1		$2.75					
5	Customer Charge Year 2		$5.50					
6	Customer Charge Year 3		$8.50					
7								
8	Distribution per kWh Charge							
9	kWh Charge	$0.04159	$0.04159	$0.04015	$0.00422	$0.00567	$0.01755	
10	kWh Charge Year 2	$0.04159	$0.04159					
11	kWh Charge Year 3	$0.04159	$0.04159					
12								
13	Distribution Demand Charges (per kW)							
14	In excess of 10 kW				$6.50			
15	In excess of 200 kW					$5.00		
16	All kW							
17	Backup Demand Charge - in excess of 200 kW					$0.87		
18	Backup Demand Charge per kW							
19								
20	Other Charges and Credits							
21	Additional Minimum Charge (per kVA excess 25 kVA)			$1.85				
22	High Voltage Delivery Discount				($0.38)	($0.38)		
23	High Voltage Metering Discount				(1.0%)	(1.0%)		
24	Additional High Voltage Delivery Discount (115kV)					($2.75)		
25	Second Feeder Service					$2.75		
26	Second Feeder Service - Additional Transformer Charge					$0.38		
27								
28	Other Proposed Charges							
29	Low Income Discount Recovery Factor	$0.00086	$0.00000	$0.00086	$0.00086	$0.00086	$0.00086	
30								
31								
32	kWh X 1000	2,723,229	223,497	598,981	1,290,927	2,373,080	23,963	
33	Lighting							62,050
34	Total							7,295,727
35								
36	Bills		437,171		kW billed	3,639,374		

The Narragansett Electric Company
Summary of Proposed Electric Service Rates- Street and Area Lighting
S-06, S-10 & S-14

Source: *Sch. HSG-4-F (REV-1)*

Line		Lumens	Description	Annual Charge per Fixture: Full Service	Annual Charge per Fixture: Temp off
1	**S-10/S-14 Luminaires**				
2	Incandescent	1,000	LUM INC RWY 105W	$81.49	$43.52
3		2,500	LUM INC RWY 205W (S-14 Only)	$81.49	$43.52
4					
5	Mercury Vapor	4,400	LUM MV RWY 100W	$85.53	$45.68
6		8,500	LUM MV RWY 175W	$85.53	$45.68
7		13,000	LUM MV RWY 250W (S-14 Only)	$139.19	$74.34
8		23,000	LUM MV RWY 400W	$192.39	$102.75
9		63,000	LUM MV RWY 1000W	$192.39	$102.75
10		23,000	LUM MV FLD 400W	$220.43	$117.73
11		63,000	LUM MV FLD 1000W	$220.43	$117.73
12		8,500	LUM MV POST 175W (S-14 Only)	$164.69	$87.96
13					
14	Sodium Vapor	4,000	LUM HPS RWY 50W	$81.49	$43.52
15		6,300	LUM HPS RWY 70W	$82.45	$44.03
16		9,600	LUM HPS RWY 100W	$85.53	$45.68
17		16,000	LUM HPS RWY 150W	$89.33	$47.71
18		27,500	LUM HPS RWY 250W	$139.19	$74.34
19		50,000	LUM HPS RWY 400W	$192.39	$102.75
20		27,500	WALL HPS 250W 24 HR	$211.22	$112.81
21		27,500	LUM HPS FLD 250W	$165.05	$88.15
22		50,000	LUM HPS FLD 400W	$220.43	$117.73
23		4,000	LUM HPS POST 50W	$159.98	$85.44
24		9,600	LUM HPS POST 100W	$164.69	$87.96
25		9,600	LUM HPS REC 100W-C1	$106.57	$56.91
26					
27	Metal Halide	32,000	LUM MH FLD 400W	$209.27	$111.77
28		107,800	LUM MH FLD 1000W	$246.72	$131.77
29					
30	Light Emitting Diode	2,000	LED RWY 20W	$93.07	$49.70
31		2,700	LED RWY 30W	$94.60	$50.52
32		5,000	LED RWY 60W	$101.47	$54.19
33		13,000	LED RWY 140W	$134.57	$71.87
34		25,000	LED RWY 275W	$199.44	$106.52
35		5,000	LED POST Top 60W	$160.98	$85.97
36					
37	**S-10/S-14 Standards**		POLE-WOOD	$134.43	$71.79
38			POLE FIBER PT EMB <25' w/out foundati	$261.63	$139.73
39			POLE FIBER RWY <25 w/ foundation	$426.44	$227.76
40			POLE FIBER RWY => 25 w/ foundation	$476.10	$254.28
41			POLE METAL=>25FT (with foundation)	$487.35	$260.29
42			POLE METAL EMBEDDED (S-14 Only)	$407.35	$217.56
43					
44	**S-06 (Decorative) Luminaires**	4,000	DEC HPS TR 50W	$159.98	
45		9,600	DEC HPS TR 100W	$164.69	
46		4,000	DEC HPS AG 50W	$232.75	
47		9,600	DEC HPS AG 100W	$233.14	
48		4,000	DEC HPS WL 50W	$257.61	
49		9,600	DEC HPS WL 100W	$269.55	
50		4,000	DEC HPS TR-TW 50W	$360.78	
51		9,600	DEC HPS TR-TW 100W	$378.59	
52		4,000	DEC HPS AG-TW 50W	$503.27	
53		9,600	DEC HPS AG-TW 100W	$504.04	
54		4,000	DEC HPS WL-TW 50W	$552.97	
55		9,600	DEC HPS WL-TW 100W	$576.85	
56		5,000	DEC LED TR 60W	$160.98	
57		10,000	DEC LED TR-TW 60W	$321.96	
58					
59	**S-6 (Decorative) Standards**		DEC VILL PT/FDN	$357.23	
60			DEC WASH PT/FDN	$472.37	

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Schedule HSG-4-K (REV-1)
Sheet 1 of 2

The Narragansett Electric Company
Rate Year Proof of Revenue at PROPOSED Rates

Line	Code	Description	Includes	Annual Bills/Fixtures	Customer /Fixture Charge per Month	Customer Charge Revenue	Billing Demand	Demand Charge	Demand Charge Revenue	kWh Deliveries	kWh Charge	kWh Charge Revenue
				(a)	(b)	(c)	(e)	(f)	(g)	(h)	(i)	(j)
1	A-16	Residential	A-16,A-60	5,284,666		$44,919,663				2,946,725,332		$122,554,307
2	C-06	Small C&I	C-06,C-08	626,592		$8,103,598				598,981,304		$24,079,669
3	G-02	General C&I	G-02	104,935		$15,215,642	3,594,077		$23,361,497	1,290,927,306		$5,447,713
4	G-32	200 kW Demand	B-32,G-32	13,463		$14,809,206	3,639,374		$17,801,850	2,373,080,009		$13,455,364
5	G-62	5000 kW Demand	B-62,G-62									
6	SL	Lighting	S-05,S-06,S-10,S-14	60,254		$6,967,846				62,049,950		$1,104,265
7	X-01	Propulsion	X-01	12		$256,954				23,962,704		$420,545
8				6,089,923		$90,272,909	7,233,450		$41,163,347	7,295,726,605		$167,061,863
9												
10	A-16	Residential Basic		4,847,495	$8.50	$41,203,708			$0	2,723,228,532	$0.04159	$113,259,075
11	A-60	Resid. Low Income		437,171	$8.50	$3,715,955			$0	223,496,800	$0.04159	$9,295,232
12	B-32	C&I Back-up		60	$1,100.00	$66,172	126,964	See below	239,798	13,230,918	$0.00567	$75,019
13	B-32	5000 kW Back-up	Was B-62	-	$1,100.00	$0				-	$0.00567	$0
14	C-06	Small C&I		616,686	$13.00	$8,016,920			$0	595,486,038	See below	$23,923,194
15	C-06	Small C&I Unmetrd		9,906	$8.75	$86,678			$0	3,495,266	See below	$156,474
16	G-02	General C&I		104,935	$145.00	$15,215,642	3,594,077	$6.50	$23,361,497	1,290,927,306	$0.00422	$5,447,713
17	G-32	200 kW Demand		13,246	$1,100.00	$14,571,015	2,869,062	$5.00	$14,345,311	1,939,578,858	$0.00567	$10,997,412
18	G-32	5000 kW Demand	Was G-62	156	$1,100.00	$172,019	643,348	See below	$3,216,740	420,270,233	$0.00567	$2,382,932
19	S-05	SL Customer-owned		-		$0			$0	30,303,659	$0.03644	$1,104,265
20	S-06	SL Decorative		14	$524.61	$7,345			$0	3,451		$0
21	S-10	SL Private		5,124	$183.89	$942,270			$0	7,793,834		$0
22	S-14	SL Street		55,116	$109.19	$6,018,232			$0	23,949,006		$0
23	X-01	X-01		12	$21,000.00	$256,954			$0	23,962,704	$0.01755	$420,545
24				6,089,923		$90,272,909	7,233,450		$41,163,347	7,295,726,605		$167,061,863
25												
26		B-32 C&I Back-up	Back-up				95,646	$0.87	$83,212			
27			Supplemental				31,317	$5.00	$156,586			
28							126,964		$239,798			
29		B-62 3000 kW Back-	Back-up					$0.87	$0			
30			Supplemental				643,348	$5.00	$3,216,740			
31							643,348		$3,216,740			
32		C-06 Small C&I	kWh							595,486,038	$0.04015	$23,908,764
33			Over 25 kVA							7,800	$1.85	$14,430
34										595,493,838		$23,923,194
35												
36		C-08 Small C&I Unn	kWh							3,495,266	$0.04015	$140,335
37			Over 25 kVA							8,724	$1.85	$16,139
38										3,503,990		$156,474
39	M-1	Station Power		36	$4,360.18	156,966						

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The Narragansett Electric Company
Rate Year Proof of Revenue at PROPOSED Rates

Line	Code	Description	Includes	HVD Billing Units	HVD Credit Revenue	HVM Billing Units	HVM Credit Revenue	2nd Feeder Service Billing Units	2nd Feeder Service Revenue	Rate Year Revenue	Revenue Targets	Difference
				(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
1	A-16	Residential	A-16,A-60							$167,473,970	$167,491,395	($17,425)
2	C-06	Small C&I	C-06,C-08							$32,183,267	$32,184,418	($1,151)
3	G-02	General C&I	G-02	64,848	($24,642)	44,024,852	($21,992)			$43,978,218	$43,987,880	($9,662)
4	G-32	200 kW Demand	B-32,G-32	2,286,043	($868,696)	46,991,860	($442,480)	295,668	$925,441	$45,680,684	$45,669,294	$11,390
5	G-62	5000 kW Demand	B-62,G-62									$0
6	SL	Lighting	S-05,S-06,S-10,S-14							$8,072,111	$8,071,859	$252
7	X-01	Propulsion	X-01							$677,500	$677,645	($146)
8				2,350,891	($893,339)	91,016,712	($464,472)	295,668	$925,441	$298,065,749	$298,082,491	($16,742)
9											$298,082,491	($16,742)
10	A-16	Residential Basic								$154,462,783		
11	A-60	Resid. Low Income								$13,011,187		
12	B-32	C&I Back-up				380,989	($3,587)			$377,402		
13	B-32	5000 kW Back-up	Was B-62			-	$0			$0		
14	C-06	Small C&I								$31,940,114		
15	C-06	Small C&I Unmetrd								$243,153		
16	G-02	General C&I		64,848	($24,642)	44,024,852	($21,992)			$43,978,218		
17	G-32	200 kW Demand		1,392,345	($529,091)	40,839,179	($384,546)	295,668	$925,441	$39,925,542		
18	G-32	5000 kW Demand	Was G-62	893,698	($339,605)	5,771,692	($54,347)			$5,377,740		
19	S-05	SL Customer-owned								$1,104,265		
20	S-06	SL Decorative								$7,345		
21	S-10	SL Private								$942,270		
22	S-14	SL Street								$6,018,232		
23	X-01	X-01								$677,500		
24				2,350,891	($893,339)	91,016,712	($464,472)	295,668	$925,441	$298,065,749		
25				Rate	($0.38)			Rate	$3.13			
26		B-32 C&I Back-up	Back-up							$298,096,491	Requirement	
27			Supplemental							($14,000)	M1 Increase	
28										$298,082,491		
29		B-62 3000 kW Back-	Back-up									
30			Supplemental									
31												
32		C-06 Small C&I	kWh									
33			Over 25 kVA									
34												
35												
36		C-08 Small C&I Unn	kWh									
37			Over 25 kVA									
38												
39	M-1	Station Power										

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No.4770
Schedule HSG-4-K (REV-1)
Sheet 2 of 2

Schedule HSG-5 (REV-1)

Typical Bills and Street and Area Lighting Bill Impacts

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed Rates

Schedule Title	Reference
Index	HSG-5-Index (REV-1)
Rates Applicable to A-16 Rate Customers	HSG-5-A (REV-1)
Rates Applicable to A-60 Rate Customers, Year 1	HSG-5-B (REV-1)
Rates Applicable to A-60 Rate Customers, Year 2	HSG-5-B1 (REV-1)
Rates Applicable to A-60 Rate Customers, Year 3	HSG-5-B2 (REV-1)
Rates Applicable to C-06 Rate Customers	HSG-5-C (REV-1)
Rates Applicable to G-02 Rate Customers, 200 Hours of Use	HSG-5-D (REV-1)
Rates Applicable to G-02 Rate Customers, 300 Hours of Use	HSG-5-D1 (REV-1)
Rates Applicable to G-02 Rate Customers, 400 Hours of Use	HSG-5-D2 (REV-1)
Rates Applicable to G-02 Rate Customers, 500 Hours of Use	HSG-5-D3 (REV-1)
Rates Applicable to G-02 Rate Customers, 600 Hours of Use	HSG-5-D4 (REV-1)
Rates Applicable to G-32 / Former G-62 Rate Customers, 200 Hours of Use	HSG-5-E (REV-1)
Rates Applicable to G-32 / Former G-62 Rate Customers, 300 Hours of Use	HSG-5-E1 (REV-1)
Rates Applicable to G-32 / Former G-62 Rate Customers, 400 Hours of Use	HSG-5-E2 (REV-1)
Rates Applicable to G-32 / Former G-62 Rate Customers, 500 Hours of Use	HSG-5-E3 (REV-1)
Rates Applicable to G-32 / Former G-62 Rate Customers, 600 Hours of Use	HSG-5-E4 (REV-1)
Rates Applicable to G-62 Rate Customers Transferring to G-32	HSG-5-E5 (REV-1)
Streetlights Annual Bill Impacts	HSG-5-F (REV-1)

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

Monthly kWh	Rates Effective November 1, 2017				Proposed Rates				Increase (Decrease)								Percentage of Customers
									$				% of Total Bill				
	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	
150	$20.66	$14.27	$1.46	$36.39	$24.61	$14.28	$1.62	$40.51	$3.95	$0.01	$0.16	$4.12	10.9%	0.0%	0.4%	11.3%	30.1%
300	$34.72	$28.55	$2.64	$65.91	$39.12	$28.55	$2.82	$70.49	$4.40	$0.00	$0.18	$4.58	6.7%	0.0%	0.3%	6.9%	12.9%
400	$44.10	$38.06	$3.42	$85.58	$48.79	$38.07	$3.62	$90.48	$4.69	$0.01	$0.20	$4.90	5.5%	0.0%	0.2%	5.7%	11.6%
500	$53.48	$47.58	$4.21	$105.27	$58.46	$47.59	$4.42	$110.47	$4.98	$0.01	$0.21	$5.20	4.7%	0.0%	0.2%	4.9%	9.6%
600	$62.85	$57.09	$5.00	$124.94	$68.13	$57.11	$5.22	$130.46	$5.28	$0.02	$0.22	$5.52	4.2%	0.0%	0.2%	4.4%	7.7%
700	$72.23	$66.61	$5.79	$144.63	$77.80	$66.63	$6.02	$150.45	$5.57	$0.02	$0.23	$5.82	3.9%	0.0%	0.2%	4.0%	19.0%
1,200	$119.11	$114.18	$9.72	$243.01	$126.16	$114.22	$10.02	$250.40	$7.05	$0.04	$0.30	$7.39	2.9%	0.0%	0.1%	3.0%	6.8%
2,000	$194.13	$190.30	$16.02	$400.45	$203.54	$190.36	$16.41	$410.31	$9.41	$0.06	$0.39	$9.86	2.3%	0.0%	0.1%	2.5%	2.3%

		(1) Present Rates	(2) Proposed Rates
Customer Charge		$5.00	$8.50
RE Growth Factor		$0.78	$0.79
LIHEAP Charge		$0.81	$0.81
Transmission Energy Charge	kWh x	$0.03179	$0.03180
Base Distribution Energy Charge	kWh x	$0.03664	$0.04159
Other Distribution Energy Charges	kWh x	$0.00636	$0.00434
Transition Energy Charge	kWh x	$0.00057	$0.00057
Energy Efficiency Program Charge	kWh x	$0.01154	$0.01154
Renewable Energy Distribution Charge	kWh x	$0.00687	$0.00688
Gross Earnings Tax		4%	4%
Standard Offer Charge	kWh x	$0.09515	$0.09518

(1) Workpaper HSG-5 (REV-1), Page 1, Column (a)
(2) Workpaper HSG-5 (REV-1), Page 1, Column (b)

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No.4770
Schedule HSG-5-A (REV-1)
Sheet 1 of 1

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed Rates
Rates Applicable to A-60 Rate Customers, Year 1

	Rates Effective November 1, 2017				Proposed Rates						Increase (Decrease)								
								Discounted			$				% of Total Bill				
Monthly kWh	Delivery	SOS	GET	Total	Delivery	SOS	Discount	Total	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Percentage of Customers
150	$13.64	$14.27	$1.16	$29.07	$18.73	$14.28	($4.95)	$28.06	$1.17	$29.23	$0.14	$0.01	$0.01	$0.16	0.5%	0.0%	0.0%	0.6%	32.1%
300	$25.68	$28.55	$2.26	$56.49	$33.11	$28.55	($9.25)	$52.41	$2.18	$54.59	($1.82)	$0.00	($0.08)	($1.90)	(3.2%)	-	(0.1%)	(3.4%)	15.4%
400	$33.71	$38.06	$2.99	$74.76	$42.69	$38.07	($12.11)	$68.65	$2.86	$71.51	($3.13)	$0.01	($0.13)	($3.25)	(4.2%)	0.0%	(0.2%)	(4.3%)	12.5%
500	$41.74	$47.58	$3.72	$93.04	$52.28	$47.59	($14.98)	$84.89	$3.54	$88.43	($4.44)	$0.01	($0.18)	($4.61)	(4.8%)	0.0%	(0.2%)	(5.0%)	9.6%
600	$49.77	$57.09	$4.45	$111.31	$61.87	$57.11	($17.85)	$101.13	$4.21	$105.34	($5.75)	$0.02	($0.24)	($5.97)	(5.2%)	0.0%	(0.2%)	(5.4%)	7.2%
700	$57.80	$66.61	$5.18	$129.59	$71.45	$66.63	($20.71)	$117.37	$4.89	$122.26	($7.06)	$0.02	($0.29)	($7.33)	(5.4%)	0.0%	(0.2%)	(5.7%)	16.4%
1,200	$97.95	$114.18	$8.84	$220.97	$119.38	$114.22	($35.04)	$198.56	$8.27	$206.83	($13.61)	$0.04	($0.57)	($14.14)	(6.2%)	0.0%	(0.3%)	(6.4%)	5.2%
2,000	$162.19	$190.30	$14.69	$367.18	$196.07	$190.36	($57.96)	$328.47	$13.69	$342.16	($24.08)	$0.06	($1.00)	($25.02)	(6.6%)	0.0%	(0.3%)	(6.8%)	1.6%

		(1) Present Rates	(2) Proposed Rates
Customer Charge		$0.00	$2.75
RE Growth Factor		$0.78	$0.79
LIHEAP Charge		$0.81	$0.81
Transmission Energy Charge	kWh x	$0.03179	$0.03180
Base Distribution Energy Charge	kWh x	$0.02317	$0.04159
Other Distribution Energy Charges	kWh x	$0.00636	$0.00348
Transition Energy Charge	kWh x	$0.00057	$0.00057
Energy Efficiency Program Charge	kWh x	$0.01154	$0.01154
Renewable Energy Distribution Charge	kWh x	$0.00687	$0.00688
Low Income Discount			15%
Gross Earnings Tax		4%	4%
Standard Offer Charge	kWh x	$0.09515	$0.09518

(1) Workpaper HSG-5 (REV-1), Page 2, Column (a)
(2) Workpaper HSG-5 (REV-1), Page 2, Column (b)

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No.4770
Schedule HSG-5-B (REV-1)
Sheet 1 of 1

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed Rates
Rates Applicable to A-60 Rate Customers, Year 2

Monthly	Year 1 Proposed Rates						Year 2 Proposed Rates						Increase (Decrease)								Percentage
				Discounted						Discounted			$				% of Total Bill				
kWh	Delivery	SOS	Discount	Total	GET	Total	Delivery	SOS	Discount	Total	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	of Customers
150	$18.73	$14.28	($4.95)	$28.06	$1.17	$29.23	$21.48	$14.28	($5.36)	$30.40	$1.27	$31.67	$2.34	$0.00	$0.10	$2.44	8.0%	0.0%	0.3%	8.3%	32.1%
300	$33.11	$28.55	($9.25)	$52.41	$2.18	$54.59	$35.86	$28.55	($9.66)	$54.75	$2.28	$57.03	$2.34	$0.00	$0.10	$2.44	4.3%	0.0%	0.2%	4.5%	15.4%
400	$42.69	$38.07	($12.11)	$68.65	$2.86	$71.51	$45.44	$38.07	($12.53)	$70.98	$2.96	$73.94	$2.33	$0.00	$0.10	$2.43	3.3%	0.0%	0.1%	3.4%	12.5%
500	$52.28	$47.59	($14.98)	$84.89	$3.54	$88.43	$55.03	$47.59	($15.39)	$87.23	$3.63	$90.86	$2.34	$0.00	$0.09	$2.43	2.6%	0.0%	0.1%	2.7%	9.6%
600	$61.87	$57.11	($17.85)	$101.13	$4.21	$105.34	$64.62	$57.11	($18.26)	$103.47	$4.31	$107.78	$2.34	$0.00	$0.10	$2.44	2.2%	0.0%	0.1%	2.3%	7.2%
700	$71.45	$66.63	($20.71)	$117.37	$4.89	$122.26	$74.20	$66.63	($21.12)	$119.71	$4.99	$124.70	$2.34	$0.00	$0.10	$2.44	1.9%	0.0%	0.1%	2.0%	16.4%
1,200	$119.38	$114.22	($35.04)	$198.56	$8.27	$206.83	$122.13	$114.22	($35.45)	$200.90	$8.37	$209.27	$2.34	$0.00	$0.10	$2.44	1.1%	0.0%	0.0%	1.2%	5.2%
2,000	$196.07	$190.36	($57.96)	$328.47	$13.69	$342.16	$198.82	$190.36	($58.38)	$330.80	$13.78	$344.58	$2.33	$0.00	$0.09	$2.42	0.7%	0.0%	0.0%	0.7%	1.6%

		Year 1 Proposed Rates	Year 2 Proposed Rates	
Customer Charge		$2.75	$5.50	(1)
RE Growth Factor		$0.79	$0.79	
LIHEAP Charge		$0.81	$0.81	
Transmission Energy Charge	kWh x	$0.03180	$0.03180	
Base Distribution Energy Charge	kWh x	$0.04159	$0.04159	
Other Distribution Energy Charges	kWh x	$0.00348	$0.00348	
Transition Energy Charge	kWh x	$0.00057	$0.00057	
Energy Efficiency Program Charge	kWh x	$0.01154	$0.01154	
Renewable Energy Distribution Charge	kWh x	$0.00688	$0.00688	
Low Income Discount		15%	15%	
Gross Earnings Tax		4%	4%	
Standard Offer Charge	kWh x	$0.09518	$0.09518	

(1) Proposed Year 2 Customer Charge

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No.4770
Schedule HSG-5-B1 (REV-1)
Sheet 1 of 1

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No.4770
Schedule HSG-5-B2 (REV-1)
Sheet 1 of 1

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed Rates
Rates Applicable to A-60 Rate Customers, Year 3

	Year 2 Proposed Rates						Year 3 Proposed Rates						Increase (Decrease)								
													$				% of Total Bill				
Monthly kWh	Delivery	SOS	Discount	Discounted Total	GET	Total	Delivery	SOS	Discount	Discounted Total	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Percentage of Customers
150	$21.48	$14.28	($5.36)	$30.40	$1.27	$31.67	$24.48	$14.28	($5.81)	$32.95	$1.37	$34.32	$2.55	$0.00	$0.10	$2.65	8.1%	0.0%	0.3%	8.4%	32.1%
300	$35.86	$28.55	($9.66)	$54.75	$2.28	$57.03	$38.86	$28.55	($10.11)	$57.30	$2.39	$59.69	$2.55	$0.00	$0.11	$2.66	4.5%	0.0%	0.2%	4.7%	15.4%
400	$45.44	$38.07	($12.53)	$70.98	$2.96	$73.94	$48.44	$38.07	($12.98)	$73.53	$3.06	$76.59	$2.55	$0.00	$0.10	$2.65	3.4%	0.0%	0.1%	3.6%	12.5%
500	$55.03	$47.59	($15.39)	$87.23	$3.63	$90.86	$58.03	$47.59	($15.84)	$89.78	$3.74	$93.52	$2.55	$0.00	$0.11	$2.66	2.8%	0.0%	0.1%	2.9%	9.6%
600	$64.62	$57.11	($18.26)	$103.47	$4.31	$107.78	$67.62	$57.11	($18.71)	$106.02	$4.42	$110.44	$2.55	$0.00	$0.11	$2.66	2.4%	0.0%	0.1%	2.5%	7.2%
700	$74.20	$66.63	($21.12)	$119.71	$4.99	$124.70	$77.20	$66.63	($21.57)	$122.26	$5.09	$127.35	$2.55	$0.00	$0.10	$2.65	2.0%	0.0%	0.1%	2.1%	16.4%
1,200	$122.13	$114.22	($35.45)	$200.90	$8.37	$209.27	$125.13	$114.22	($35.90)	$203.45	$8.48	$211.93	$2.55	$0.00	$0.11	$2.66	1.2%	0.0%	0.1%	1.3%	5.2%
2,000	$198.82	$190.36	($58.38)	$330.80	$13.78	$344.58	$201.82	$190.36	($58.83)	$333.35	$13.89	$347.24	$2.55	$0.00	$0.11	$2.66	0.7%	0.0%	0.0%	0.8%	1.6%

		Year 2 Proposed Rates	Year 3 Proposed Rates	
Customer Charge		$5.50	$8.50	(1)
RE Growth Factor		$0.79	$0.79	
LIHEAP Charge		$0.81	$0.81	
Transmission Energy Charge	kWh x	$0.03180	$0.03180	
Base Distribution Energy Charge	kWh x	$0.04159	$0.04159	
Other Distribution Energy Charges	kWh x	$0.00348	$0.00348	
Transition Energy Charge	kWh x	$0.00057	$0.00057	
Energy Efficiency Program Charge	kWh x	$0.01154	$0.01154	
Renewable Energy Distribution Charge	kWh x	$0.00688	$0.00688	
Low Income Discount		15%	15%	
Gross Earnings Tax		4%	4%	
Standard Offer Charge	kWh x	$0.09518	$0.09518	

(1) Proposed Year 3 Customer Charge

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed Rates
Rates Applicable to C-06 Rate Customers

Monthly kWh	Rates Effective November 1, 2017				Proposed Rates				Increase (Decrease)								Percentage of Customers
									$				% of Total Bill				
	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	
250	$33.64	$23.38	$2.38	$59.40	$38.09	$23.38	$2.56	$64.03	$4.45	$0.00	$0.18	$4.63	7.5%	0.0%	0.3%	7.8%	56.3%
500	$55.21	$46.75	$4.25	$106.21	$61.12	$46.77	$4.50	$112.39	$5.91	$0.02	$0.25	$6.18	5.6%	0.0%	0.2%	5.8%	16.9%
1,000	$98.35	$93.50	$7.99	$199.84	$107.16	$93.53	$8.36	$209.05	$8.81	$0.03	$0.37	$9.21	4.4%	0.0%	0.2%	4.6%	8.1%
1,500	$141.49	$140.25	$11.74	$293.48	$153.21	$140.30	$12.23	$305.74	$11.72	$0.05	$0.49	$12.26	4.0%	0.0%	0.2%	4.2%	5.0%
2,000	$184.63	$187.00	$15.48	$387.11	$199.25	$187.06	$16.10	$402.41	$14.62	$0.06	$0.62	$15.30	3.8%	0.0%	0.2%	4.0%	13.6%

		(1) Present Rates	(2) Proposed Rates
Customer Charge		$10.00	$13.00
RE Growth Factor		$1.26	$1.26
LIHEAP Charge		$0.81	$0.81
Transmission Energy Charge	kWh x	$0.02838	$0.02839
Base Distribution Charge	kWh x	$0.03253	$0.04015
Other Distribution Energy Charges	kWh x	$0.00639	$0.00456
Transition Energy Charge	kWh x	$0.00057	$0.00057
Energy Efficiency Program Charge	kWh x	$0.01154	$0.01154
Renewable Energy Distribution Charge	kWh x	$0.00687	$0.00688
Gross Earnings Tax		4%	4%
Standard Offer Charge	kWh x	$0.09350	$0.09353

(1) Workpaper HSG-5 (REV-1), Page 3, Column (a)
(2) Workpaper HSG-5 (REV-1), Page 3, Column (b)

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No.4770
Schedule HSG-5-C (REV-1)
Sheet 1 of 1

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed Rates
Rates Applicable to G-02 Rate Customers, 200 Hours of Use

Hours Use: 200

Monthly Power		Rates Effective November 1, 2017				Proposed Rates				Increase (Decrease)							
										$				% of Total Bill			
kW	kWh	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
20	4,000	$442.50	$374.00	$34.02	$850.52	$463.98	$374.12	$34.92	$873.02	$21.48	$0.12	$0.90	$22.50	2.5%	0.0%	0.1%	2.6%
50	10,000	$967.56	$935.00	$79.27	$1,981.83	$1,020.96	$935.30	$81.51	$2,037.77	$53.40	$0.30	$2.24	$55.94	2.7%	0.0%	0.1%	2.8%
100	20,000	$1,842.66	$1,870.00	$154.69	$3,867.35	$1,949.26	$1,870.60	$159.16	$3,979.02	$106.60	$0.60	$4.47	$111.67	2.8%	0.0%	0.1%	2.9%
150	30,000	$2,717.76	$2,805.00	$230.12	$5,752.88	$2,877.56	$2,805.90	$236.81	$5,920.27	$159.80	$0.90	$6.69	$167.39	2.8%	0.0%	0.1%	2.9%

		(1) Present Rates	(2) Proposed Rates
Customer Charge		$135.00	$145.00
RE Growth Factor		$11.85	$11.85
LIHEAP Charge		$0.81	$0.81
Transmission Demand Charge	kW x	$4.37	$4.37
Transmission Energy Charge	kWh x	$0.01096	$0.01097
Base Distribution Demand Charge-xcs 10 kW	kW x	$4.85	$6.50
CapEx Factor	kW x	$0.67	$0.00
Base Distribution Energy Charge	kWh x	$0.00468	$0.00422
Other Distribution Energy Charges	kWh x	$0.00344	$0.00430
Transition Energy Charge	kWh x	$0.00057	$0.00057
Energy Efficiency Program Charge	kWh x	$0.01154	$0.01154
Renewable Energy Distribution Charge	kWh x	$0.00687	$0.00688
Gross Earnings Tax		4%	4%
Standard Offer Charge	kWh x	$0.09350	$0.09353

(1) Workpaper HSG-5 (REV-1), Page 4, Column (a)
(2) Workpaper HSG-5 (REV-1), Page 4, Column (b)

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No.4770
Schedule HSG-5-D (REV-1)
Sheet 1 of 1

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed Rates
Rates Applicable to G-02 Rate Customers, 300 Hours of Use

Hours Use: 300

Monthly Power		Rates Effective November 1, 2017				Proposed Rates				Increase (Decrease)							
										$				% of Total Bill			
kW	kWh	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
20	6,000	$518.62	$561.00	$44.98	$1,124.60	$540.94	$561.18	$45.92	$1,148.04	$22.32	$0.18	$0.94	$23.44	2.0%	0.0%	0.1%	2.1%
50	15,000	$1,157.86	$1,402.50	$106.68	$2,667.04	$1,213.36	$1,402.95	$109.01	$2,725.32	$55.50	$0.45	$2.33	$58.28	2.1%	0.0%	0.1%	2.2%
100	30,000	$2,223.26	$2,805.00	$209.51	$5,237.77	$2,334.06	$2,805.90	$214.17	$5,354.13	$110.80	$0.90	$4.66	$116.36	2.1%	0.0%	0.1%	2.2%
150	45,000	$3,288.66	$4,207.50	$312.34	$7,808.50	$3,454.76	$4,208.85	$319.32	$7,982.93	$166.10	$1.35	$6.98	$174.43	2.1%	0.0%	0.1%	2.2%

		(1) Present Rates	(2) Proposed Rates
Customer Charge		$135.00	$145.00
RE Growth Factor		$11.85	$11.85
LIHEAP Charge		$0.81	$0.81
Transmission Demand Charge	kW x	$4.37	$4.37
Transmission Energy Charge	kWh x	$0.01096	$0.01097
Base Distribution Demand Charge-xcs 10 kW	kW x	$4.85	$6.50
CapEx Factor	kW x	$0.67	$0.00
Base Distribution Energy Charge	kWh x	$0.00468	$0.00422
Other Distribution Energy Charges	kWh x	$0.00344	$0.00430
Transition Energy Charge	kWh x	$0.00057	$0.00057
Energy Efficiency Program Charge	kWh x	$0.01154	$0.01154
Renewable Energy Distribution Charge	kWh x	$0.00687	$0.00688
Gross Earnings Tax		4%	4%
Standard Offer Charge	kWh x	$0.09350	$0.09353

(1) Workpaper HSG-5 (REV-1), Page 4, Column (a)
(2) Workpaper HSG-5 (REV-1), Page 4, Column (b)

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No.4770
Schedule HSG-5-D1 (REV-1)
Sheet 1 of 1

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed Rates
Rates Applicable to G-02 Rate Customers, 400 Hours of Use

Hours Use: 400

Monthly Power		Rates Effective November 1, 2017				Proposed Rates				Increase (Decrease)							
										$				% of Total Bill			
kW	kWh	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
20	8,000	$594.74	$748.00	$55.95	$1,398.69	$617.90	$748.24	$56.92	$1,423.06	$23.16	$0.24	$0.97	$24.37	1.7%	0.0%	0.1%	1.7%
50	20,000	$1,348.16	$1,870.00	$134.09	$3,352.25	$1,405.76	$1,870.60	$136.52	$3,412.88	$57.60	$0.60	$2.43	$60.63	1.7%	0.0%	0.1%	1.8%
100	40,000	$2,603.86	$3,740.00	$264.33	$6,608.19	$2,718.86	$3,741.20	$269.17	$6,729.23	$115.00	$1.20	$4.84	$121.04	1.7%	0.0%	0.1%	1.8%
150	60,000	$3,859.56	$5,610.00	$394.57	$9,864.13	$4,031.96	$5,611.80	$401.82	$10,045.58	$172.40	$1.80	$7.25	$181.45	1.7%	0.0%	0.1%	1.8%

		(1) Present Rates	(2) Proposed Rates
Customer Charge		$135.00	$145.00
RE Growth Factor		$11.85	$11.85
LIHEAP Charge		$0.81	$0.81
Transmission Demand Charge	kW x	$4.37	$4.37
Transmission Energy Charge	kWh x	$0.01096	$0.01097
Base Distribution Demand Charge-xcs 10 kW	kW x	$4.85	$6.50
CapEx Factor	kW x	$0.67	$0.00
Base Distribution Energy Charge	kWh x	$0.00468	$0.00422
Other Distribution Energy Charges	kWh x	$0.00344	$0.00430
Transition Energy Charge	kWh x	$0.00057	$0.00057
Energy Efficiency Program Charge	kWh x	$0.01154	$0.01154
Renewable Energy Distribution Charge	kWh x	$0.00687	$0.00688
Gross Earnings Tax		4%	4%
Standard Offer Charge	kWh x	$0.09350	$0.09353

(1) Workpaper HSG-5 (REV-1), Page 4, Column (a)
(2) Workpaper HSG-5 (REV-1), Page 4, Column (b)

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No.4770
Schedule HSG-5-D2 (REV-1)
Sheet 1 of 1

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed Rates
Rates Applicable to G-02 Rate Customers, 500 Hours of Use

Hours Use: 500

Monthly Power		Rates Effective November 1, 2017				Proposed Rates				Increase (Decrease)							
										$				% of Total Bill			
kW	kWh	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
20	10,000	$670.86	$935.00	$66.91	$1,672.77	$694.86	$935.30	$67.92	$1,698.08	$24.00	$0.30	$1.01	$25.31	1.4%	0.0%	0.1%	1.5%
50	25,000	$1,538.46	$2,337.50	$161.50	$4,037.46	$1,598.16	$2,338.25	$164.02	$4,100.43	$59.70	$0.75	$2.52	$62.97	1.5%	0.0%	0.1%	1.6%
100	50,000	$2,984.46	$4,675.00	$319.14	$7,978.60	$3,103.66	$4,676.50	$324.17	$8,104.33	$119.20	$1.50	$5.03	$125.73	1.5%	0.0%	0.1%	1.6%
150	75,000	$4,430.46	$7,012.50	$476.79	$11,919.75	$4,609.16	$7,014.75	$484.33	$12,108.24	$178.70	$2.25	$7.54	$188.49	1.5%	0.0%	0.1%	1.6%

		(1) Present Rates	(2) Proposed Rates
Customer Charge		$135.00	$145.00
RE Growth Factor		$11.85	$11.85
LIHEAP Charge		$0.81	$0.81
Transmission Demand Charge	kW x	$4.37	$4.37
Transmission Energy Charge	kWh x	$0.01096	$0.01097
Base Distribution Demand Charge-xcs 10 kW	kW x	$4.85	$6.50
CapEx Factor	kW x	$0.67	$0.00
Base Distribution Energy Charge	kWh x	$0.00468	$0.00422
Other Distribution Energy Charges	kWh x	$0.00344	$0.00430
Transition Energy Charge	kWh x	$0.00057	$0.00057
Energy Efficiency Program Charge	kWh x	$0.01154	$0.01154
Renewable Energy Distribution Charge	kWh x	$0.00687	$0.00688
Gross Earnings Tax		4%	4%
Standard Offer Charge	kWh x	$0.09350	$0.09353

(1) Workpaper HSG-5 (REV-1), Page 4, Column (a)
(2) Workpaper HSG-5 (REV-1), Page 4, Column (b)

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No.4770
Schedule HSG-5-D3 (REV-1)
Sheet 1 of 1

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed Rates
Rates Applicable to G-02 Rate Customers, 600 Hours of Use

Hours Use: 600

Monthly Power		Rates Effective November 1, 2017				Proposed Rates				Increase (Decrease)							
										$				% of Total Bill			
kW	kWh	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
20	12,000	$746.98	$1,122.00	$77.87	$1,946.85	$771.82	$1,122.36	$78.92	$1,973.10	$24.84	$0.36	$1.05	$26.25	1.3%	0.0%	0.1%	1.3%
50	30,000	$1,728.76	$2,805.00	$188.91	$4,722.67	$1,790.56	$2,805.90	$191.52	$4,787.98	$61.80	$0.90	$2.61	$65.31	1.3%	0.0%	0.1%	1.4%
100	60,000	$3,365.06	$5,610.00	$373.96	$9,349.02	$3,488.46	$5,611.80	$379.18	$9,479.44	$123.40	$1.80	$5.22	$130.42	1.3%	0.0%	0.1%	1.4%
150	90,000	$5,001.36	$8,415.00	$559.02	$13,975.38	$5,186.36	$8,417.70	$566.84	$14,170.90	$185.00	$2.70	$7.82	$195.52	1.3%	0.0%	0.1%	1.4%

		(1) Present Rates	(2) Proposed Rates
Customer Charge		$135.00	$145.00
RE Growth Factor		$11.85	$11.85
LIHEAP Charge		$0.81	$0.81
Transmission Demand Charge	kW x	$4.37	$4.37
Transmission Energy Charge	kWh x	$0.01096	$0.01097
Base Distribution Demand Charge-xcs 10 kW	kW x	$4.85	$6.50
CapEx Factor	kW x	$0.67	$0.00
Base Distribution Energy Charge	kWh x	$0.00468	$0.00422
Other Distribution Energy Charges	kWh x	$0.00344	$0.00430
Transition Energy Charge	kWh x	$0.00057	$0.00057
Energy Efficiency Program Charge	kWh x	$0.01154	$0.01154
Renewable Energy Distribution Charge	kWh x	$0.00687	$0.00688
Gross Earnings Tax		4%	4%
Standard Offer Charge	kWh x	$0.09350	$0.09353

(1) Workpaper HSG-5 (REV-1), Page 4, Column (a)
(2) Workpaper HSG-5 (REV-1), Page 4, Column (b)

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No.4770
Schedule HSG-5-D4 (REV-1)
Sheet 1 of 1

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed Rates
Rates Applicable to G-32 / Former G-62 Rate Customers, 200 Hours of Use

Hours Use: 200

Monthly Power		Rates Effective November 1, 2017				Proposed Rates				Increase (Decrease)							
										$				% of Total Bill			
kW	kWh	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
200	40,000	$3,419.07	$2,576.00	$249.79	$6,244.86	$3,738.36	$2,577.20	$263.15	$6,578.71	$319.29	$1.20	$13.36	$333.85	5.1%	0.0%	0.2%	5.3%
750	150,000	$12,737.17	$9,660.00	$933.22	$23,330.39	$13,445.86	$9,664.50	$962.93	$24,073.29	$708.69	$4.50	$29.71	$742.90	3.0%	0.0%	0.1%	3.2%
1,000	200,000	$16,972.67	$12,880.00	$1,243.86	$31,096.53	$17,858.36	$12,886.00	$1,281.02	$32,025.38	$885.69	$6.00	$37.16	$928.85	2.8%	0.0%	0.1%	3.0%
1,500	300,000	$25,443.67	$19,320.00	$1,865.15	$46,628.82	$26,683.36	$19,329.00	$1,917.18	$47,929.54	$1,239.69	$9.00	$52.03	$1,300.72	2.7%	0.0%	0.1%	2.8%
2,500	500,000	$42,385.67	$32,200.00	$3,107.74	$77,693.41	$44,333.36	$32,215.00	$3,189.52	$79,737.88	$1,947.69	$15.00	$81.78	$2,044.47	2.5%	0.0%	0.1%	2.6%

		Present G-32 Rates (1)	Proposed G-32 Rates (2)
Customer Charge		$825.00	$1,100.00
RE Growth Factor		$86.86	$107.55
LIHEAP Charge		$0.81	$0.81
Transmission Demand Charge	kW x	$4.69	$4.43
Transmission Energy Charge	kWh x	$0.01123	$0.01206
Base Distribution Demand Charge - > 200 kW	kW x	$3.70	$5.00
CapEx Factor - > 200 kW	kW x	$0.71	$0.00
Base Distribution Energy Charge	kWh x	$0.00551	$0.00567
Other Distribution Energy Charges	kWh x	$0.00349	$0.00438
Transition Energy Charge	kWh x	$0.00057	$0.00057
Energy Efficiency Program Charge	kWh x	$0.01154	$0.01154
Renewable Energy Distribution Charge	kWh x	$0.00687	$0.00688
Gross Earnings Tax		4%	4%
Standard Offer Charge	kWh x	$0.06440	$0.06443

(1) Workpaper HSG-5 (REV-1), Page 5, Column (a)
(2) Workpaper HSG-5 (REV-1), Page 5, Column (b)

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No.4770
Schedule HSG-5-E (REV-1)
Sheet 1 of 1

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed Rates
Rates Applicable to G-32 / Former G-62 Rate Customers, 300 Hours of Use

Hours Use: 300

Monthly Power		Rates Effective November 1, 2017				Proposed Rates				Increase (Decrease)							
										$				% of Total Bill			
kW	kWh	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
200	60,000	$4,203.27	$3,864.00	$336.14	$8,403.41	$4,560.36	$3,865.80	$351.09	$8,777.25	$357.09	$1.80	$14.95	$373.84	4.2%	0.0%	0.2%	4.4%
750	225,000	$15,677.92	$14,490.00	$1,257.00	$31,424.92	$16,528.36	$14,496.75	$1,292.71	$32,317.82	$850.44	$6.75	$35.71	$892.90	2.7%	0.0%	0.1%	2.8%
1,000	300,000	$20,893.67	$19,320.00	$1,675.57	$41,889.24	$21,968.36	$19,329.00	$1,720.72	$43,018.08	$1,074.69	$9.00	$45.15	$1,128.84	2.6%	0.0%	0.1%	2.7%
1,500	450,000	$31,325.17	$28,980.00	$2,512.72	$62,817.89	$32,848.36	$28,993.50	$2,576.74	$64,418.60	$1,523.19	$13.50	$64.02	$1,600.71	2.4%	0.0%	0.1%	2.5%
2,500	750,000	$52,188.17	$48,300.00	$4,187.01	$104,675.18	$54,608.36	$48,322.50	$4,288.79	$107,219.65	$2,420.19	$22.50	$101.78	$2,544.47	2.3%	0.0%	0.1%	2.4%

		Present G-32 Rates (1)	Proposed G-32 Rates (2)
Customer Charge		$825.00	$1,100.00
RE Growth Factor		$86.86	$107.55
LIHEAP Charge		$0.81	$0.81
Transmission Demand Charge	kW x	$4.69	$4.43
Transmission Energy Charge	kWh x	$0.01123	$0.01206
Base Distribution Demand Charge - > 200 kW	kW x	$3.70	$5.00
CapEx Factor - > 200 kW	kW x	$0.71	$0.00
Base Distribution Energy Charge	kWh x	$0.00551	$0.00567
Other Distribution Energy Charges	kWh x	$0.00349	$0.00438
Transition Energy Charge	kWh x	$0.00057	$0.00057
Energy Efficiency Program Charge	kWh x	$0.01154	$0.01154
Renewable Energy Distribution Charge	kWh x	$0.00687	$0.00688
Gross Earnings Tax		4%	4%
Standard Offer Charge	kWh x	$0.06440	$0.06443

(1) Workpaper HSG-5 (REV-1), Page 5, Column (a)
(2) Workpaper HSG-5 (REV-1), Page 5, Column (b)

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No.4770
Schedule HSG-5-E1 (REV-1)
Sheet 1 of 1

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed Rates
Rates Applicable to G-32 / Former G-62 Rate Customers, 400 Hours of Use

Hours Use: 400

Monthly Power		Rates Effective November 1, 2017				Proposed Rates				Increase (Decrease)							
										$				% of Total Bill			
kW	kWh	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
200	80,000	$4,987.47	$5,152.00	$422.48	$10,561.95	$5,382.36	$5,154.40	$439.03	$10,975.79	$394.89	$2.40	$16.55	$413.84	3.7%	0.0%	0.2%	3.9%
750	300,000	$18,618.67	$19,320.00	$1,580.78	$39,519.45	$19,610.86	$19,329.00	$1,622.49	$40,562.35	$992.19	$9.00	$41.71	$1,042.90	2.5%	0.0%	0.1%	2.6%
1,000	400,000	$24,814.67	$25,760.00	$2,107.28	$52,681.95	$26,078.36	$25,772.00	$2,160.43	$54,010.79	$1,263.69	$12.00	$53.15	$1,328.84	2.4%	0.0%	0.1%	2.5%
1,500	600,000	$37,206.67	$38,640.00	$3,160.28	$79,006.95	$39,013.36	$38,658.00	$3,236.31	$80,907.67	$1,806.69	$18.00	$76.03	$1,900.72	2.3%	0.0%	0.1%	2.4%
2,500	1,000,000	$61,990.67	$64,400.00	$5,266.28	$131,656.95	$64,883.36	$64,430.00	$5,388.06	$134,701.42	$2,892.69	$30.00	$121.78	$3,044.47	2.2%	0.0%	0.1%	2.3%

		Present G-32 Rates (1)	Proposed G-32 Rates (2)
Customer Charge		$825.00	$1,100.00
RE Growth Factor		$86.86	$107.55
LIHEAP Charge		$0.81	$0.81
Transmission Demand Charge	kW x	$4.69	$4.43
Transmission Energy Charge	kWh x	$0.01123	$0.01206
Base Distribution Demand Charge - > 200 kW	kW x	$3.70	$5.00
CapEx Factor - > 200 kW	kW x	$0.71	$0.00
Base Distribution Energy Charge	kWh x	$0.00551	$0.00567
Other Distribution Energy Charges	kWh x	$0.00349	$0.00438
Transition Energy Charge	kWh x	$0.00057	$0.00057
Energy Efficiency Program Charge	kWh x	$0.01154	$0.01154
Renewable Energy Distribution Charge	kWh x	$0.00687	$0.00688
Gross Earnings Tax		4%	4%
Standard Offer Charge	kWh x	$0.06440	$0.06443

(1) Workpaper HSG-5 (REV-1), Page 5, Column (a)
(2) Workpaper HSG-5 (REV-1), Page 5, Column (b)

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No.4770
Schedule HSG-5-E2 (REV-1)
Sheet 1 of 1

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed Rates
Rates Applicable to G-32 / Former G-62 Rate Customers, 500 Hours of Use

Hours Use: 500

Monthly Power		Rates Effective November 1, 2017				Proposed Rates				Increase (Decrease)							
										$				% of Total Bill			
kW	kWh	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
200	100,000	$5,771.67	$6,440.00	$508.82	$12,720.49	$6,204.36	$6,443.00	$526.97	$13,174.33	$432.69	$3.00	$18.15	$453.84	3.4%	0.0%	0.1%	3.6%
750	375,000	$21,559.42	$24,150.00	$1,904.56	$47,613.98	$22,693.36	$24,161.25	$1,952.28	$48,806.89	$1,133.94	$11.25	$47.72	$1,192.91	2.4%	0.0%	0.1%	2.5%
1,000	500,000	$28,735.67	$32,200.00	$2,538.99	$63,474.66	$30,188.36	$32,215.00	$2,600.14	$65,003.50	$1,452.69	$15.00	$61.15	$1,528.84	2.3%	0.0%	0.1%	2.4%
1,500	750,000	$43,088.17	$48,300.00	$3,807.84	$95,196.01	$45,178.36	$48,322.50	$3,895.87	$97,396.73	$2,090.19	$22.50	$88.03	$2,200.72	2.2%	0.0%	0.1%	2.3%
2,500	1,250,000	$71,793.17	$80,500.00	$6,345.55	$158,638.72	$75,158.36	$80,537.50	$6,487.33	$162,183.19	$3,365.19	$37.50	$141.78	$3,544.47	2.1%	0.0%	0.1%	2.2%

		Present G-32 Rates (1)	Proposed G-32 Rates (2)
Customer Charge		$825.00	$1,100.00
RE Growth Factor		$86.86	$107.55
LIHEAP Charge		$0.81	$0.81
Transmission Demand Charge	kW x	$4.69	$4.43
Transmission Energy Charge	kWh x	$0.01123	$0.01206
Base Distribution Demand Charge - > 200 kW	kW x	$3.70	$5.00
CapEx Factor - > 200 kW	kW x	$0.71	$0.00
Base Distribution Energy Charge	kWh x	$0.00551	$0.00567
Other Distribution Energy Charges	kWh x	$0.00349	$0.00438
Transition Energy Charge	kWh x	$0.00057	$0.00057
Energy Efficiency Program Charge	kWh x	$0.01154	$0.01154
Renewable Energy Distribution Charge	kWh x	$0.00687	$0.00688
Gross Earnings Tax		4%	4%
Standard Offer Charge	kWh x	$0.06440	$0.06443

(1) Workpaper HSG-5 (REV-1), Page 5, Column (a)
(2) Workpaper HSG-5 (REV-1), Page 5, Column (b)

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No.4770
Schedule HSG-5-E3 (REV-1)
Sheet 1 of 1

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed Rates
Rates Applicable to G-32 / Former G-62 Rate Customers, 600 Hours of Use

Hours Use: 600

Monthly Power		Rates Effective November 1, 2017				Proposed Rates				Increase (Decrease)							
										$				% of Total Bill			
kW	kWh	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
200	120,000	$6,555.87	$7,728.00	$595.16	$14,879.03	$7,026.36	$7,731.60	$614.92	$15,372.88	$470.49	$3.60	$19.76	$493.85	3.2%	0.0%	0.1%	3.3%
750	450,000	$24,500.17	$28,980.00	$2,228.34	$55,708.51	$25,775.86	$28,993.50	$2,282.06	$57,051.42	$1,275.69	$13.50	$53.72	$1,342.91	2.3%	0.0%	0.1%	2.4%
1,000	600,000	$32,656.67	$38,640.00	$2,970.69	$74,267.36	$34,298.36	$38,658.00	$3,039.85	$75,996.21	$1,641.69	$18.00	$69.16	$1,728.85	2.2%	0.0%	0.1%	2.3%
1,500	900,000	$48,969.67	$57,960.00	$4,455.40	$111,385.07	$51,343.36	$57,987.00	$4,555.43	$113,885.79	$2,373.69	$27.00	$100.03	$2,500.72	2.1%	0.0%	0.1%	2.2%
2,500	1,500,000	$81,595.67	$96,600.00	$7,424.82	$185,620.49	$85,433.36	$96,645.00	$7,586.60	$189,664.96	$3,837.69	$45.00	$161.78	$4,044.47	2.1%	0.0%	0.1%	2.2%

		Present G-32 Rates (1)	Proposed G-32 Rates (2)
Customer Charge		$825.00	$1,100.00
RE Growth Factor		$86.86	$107.55
LIHEAP Charge		$0.81	$0.81
Transmission Demand Charge	kW x	$4.69	$4.43
Transmission Energy Charge	kWh x	$0.01123	$0.01206
Base Distribution Demand Charge - > 200 kW	kW x	$3.70	$5.00
CapEx Factor - > 200 kW	kW x	$0.71	$0.00
Base Distribution Energy Charge	kWh x	$0.00551	$0.00567
Other Distribution Energy Charges	kWh x	$0.00349	$0.00438
Transition Energy Charge	kWh x	$0.00057	$0.00057
Energy Efficiency Program Charge	kWh x	$0.01154	$0.01154
Renewable Energy Distribution Charge	kWh x	$0.00687	$0.00688
Gross Earnings Tax		4%	4%
Standard Offer Charge	kWh x	$0.06440	$0.06443

(1) Workpaper HSG-5 (REV-1), Page 5, Column (a)
(2) Workpaper HSG-5 (REV-1), Page 5, Column (b)

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No.4770
Schedule HSG-5-E4 (REV-1)
Sheet 1 of 1

The Narragansett Electric Company
Calculation of Monthly Typical Bill
Total Bill Impact of Proposed Rates
Rates Applicable to G-62 Rate Customers Transferring to G-32

Monthly Power		G-62 Rates Effective November 1, 2017				G-32 Proposed Rates				Increase (Decrease) $				Increase (Decrease) % of Total Bill			
kW	kWh	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
8,129	4,393,558	$241,005	$282,945	$21,831	$545,781	$257,436	$283,077	$22,521	$563,034	$16,431	$132	$690	$17,253	3.0%	0.0%	0.1%	3.2%
14,888	7,689,290	$412,420	$495,190	$37,817	$945,427	$456,629	$495,421	$39,669	$991,719	$44,209	$231	$1,852	$46,291	4.7%	0.0%	0.2%	4.9%
11,828	6,040,116	$328,996	$388,983	$29,916	$747,895	$359,990	$389,165	$31,215	$780,370	$30,995	$181	$1,299	$32,475	4.1%	0.0%	0.2%	4.3%
10,615	5,313,608	$293,237	$342,196	$26,476	$661,910	$318,701	$342,356	$27,544	$688,601	$25,464	$159	$1,068	$26,691	3.8%	0.0%	0.2%	4.0%
7,618	343,890	$87,274	$22,147	$4,559	$113,980	$86,175	$22,157	$4,514	$112,846	($1,099)	$10	($45)	($1,134)	(1.0%)	0.0%	(0.0%)	(1.0%)
6,906	3,830,594	$211,231	$246,690	$19,080	$477,001	$222,773	$246,805	$19,566	$489,144	$11,542	$115	$486	$12,143	2.4%	0.0%	0.1%	2.5%
6,060	1,989,712	$136,862	$128,137	$11,042	$276,041	$139,127	$128,197	$11,138	$278,462	$2,264	$60	$97	$2,421	0.8%	0.0%	0.0%	0.9%
4,771	2,449,635	$144,490	$157,756	$12,594	$314,840	$145,877	$157,830	$12,654	$316,361	$1,387	$73	$61	$1,521	0.4%	0.0%	0.0%	0.5%
3,375	1,481,599	$98,442	$95,415	$8,077	$201,935	$92,925	$95,459	$7,849	$196,234	($5,517)	$44	($228)	($5,701)	(2.7%)	0.0%	(0.1%)	(2.8%)
2,915	933,454	$74,785	$60,114	$5,621	$140,520	$66,063	$60,142	$5,259	$131,464	($8,721)	$28	($362)	($9,056)	(6.2%)	0.0%	(0.3%)	(6.4%)
2,504	1,296,338	$85,224	$83,484	$7,030	$175,738	$77,101	$83,523	$6,693	$167,316	($8,124)	$39	($337)	($8,422)	(4.6%)	0.0%	(0.2%)	(4.8%)
448	178,298	$28,800	$11,482	$1,678	$41,961	$11,757	$11,488	$969	$24,213	($17,043)	$5	($710)	($17,748)	(40.6%)	0.0%	(1.7%)	(42.3%)
154	34,286	$21,325	$2,208	$981	$24,514	$3,072	$2,209	$220	$5,502	($18,253)	$1	($760)	($19,012)	(74.5%)	0.0%	(3.1%)	(77.6%)

		G-62 (1) Present Rates	G-32 (2) Proposed Rates
Customer Charge		$17,000.00	$1,100.00
RE Growth Factor		$1,928.08	$107.55
LIHEAP Charge		$0.81	$0.81
Transmission Demand Charge	kW x	$3.40	$4.43
Transmission Energy Charge	kWh x	$0.01524	$0.01206
Base Distribution Demand Charge - > 200 kW	kW x	$2.99	$5.00
O&M kW Charge	kW x	$0.36	$0.00
CapEx Factor - > 200 kW	kWh x	$0.55	$0.00
Base Distribution Energy Charge	kWh x	$0.00	$0.00567
Other Distribution Energy Charges	kWh x	$0.00282	$0.00438
Transition Energy Charge	kWh x	$0.00057	$0.00057
Energy Efficiency Program Charge	kWh x	$0.01154	$0.01154
Renewable Energy Distribution Charge	kWh x	$0.00687	$0.00688
Gross Earnings Tax		4%	4%
Standard Offer Charge	kWh x	$0.06440	$0.06443

(1) Workpaper HSG-5 (REV-1), Page 6, Column (a)
(2) Workpaper HSG-5 (REV-1), Page 6, Column (b)

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No.4770
Schedule HSG-5-E5 (REV-1)
Sheet 1 of 1

The Narragansett Electric Company
Streetlights Annual Bill Impacts

Line	Luminaire/ Standard Type	Lumens Description	Annual kWh	Current Lum / Std Price	RE Growth Charge	Current Annual Revenue	Proposed Current Lum / Std Price	Proposed Annual Revenue	Annual Bill Impact	Annual % Impact
						Per kWh $0.16361		Per kWh $0.15030		
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
1	Incan-descent	LUM INC RWY 105W	443	$77.43	$4.68	$154.59	$81.49	$152.75	($1.84)	(1.2%)
2		LUM INC RWY 205W (S-14 Only)	860	$77.43	$4.68	$222.81	$81.49	$215.43	($7.39)	(3.3%)
3										
4	Mercury Vapor	LUM MV RWY 100W	543	$78.06	$4.68	$171.58	$85.53	$171.82	$0.24	0.1%
5		LUM MV RWY 175W	881	$78.06	$4.68	$226.88	$85.53	$222.62	($4.26)	(1.9%)
6		LUM MV RWY 250W (S-14 Only)	1,282	$120.39	$4.68	$334.82	$139.19	$336.55	$1.74	0.5%
7		LUM MV RWY 400W	1,991	$163.46	$4.68	$493.89	$192.39	$496.32	$2.43	0.5%
8		LUM MV RWY 1000W	4,572	$163.46	$4.68	$916.16	$192.39	$884.24	($31.92)	(3.5%)
9		LUM MV FLD 400W	1,991	$181.37	$4.68	$511.80	$220.43	$524.36	$12.56	2.5%
10		LUM MV FLD 1000W	4,572	$181.37	$4.68	$934.07	$220.43	$912.28	($21.79)	(2.3%)
11		LUM MV POST 175W (S-14 Only)	881	$156.80	$4.68	$305.62	$164.69	$301.78	($3.84)	(1.3%)
12										
13	High Pressure Sodium Vapor Fixtures	LUM HPS RWY 50W	255	$77.43	$4.68	$123.83	$81.49	$124.50	$0.67	0.5%
14		LUM HPS RWY 70W	359	$76.91	$4.68	$140.33	$82.45	$141.09	$0.76	0.5%
15		LUM HPS RWY 100W	493	$78.06	$4.68	$163.40	$85.53	$164.31	$0.91	0.6%
16		LUM HPS RWY 150W	722	$78.58	$4.68	$201.39	$89.33	$202.53	$1.14	0.6%
17		LUM HPS RWY 250W	1,269	$120.39	$4.68	$332.69	$139.19	$334.60	$1.91	0.6%
18		LUM HPS RWY 400W	1,962	$163.46	$4.68	$489.14	$192.39	$491.96	$2.82	0.6%
19		WALL HPS 250W 24 HR	2,663	$172.21	$4.68	$612.58	$211.22	$616.15	$3.57	0.6%
20		LUM HPS FLD 250W	1,269	$146.11	$4.68	$358.41	$165.05	$360.46	$2.05	0.6%
21		LUM HPS FLD 400W	2,663	$181.37	$4.68	$621.74	$220.43	$625.36	$3.62	0.6%
22		LUM HPS POST 50W	255	$155.49	$4.68	$201.89	$159.98	$202.99	$1.10	0.5%
23		LUM HPS POST 100W	493	$156.80	$4.68	$242.14	$164.69	$243.47	$1.33	0.5%
24		LUM HPS REC 100W-C1	493	$98.99	$4.68	$184.33	$106.57	$185.35	$1.02	0.6%
25										
26	Metal Halide	LUM MH FLD 400W	1,883	$181.37	$4.68	$494.13	$209.27	$496.96	$2.84	0.6%
27		LUM MH FLD 1000W	4,502	$181.37	$4.68	$922.62	$246.72	$928.05	$5.43	0.6%
28										
29	Light Emitting Diode	LED RWY 20W	88	$90.61	$4.68	$109.69	$93.07	$110.98	$1.29	1.2%
30		LED RWY 30W	130	$89.77	$4.68	$115.72	$94.60	$118.82	$3.10	2.7%
31		LED RWY 60W	255	$99.15	$4.68	$145.55	$101.47	$144.48	($1.07)	(0.7%)
32		LED RWY 140W	589	$155.03	$4.68	$256.08	$134.57	$227.78	($28.30)	(11.1%)
33		LED RWY 275W	1,153	$198.27	$4.68	$391.59	$199.44	$377.42	($14.18)	(3.6%)
34		LED POST Top 60W	255	$147.69	$4.68	$194.09	$160.98	$203.99	$9.90	5.1%
35										
36	Temporary Turn-Off	LUM INC RWY 105W TT	N/A	$46.46	$4.68	$51.14	$43.52	$48.20	($2.94)	(5.7%)
37		LUM MV RWY 400W TT	N/A	$98.08	$4.68	$102.76	$102.00	$106.68	$3.92	3.8%
38		LUM HPS RWY 50W TT	N/A	$46.46	$4.68	$51.14	$43.52	$48.20	($2.94)	(5.7%)
39		LUM HPS RWY 70W TT	N/A	$46.15	$4.68	$50.83	$44.03	$48.71	($2.12)	(4.2%)
40		LUM HPS RWY 100W TT	N/A	$46.84	$4.68	$51.52	$45.68	$50.36	($1.16)	(2.3%)
41		LUM HPS RWY 250W TT	N/A	$72.23	$4.68	$76.91	$74.34	$79.02	$2.11	2.7%
42		LUM HPS RWY 400W TT	N/A	$98.08	$4.68	$102.76	$102.75	$107.43	$4.67	4.5%
43		LUM HPS POST 100W TT	N/A	$94.08	$4.68	$98.76	$87.96	$92.64	($6.12)	(6.2%)
44		LUM HPS FLD 250W TT	N/A	$87.67	$4.68	$92.35	$88.15	$92.83	$0.48	0.5%
45		LUM HPS FLD 400W TT	N/A	$108.82	$4.68	$113.50	$117.73	$122.41	$8.91	7.9%
46		LUM MH FLD 400W TT	N/A	$108.82	$4.68	$113.50	$111.77	$116.45	$2.95	2.6%
47										

The Narragansett Electric Company
Streetlights Annual Bill Impacts

Line	Luminaire/ Standard Type	Lumens Description	Annual kWh	Current Lum / Std Price	RE Growth Charge	Current Annual Revenue	Proposed Current Lum / Std Price	Proposed Annual Revenue	Annual Bill Impact	Annual % Impact
						Per kWh $0.16361		Per kWh $0.15030		
48	Standards	POLE-WOOD		$133.71			$134.43	$134.43	$0.72	0.5%
49		POLE FIBER PT EMB <25' w/out foundation		$260.22			$261.63	$261.63	$1.41	0.5%
50		POLE FIBER RWY <25 w/ foundation		$424.14			$426.44	$426.44	$2.30	0.5%
51		POLE FIBER RWY => 25 w/ foundation		$473.53			$476.10	$476.10	$2.57	0.5%
52		POLE METAL=>25FT (with foundation)		$484.72			$487.35	$487.35	$2.63	0.5%
53		POLE METAL EMBEDDED (S-14 Only)		$405.16			$407.35	$407.35	$2.19	0.5%
54										
55	S-06 (Decorative) Lumaire	DEC HPS WL 100W	493	$325.30	$4.68	$410.64	$269.55	$348.33	($62.31)	(19.2%)
56										
57	S-06 Standards	DEC VILL PT/FDN		$566.70	$4.68	$571.38	$357.23	$361.91	($209.47)	(37.0%)
58		DEC WASH PT/FDN		$575.78	$4.68	$580.46	$472.37	$477.05	($103.41)	(18.0%)
59										
60										
61	S-5 Energy Rate	Includes all rate components				$0.19015		$0.18674	($0.00341)	(1.8%)

Column Description:

(a) - (b) per current tariff R.I.P.U.C. 2095, Sheet 3
(d) & (g) per current tariff R.I.P.U.C. 2095 $0.39 per luminaire x 12
(e) per kWh rate per Workpaper HSG-5 (REV-1) Page 7, Column (a)
Column (b) x per kWh rate + Column (c) + Column (d)
S-5 Energy Rate per Workpaper HSG-5 (REV-1), Page 8 Column (a)
(f) Schedule HSG-4-J
(h) per kWh rate per Workpaper HSG-5 (REV-1) Page 7, Column (b)
S-5 Energy Rate per Workpaper HSG-5 (REV-1), Page 8 Column (b)
(j) Column (i) / Column (e)

Street and Area Lighting Replacement Cost Study for Decorative and Light Emitting Diode (LED) Lighting

Index

	Page
Summary of Luminaire and Standard Cost	1
Allocation of O&M	2
Lamp Replacement Cost	3
Carrying Charge per Unit	4
Annual Carrying Charge	5
A&G Expense	6
Labor Overhead, Materials Overhead, Engineering Overheads, and Transportation/Equipment Costs	7
Materials Purchase Price as of November 2017	8
Replacement Cost Study	9 - 31

The Narragansett Electric Company
Street and Area Lighting Replacement Cost Study
Summary of Luminaire and Standard Cost

	Luminaire/Pole Description	Lumen Size	Input Wattage (KW)	Burning Hours (Annual)	Annual kWh (Including Photo Cell)	Annual Lamp Replacement Cost (Materials)	Annual Photo Cell Replacement (Material)	Annual Labor & Equipment Cost	Allocation of O&M	Allocation of Administrative & General	Total O&M	Carrying Charge	Total Cost
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
	Luminaires:												
(1)	DEC HPS TR 50W	4,000	0.06107784	4,175	257	$1.19	$0.51	$18.45	$9.37	$25.83	$55.35	$106.16	$161.51
(2)	DEC HPS TR 100W	9,600	0.11808383	4,175	495	$1.19	$0.51	$18.45	$18.04	$25.83	$64.02	$106.40	$170.42
(3)	DEC HPS AG 50W	4,000	0.06107784	4,175	257	$1.19	$0.51	$18.45	$9.37	$25.83	$55.35	$177.40	$232.75
(4)	DEC HPS AG 100W	9,600	0.11808383	4,175	495	$1.19	$0.51	$18.45	$18.04	$25.83	$64.02	$169.12	$233.14
(5)	DEC HPS WL 50W	4,000	0.06107784	4,175	257	$1.19	$0.51	$18.45	$9.37	$25.83	$55.35	$202.26	$257.61
(6)	DEC HPS WL 100W	9,600	0.11808383	4,175	495	$1.19	$0.51	$18.45	$18.04	$25.83	$64.02	$205.53	$269.55
(7)	DEC HPS TR-TW 50W	4,000	0.12215569	4,175	512	$2.39	$0.51	$19.65	$18.66	$27.51	$68.72	$292.06	$360.78
(8)	DEC HPS TR-TW 100W	9,600	0.23616766	4,175	988	$2.39	$0.51	$19.65	$36.00	$27.51	$86.06	$292.53	$378.59
(9)	DEC HPS AG-TW 50W	4,000	0.12215569	4,175	512	$2.39	$0.51	$19.65	$18.66	$27.51	$68.72	$434.55	$503.27
(10)	DEC HPS AG-TW 100W	9,600	0.23616766	4,175	988	$2.39	$0.51	$19.65	$36.00	$27.51	$86.06	$417.98	$504.04
(11)	DEC HPS WL-TW 50W	4,000	0.12215569	4,175	512	$2.39	$0.51	$19.65	$18.66	$27.51	$68.72	$484.25	$552.97
(12)	DEC HPS WL-TW 100W	9,600	0.23616766	4,175	988	$2.39	$0.51	$19.65	$36.00	$27.51	$86.06	$490.79	$576.85
(13)	LED RWY 20W	2,000	0.02107784	4,175	90	$0.00	$0.00	$10.80	$3.28	$15.12	$29.20	$63.87	$93.07
(14)	LED RWY 30W	3,300	0.03113772	4,175	132	$0.00	$0.00	$10.80	$4.81	$15.12	$30.73	$63.87	$94.60
(15)	LED RWY 60W	5,000	0.06107784	4,175	257	$0.00	$0.00	$10.80	$9.37	$15.12	$35.29	$66.18	$101.47
(16)	LED RWY 140W	9,900	0.14107784	4,175	591	$0.00	$0.00	$10.80	$21.54	$15.12	$47.46	$87.11	$134.57
(17)	LED RWY 275W	25,000	0.27616766	4,175	1,155	$0.00	$0.00	$10.80	$42.09	$15.12	$68.01	$131.43	$199.44
(18)	LED Post Top 60W	5,000	0.06107784	4,175	257	$0.00	$0.00	$10.80	$9.37	$15.12	$35.29	$125.69	$160.98
(19)	DEC LED TW Post Top 60W	5,000	0.12215569	4,175	512	$0.00	$0.00	$10.80	$18.66	$15.12	$44.58	$315.23	$359.81
	Poles:												
(20)	DEC VILL PT/FDN	-	-	-	-	-	-	-	-	-	$0.00	$357.23	$357.23
(21)	DEC WASH PT/FDN	-	-	-	-	-	-	-	-	-	$0.00	$472.37	$472.37

(a) streetlight standards
(b) per Page 2, Column (c)
(c) per Page 2, Line (4)
(d) Column (b) x Column (c), rounded to zero decimal places, plus Photo Cell annual kWhs on Page 2, Column (e)
(e) per Page 3, Column (e)
(f) per Page 3, Column (e)
(g) luminaire annual labor & equipment cost per page 3, Column (g) + photo cell annual labor & equipment cost per page 3, Column (g)
(h) per Page 2, Column (h)
(i) luminaire annual A&G expense per page 3, Column (j) + photo cell annual A&G expense per page 3, Column (j)
(j) Sum of Columns (e) through (i)
(k) per Page 4, Column (c)
(l) Column (j) + Column (k)

The Narragansett Electric Company
Allocation of O&M

SECTION I: Calculation of Photo Cell Annual kWh

(1)	Total Annual Days	365
(2)	24 Burning Hours per Day	24
(3)	Burning Hours for WALL HPS 250W 24 HR	8,760
(4)	Fisher-Pierce Burning Hour Study/Luminaire Burning Hours for All Other Luminaires	4,175
(5)	Photo Cell Burning Hours	4,585
(6)	Wattage	0.0005
(7)	Photocell Annual kWhs (all luminaires)	2

SECTION II: Calculation of Luminaire kWhs and O&M Cost per Luminaire

	Luminaire Description (a)	Annual Burning Hours (b)	Wattage (c)	Luminaire Annual kWh (d)	Photo Cell Annual kWh (e)	Total Annual kWh (f)	O&M Cost Cost per kWh (g)	O&M Cost per Unit (h)
(8)	DEC HPS TR 50W	4,175	0.061	255	2	257	$0.03644	$9.37
(9)	DEC HPS TR 100W	4,175	0.118	493	2	495	$0.03644	$18.04
(10)	DEC HPS AG 50W	4,175	0.061	255	2	257	$0.03644	$9.37
(11)	DEC HPS AG 100W	4,175	0.118	493	2	495	$0.03644	$18.04
(12)	DEC HPS WL 50W	4,175	0.061	255	2	257	$0.03644	$9.37
(13)	DEC HPS WL 100W	4,175	0.118	493	2	495	$0.03644	$18.04
(14)	DEC HPS TR-TW 50W	4,175	0.122	510	2	512	$0.03644	$18.66
(15)	DEC HPS TR-TW 100W	4,175	0.236	986	2	988	$0.03644	$36.00
(16)	DEC HPS AG-TW 50W	4,175	0.122	510	2	512	$0.03644	$18.66
(17)	DEC HPS AG-TW 100W	4,175	0.236	986	2	988	$0.03644	$36.00
(18)	DEC HPS WL-TW 50W	4,175	0.122	510	2	512	$0.03644	$18.66
(19)	DEC HPS WL-TW 100W	4,175	0.236	986	2	988	$0.03644	$36.00
(20)	LED RWY 20W	4,175	0.021	88	2	90	$0.03644	$3.28
(21)	LED RWY 30W	4,175	0.031	130	2	132	$0.03644	$4.81
(22)	LED RWY 60W	4,175	0.061	255	2	257	$0.03644	$9.37
(23)	LED RWY 140W	4,175	0.141	589	2	591	$0.03644	$21.54
(24)	LED RWY 275W	4,175	0.276	1153	2	1,155	$0.03644	$42.09
(25)	LED Post Top 60W	4,175	0.061	255	2	257	$0.03644	$9.37
(26)	DEC LED TW Post Top 60W	4,175	0.122	510	2	512	$0.03644	$18.66

(1) No. of days per year
(2) No. of hours per day
(3) Line (1) x Line (2)
(4) Fisher-Pierce Burning Hour Study
(5) Line (30 - Line (4)
(6) Streetlighting standards
(7) Line (5) x Line (6)

(a) luminaire description
(b) per Section I, Line (4)
(c) Streetlighting standards
(d) Column (b) x Column (c), rounded to zero decimal places
(e) per Section I, Line (7)
(f) Column (d) + (e)
(g) per Schedule HSG-1C-3 (REV-1), Sheet 6 of 6, line 202
(h) Column (f) x Column (g), rounded to two decimal places

The Narragansett Electric Company
Lamp Replacement Cost

Luminaire Description (a)	Luminaire Short Name Description (b)	Lamp Replacement Cost (c)	Life Multiplier (years) (d)	Annual Material Cost (e)	Labor & Equipment Replacement Cost (f)	Annual Labor & Equipment Cost (g)	Total Annual Labor & Material Costs (h)	A&G Percentage (i)	A&G Expense (j)
(1) Lumen HPS Decorative Post Top 4,000 (50W)	DEC HPS TR 50W	$6.80	5.7	$1.19	$95.49	$16.75	$17.94	140.02%	$25.12
(2) Lumen HPS Decorative Post Top 9,600 (100W)	DEC HPS TR 100W	$6.80	5.7	$1.19	$95.49	$16.75	$17.94	140.02%	$25.12
(3) Lumen HPS Decorative Post Top 4,000 (50W)	DEC HPS AG 50W	$6.80	5.7	$1.19	$95.49	$16.75	$17.94	140.02%	$25.12
(4) Lumen HPS Decorative Post Top 9,600 (100W)	DEC HPS AG 100W	$6.80	5.7	$1.19	$95.49	$16.75	$17.94	140.02%	$25.12
(5) Lumen HPS Decorative Post Top 4,000 (50W)	DEC HPS WL 50W	$6.80	5.7	$1.19	$95.49	$16.75	$17.94	140.02%	$25.12
(6) Lumen HPS Decorative Post Top 9,600 (100W)	DEC HPS WL 100W	$6.80	5.7	$1.19	$95.49	$16.75	$17.94	140.02%	$25.12
(7) Lumen HPS Decorative Post Top - Twin 4,000 (50W)	DEC HPS TR-TW 50W	$13.60	5.7	$2.39	$95.49	$16.75	$19.14	140.02%	$26.80
(8) Lumen HPS Decorative Post Top - Twin 9,600 (100W)	DEC HPS TR-TW 100W	$13.60	5.7	$2.39	$95.49	$16.75	$19.14	140.02%	$26.80
(9) Lumen HPS Decorative Post Top - Twin 4,000 (50W)	DEC HPS AG-TW 50W	$13.60	5.7	$2.39	$95.49	$16.75	$19.14	140.02%	$26.80
(10) Lumen HPS Decorative Post Top - Twin 9,600 (100W)	DEC HPS AG-TW 100W	$13.60	5.7	$2.39	$95.49	$16.75	$19.14	140.02%	$26.80
(11) Lumen HPS Decorative Post Top - Twin 4,000 (50W)	DEC HPS WL-TW 50W	$13.60	5.7	$2.39	$95.49	$16.75	$19.14	140.02%	$26.80
(12) Lumen HPS Decorative Post Top - Twin 9,600 (100W)	DEC HPS WL0-TW 100W	$13.60	5.7	$2.39	$95.49	$16.75	$19.14	140.02%	$26.80
(13) Light Emitting Diode Roadway 2,000 Lumen (20W)	LED RWY 20W	$0.00	n/a	$0.00	$0.00	$0.00	$0.00	140.02%	$0.00
(14) Light Emitting Diode Roadway 3,300 Lumen (30W)	LED RWY 30W	$0.00	n/a	$0.00	$0.00	$0.00	$0.00	140.02%	$0.00
(15) Light Emitting Diode Roadway 5,000 Lumen (60W)	LED RWY 60W	$0.00	n/a	$0.00	$0.00	$0.00	$0.00	140.02%	$0.00
(16) Light Emitting Diode Roadway 9,900 Lumen (140W)	LED RWY 140W	$0.00	n/a	$0.00	$0.00	$0.00	$0.00	140.02%	$0.00
(17) Light Emitting Diode Roadway 25,000 Lumen (275W)	LED RWY 275W	$0.00	n/a	$0.00	$0.00	$0.00	$0.00	140.02%	$0.00
(18) Light Emitting Diode Post Top 5,000 Lumen (60W)	LED Post Top 60W	$0.00	n/a	$0.00	$0.00	$0.00	$0.00	140.02%	$0.00
(19) Light Emitting Diode Decorative Post Top 5,000 Lumen (60W)	DEC LED TW Post Top 60W	$0.00	n/a	$0.00	$0.00	$0.00	$0.00	140.02%	$0.00
(20) Photo Cell (non-LED)	Photo Cell (non-LED)	$2.93	5.7	$0.51	$0.00	$0.00	$0.51	140.02%	$0.71
(21) Photo Cell (LED)	Photo Cell (LED)	$12.50	10.0	$1.25	$95.49	$9.55	$10.80	140.02%	$15.12

(c) lamp material cost per Replacement Cost Studies, pages 9 through 31
(d) Streetlighting Standards
(e) Column (c) ÷ Column (d) rounded to 2 decimal places
(f) Page 23
(g) Column (f) ÷ Column (d)
(h) Column (e) + Column (g)
(i) Administrative & General Costs as a percentage of O&M Costs per page 6, Line (5)
(j) Column (h) x Column (i) rounded to two places

The Narragansett Electric Company
Carrying Charge per Unit

	Luminaire/Standard Short Description	Replacement Installed Cost (a)	Replacement Cost Study Page No.	Carrying Charge Rate (b)	Carrying Charge per Unit (c)
	High Pressure Sodium Vapor - Post Tops:				
(1)	DEC HPS TR 50W	$716.77	9	14.81%	$106.16
(2)	DEC HPS TR 100W	$718.37	10	14.81%	$106.40
(3)	DEC HPS AG 50W	$1,197.81	11	14.81%	$177.40
(4)	DEC HPS AG 100W	$1,141.89	12	14.81%	$169.12
(5)	DEC HPS WL 50W	$1,365.60	13	14.81%	$202.26
(6)	DEC HPS WL 100W	$1,387.68	14	14.81%	$205.53
(7)	DEC HPS TR-TW 50W	$1,971.93	15	14.81%	$292.06
(8)	DEC HPS TR-TW 100W	$1,975.10	16	14.81%	$292.53
(9)	DEC HPS AG-TW 50W	$2,934.01	17	14.81%	$434.55
(10)	DEC HPS AG-TW 100W	$2,822.15	18	14.81%	$417.98
(11)	DEC HPS WL-TW 50W	$3,269.58	19	14.81%	$484.25
(12)	DEC HPS WL-TW 100W	$3,313.73	20	14.81%	$490.79
	Light Emitting Diode				
(13)	LED RWY 20W	$431.23	24	14.81%	$63.87
(14)	LED RWY 30W	$431.23	25	14.81%	$63.87
(15)	LED RWY 60W	$446.83	26	14.81%	$66.18
(16)	LED RWY 140W	$588.15	27	14.81%	$87.11
(17)	LED RWY 275W	$887.37	28	14.81%	$131.43
(18)	LED Post Top 60W	$848.67	29	14.81%	$125.69
(19)	DEC LED TW Post Top 60W	$2,128.39	30	14.81%	$315.23
	Poles:				
(20)	DEC VILL PT/FDN	$2,411.94	21	14.81%	$357.23
(21)	DEC WASH PT/FDN	$3,189.40	22	14.81%	$472.37

(a) Plant Addition per Replacement Cost Study on pages 9 through 30
(b) per Page 5, Line (5)
(c) Column (a) x Column (b), rounded to two decimal places

The Narragansett Electric Company
Annual Carrying Charge

		Capital Structure	Cost Rate	Weighted Return
(1)	Capital Costs:			
	Long Term Debt	48.47%	4.690%	2.27%
	Short Term Debt	0.45%	1.760%	0.01%
	Preferred Stock(COP)	0.11%	4.500%	0.00%
	Common Equity (COC)	50.97%	10.100%	5.15%
	Total	100.00%		7.43%

		Rate	Formula	
(2)	Income Taxes:			
	Federal (FIT)	21.00%	((COP) + COC)/(1 - 0.21) * 0.21) = FIT	1.36%
(3)	Depreciation Expense			4.00%
		Expense	Average Depreciable Plant in Service	
(4)	Property Taxes	$30,530,258	$1,513,907,000	2.02%
(5)	Total Carrying Charge			14.81%

(1) Overall Cost of Capital per Cost of Service
(2) see formula
(3) Straight-line depreciation rate for the 25 year life of streetlights
(4) Municipal Property Tax Expense Schedule HSG-1B (REV-1), page 5 of 6, line 139 (Total); Plant in Service Schedule HSG-1B (REV-1) Sheet 1 of 6, line 24
(5) Sum of Lines (1) through (4)

The Narragansett Electric Company
A&G Expense

(1)	Total Distribution O&M Expense		$45,024,000
(2)	Administrative & General Expense	$87,729,000	
(3)	Employee Benefits	$24,688,000	
(4)	A&G Expense Excluding Benefits		$63,041,000
(5)	Percentage Allocation for A&G Expense		140.02%

(1) Schedule HSG-1B (REV-1), Sheet 3 of 6, line 88
(2) Schedule HSG-1B (REV-1), Sheet 4 of 6, line 118
(3) Schedule HSG-1B (REV-1), Sheet 4 of 6, line 113
(4) Line (2) - Line (3)
(5) Line (4) ÷ Line (1), rounded to 4 decimal places

Crew Protection, and Transportation/Equipment Cost
Engineering Study Data
Labor Overhead, Materials Overhead, Engineering Overheads,
and Transportation/Equipment Costs

	Labor Overhead:	
(1)	Benefits, Insurance, & Taxes	59.44%
(2)	Bonus Accrual	4.50%
(3)	Time Not Worked	18.56%
(4)	Total Labor Overhead	82.50%
(5)	Supervision & Admin (Standard Rate)	29.67%
	Materials Overhead	
(6)	Stores Handling	23.25%
	Engineering Overheads:	
(7)	Capital O & H	13.00%
(8)	Crew Protection (police detail) - hourly cost	$59.51
(9)	Transportation Hourly Rate	$10.22

(1)-(4)	Test Year July 1 2016-June 30 2017 average Monthly Allocation Percentages
(5)	Sum of Line 1 through 4
(6)	Test Year July 1 2016-June 30 2017 average Monthly Allocation Percentages
(7)	Test Year July 1 2016-June 30 2017 average Monthly Allocation Percentages
(9)	per current 2017 S.T.O.R.M. estimates

Materials Purchase Price as of November 2017

	Material ID No.	Unit of Measure	Material Description		Unit Price 2017
(1)	5105296	EA	ARM, TWIN, AL, 30 IN, POST TOP LUMINAIRE, BLACK	arm	$388.05
(2)	0811027	EA	BRACKET FLOODLIGHT AL 30IN SINGLE	Bracket	$88.00
(3)	0811030	EA	BRACKET PENDANT UPSWEEP SINGLE AL 6FT	Bracket	$70.87
(4)	0811029	EA	BRACKET PENDANT UPSWEEP SINGLE AL 8FT	Bracket	$39.45
(5)	3503328	EA	CLAMP, GROUND ROD, CU, FOR 5/8IN. DIA GROUND ROD	clamp	$1.11
(6)	3503073	EA	CLAMP, GROUND, CONDUIT, NO 4 - 4/10, 1-1IN - 2IN IPS	clamp	$15.40
(7)	5105197	EA	CONNECTOR, ST LIGHT, #14 AWG TO #2 AWG, AL OR CU	connector	$11.30
(8)	5963930	EA	CONNECTOR, VISE, 4 AWG SOLID OR 5 AWG, AL OR CU	connector	$1.90
(9)	0811057	ES	CONTROL, PELEC, 120-300VAC, 1000W, BLUE, TWISTLOCK	control	$12.50
(10)	0811055	EA	CONTROL, PELEC, 120VAC, 1000W, GRAY, TWISTLOCK	control	$2.93
(11)	5821035	EA	FOUNDATION, LTG, 24IN X 24 IN X 5FT, 11 1/2IN BC, PRCST	foundation	$389.96
(12)	5105198	EA	HOLDER, FUSE, ST LIGHT, #6- #2 AWG, COND	holder	$5.12
(13)	5824615	EA	LAMP, HPS, NON-CYCLING, 50W, MOGUL SCREW BASE, CLEAR	lamp	$6.80
(14)	0801867	EA	LAMP, HID, METAL HALIDE, 400W, MOGUL SCREW BASE, CLEAR	lamp	$8.00
(15)	2508100	EA	LAMP, HPS, NON-CYCLING, 100W, CLEAR, MOGUL BASE	lamp	$6.80
(16)	2508150	EA	LAMP, HPS, NON-CYCLING, 150W, CLEAR, MOGUL BASE	lamp	$6.80
(17)	2508250	EA	LAMP, HPS, NON-CYCLING, 250W, CLEAR, MOGUL BASE	lamp	$8.05
(18)	2508400	EA	LAMP, HPS, NON-CYCLING, 400W, CLEAR, MOGUL BASE	lamp	$9.00
(19)	2508070	EA	LAMP, HPS, NON-CYCLING, 70W, CLEAR, MOGUL BASE	lamp	$6.80
(20)	0811060	EA	LUMINAIRE, FLOODLIGHT, 250W, HPS, 120V, REG BLST	luminaire	$130.18
(21)	0811061	EA	LUMINAIRE, FLOODLIGHT, 400W, HPS, 120V, REG BLST	luminaire	$133.43
(22)	9202149	EA	LUMINAIRE, FLOODLIGHT, 400W, MH, 120V, REG BLST	luminaire	$125.00
(23)	5821438	EA	LUMINAIRE, HORIZONTAL ROADWAY SEMI-CUTOFF II GRAY 50W	luminaire	$69.18
(24)	0810946	EA	LUMINAIRE, POST TOP, 100W HPS, WILLIAMSVILLE, REG BLST	luminaire	$614.00
(25)	9202342	EA	LUMINAIRE, POST TOP, ASPEN GROVE, 50W HPS, 120V, BLACK	luminaire	$485.00
(26)	2507081	EA	LUMINAIRE, POST TOP, IES III, BLK, HPS, REG, 100W, ASPE	luminaire	$447.00
(27)	5821461	EA	LUMINAIRE, POST TOP, SEMI-CUTOFF III, SEMI-GLOSS BLK,	luminaire	$158.17
(28)	0811079	EA	LUMINAIRE, POST TOP, TRADITIONAL, 100W, HPS, REAC BLST	luminaire	$159.25
(29)	n/a	EA	LUMINAIRE, POST TOP, TRADITIONAL, 60W, LED	luminaire	$460.00
(30)	9202343	EA	LUMINAIRE, POST TOP, WILLIAMSVILLE, 50W HPS, 120V, BLAC	luminaire	$599.00
(31)	0811070	EA	LUMINAIRE, ROADWAY, MSC, IES II, GRAY, NPF REA, 150W	luminaire	$56.11
(32)	0811069	EA	LUMINAIRE, ROADWAY, MSC, IES II, HPS, NPF REA, 100W	luminaire	$69.18
(33)	0811068	EA	LUMINAIRE, ROADWAY, MSC, IES II, HPS, NPF REA, 70W	luminaire	$69.18
(34)	n/a	EA	LUMINAIRE, ROADWAY, MSC, IES II, LED, 20W	luminaire	$103.88
(35)	n/a	EA	LUMINAIRE, ROADWAY, MSC, IES II, LED, 30W	luminaire	$103.88
(36)	n/a	EA	LUMINAIRE, ROADWAY, MSC, IES II, LED, 60W	luminaire	$114.48
(37)	0811066	EA	LUMINAIRE, ROADWAY, MSC, IES III, GRAY, NPF REA, 150W	luminaire	$72.76
(38)	0811071	EA	LUMINAIRE, ROADWAY, MSC, IES III, HPS, AUGO, 250W	luminaire	$85.21
(39)	0811067	EA	LUMINAIRE, ROADWAY, MSC, IES III, HPS, AUGO, 250W	luminaire	$77.50
(40)	0811065	EA	LUMINAIRE, ROADWAY, MSC, IES III, HPS, NPF REA, 100W	luminaire	$68.32
(41)	0810168	EA	LUMINAIRE, ROADWAY, MSC, IES III, HPS, NPF REA, 70W	luminaire	$69.18
(42)	n/a	EA	LUMINAIRE, ROADWAY, MSC, IES III, LED, 140W	luminaire	$185.50
(43)	n/a	EA	LUMINAIRE, ROADWAY, MSC, IES III, LED, 275W	luminaire	$388.80
(44)	0811083	EA	LUMINAIRE, UNDERPASS, 250W, HPS, 120V	luminaire	$344.00
(45)	2507400	EA	LUMINAIRE, ROADWAY, MSC, IES III 400W, HPS, AUTO REG	luminaire	$101.27
(46)	9201842	EA	POLE, DÉCOR. VILLAGER, ALUM, ANCHOR BASE W/ ATTACHED T-	pole	$685.77
(47)	5106587	EA	POLE, LIGHT, FBRGL, 24FT, 5IN X 5IN SQ SFT	pole	$455.74
(48)	5100004	EA	POLE, LT, FBRGL, AHR BASE, PENDANT, 25FT MOUNTING	pole	$674.49
(49)	5970305	EA	POLE, PWR, DISTR, 30FT, CL5, SYP, PENTA FINISH	pole	$127.54
(50)	5104882	EA	POLE, ST LT, 14FT LG, ALUM, BLACK, WASHINGTON STYLE	pole	$1,214.00
(51)	5821834	EA	POLE, ST LT, ALUM, 35FT, PENDANT, ANCHOR BASE, PENDANT	pole	$885.00
(52)	5100003	EA	POLE, ST LT, FBRGL, 14FT, BLACK	pole	$259.00
(53)	3503013	EA	ROD, GROUND, SOLID, CU BONDED STL, 5/8IN X 8FT	rod	$9.94
(54)	9202616	FT	WIRE, 1/C, #10 AWG, 7-STRD, SD-CU,RHH/RHW/USE-2, GREEN	wire	$0.29
(55)	9202613	FT	WIRE, 1/C, #6 AWG, 7-STRD, SD-CU, RHH/RHW/USE-2, GREEN	wire	$0.47
(56)	9202617	FT	WIRE, 2/C, #10 AWG, 7-STRD, SD-CU, RHH/RHW/USE-2, BLK-W	wire	$0.38
(57)	4005142	FT	WIRE, GENERAL PURPOSE, CU, XHHW, 1C/NO. 10, WHITE, 500FT	wire	$0.22
(58)	5821440	EA	LUMINAIRE, HORIZ CO IES 3 REA 50W 120V	luminaire	

The Narragansett Electric Company
Replacement Cost Study

Installed 4,000 Lumen (50W)
High Pressure Sodium Vapor Decorative Post Top
DEC HPS TR 50W
Rate Class S-06

	ID. No.	Description	Quantity	Unit Cost	Extended Cost
	Materials				
(1)	0811055	CONTROL, PELEC, 120VAC, 1000W, GRAY, TWISTLOCK	1	$2.93	$2.93
(2)	5824615	LAMP, HPS, NON-CYCLING, 50W, MOGUL SCREW BASE, CLEAR	1	$6.80	$6.80
(3)	5821461	LUMINAIRE, POST TOP, SEMI-CUTOFF III, SEMI-GLOSS BLK,	1	$158.17	$158.17
(4)	9202613	WIRE, 1/C, #6 AWG, 7-STRD, SD-CU, RHH/RHW/USE-2, GREEN	25	$0.47	$11.75
(5)	9202617	WIRE, 2/C, #10 AWG, 7-STRD, SD-CU, RHH/RHW/USE-2, BLK-W	21	$0.38	$7.94
(6)		Total Materials			$187.59
				Sales Tax @ 7%	$13.13
	Material Overheads				
(7)		Stores Handling	$187.59	23.25%	$43.61
(8)		Total Materials and Material Overheads			$244.33
	Installation				
(9)	Labor & Equipment				$403.68
(10)	Total Material and Labor				$648.01
(11)	Capital O & H		$528.91	13.00%	$68.76
(12)	PLANT ADDITION				$716.77

The Narragansett Electric Company
Replacement Cost Study

Installed 9,600 Lumen (100W)
High Pressure Sodium Vapor Decorative Post Top
DEC HPS TR 100W
Rate Class S-06

	ID. No.	Description	Quantity	Unit Cost	Extended Cost
	Materials				
(1)	0811055	CONTROL, PELEC, 120VAC, 1000W, GRAY, TWISTLOCK	1	$2.93	$2.93
(2)	2508100	LAMP, HPS, NON-CYCLING, 100W, CLEAR, MOGUL BASE	1	$6.80	$6.80
(3)	0811079	LUMINAIRE, POST TOP, TRADITIONAL, 100W, HPS, REAC BLST	1	$159.25	$159.25
(4)	9202613	WIRE, 1/C, #6 AWG, 7-STRD, SD-CU, RHH/RHW/USE-2, GREEN	25	$0.47	$11.75
(5)	9202617	WIRE, 2/C, #10 AWG, 7-STRD, SD-CU, RHH/RHW/USE-2, BLK-W	21	$0.38	$7.94
(6)		Total Materials			$188.67
				Sales Tax @ 7%	$13.21
	Material Overheads				
(7)		Stores Handling	$188.67	23.25%	$43.87
(8)		Total Materials and Material Overheads			$245.75
	Installation				
(9)	Labor & Equipment				$403.68
(10)	Total Material and Labor				$649.43
(11)	Capital O & H		$530.33	13.00%	$68.94
(12)	PLANT ADDITION				$718.37

The Narragansett Electric Company
Replacement Cost Study

Installed 4,000 Lumen (50W)
High Pressure Sodium Vapor Decorative Post Top
DEC HPS AG 50W
Rate Class S-06

	ID. No.	Description	Quantity	Unit Cost	Extended Cost
	Materials				
(1)	0811055	CONTROL, PELEC, 120VAC, 1000W, GRAY, TWISTLOCK	1	$2.93	$2.93
(2)	5824615	LAMP, HPS, NON-CYCLING, 50W, MOGUL SCREW BASE, CLEAR	1	$6.80	$6.80
(3)	9202342	LUMINAIRE, POST TOP, ASPEN GROVE, 50W HPS, 120V, BLACK	1	$485.00	$485.00
(4)	9202613	WIRE, 1/C, #6 AWG, 7-STRD, SD-CU, RHH/RHW/USE-2, GREEN	25	$0.47	$11.75
(5)	9202617	WIRE, 2/C, #10 AWG, 7-STRD, SD-CU, RHH/RHW/USE-2, BLK-W	21	$0.38	$7.94
(6)		Total Materials			$514.42
				Sales Tax @ 7%	$36.01
	Material Overheads				
(7)		Stores Handling	$514.42	23.25%	$119.60
(8)		Total Materials and Material Overheads			$670.03
	Installation				
(9)	Labor & Equipment				$403.68
(10)	Total Material and Labor				$1,073.71
(11)	Capital O & H		$954.61	13.00%	$124.10
(12)	PLANT ADDITION				$1,197.81

The Narragansett Electric Company
Replacement Cost Study

Installed 9,600 Lumen (100W)
High Pressure Sodium Vapor Decorative Post Top
DEC HPS AG 100W
Rate Class S-06

	ID. No.	Description	Quantity	Unit Cost	Extended Cost
	Materials				
(1)	0811055	CONTROL, PELEC, 120VAC, 1000W, GRAY, TWISTLOCK	1	$2.93	$2.93
(2)	2508100	LAMP, HPS, NON-CYCLING, 100W, CLEAR, MOGUL BASE	1	$6.80	$6.80
(3)	2507081	LUMINAIRE, POST TOP, IES III, BLK, HPS, REG, 100W, ASPE	1	$447.00	$447.00
(4)	9202613	WIRE, 1/C, #6 AWG, 7-STRD, SD-CU, RHH/RHW/USE-2, GREEN	25	$0.47	$11.75
(5)	9202617	WIRE, 2/C, #10 AWG, 7-STRD, SD-CU, RHH/RHW/USE-2, BLK-W	21	$0.38	$7.94
(6)		Total Materials			$476.42
				Sales Tax @ 7%	$33.35
	Material Overheads				
(7)		Stores Handling	$476.42	23.25%	$110.77
(8)		Total Materials and Material Overheads			$620.54
	Installation				
(9)	Labor & Equipment				$403.68
(10)	Total Material and Labor				$1,024.22
(11)	Capital O & H		$905.12	13.00%	$117.67
(12)	PLANT ADDITION				$1,141.89

The Narragansett Electric Company
Replacement Cost Study

Installed 4,000 Lumen (50W)
High Pressure Sodium Vapor Decorative Post Top
DEC HPS WL 50W
Rate Class S-06

	ID. No.	Description	Quantity	Unit Cost	Extended Cost
	Materials				
(1)	0811055	CONTROL, PELEC, 120VAC, 1000W, GRAY, TWISTLOCK	1	$2.93	$2.93
(2)	5824615	LAMP, HPS, NON-CYCLING, 50W, MOGUL SCREW BASE, CLEAR	1	$6.80	$6.80
(3)	9202343	LUMINAIRE, POST TOP, WILLIAMSVILLE, 50W HPS, 120V, BLAC	1	$599.00	$599.00
(4)	9202613	WIRE, 1/C, #6 AWG, 7-STRD, SD-CU, RHH/RHW/USE-2, GREEN	25	$0.47	$11.75
(5)	9202617	WIRE, 2/C, #10 AWG, 7-STRD, SD-CU, RHH/RHW/USE-2, BLK-W	21	$0.38	$7.94
(6)		Total Materials			$628.42
				Sales Tax @ 7%	$43.99
	Material Overheads				
(7)		Stores Handling	$628.42	23.25%	$146.11
(8)		Total Materials and Material Overheads			$818.52
	Installation				
(9)	Labor & Equipment				$403.68
(10)	Total Material and Labor				$1,222.20
(11)	Capital O & H		$1,103.10	13.00%	$143.40
(12)	PLANT ADDITION				$1,365.60

The Narragansett Electric Company
Replacement Cost Study

Installed 9,600 Lumen (100W)
High Pressure Sodium Vapor Decorative Post Top
DEC HPS WL 100W
Rate Class S-06

	ID. No.	Description	Quantity	Unit Cost	Extended Cost
	Materials				
(1)	0811055	CONTROL, PELEC, 120VAC, 1000W, GRAY, TWISTLOCK	1	$2.93	$2.93
(2)	2508100	LAMP, HPS, NON-CYCLING, 100W, CLEAR, MOGUL BASE	1	$6.80	$6.80
(3)	0810946	LUMINAIRE, POST TOP, 100W HPS, WILLIAMSVILLE, REG BLST	1	$614.00	$614.00
(4)	9202613	WIRE, 1/C, #6 AWG, 7-STRD, SD-CU, RHH/RHW/USE-2, GREEN	25	$0.47	$11.75
(5)	9202617	WIRE, 2/C, #10 AWG, 7-STRD, SD-CU, RHH/RHW/USE-2, BLK-W	21	$0.38	$7.94
(6)		Total Materials			$643.42
				Sales Tax @ 7%	$45.04
	Material Overheads				
(7)		Stores Handling	$643.42	23.25%	$149.60
(8)		Total Materials and Material Overheads			$838.06
	Installation				
(9)	Labor & Equipment				$403.68
(10)	Total Material and Labor				$1,241.74
(11)	Capital O & H		$1,122.64	13.00%	$145.94
(12)	PLANT ADDITION				$1,387.68

The Narragansett Electric Company
Replacement Cost Study

Installed 4,000 Lumen (50W)
High Pressure Sodium Vapor Decorative Post Top - Twin
DEC HPS TR-TW 50W
Rate Class S-06

	ID. No.	Description	Quantity	Unit Cost	Extended Cost
	Materials				
(1)	5105296	ARM, TWIN, AL, 30 IN, POST TOP LUMINAIRE, BLACK	1	$388.05	$388.05
(2)	5105197	CONNECTOR, ST LIGHT, #14 AWG TO #2 AWG, AL OR CU	1	$11.30	$11.30
(3)	0811055	CONTROL, PELEC, 120VAC, 1000W, GRAY, TWISTLOCK	2	$2.93	$5.86
(4)	5105198	HOLDER, FUSE, ST LIGHT, #6- #2 AWG, COND	1	$5.12	$5.12
(5)	5824615	LAMP, HPS, NON-CYCLING, 50W, MOGUL SCREW BASE, CLEAR	2	$6.80	$13.60
(6)	5821461	LUMINAIRE, POST TOP, SEMI-CUTOFF III, SEMI-GLOSS BLK,	2	$158.17	$316.34
(7)	9202617	WIRE, 2/C, #10 AWG, 7-STRD, SD-CU, RHH/RHW/USE-2, BLK-W	32	$0.38	$12.12
(8)		Total Materials			$752.39
				Sales Tax @ 7%	$52.67
	Material Overheads				
(9)		Stores Handling	$752.39	23.25%	$174.93
(10)		Total Materials and Material Overheads			$979.99
	Installation				
(11)	Labor & Equipment				$792.48
(12)	Total Material and Labor				$1,772.47
(13)	Capital O & H		$1,534.28	13.00%	$199.46
(14)	PLANT ADDITION				$1,971.93

The Narragansett Electric Company
Replacement Cost Study

Installed 9,600 Lumen (100W)
High Pressure Sodium Vapor Decorative Post Top - Twin
DEC HPS TR-TW 100W
Rate Class S-06

	ID. No.	Description	Quantity	Unit Cost	Extended Cost
	Materials				
(1)	5105296	ARM, TWIN, AL, 30 IN, POST TOP LUMINAIRE, BLACK	1	$388.05	$388.05
(2)	5105197	CONNECTOR, ST LIGHT, #14 AWG TO #2 AWG, AL OR CU	1	$11.30	$11.30
(3)	0811055	CONTROL, PELEC, 120VAC, 1000W, GRAY, TWISTLOCK	2	$2.93	$5.86
(4)	5105198	HOLDER, FUSE, ST LIGHT, #6- #2 AWG, COND	1	$5.12	$5.12
(5)	2508100	LAMP, HPS, NON-CYCLING, 100W, CLEAR, MOGUL BASE	2	$6.80	$13.60
(6)	0811079	LUMINAIRE, POST TOP, TRADITIONAL, 100W, HPS, REAC BLST	2	$159.25	$318.50
(7)	9202617	WIRE, 2/C, #10 AWG, 7-STRD, SD-CU, RHH/RHW/USE-2, BLK-W	32	$0.38	$12.12
(8)		Total Materials			$754.55
				Sales Tax @ 7%	$52.82
	Material Overheads				
(9)		Stores Handling	$754.55	23.25%	$175.43
(10)		Total Materials and Material Overheads			$982.80
	Installation				
(11)	Labor & Equipment				$792.48
(12)	Total Material and Labor				$1,775.28
(13)	Capital O & H		$1,537.09	13.00%	$199.82
(14)	PLANT ADDITION				$1,975.10

The Narragansett Electric Company
Replacement Cost Study

Installed 4,000 Lumen (50W)
High Pressure Sodium Vapor Decorative Post Top - Twin
DEC HPS AG-TW 50W
Rate Class S-06

	ID. No.	Description	Quantity	Unit Cost	Extended Cost
	Materials				
(1)	5105296	Arm, Twin, Al, 30 In, Post Top Luminaire, Black	1	$388.05	$388.05
(2)	5105197	Connector, St Light, #14 Awg To #2 Awg, Al Or Cu	1	$11.30	$11.30
(3)	0811055	Control, Pelec, 120Vac, 1000W, Gray, Twistlock	2	$2.93	$5.86
(4)	5105198	Holder, Fuse, St Light, #6- #2 Awg, Cond	1	$5.12	$5.12
(5)	5824615	Lamp, Hps, Non-Cycling, 50W, Mogul Screw Base, Clear	2	$6.80	$13.60
(6)	9202342	Luminaire, Post Top, Aspen Grove, 50W Hps, 120V, Black	2	$485.00	$970.00
(7)	9202617	Wire, 2/C, #10 Awg, 7-Strd, Sd-Cu, Rhh/Rhw/Use-2, Blk-W	32	$0.38	$12.12
(8)		Total Materials			$1,406.05
				Sales Tax @ 7%	$98.42
	Material Overheads				
(9)		Stores Handling	$1,406.05	23.25%	$326.91
(10)		Total Materials and Material Overheads			$1,831.38
	Installation				
(11)	Labor & Equipment				$792.48
(12)	Total Material and Labor				$2,623.87
(13)	Capital O & H		$2,385.67	13.00%	$310.14
(14)	PLANT ADDITION				$2,934.01

The Narragansett Electric Company
Replacement Cost Study

Installed 9,600 Lumen (100W)
High Pressure Sodium Vapor Decorative Post Top - Twin
DEC HPS AG-TW 100W

Rate Class S-06

	ID. No.	Description	Quantity	Unit Cost	Extended Cost
	Materials				
(1)	5105296	Arm, Twin, Al, 30 In, Post Top Luminaire, Black	1	$388.05	$388.05
(2)	5105197	Connector, St Light, #14 Awg To #2 Awg, Al Or Cu	1	$11.30	$11.30
(3)	0811055	Control, Pelec, 120Vac, 1000W, Gray, Twistlock	2	$2.93	$5.86
(4)	5105198	Holder, Fuse, St Light, #6- #2 Awg, Cond	1	$5.12	$5.12
(5)	2508100	Lamp, Hps, Non-Cycling, 100W, Clear, Mogul Base	2	$6.80	$13.60
(6)	2507081	Luminaire, Post Top, Ies Iii, Blk, Hps, Reg, 100W, Aspe	2	$447.00	$894.00
(7)	9202617	Wire, 2/C, #10 Awg, 7-Strd, Sd-Cu, Rhh/Rhw/Use-2, Blk-W	32	$0.38	$12.12
(8)		Total Materials			$1,330.05
				Sales Tax @ 7%	$93.10
	Material Overheads				
(9)		Stores Handling	$1,330.05	23.25%	$309.24
(10)		Total Materials and Material Overheads			$1,732.39
	Installation				
(11)	Labor & Equipment				$792.48
(12)	Total Material and Labor				$2,524.88
(13)	Capital O & H		$2,286.68	13.00%	$297.27
(14)	PLANT ADDITION				$2,822.15

The Narragansett Electric Company
Replacement Cost Study

Installed 4,000 Lumen (50W)
High Pressure Sodium Vapor Decorative Post Top - Twin

DEC HPS WL-TW 50W
Rate Class S-06

	ID. No.	Description	Quantity	Unit Cost	Extended Cost
	Materials				
(1)	5105296	Arm, Twin, Al, 30 In, Post Top Luminaire, Black	1	$388.05	$388.05
(2)	5105197	Connector, St Light, #14 Awg To #2 Awg, Al Or Cu	1	$11.30	$11.30
(3)	0811055	Control, Pelec, 120Vac, 1000W, Gray, Twistlock	2	$2.93	$5.86
(4)	5105198	Holder, Fuse, St Light, #6- #2 Awg, Cond	1	$5.12	$5.12
(5)	5824615	Lamp, Hps, Non-Cycling, 50W, Mogul Screw Base, Clear	2	$6.80	$13.60
(6)	9202343	Luminaire, Post Top, Williamsville, 50W Hps, 120V, Blac	2	$599.00	$1,198.00
(7)	9202617	Wire, 2/C, #10 Awg, 7-Strd, Sd-Cu, Rhh/Rhw/Use-2, Blk-W	32	$0.38	$12.12
(8)		Total Materials			$1,634.05
				Sales Tax @ 7%	$114.38
	Material Overheads				
(9)		Stores Handling	$1,634.05	23.25%	$379.92
(10)		Total Materials and Material Overheads			$2,128.35
	Installation				
(11)	Labor & Equipment				$792.48
(12)	Total Material and Labor				$2,920.84
(13)	Capital O & H		$2,682.64	13.00%	$348.74
(14)	PLANT ADDITION				$3,269.58

The Narragansett Electric Company
Replacement Cost Study

Installed 9,600 Lumen (100W)
High Pressure Sodium Vapor Decorative Post Top - Twin

DEC HPS WL0-TW 100W
Rate Class S-06

	ID. No.	Description	Quantity	Unit Cost	Extended Cost
	Materials				
(1)	5105296	Arm, Twin, Al, 30 In, Post Top Luminaire, Black	1	$388.05	$388.05
(2)	5105197	Connector, St Light, #14 Awg To #2 Awg, Al Or Cu	1	$11.30	$11.30
(3)	0811055	Control, Pelec, 120Vac, 1000W, Gray, Twistlock	2	$2.93	$5.86
(4)	5105198	Holder, Fuse, St Light, #6- #2 Awg, Cond	1	$5.12	$5.12
(5)	2508100	Lamp, Hps, Non-Cycling, 100W, Clear, Mogul Base	2	$6.80	$13.60
(6)	0810946	Luminaire, Post Top, 100W Hps, Williamsville, Reg Blst	2	$614.00	$1,228.00
(7)	9202617	Wire, 2/C, #10 Awg, 7-Strd, Sd-Cu, Rhh/Rhw/Use-2, Blk-W	32	$0.38	$12.12
(8)		Total Materials			$1,664.05
				Sales Tax @ 7%	$116.48
	Material Overheads				
(9)		Stores Handling	$1,664.05	23.25%	$386.89
(10)		Total Materials and Material Overheads			$2,167.42
	Installation				
(11)	Labor & Equipment				$792.48
(12)	Total Material and Labor				$2,959.91
(13)	Capital O & H		$2,721.71	13.00%	$353.82
(14)	PLANT ADDITION				$3,313.73

The Narragansett Electric Company
Replacement Cost Study
Outdoor Lighting Overhead Poles and Underground Standards

Installed Standard
Underground Service Decorative Standard
DEC VILL PT/FDN
Rate Class S-06

	ID. No.	Description	Quantity	Unit Cost	Extended Cost
	Materials				
(1)	9201842	Pole, Décor. Villager, Alum, Anchor Base W/ Attached T-	1	$685.77	$685.77
(2)	9202617	Wire, 2/C, #10 Awg, 7-Strd, Sd-Cu, Rhh/Rhw/Use-2, Blk-W	21	$0.38	$7.94
(3)	3503328	Clamp, Ground Rod, Cu, For 5/8In. Dia Ground Rod	1	$1.11	$1.11
(4)	5821035	Foundation, Ltg, 24In X 24 In X 5Ft, 11 1/2In Bc, Prcst	1	$389.96	$389.96
(5)	3503013	Rod, Ground, Solid, Cu Bonded Stl, 5/8In X 8Ft	1	$9.94	$9.94
(6)	9202617	Wire, 2/C, #10 Awg, 7-Strd, Sd-Cu, Rhh/Rhw/Use-2, Blk-W	21	$0.38	$7.98
(7)	4005142	Wire, General Purpose, Cu, Xhhw, 1C/No. 10, White, 500Ft	18	$0.22	$3.96
(8)	9202616	Wire, 1/C, #10 Awg, 7-Strd, Sd-Cu,Rhh/Rhw/Use-2, Green	21	$0.29	$6.09
(9)	9202613	Wire, 1/C, #6 Awg, 7-Strd, Sd-Cu, Rhh/Rhw/Use-2, Green	10	$0.47	$4.70
(10)		Total Materials			$1,117.45
				Sales Tax @ 7%	$78.22
	Material Overheads				
(11)		Stores Handling	$1,117.45	23.25%	$259.81
(12)		Total Materials and Material Overheads			$1,455.48
	Installation				
(13)		Labor	3.38	$64.07	$216.56
(14)		Labor Overheads	$216.56	112.17%	$242.92
(15)		Transportation	3.38	$10.22	$34.55
(16)		Crew Protection	3.38	$59.51	$201.16
(17)		Total Labor and Equipment			$695.19
(18)		Total Material and Labor			$2,150.67
(19)	Capital O & H		$2,009.77	13.00%	$261.27
(20)	PLANT ADDITION				$2,411.94

The Narragansett Electric Company
Replacement Cost Study
Outdoor Lighting Overhead Poles and Underground Standards

Installed Standard
Underground Service Decorative Standard
DEC WASH PT/FDN
Rate Class S-06

	ID. No.	Description	Quantity	Unit Cost	Extended Cost
	Materials				
(1)	5104882	Pole, St Lt, 14Ft Lg, Alum, Black, Washington Style	1	$1,214.00	$1,214.00
(2)	9202617	Wire, 2/C, #10 Awg, 7-Strd, Sd-Cu, Rhh/Rhw/Use-2, Blk-W	20.9	$0.38	$7.94
(3)	3503328	Clamp, Ground Rod, Cu, For 5/8In. Dia Ground Rod	1	$1.11	$1.11
(4)	5821035	Foundation, Ltg, 24In X 24 In X 5Ft, 11 1/2In Bc, Prcst	1	$389.96	$389.96
(5)	3503013	Rod, Ground, Solid, Cu Bonded Stl, 5/8In X 8Ft	1	$9.94	$9.94
(6)	9202617	Wire, 2/C, #10 Awg, 7-Strd, Sd-Cu, Rhh/Rhw/Use-2, Blk-W	21	$0.38	$7.98
(7)	4005142	Wire, General Purpose, Cu, Xhhw, 1C/No. 10, White, 500Ft	18	$0.22	$3.96
(8)	9202616	Wire, 1/C, #10 Awg, 7-Strd, Sd-Cu,Rhh/Rhw/Use-2, Green	21	$0.29	$6.09
(9)	9202613	Wire, 1/C, #6 Awg, 7-Strd, Sd-Cu, Rhh/Rhw/Use-2, Green	10	$0.47	$4.70
(10)		Total Materials			$1,645.68
				Sales Tax @ 7%	$115.20
	Material Overheads				
(11)		Stores Handling	$1,645.68	23.25%	$382.62
(12)		Total Materials and Material Overheads			$2,143.50
	Installation				
(13)		Labor	3.38	$64.07	$216.56
(14)		Labor Overheads	$216.56	112.17%	$242.92
(15)		Transportation	3.38	$10.22	$34.55
(16)		Crew Protection	3.38	$59.51	$201.16
(17)		Total Labor and Equipment			$695.19
(18)		Total Material and Labor			$2,838.69
(19)	Capital O & H		$2,697.79	13.00%	$350.71
(20)	PLANT ADDITION				$3,189.40

The Narragansett Electric Company
Labor and Equipment Costs

	Initial Installation Cost-Single Fixture			**Subject to**
	Labor			
(1)	Labor - Hourly Rate	$64.16		
(2)	Installation & Travel Time (Minutes)	135		
(3)	Total Direct Labor		$144.36	$144.36
(4)	Design and Supervision	29.67%	$42.83	$42.83
(5)	ADD: Overhead Labor Cost	82.50%	$119.10	
(6)	Total Labor		$306.29	
	Equipment			
(7)	Truck-Aerial 45 ML OC	$10.22		
(8)	Installation & Travel Time (Minutes)	135		
(9)	Total Equipment		$23.00	$23.00
	Work Zone Protection/Police Detail			
(10)	Work Zone Protection/Police Detail	$59.51		
(11)	Installation & Travel Time (Minutes)	75		
(12)	Total Misc		$74.39	$74.39
(13)	Total Labor & Equipment Cost		$403.68	$284.58
	Initial Installation Cost-Twin Fixture			
	Labor			
(14)	Labor - Hourly Rate	$64.16		
(15)	Installation & Travel Time (Minutes)	270		
(16)	Total Direct Labor		$288.72	$288.72
(17)	Design and Supervision	29.67%	$85.66	$85.66
(18)	ADD: Overhead Labor Cost	82.50%	$238.19	
(19)	Total Labor		$612.58	
	Equipment			
(20)	Truck-Aerial 45 ML OC	$10.22		
(21)	Installation & Travel Time (Minutes)	270		
(22)	Total Equipment		$46.00	$46.00
	Work Zone Protection/Police Detail			
(23)	Work Zone Protection/Police Detail	$59.51		
(24)	Installation & Travel Time (Minutes)	135		
(25)	Total Misc		$133.91	$133.91
(26)	Total Labor & Equipment Cost		$792.48	$554.29
	Lamp/Photo Cell Replacement			
	Labor			
(27)	Labor - Hourly Rate	$64.16		
(28)	Installation & Travel Time (Minutes)	45		
(29)	Total Direct Labor		$48.12	
(30)	ADD: Overhead Labor Cost	82.50%	$39.70	
(31)	Total Labor		$87.82	
	Equipment			
(32)	Truck-Aerial 45 ML OC	$10.22		
(33)	Installation & Travel Time (Minutes)	45		
(34)	Total Equipment		$7.67	
(35)	Total Labor & Equipment Cost		$95.49	

The Narragansett Electric Company
20 Watt LED Roadway Installed Cost

Tariff Code Description
Roadway luminaire, 20 watt, Light Emitting Diode

	Material Cost	Overhead Percentage (b)	Qty (c)	Unit Price (d)	Total Price (e)
(1)	Description				
(2)	Roadway Luminaire w/ LED Lamp		1	$103.88	$103.88
(3)	Photoelectric Control		1	$12.50	$12.50
(4)	Bracket		1	$65.00	$65.00
(5)	Wire (Luminaire, 4-#10, 18')		1	$1.15	$1.15
(6)	Sub-Total Material				$182.53
(7)	Sales Tax			Sales Tax @ 7%	$12.78
	Material Overhead				
(8)	Stores Handling		$182.53	23.25%	$42.44
(9)	Total Material and Overhead				$237.75
	Installation				
(10)	Labor & Equipment				$147.66
(11)	Total Material and Labor				$385.41
(12)	Plant Overhead		$352.44	13.00%	$45.82
(13)	Total Plant Addition				$431.23

The Narragansett Electric Company
30 Watt LED Roadway Installed Cost

Tariff Code Description
Roadway luminaire, 30 watt, Light Emitting Diode

	Material Cost	Overhead Percentage (b)	Qty (c)	Unit Price (d)	Total Price (e)
(1)	Description				
(2)	Roadway Luminaire w/ LED Lamp		1	$103.88	$103.88
(3)	Photoelectric Control		1	$12.50	$12.50
(4)	Bracket		1	$65.00	$65.00
(5)	Wire (Luminaire, 4-#10, 18')		1	$1.15	$1.15
(6)	Sub-Total Material				$182.53
(7)	Sales Tax			Sales Tax @ 7%	$12.78
	Material Overhead				
(8)	Stores Handling		$182.53	23.25%	$42.44
(9)	Total Material and Overhead				$237.75
	Crew Cost				
(10)	Labor & Equipment				$147.66
(11)	Total Material and Labor				$385.41
(12)	Plant Overhead		$352.44	13.00%	$45.82
(13)	Total Plant Addition				$431.23

The Narragansett Electric Company
60 Watt LED Roadway Installed Cost

Tariff Style Description
Roadway luminaire, 60 watt, Light Emitting Diode

	Material Cost	Overhead Percentage (b)	Qty (c)	Unit Price (d)	Total Price (e)
(1)	Description				
(2)	Roadway Luminaire w/ LED Lamp		1	$114.48	$114.48
(3)	Photoelectric Control		1	$12.50	$12.50
(4)	Bracket		1	$65.00	$65.00
(5)	Wire (Luminaire, 4-#10, 18')		1	$1.15	$1.15
(6)	Sub-Total Material				$193.13
(7)	Sales Tax			Sales Tax @ 7%	$13.52
	Material Overhead				
(8)	Stores Handling		$193.13	23.25%	$44.90
(9)	Total Material and Overhead				$251.55
	Crew Cost				
(10)	Labor & Equipment				$147.66
(11)	Total Material and Labor				$399.22
(12)	Plant Overhead		$366.25	13.00%	$47.61
(13)	Total Plant Addition				$446.83

The Narragansett Electric Company
140 Watt LED Roadway Installed Cost

Tariff Style Description
Roadway luminaire, 140 watt, Light Emitting Diode

	Material Cost	Overhead Percentage (b)	Qty (c)	Unit Price (d)	Total Price (e)
(1)	Description				
(2)	Roadway Luminaire w/ LED Lamp		1	$185.50	$185.50
(3)	Photoelectric Control		1	$12.50	$12.50
(4)	Bracket		1	$90.00	$90.00
(5)	Wire (Luminaire, 4-#10, 18')		1	$1.15	$1.15
(6)	Sub-Total Material				$289.15
(7)	Sales Tax			Sales Tax @ 7%	$20.24
	Material Overhead				
(8)	Stores Handling		$289.15	23.25%	$67.23
(9)	Total Material and Overhead				$376.62
	Crew Cost				
(10)	Labor & Equipment				$147.66
(11)	Total Material and Labor				$524.28
(12)	Plant Overhead		$491.32	13.00%	$63.87
(13)	Total Plant Addition				$588.15

The Narragansett Electric Company
275 Watt LED Roadway Installed Cost

Tariff Style Description
Roadway luminaire, 275 watt, Light Emitting Diode

	Material Cost	Overhead Percentage (b)	Qty (c)	Unit Price (d)	Total Price (e)
(1)	Description				
(2)	Roadway Luminaire w/ LED Lamp		1	$388.80	$388.80
(3)	Photoelectric Control		1	$12.50	$12.50
(4)	Bracket		1	$90.00	$90.00
(5)	Wire (Luminaire, 4-#10, 18')		1	$1.15	$1.15
(6)	Sub-Total Material				$492.45
(7)	Sales Tax			Sales Tax @ 7%	$34.47
	Material Overhead				
(8)	Stores Handling		$492.45	23.25%	$114.49
(9)	Total Material and Overhead				$641.42
	Crew Cost				
(10)	Labor & Equipment				$147.66
(11)	Total Material and Labor				$789.08
(12)	Plant Overhead		$756.11	13.00%	$98.29
(13)	Total Plant Addition				$887.37

The Narragansett Electric Company
Post Top luminaire, 60 watt, Light Emitting Diode Installed Cost

Tariff Luminaire Style

Tariff Style Description
Post Top luminaire, 60 watt, Light Emitting Diode

	Material Cost	Overhead Percentage (b)	Qty (c)	Unit Price (d)	Total Price (e)
(1)	Description				
(2)	Post Top Luminaire w/ LED Lamp		1	$452.50	$452.50
(3)	Photoelectric Control		1	$12.50	$12.50
(4)	Bracket		1	$0.00	$0.00
(5)	Wire (Luminaire, 4-#10, 18')		1	$1.15	$1.15
(6)	Sub-Total Material				$466.15
(7)	Sales Tax			Sales Tax @ 7%	$32.63
	Material Overhead				
(8)	Stores Handling		$466.15	23.25%	$108.38
(9)	Total Material and Overhead				$607.16
	Crew Cost				
(10)	Labor & Equipment				$147.66
(11)	Total Material and Labor				$754.82
(12)	Plant Overhead		$721.86	13.00%	$93.84
(13)	Total Plant Addition				$848.67

The Narragansett Electric Company
Twin Post Top luminaire, 60 watt, Light Emitting Diode Installed Cost

Tariff Style Description
Twin Post Top luminaire, 60 watt, Light Emitting Diode - Traditional style

	Material Cost	Overhead Percentage (b)	Qty (c)	Unit Price (d)	Total Price (e)
(1)	Description				
(2)	Post Top Luminaire w/ LED Lamp		2	$452.50	$905.00
(3)	Photoelectric Control		2	$12.50	$25.00
(4)	Cross-Arm		1	$412.33	$412.33
(5)	Wire (Luminaire, 4-#10, 18')		2	$1.15	$2.30
(6)	Sub-Total Material				$1,344.63
(7)	Sales Tax			Sales Tax @ 7%	$94.12
	Material Overhead				
(8)	Stores Handling		$1,344.63	23.25%	$312.63
(9)	Total Material and Overhead				$1,751.38
	Crew Cost				
(10)	Labor & Equipment				$344.55
(11)	Total Material and Labor				$2,095.93
(12)	Plant Overhead		$2,019.01	13.00%	$32.47
(13)	Total Plant Addition				$2,128.39

The Narragansett Electric Company
Labor and Equipment

Initial Installation Cost-Single Fixture

				Subject to Plant Overheads
	Labor			
(1)	Labor - Hourly Rate	$64.16		
(2)	Installation & Travel Time (Minutes)	45		
(3)	Total Direct Labor		$48.12	$48.12
(4)	Design and Supervision	29.67%	$14.28	$14.28
(5)	ADD: Overhead Labor Cost	52.83%	$32.96	
(6)	Total Labor		$95.36	
	Equipment			
(7)	Truck-Aerial 45 ML OC	$10.22		
(8)	Installation & Travel Time (Minutes)	45		
(9)	Total Equipment		$7.67	$7.67
	Miscellaneous			
(10)	Work Zone Protection/Police Detail	$59.51		
(11)	Installation & Travel Time (Minutes)	45		
(12)	Total Misc		$44.64	$44.64
(13)	Total Labor & Equipment Cost		$147.66	$114.70

Initial Installation Cost-Twin Fixture

	Labor			
(14)	Labor - Hourly Rate	$64.16		
(15)	Installation & Travel Time (Minutes)	105		
(16)	Total Direct Labor		$112.28	$112.28
(17)	Design and Supervision	29.67%	$33.31	$33.31
(18)	ADD: Overhead Labor Cost	52.83%	$76.92	
(19)	Total Labor		$222.51	
	Equipment			
(20)	Truck-Aerial 45 ML OC	$10.22		
(21)	Installation & Travel Time (Minutes)	105		
(22)	Total Equipment		$17.89	$17.89
	Miscellaneous			
(23)	Work Zone Protection/Police Detail	$59.51		
(24)	Installation & Travel Time (Minutes)	105		
(25)	Total Misc		$104.15	$104.15
(26)	Total Labor & Equipment Cost		$344.55	$267.63

Workpaper HSG-5 (REV-1)

Development of Proposed Rates

The Narragansett Electric Company
Present and Proposed Rates for Bill Impacts

Rate A-16 (Basic Residential)

		Present Rates @ 11/1/17 (a)	Proposed Rate (b)
(1)	LIHEAP Enhancement Charge	$0.81	$0.81
(2)			
(3)	Base Distribution Customer Charge	$5.00	$8.50
(4)			
(5)	Renewable Energy Growth Charge	$0.78	$0.79
(6)			
(7)	Base Distribution Energy (per kWh)	$0.03664	$0.04159
(8)			
(9)	Operating & Maintenance Expense Charge	$0.00163	$0.00163
(10)			
(11)	Operating & Maintenance Expense Reconciliation Factor	($0.00001)	($0.00001)
(12)			
(13)	FY18 CapEx Factor Charge	$0.00288	$0.00000
(14)			
(15)	CapEx Reconciliation Factor	($0.00135)	($0.00135)
(16)			
(17)	Proposed Low Income Discount Recovery Factor	$0.00000	$0.00086
(18)			
(19)	Revenue Decoupling Adjustment Factor	$0.00118	$0.00118
(20)			
(21)	Pension Adjustment Factor	($0.00085)	($0.00085)
(22)			
(23)	Storm Fund Replenishment Factor	$0.00288	$0.00288
(24)			
(25)	Long-term Contracting for Renewable Energy Charge	$0.00664	$0.00665
(26)			
(27)	Net Metering Charge	$0.00023	$0.00023
(28)			
(29)	Base Transmission Charge and Adjustment Factor	$0.03140	$0.03140
(30)			
(31)	Transmission Uncollectible Factor	$0.00039	$0.00040
(32)			
(33)	Total Transition Charge	$0.00057	$0.00057
(34)			
(35)	Energy Efficiency Program Charge	$0.01154	$0.01154
(36)			
(37)	Standard Offer Service Base Charge	$0.09792	$0.09792
(38)			
(39)	SOS Adjustment Factor	($0.00465)	($0.00465)
(40)			
(41)	SOS Adminstrative Cost Adjustment Factor	$0.00148	$0.00151
(42)			
(43)	Renewable Energy Standard Charge	$0.00040	$0.00040
(44)			
(45)			
(46)	Customer Charge	$5.00	$8.50
(47)	RE Growth Factor	$0.78	$0.79
(48)	LIHEAP Charge	$0.81	$0.81
(49)	Transmission Energy Charge	$0.03179	$0.03180
(50)	Base Distribution Energy (per kWh)	$0.03664	$0.04159
(51)	Other Distribution Energy Charge	$0.00636	$0.00434
(52)	Transition Energy Charge	$0.00057	$0.00057
(53)	Energy Efficiency Program Charge	$0.01154	$0.01154
(54)	Renewable Energy Distribution Charge	$0.00687	$0.00688
(55)	Standard Offer Charge	$0.09515	$0.09518

Column (a): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096
Column (b):
Lines (1, 9, 11, 15, 19, 21, 23, 27, 29, 33) per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095
Lines (37, 39, 43) per Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096
Line (3): Schedule HSG-4-I (REV-1) Page 1, Line (2)
Line (5): Page 16, Line (3)
Line (7): Schedule HSG-4-I (REV-1) Page 1, Line (9)
Line (17): Schedule PP-2 (REV-1), Page 1, Section 2, Line (3)
Line (25): Page 13, Line (13)
Line (31): Page 12, Line (10)
Line (35): Page 17, Line (7)
Line (41): Page 18, Line (7)
Line (46): Line (3)
Line (47): Line (5)
Line (48): Line (1)
Line (49): Line (29) + Line (31)
Line (50): Line (7)
Line (51): Line (9) + Line (11) + Line (13) + Line (15) + Line (17) + Line (19) + Line (21) + Line (23)
Line (52): Line (33)
Line (53): Line (35)
Line (54): Line (25) + Line (27)
Line (55): Line (37) + Line (39) + Line (41) + Line (43)

The Narragansett Electric Company
Present and Proposed Rates for Bill Impacts

Rate A-60 (Residential Low Income)

		Present Rates @ 11/1/17 (a)	Proposed Rate (b)
(1)	LIHEAP Enhancement Charge	$0.81	$0.81
(2)			
(3)	Base Distribution Customer Charge	$0.00	$2.75
(4)			
(5)	Renewable Energy Growth Charge	$0.78	$0.79
(6)			
(7)	Base Distribution Energy (per kWh)	$0.02317	$0.04159
(8)			
(9)	Operating & Maintenance Expense Charge	$0.00163	$0.00163
(10)			
(11)	Operating & Maintenance Expense Reconciliation Factor	($0.00001)	($0.00001)
(12)			
(13)	FY18 CapEx Factor Charge	$0.00288	$0.00000
(14)			
(15)	CapEx Reconciliation Factor	($0.00135)	($0.00135)
(16)			
(17)	Revenue Decoupling Adjustment Factor	$0.00118	$0.00118
(18)			
(19)	Pension Adjustment Factor	($0.00085)	($0.00085)
(20)			
(21)	Storm Fund Replenishment Factor	$0.00288	$0.00288
(22)			
(23)	Long-term Contracting for Renewable Energy Charge	$0.00664	$0.00665
(24)			
(25)	Net Metering Charge	$0.00023	$0.00023
(26)			
(27)	Base Transmission Charge and Adjustment Factor	$0.03140	$0.03140
(28)			
(29)	Transmission Uncollectible Factor	$0.00039	$0.00040
(30)			
(31)	Total Transition Charge	$0.00057	$0.00057
(32)			
(33)	Energy Efficiency Program Charge	$0.01154	$0.01154
(34)			
(35)	Standard Offer Service Base Charge	$0.09792	$0.09792
(36)			
(37)	SOS Adjustment Factor	($0.00465)	($0.00465)
(38)			
(39)	SOS Adminstrative Cost Adjustment Factor	$0.00148	$0.00151
(40)			
(41)	Renewable Energy Standard Charge	$0.00040	$0.00040
(42)			
(43)			
(44)	Customer Charge	$0.00	$2.75
(45)	RE Growth Factor	$0.78	$0.79
(46)	LIHEAP Charge	$0.81	$0.81
(47)	Transmission Energy Charge	$0.03179	$0.03180
(48)	Base Distribution Energy (per kWh)	$0.02317	$0.04159
(49)	Other Distribution Energy Charge	$0.00636	$0.00348
(50)	Transition Energy Charge	$0.00057	$0.00057
(51)	Energy Efficiency Program Charge	$0.01154	$0.01154
(52)	Renewable Energy Distribution Charge	$0.00687	$0.00688
(53)	Standard Offer Charge	$0.09515	$0.09518

Column (a): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096
Column (b):
Lines (1, 9, 11, 15, 17, 19, 21, 25, 27, 31) per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095
Lines (35, 37, 41) per Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096
Line (3): Schedule HSG-4-I (REV-1) Page 1, Line (4)
Line (5): Page 16, Line (3)
Line (23): Page 13, Line (13)
Line (29): Page 12, Line (10)
Line (33): Page 17, Line (7)
Line (39): Page 18, Line (7)
Line (44): Line (3)
Line (45): Line (5)
Line (46): Line (1)
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Line (48): Line (7)
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Line (50): Line (31)
Line (51): Line (33)
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The Narragansett Electric Company
Present and Proposed Rates for Bill Impacts

Rate C-06 (Small C&I)

		Present Rates @ 11/1/17 (a)	Proposed Rate (b)
(1)	LIHEAP Enhancement Charge	$0.81	$0.81
(2)			
(3)	Base Distribution Customer Charge	$10.00	$13.00
(4)			
(5)	Renewable Energy Growth Charge	$1.26	$1.26
(6)			
(7)	Base Distribution Energy (per kWh)	$0.03253	$0.04015
(8)			
(9)	Operating & Maintenance Expense Charge	$0.00169	$0.00169
(10)			
(11)	Operating & Maintenance Expense Reconciliation Factor	($0.00001)	($0.00001)
(12)			
(13)	FY18 CapEx Factor Charge	$0.00269	$0.00000
(14)			
(15)	CapEx Reconciliation Factor	($0.00119)	($0.00119)
(16)			
(17)	Proposed Low Income Discount Recovery Factor	$0.00000	$0.00086
(18)			
(19)	Revenue Decoupling Adjustment Factor	$0.00118	$0.00118
(20)			
(21)	Pension Adjustment Factor	($0.00085)	($0.00085)
(22)			
(23)	Storm Fund Replenishment Factor	$0.00288	$0.00288
(24)			
(25)	Long-term Contracting for Renewable Energy Charge	$0.00664	$0.00665
(26)			
(27)	Net Metering Charge	$0.00023	$0.00023
(28)			
(29)	Base Transmission Charge and Adjustment Factor	$0.02803	$0.02803
(30)			
(31)	Transmission Uncollectible Factor	$0.00035	$0.00036
(32)			
(33)	Total Transition Charge	$0.00057	$0.00057
(34)			
(35)	Energy Efficiency Program Charge	$0.01154	$0.01154
(36)			
(37)	Standard Offer Service Base Charge	$0.09492	$0.09492
(38)			
(39)	SOS Adjustment Factor	($0.00304)	($0.00304)
(40)			
(41)	SOS Adminstrative Cost Adjustment Factor	$0.00122	$0.00125
(42)			
(43)	Renewable Energy Standard Charge	$0.00040	$0.00040
(44)			
(45)			
(46)	Customer Charge	$10.00	$13.00
(47)	RE Growth Factor	$1.26	$1.26
(48)	LIHEAP Charge	$0.81	$0.81
(49)	Transmission Energy Charge	$0.02838	$0.02839
(50)	Base Distribution Energy (per kWh)	$0.03253	$0.04015
(51)	Other Distribution Energy Charge	$0.00639	$0.00456
(52)	Transition Energy Charge	$0.00057	$0.00057
(53)	Energy Efficiency Program Charge	$0.01154	$0.01154
(54)	Renewable Energy Distribution Charge	$0.00687	$0.00688
(55)	Standard Offer Charge	$0.09350	$0.09353

Column (a): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096
Column (b):
Lines (1, 9, 11, 15, 19, 21, 23, 27, 29, 33) per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095
Lines (37, 39, 43) per Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096
Line (3): Schedule HSG-4-I (REV-1) Page 1, Line (2)
Line (5): Page 16, Line (3)
Line (7): Schedule HSG-4-I (REV-1) Page 1, Line (9)
Line (17): Schedule PP-2 (REV-1), Page 1, Section 2, Line (3)
Line (25): Page 13, Line (13)
Line (31): Page 12, Line (10)
Line (35): Page 17, Line (7)
Line (41): Page 18, Line (7)
Line (46): Line (3)
Line (47): Line (5)
Line (48): Line (1)
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Line (52): Line (33)
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Line (54): Line (25) + Line (27)
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The Narragansett Electric Company
Present and Proposed Rates for Bill Impacts

Rate G-02 (General C&I)

		Present Rates @ 11/1/17 (a)	Proposed Rate (b)
(1)	LIHEAP Enhancement Charge	$0.81	$0.81
(2)			
(3)	Base Distribution Customer Charge	$135.00	$145.00
(4)			
(5)	Renewable Energy Growth Charge	$11.85	$11.85
(6)			
(7)	Base Distribution Energy (per kWh)	$0.00468	$0.00422
(8)			
(9)	Distribution kW Charge (per kW >10)	$4.85	$6.50
(10)			
(11)	Operating & Maintenance Expense Charge	$0.00122	$0.00122
(12)			
(13)	Operating & Maintenance Expense Reconciliation Factor	($0.00001)	($0.00001)
(14)			
(15)	FY CapEx Factor (per kW >10)	$0.67	$0.00
(16)			
(17)	CapEx Reconciliation Factor	($0.00098)	($0.00098)
(18)			
(19)	Proposed Low Income Discount Recovery Factor	$0.00000	$0.00086
(20)			
(21)	Revenue Decoupling Adjustment Factor	$0.00118	$0.00118
(22)			
(23)	Pension Adjustment Factor	($0.00085)	($0.00085)
(24)			
(25)	Storm Fund Replenishment Factor	$0.00288	$0.00288
(26)			
(27)	Long-term Contracting for Renewable Energy Charge	$0.00664	$0.00665
(28)			
(29)	Net Metering Charge	$0.00023	$0.00023
(30)			
(31)	Transmission kW Charge	$4.37	$4.37
(32)			
(33)	Base Transmission Charge and Adjustment Factor	$0.01064	$0.01064
(34)			
(35)	Transmission Uncollectible Factor	$0.00032	$0.00033
(36)			
(37)	Total Transition Charge	$0.00057	$0.00057
(38)			
(39)	Energy Efficiency Program Charge	$0.01154	$0.01154
(40)			
(41)	Standard Offer Service Base Charge	$0.09492	$0.09492
(42)			
(43)	SOS Adjustment Factor	($0.00304)	($0.00304)
(44)			
(45)	SOS Adminstrative Cost Adjustment Factor	$0.00122	$0.00125
(46)			
(47)	Renewable Energy Standard Charge	$0.00040	$0.00040
(48)			
(49)			
(50)	Customer Charge	$135.00	$145.00
(51)	RE Growth Factor	$11.85	$11.85
(52)	LIHEAP Charge	$0.81	$0.81
(53)	Transmission Demand Charge	$4.37	$4.37
(54)	Transmission Energy Charge	$0.01096	$0.01097
(55)	Base Distribution Demand Charge-xcs 10 kW	$4.85	$6.50
(56)	CapEx Charge	$0.67	$0.00
(57)	Base Distribution Energy Charge	$0.00468	$0.00422
(58)	Other Distribution Energy Charge	$0.00344	$0.00430
(59)	Transition Energy Charge	$0.00057	$0.00057
(60)	Energy Efficiency Program Charge	$0.01154	$0.01154
(61)	Renewable Energy Distribution Charge	$0.00687	$0.00688
(62)	Standard Offer Charge	$0.09350	$0.09353

Column (a): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096
Column (b):
Lines (1, 11, 13, 17, 21, 23, 25, 29, 31, 33, 37) per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095
Lines (41, 43, 47) per Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096
Line (3): Schedule HSG-4-I (REV-1) Page 1, Line (2)
Line (5): Page 16, Line (3)
Line (7): Schedule HSG-4-I (REV-1) Page 1, Line (9)
Line (9): Schedule HSG-4-I (REV-1), Page 1, Line (14)
Line (19): Schedule PP-2 (REV-1), Page 1, Section 2, Line (3)
Line (27): Page 13, Line (13)
Line (35): Page 12, Line (10)
Line (39): Page 17, Line (7)
Line (45): Page 18, Line (7)
Line (50): Line (3)
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Line (60): Line (39)
Line (61): Line (27) + Line (29)
Line (62): Line (41) + Line (43) + Line (45) + Line (47)

The Narragansett Electric Company
Present and Proposed Rates for Bill Impacts

Rate G-32 (Large Demand Rate)

		Present Rates @ 11/1/17 (a)	Proposed Rate (b)
(1)	LIHEAP Enhancement Charge	$0.81	$0.81
(2)			
(3)	Base Distribution Customer Charge	$825.00	$1,100.00
(4)			
(5)	Renewable Energy Growth Charge	$86.86	$107.55
(6)			
(7)	Base Distribution Energy (per kWh)	$0.00551	$0.00567
(8)			
(9)	Distribution kW Charge (per kW >200)	$3.70	$5.00
(10)			
(11)	Operating & Maintenance Expense Charge	$0.00079	$0.00080
(12)			
(13)	Operating & Maintenance Expense Reconciliation Factor	($0.00001)	($0.00001)
(14)			
(15)	FY18 CapEx Factors (per kW >200)	$0.71	$0.00
(16)			
(17)	CapEx Reconciliation Factor	($0.00050)	($0.00048)
(18)			
(19)	Proposed Low Income Discount Recovery Factor	$0.00000	$0.00086
(20)			
(21)	Revenue Decoupling Adjustment Factor	$0.00118	$0.00118
(22)			
(23)	Pension Adjustment Factor	($0.00085)	($0.00085)
(24)			
(25)	Storm Fund Replenishment Factor	$0.00288	$0.00288
(26)			
(27)	Long-term Contracting for Renewable Energy Charge	$0.00664	$0.00665
(28)			
(29)	Net Metering Charge	$0.00023	$0.00023
(30)			
(31)	Transmission kW Charge	$4.69	$4.43
(32)			
(33)	Base Transmission Charge and Adjustment Factor	$0.01093	$0.01175
(34)			
(35)	Transmission Uncollectible Factor	$0.00030	$0.00031
(36)			
(37)	Total Transition Charge	$0.00057	$0.00057
(38)			
(39)	Energy Efficiency Program Charge	$0.01154	$0.01154
(40)			
(41)	Standard Offer Service Base Charge	$0.06785	$0.06785
(42)			
(43)	SOS Adjustment Factor	($0.00507)	($0.00507)
(44)			
(45)	SOS Adminstrative Cost Adjustment Factor	$0.00122	$0.00125
(46)			
(47)	Renewable Energy Standard Charge	$0.00040	$0.00040
(48)			
(49)			
(50)	Customer Charge	$825.00	$1,100.00
(51)	RE Growth Factor	$86.86	$107.55
(52)	LIHEAP Charge	$0.81	$0.81
(53)	Transmission Demand Charge	$4.69	$4.43
(54)	Transmission Energy Charge	$0.01123	$0.01206
(55)	Base Distribution Demand Charge - > 200 kW	$3.70	$5.00
(56)	CapEx Charge	$0.71	$0.00
(57)	Base Distribution Energy Charge	$0.00551	$0.00567
(58)	Other Distribution Energy Charge	$0.00349	$0.00438
(59)	Transition Energy Charge	$0.00057	$0.00057
(60)	Energy Efficiency Program Charge	$0.01154	$0.01154
(61)	Renewable Energy Distribution Charge	$0.00687	$0.00688
(62)	Standard Offer Charge	$0.06440	$0.06443

Column (a): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096
Column (b):
Lines (1, 13, 21, 23, 25, 29, 37) per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095
Lines (41, 43, 47) per Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096
Line (3): Schedule HSG-4-I (REV-1) Page 1, Line (2)
Line (5): Page 16, Line (3)
Line (7): Schedule HSG-4-I (REV-1) Page 1, Line (9)
Line (9): Schedule HSG-4-I (REV-1), Page 1, Line (15)
Line (11): Page 21, Column (f), Line (6)
Line (17), Page 22, Column (f), Line (10)
Line (19): Schedule PP-2 (REV-1), Page 1, Section 2, Line (3)
Line (27): Page 13, Line (13)
Line (31): Page 10, Column (f), Line (10)
Line (33): Page 10, Column (f), Line (13) + Page 11, Column (f), Line (5)
Line (35): Page 12, Column (f), Line (10)
Line (39): Page 17, Line (7)
Line (45): Page 18, Line (7)
Line (50): Line (3)
Line (51): Line (5)
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Line (57): Line (7)
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Line (59): Line (37)
Line (60): Line (39)
Line (61): Line (27) + Line (29)
Line (62): Line (41) + Line (43) + Line (45) + Line (47)

The Narragansett Electric Company
Present and Proposed Rates for Bill Impacts

Rate G-62 (Optional Large Demand Rate)

		Present Rates @ 11/1/17 (a)	Proposed G-32 Rate (b)
(1)	LIHEAP Enhancement Charge	$0.81	$0.81
(2)			
(3)	Base Distribution Customer Charge	$17,000.00	$1,100.00
(4)			
(5)	Renewable Energy Growth Charge	$1,928.08	$107.55
(6)			
(7)	Base Distribution Energy (per kWh)	$0.00000	$0.00567
(8)			
(9)	Distribution kW Charge (per kW) (per kW >200) proposed	$2.99	$5.00
(10)			
(11)	Operations & Maintenance Expense Charge (per kW)	$0.36	n/a
(12)			
(13)	Operating & Maintenance Expense Charge	$0.00000	$0.00080
(14)			
(15)	Operating & Maintenance Expense Reconciliation Factor	($0.00001)	($0.00001)
(16)			
(17)	FY18 CapEx Factors (per kW) (per kW >200) proposed	$0.55	$0.00
(18)			
(19)	CapEx Reconciliation Factor	($0.00038)	($0.00048)
(20)			
(21)	Proposed Low Income Discount Recovery Factor	$0.00000	$0.00086
(22)			
(23)	Revenue Decoupling Adjustment Factor	$0.00118	$0.00118
(24)			
(25)	Pension Adjustment Factor	($0.00085)	($0.00085)
(26)			
(27)	Long-term Contracting for Renewable Energy Charge	$0.00664	$0.00665
(28)			
(29)	Net Metering Charge	$0.00023	$0.00023
(30)			
(31)	Transmission (per kW)	$3.40	$4.43
(32)			
(33)	Base Transmission Charge and Adjustment Factor	$0.01492	$0.01175
(34)			
(35)	Transmission Uncollectible Factor	$0.00032	$0.00031
(36)			
(37)	Total Transition Charge	$0.00057	$0.00057
(38)			
(39)	Energy Efficiency Program Charge	$0.01154	$0.01154
(40)			
(41)	Storm Fund Replenishment Factor	$0.00288	$0.00288
(42)			
(43)	Standard Offer Service Base Charge	$0.06785	$0.06785
(44)			
(45)	SOS Adjustment Factor	($0.00507)	($0.00507)
(46)			
(47)	SOS Adminstrative Cost Adjustment Factor	$0.00122	$0.00125
(48)			
(49)	Renewable Energy Standard Charge	$0.00040	$0.00040
(50)			
(51)			
(52)	Customer Charge	$17,000.00	$1,100.00
(53)	RE Growth Factor	$1,928.08	$107.55
(54)	LIHEAP Charge	$0.81	$0.81
(55)	Transmission Demand Charge	$3.40	$4.43
(56)	Transmission Energy Charge	$0.01524	$0.01206
(57)	Base Distribution Demand Charge	$2.99	$5.00
(58)	O&M kW Charge	$0.36	n/a
(59)	CapEx kW Charge	$0.55	$0.00
(60)	Base Distribution Energy Charge	$0.00000	$0.00567
(61)	Other Distribution Energy Charge	$0.00282	$0.00438
(62)	Transition Energy Charge	$0.00057	$0.00057
(63)	Energy Efficiency Program Charge	$0.01154	$0.01154
(64)	Renewable Energy Distribution Charge	$0.00687	$0.00688
(65)	Standard Offer Charge	$0.06440	$0.06443

Column (a): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096
Column (b):
Lines (1, 15, 23, 25, 29, 37, 41) per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095
Lines (43, 45, 49) per Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096
Line (3): Schedule HSG-4-I (REV-1) Page 1, Line (2)
Line (5): Page 16, Line (3)
Line (7): Schedule HSG-4-I (REV-1) Page 1, Line (9)
Line (9): Schedule HSG-4-I (REV-1), Page 1, Line (15)
Line (13): Page 21, Column (f), Line (6)
Line (19): Page 22, Column (f), Line (10)
Line (21): Schedule PP-2 (REV-1), Page 1, Section 2, Line (3)
Line (27): Page 13, Line (13)
Line (31): Page 10, Column (f), Line (10)
Line (33): Page 10, Column (f), Line (13) + Page 11, Column (f), Line (5)
Line (35): Page 12, Column (f), Line (10)
Line (39): Page 17, Line (7)
Line (47): Page 18, Line (7)
Line (52): Line (3)
Line (53): Line (5)
Line (54): Line (1)
Line (55): Line (31)
Line (56): Line (33) + Line (35)
Line (57): Line (9)
Line (58): Page 21, Column (f), Line (8)
Line (60): Line (7)
Line (61): Line (13) + Line (15) + Line (19) + Line (21) + Line (23) + Line (25) + Line (41)
Line (62): Line (37)
Line (63): Line (39)
Line (64): Line (27) + Line (29)
Line (65): Line (43) + Line (45) + Line (47) + Line (49)

The Narragansett Electric Company
Present and Proposed Rates for Bill Impacts

Rate X-01 (Electric Propulsion Rate)

		Present Rates @ 11/1/17 (a)	Proposed Rate (b)
(1)	LIHEAP Enhancement Charge	$0.81	$0.81
(2)			
(3)	Base Distribution Customer Charge	$16,500.00	$21,000.00
(4)			
(5)	Renewable Energy Growth Charge	$2,087.71	$2,088.76
(6)			
(7)	Base Distribution Energy (per kWh)	$0.01600	$0.01755
(8)			
(9)	Operating & Maintenance Expense Charge	$0.00123	$0.00123
(10)			
(11)	Operating & Maintenance Expense Reconciliation Factor	($0.00001)	($0.00001)
(12)			
(13)	FY18 CapEx Factor Charge	$0.00217	$0.00000
(14)			
(15)	CapEx Reconciliation Factor	($0.00103)	($0.00103)
(16)			
(17)	Proposed Low Income Discount Recovery Factor	$0.00000	$0.00086
(18)			
(19)	Revenue Decoupling Adjustment Factor	$0.00118	$0.00118
(20)			
(21)	Pension Adjustment Factor	($0.00085)	($0.00085)
(22)			
(23)	Long-term Contracting for Renewable Energy Charge	$0.00664	$0.00665
(24)			
(25)	Net Metering Charge	$0.00023	$0.00023
(26)			
(27)	Transmission (per kW)	$3.40	$4.43
(28)			
(29)	Base Transmission Charge and Adjustment Factor	$0.01492	$0.01175
(30)			
(31)	Transmission Uncollectible Factor	$0.00032	$0.00031
(32)			
(33)	Total Transition Charge	$0.00057	$0.00057
(34)			
(35)	Energy Efficiency Program Charge	$0.01154	$0.01154
(36)			
(37)	Storm Fund Replenishment Factor	$0.00288	$0.00288
(38)			
(39)	Standard Offer Service Base Charge	$0.06785	$0.06785
(40)			
(41)	SOS Adjustment Factor	($0.00507)	($0.00507)
(42)			
(43)	SOS Adminstrative Cost Adjustment Factor	$0.00122	$0.00125
(44)			
(45)	Renewable Energy Standard Charge	$0.00040	$0.00040
(46)			
(47)			
(48)	Customer Charge	$16,500.00	$21,000.00
(49)	RE Growth Factor	$2,087.71	$2,088.76
(50)	LIHEAP Charge	$0.81	$0.81
(51)	Transmission Demand Charge	$3.40	$4.43
(52)	Transmission Energy Charge	$0.01524	$0.01206
(53)	Base Distribution Energy Charge	$0.01600	$0.01755
(54)	Other Distribution Energy Charge	$0.00557	$0.00426
(55)	Transition Energy Charge	$0.00057	$0.00057
(56)	Energy Efficiency Program Charge	$0.01154	$0.01154
(57)	Renewable Energy Distribution Charge	$0.00687	$0.00688
(58)	Standard Offer Charge	$0.06440	$0.06443

Column (a): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096
Column (b):
Lines (1, 9, 11, 15, 19, 21, 25, 33, 37) per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095
Lines (39, 41, 45) per Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096
Line (3): Schedule HSG-4-I (REV-1) Page 1, Line (2)
Line (5): Page 16, Line (3)
Line (7): Schedule HSG-4-I (REV-1) Page 1, Line (9)
Line (17): Schedule PP-2 (REV-1), Page 1, Section 2, Line (3)
Line (23): Page 13, Line (13)
Line (27): Page 10, Column (f), Line (10)
Line (29): Page (10), Column (f), Line (13) + Page 11, Column (f), Line (5)
Line (31): Page 12, Column (f), Line (10)
Line (35): Page 17, Line (7)
Line (43): Page 18, Line (7)
Line (48): Line (3)
Line (49): Line (5)
Line (50): Line (1)
Line (51): Line (27)
Line (52): Line (29) + Line (31)
Line (53): Line (7)
Line (54): Line (9) + Line (11) + Line (13) + Line (15) + Line (17) + Line (19) + Line (21) + Line (37)
Line (55): Line (33)
Line (56): Line (35)
Line (57): Line (23) + Line (25)
Line (58): Line (39) + Line (41) + Line (43) + Line (45)

The Narragansett Electric Company
Present and Proposed Rates for Bill Impacts

Rate S-06/S-10/S-14 (Street and Area Lighting)

		Present Rates @ 11/1/17 (a)	Proposed Rate (b)
(1)	LIHEAP Enhancement Charge	$0.81	$0.81
(2)			
(3)	Base Distribution Customer Charge	n/a	n/a
(4)			
(5)	Renewable Energy Growth Charge (per luminaire)	$0.39	$0.39
(6)			
(7)	Base Distribution Energy (per kWh)	$0.00000	$0.00000
(8)			
(9)	Operating & Maintenance Expense Charge	$0.01273	$0.01273
(10)			
(11)	Operating & Maintenance Expense Reconciliation Factor	($0.00001)	($0.00001)
(12)			
(13)	FY18 CapEx Factor Charge	$0.01422	$0.00000
(14)			
(15)	CapEx Reconciliation Factor	($0.00151)	($0.00151)
(16)			
(17)	Proposed Low Income Discount Recovery Factor	$0.00000	$0.00086
(18)			
(19)	Revenue Decoupling Adjustment	$0.00118	$0.00118
(20)			
(21)	Pension Adjustment Factor	($0.00085)	($0.00085)
(22)			
(23)	Storm Fund Replenishment Factor	$0.00288	$0.00288
(24)			
(25)	Long-term Contracting Charge	$0.00664	$0.00665
(26)			
(27)	Net Metering Charge	$0.00023	$0.00023
(28)			
(29)	Base Transmission Charge and Adjustment Factor	$0.02221	$0.02221
(30)			
(31)	Transmission Uncollectible Factor	$0.00028	$0.00029
(32)			
(33)	Transition Charge	$0.00057	$0.00057
(34)			
(35)	Energy Efficiency Program Charge	$0.01154	$0.01154
(36)			
(37)	Standard Offer Service Base Charge	$0.09492	$0.09492
(38)			
(39)	SOS Adjustment Factor	($0.00304)	($0.00304)
(40)			
(41)	SOS Adminstrative Cost Adjustment Factor	$0.00122	$0.00125
(42)			
(43)	Renewable Energy Standard Charge	$0.00040	$0.00040
(44)			
(45)			
(46)	Volumetric Charge per kWh	$0.16361	$0.15030

Column (a): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096
Column (b):
Lines (1, 7, 9, 11, 15, 19, 21, 23, 27, 29, 33) per Summary of Retail Delivery Service Rates tariff
Lines (37, 39, 43) per Summary of Rates Standard Offer Service tariff
Line (3): n/a
Line (5): Page 16, Line (3)
Line (17): Schedule PP-2 (REV-1), Page 1, Section 2, Line (3)
Line (25): Page 13, Line (13)
Line (31): Page 12, Line (10)
Line (35): Page 17, Line (7)
Line (41): Page 18, Line (7)
Line (46): sum of Lines (1) through (43)

The Narragansett Electric Company
Present and Proposed Rates for Bill Impacts

Rate S-05 (Customer-Owned Street and Area Lighting)

		Present Rates @ 11/1/17 (a)	Proposed Rate (b)
(1)	LIHEAP Enhancement Charge	$0.81	$0.81
(2)			
(3)	Base Distribution Customer Charge	n/a	n/a
(4)			
(5)	Renewable Energy Growth Charge (per luminaire)	$0.39	$0.39
(6)			
(7)	Base Distribution Energy (per kWh)	$0.02654	$0.03644
(8)			
(9)	Operating & Maintenance Expense Charge	$0.01273	$0.01273
(10)			
(11)	Operating & Maintenance Expense Reconciliation Factor	($0.00001)	($0.00001)
(12)			
(13)	FY18 CapEx Factor Charge	$0.01422	$0.00000
(14)			
(15)	CapEx Reconciliation Factor	($0.00151)	($0.00151)
(16)			
(17)	Proposed Low Income Discount Recovery Factor	$0.00000	$0.00086
(18)			
(19)	Revenue Decoupling Adjustment	$0.00118	$0.00118
(20)			
(21)	Pension Adjustment Factor	($0.00085)	($0.00085)
(22)			
(23)	Storm Fund Replenishment Factor	$0.00288	$0.00288
(24)			
(25)	Long-term Contracting Charge	$0.00664	$0.00665
(26)			
(27)	Net Metering Charge	$0.00023	$0.00023
(28)			
(29)	Base Transmission Charge and Adjustment Factor	$0.02221	$0.02221
(30)			
(31)	Transmission Uncollectible Factor	$0.00028	$0.00029
(32)			
(33)	Transition Charge	$0.00057	$0.00057
(34)			
(35)	Energy Efficiency Program Charge	$0.01154	$0.01154
(36)			
(37)	Standard Offer Service Base Charge	$0.09492	$0.09492
(38)			
(39)	SOS Adjustment Factor	($0.00304)	($0.00304)
(40)			
(41)	SOS Adminstrative Cost Adjustment Factor	$0.00122	$0.00125
(42)			
(43)	Renewable Energy Standard Charge	$0.00040	$0.00040
(44)			
(45)			
(46)	Volumetric Charge per kWh	$0.19015	$0.18674

Column (a): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096
Column (b):
Lines (1, 7, 9, 11, 15, 19, 21, 23, 27, 29, 33) per Summary of Retail Delivery Service Rates tariff
Lines (37, 39, 43) per Summary of Rates Standard Offer Service tariff
Line (3): n/a
Line (5): Page 16, Line (3)
Line (7): Schedule HSG-F (REV-1), Line (92)
Line (17): Schedule PP-2 (REV-1), Page 1, Section 2, Line (3)
Line (25): Page 13, Line (13)
Line (31): Page 12, Line (10)
Line (35): Page 17, Line (7)
Line (41): Page 18, Line (7)
Line (46): sum of Lines (1) through (43)

The Narragansett Electric Company
Calculation of 2017 Base Transmission Factors
Effective January 1, 2018

		Total	Residential A16/ A60 (a)	Small Commercial & Industrial C06 (b)	General Commercial & Industrial G02 (c)	Large Demand B32/G32 (d)	Large Demand B62/G62/X01 (e)	Combined B32/G32 B62/G62/X01 (f)	Street Lighting S05/S06 S10/S14 (g)
(1)	Estimated Transmission Expenses	$212,722,033							
(2)	Coincident Peak Allocator	100.00%	45.12%	8.92%	17.07%	23.44%	5.05%	28.48%	0.41%
(3)	Estimated 2017 Transmission Expenses by Rate Class	$212,722,033	$95,975,112	$18,976,592	$36,301,176	$49,857,577	$10,734,534	$60,592,111	$877,043
(4)	Allocated Estimated 2016 Transmission Expenses	$178,151,436	$79,595,694	$15,675,426	$29,787,336	$42,177,437	$10,138,531	$52,315,968	$777,012
(5)	Increase/(Decrease)	$34,570,597	$16,379,417	$3,301,166	$6,513,840	$7,680,140	$596,002	$8,276,142	$100,031
(6)	Percentage Increase/(Decrease)	19.41%	20.58%	21.06%	21.87%	18.21%	5.88%	15.82%	12.87%
(7)	Forecast 2017 Demand kW	11,451,784			4,545,406	5,657,297	1,249,081	6,906,378	
(8)	Forecast kWh for the period April 1, 2017 through March 31, 2018	7,423,513,683	3,027,852,906	596,142,607	1,295,163,245	1,988,885,728	454,899,445	2,443,785,174	60,569,751
(9)	Current Transmission kW Charge				$3.59	$3.97	$3.22	$3.83	
(10)	Proposed Transmission kW Charge				$4.37	$4.69	$3.40	$4.43	
(11)	Transmission Expenses to be Recovered on a kW Basis	$50,458,679			$19,863,424	$26,532,725	$4,246,874	$30,595,255	
(12)	Transmission Expenses to be Recovered on a kWh Basis	$162,263,354	$95,975,112	$18,976,592	$16,437,752	$23,324,852	$6,487,659	$29,996,856	$877,043
(13)	Proposed Transmission kWh Charge		$0.03169	$0.03183	$0.01269	$0.01172	$0.01426	$0.01227	$0.01447

Columns (a), (b), (c), (d), (e), (g) per 2017 Electric Retail Rate Filing, RIPUC Docket No 4691, Schedule ASC-11, Page 1
Column (f) Combination of Columns (d) and (e) - See Line Descriptions below

(1) per 2017 Electric Retail Rate Filing, RIPUC Docket No 4691, Schedule TMF-1, Page 1, Line (11)
(2) Columns (a), (b), (c), (d), (e), (g) per 2017 Electric Retail Rate Filing, RIPUC Docket No 4691, Schedule ASC-11, Page 2, Column (j); Column (f) sum of Columns (d) and (e); Total Column sum of Columns (a), (b), (c), (f), (g)
(3) Line 2 x Total Line 1; Total Column sum of Columns (a), (b), (c), (f), (g)
(4) per 2016 Electric Retail Rate Filing, RIPUC Docket No 4599 Schedule ASC-11, Page 1 of 2, Line (3); Column (f) sum of Columns (d) and (e); Total Column sum of Columns (a), (b), (c), (f), (g)
(5) Line 3 - Line 4; Total Column sum of Columns (a), (b), (c), (f), (g)
(6) Line 5 ÷ Line 4
(7) per Company forecast; Column (f) sum of Columns (d) and (e); Total Column sum of Columns (a), (b), (c), (f), (g)
(8) per Company forecast; Column (f) sum of Columns (d) and (e); Total Column sum of Columns (a), (b), (c), (f), (g)
(9) Columns (a), (b), (c), (d), (e), (g) per 2016 Electric Retail Rate Filing, RIPUC Docket No 4599, Schedule ASC-11, Page 1, Line (10); Column (f) per 2016 Electric Retail Rate Filing, RIPUC Docket No 4599, Schedule ASC-11, Page 1 - rate classes B32/G32 and B62/G62, weighted average of sum of lines (7) and (11)
(10) Higher of current charge or Line 9 x (1 + Line 6)
(11) Line 7 x Line 10; Total Column sum of Columns (c) and (f)
(12) Line 3 - Line 11; Total Column sum of Columns (a), (b), (c), (f), (g)
(13) Line 12 ÷ Line 8 truncated to five decimal places

The Narragansett Electric Company
Calculation of Transmission Adjustment Factor
Effective January 1, 2018

	Total	Residential A16/ A60 (a)	Small Commercial & Industrial C06 (b)	General Commercial & Industrial G02 (c)	Large Demand B32/G32 (d)	Large Demand B62/G62/X01 (e)	Combined B32/G32 B62/G62/X01 (f)	Street Lighting S05/S06 S10/S14 (g)
(1) Transmission Over/(Under) Recovery	$6,523,275	$867,714	$2,235,697	$2,626,915	$1,555,754	($300,386)	$1,255,368	($462,420)
(2) Plus: Estimated Interest During the Refund/Recovery Period	$93,993	$12,503	$32,214	$37,851	$22,417	($4,328)	$18,089	($6,663)
(3) Total Transmission Over(Under) Recovery (including interest)	$6,617,268	$880,217	$2,267,911	$2,664,766	$1,578,170	($304,714)	$1,273,456	($469,083)
(4) Forecasted kWhs During Recovery Period	7,423,513,683	3,027,852,906	596,142,607	1,295,163,245	1,988,885,728	454,899,445	2,443,785,174	60,569,751
(5) Proposed Transmission Adjustment Charge/(Credit)		($0.00029)	($0.00380)	($0.00205)	($0.00079)	$0.00066	($0.00052)	$0.00774

(1) Columns (a), (b), (c), (d), (e), (g) per 2017 Electric Retail Rate Filing, RIPUC Docket No 4691, ASC-12 Revised, Page 2; Column (f) sum of Columns (d) and (e)
(2) Columns (a), (b), (c), (d), (e), (g) per 2017 Electric Retail Rate Filing, RIPUC Docket No 4691, ASC-13 Revised, Page 2; Total Column sum of Columns (a), (b), (c), (f), and (g)
(3) Line (1) + Line (2); Total Column sum of Columns (a), (b), (c), (f), and (g)
(4) per Company forecast; Column (f) sum of Columns (d) and (e); Total Column sum of Columns (a), (b), (c), (f), and (g)
(5) Line 3 ÷ Line 4, truncated to five decimal places

The Narragansett Electric Company
Calculation of Transmission Uncollectible Factor
Effective January 1, 2018

		Total	Residential A16/ A60 (a)	Small Commercial & Industrial C06 (b)	General Commercial & Industrial G02 (c)	Large Demand B32/G32 (d)	Large Demand B62/G62/X01 (e)	Combined B32/G32 B62/G62/X01 (f)	Street Lighting S05/S06 S10/S14 (g)
(1)	Estimated Base Transmission Revenue	$212,722,033	$95,975,112	$18,976,592	$36,301,176	$49,857,577	$10,734,534	$60,592,111	$877,043
(2)	Transmission Service (Over)/Under Collection	($6,617,268)	($880,217)	($2,267,911)	($2,664,766)	($1,578,170)	$304,714	($1,273,456)	$469,083
(3)	Transmission Uncollectible (Over)/Under Collection Balance	$34,297	$13,081	$5,407	($2,561)	$6,350	$11,009	$17,359	$1,011
(4)	Total	$206,139,062	$95,107,975	$16,714,087	$33,633,849	$48,285,757	$11,050,257	$59,336,014	$1,347,136
(5)	Proposed Uncollectible Rate	1.30%							
(6)	Estimated Transmission-related Uncollectible Expense	$2,679,808	$1,236,404	$217,283	$437,240	$627,715	$143,653	$771,368	$17,513
(7)	Forecasted kWh	7,423,513,683	3,027,852,906	596,142,607	1,295,163,245	1,988,885,728	454,899,445	2,443,785,174	60,569,751
(8)	Proposed Transmission Uncollectible Factor per kWh		$0.00040	$0.00036	$0.00033	$0.00031	$0.00031	$0.00031	$0.00028
(9)	2016 Transmission Uncollectible Reconciliation Factor		$0.00000	$0.00000	$0.00000	$0.00000	$0.00002	$0.00000	$0.00001
(10)	Proposed Transmission Uncollectible Factor		$0.00040	$0.00036	$0.00033	$0.00031	$0.00033	$0.00031	$0.00029

(1) Columns (a), (b), (c), (d), (e), (g) per 2017 Electric Retail Rate Filing, RIPUC Docket No 4691, ASC-11, Page 1, Line (3); Column (f) sum of Columns (d) and (e); Total Column sum of Columns (a), (b), (c), (f), (g)

(2) Columns (a), (b), (c), (d), (e), (g) from 2017 Electric Retail Rate Filing, RIPUC Docket No 4691, Schedule ASC-13 revised, page 1, line (3); Column (f) sum of Columns (d) and (e); Total Column sum of Columns (a), (b), (c), (f), (g); Column (f) sum of Columns (d) and (e); Total Column sum of Columns (a), (b), (c), (f), (g)

(3) Columns (a), (b), (c), (d), (e), (g) from 2017 Electric Retail Rate Filing, RIPUC Docket No 4691, Schedule ASC-15 Revised, page 1, Line 14

(4) Line (1) + Line (2) + Line (3); Total Column sum of Columns (a), (b), (c), (f), (g)

(5) per Schedule MAL-22, Page 6, Line 15

(6) Line (4) x Line (5); Total Column sum of Columns (a), (b), (c), (f), (g)

(7) per Company forecast for the recovery/(refund) period; Total Column sum of Columns (a), (b), (c), (f), (g)

(8) Line (6) ÷ Line (7), truncated to five decimal places

(9) Columns (a), (b), (c), (d), (e), (g) from 2017 Electric Retail Rate Filing, RIPUC Docket No 4691, Schedule ASC-15 Revised, page 1, Line 17; Column (f) per 2017 Electric Retail Rate Filing, RIPUC Docket No 4691, Schedule ASC-15 Revised, Page 1 - rate classes B32/G32 and B62/G62, weighted average of sum of lines (15) and (16)

(10) Line (8) + Line (9)

The Narragansett Electric Company
LTCRER Factor Calculation
Effective January 1, 2018

(1)	Ending Under-Recovery Balance, Calendar Year 2016	($7,523,488)
(2)	Interest	($36,740)
(3)	Ending Balance Including Interest	($7,560,228)
(4)	Interest During Recovery Period	($75,245)
(5)	Ending Balance Including Interest During the Recovery Period	($7,635,473)
(6)	Forecasted kWhs for the period	7,423,513,683
(7)	Unadjusted charge per kWh	$0.00102
(8)	LTC Recovery Factor Effective July 1, 2017 (prior to Uncollectible Adjustments)	$0.00555
(9)	LTC Recovery Reconciliation Factor Effective April 1, 2017, prior to Uncollectible Adjustments	$0.00102
(10)	Combined LTC Factor, prior to Uncollectible Adjustments	$0.00657
(11)	Proposed Uncollectible Allowance	1.3%
(12)	Adjustment for Uncollectible Allowance	$0.00008
(13)	Proposed LTC Recovery Factor	$0.00665

(1) per 2017 Electric Retail Rate Filing, Docket No. 4691. Schedule ASC-18, Page 1, Ending Balance
(2) per 2017 Electric Retail Rate Filing, Docket No. 4691. Schedule ASC-18, Page 1, Line (1)
(3) Line (1) + Line (2)
(4) 2017 Electric Retail Rate Filing, Docket No. 4691. Schedule ASC-18, Page 2
(5) Line (3) + Line (4)
(6) per Company forecast
(7) Line (5) ÷ Line (6), truncated to 5 decimal places
(8) per LTC Recovery Factor filing, Docket No. 4673. May 2017, Attachment 1, Page 1, Line (6)
(9) per 2017 Electric Retail Rate Filing, Docket No. 4691. Schedule ASC-18, Page 1, Line (6)
(10) Line (8) + Line (9)
(11) per Schedule MAL-22, Page 6, Line 15
(12) Line (10) x Line (11)
(13) Line (10) + Line (12)

The Narragansett Electric Company
Renewable Energy Growth Program
Renewable Energy Growth Program Factors
Effective January 1, 2018

		Total	Residential A16 / A60 (a)	Small Commercial & Industrial C06 (b)	General Commercial & Industrial G02 (c)	Large Demand B32 / G32 (d)	Large Demand B62 / G62 (e)	Combined B32/G32 B62 / G62 (f)	Street Lighting S05/S06 S10 / S14 (g)	Electric Propulsion X01 (h)
(1)	Projected Annual Renewable Energy Growth Program Cost	$7,598,773								
(2)	Total Rate Base ($000s)	$561,738	$296,490	$54,542	$82,460	$77,651	$19,545	$97,196	$29,286	$1,764
(3)	Percentage of Total (RBA)	100.00%	52.78%	9.71%	14.68%	13.82%	3.48%	17.30%	5.21%	0.31%
(4)	Allocated Expense	$7,598,773	$4,010,692	$737,805	$1,115,458	$1,050,407	$264,391	$1,314,798	$396,164	$23,857
(5)	Forecasted Number of Bills/Luminaires (FBill)	7,009,440	5,257,356	608,568	98,664	12,696	144	12,840	1,032,000	12
(6)	Proposed REG Factor - monthly per bill charge		$0.76	$1.21	$11.30	$82.73	$1,836.04	$102.39	$0.38	$1,988.05
(7)	Uncollectible Percentage (UP)	1.30%	1.30%	1.30%	1.30%	1.30%	1.30%	1.30%	1.30%	1.30%
(8)	Proposed RE Growth Factors		$0.77	$1.22	$11.44	$83.81	$1,860.22	$103.73	$0.38	$2,014.23

Columns (a), (b), (c), (d), (e), (g) per RE Growth Factor Filing, RIPUC Docket No. 4707, Schedule ASC-2, Page 4
Column (f) Combination of Columns (d) and (e) - See Line Descriptions below

(1) RE Growth Factor Filing, RIPUC Docket No. 4707, Schedule ASC-2, Page 1, Line (6)
(2) per RIPUC 4323, Compliance Attachment 3A, (Schedule HSG-1), page 2, line 10; Column (f) sum of Columns (d) and (e)
(3) Line (2) ÷ Line (2) Total Column; Total Column sum of Columns (a), (b), (c), (f), (g), (h)
(4) Line (1) Total Column x Line (3); Total Column sum of Columns (a), (b), (c), (f), (g), (h)
(5) Company forecast for the period October 1, 2017 through September 30, 2018; for Streetlighting number represents individual fixtures; Column (f) sum of Columns (d) and (e); Total Column sum of Columns (a), (b), (c), (f), (g), (h)
(6) Line (4) ÷ Line (5), truncated to 2 decimal places
(7) Proposed Uncollectible percentage, per Schedule MAL-22, Page 6, Line 15
(8) Line (6) ÷ (1- Line (7)), truncated to 2 decimal places

The Narragansett Electric Company
Renewable Energy Growth Program
RE Growth Cost Recovery Reconciling Factors
Effective January 1, 2018

		Total	Residential A16 / A60 (a)	Small Commercial & Industrial C06 (b)	General Commercial & Industrial G02 (c)	Large Demand B32 / G32 (d)	Large Demand B62 / G62 (e)	Combined B32/G32 B62 / G62 (f)	Street Lighting S05/S06 S10 / S14 (g)	Electric Propulsion X01 (h)
(1)	RE Growth Program Year 2017 Cost (Over)/Under Recovery	$281,221								
(2)	Total Rate Base ($000s)	$561,738	$296,490	$54,542	$82,460	$77,651	$19,545	$97,196	$29,286	$1,764
(3)	Rate Base as Percentage of Total (RBA)	100.00%	52.78%	9.71%	14.68%	13.82%	3.48%	17.30%	5.21%	0.31%
(4)	Allocated 2017 Program Year (Over)/Under Recovery	$281,221	$148,431	$27,305	$41,282	$38,874	$9,785	$48,659	$14,662	$883
(5)	Forecasted Number of Bills/Luminaires (Fbill)	7,009,440	5,257,356	608,568	98,664	12,696	144	12,840	1,032,000	12
(6)	Proposed Class-specific RE Growth Reconciling Factor per Month		$0.02	$0.04	$0.41	$3.06	$67.94	$3.78	$0.01	$73.57
(7)	Proposed Uncollectible Percentage (UP)		1.30%	1.30%	1.30%	1.30%	1.30%	1.30%	1.30%	1.30%
(8)	Proposed Factor incl. Adjustment for Uncollectible Allowance (X%)		$0.02	$0.04	$0.41	$3.10	$68.83	$3.82	$0.01	$74.53

Columns (a), (b), (c), (d), (e), (g) per RE Growth Factor Filing, RIPUC Docket No. 4707, Schedule ASC-3, Page , Section (2)
Column (f) Combination of Columns (d) and (e) - See Line Descriptions below

(1) RE Growth Factor Filing, Docket No. 4707, Schedule ASC-3, Page 1, Line (5)
(2) per RIPUC 4323, Compliance Attachment 3A, (Schedule HSG-1), page 2, line 10; Column (f) sum of Columns (d) and (e)
(3) Line (2) ÷ Line (2) Total Column; Total Column sum of Columns (a), (b), (c), (f), (g), (h)
(4) Line (1) Total Column x Line (3); Total Column sum of Columns (a), (b), (c), (f), (g), (h)
(5) Company forecast for the period October 1, 2017 through September 30, 2018; for Streetlighting number represents individual fixtures; Column (f) sum of Columns (d) and (e); Total Column sum of Columns (a), (b), (c), (f), (g), (h)
(6) Line (4) ÷ Line (5), truncated to 2 decimal places
(7) Proposed Uncollectible percentage, per Schedule MAL-22, Page 6, Line 15
(8) Line (6) ÷ (1- Line (7)), truncated to 2 decimal places

The Narragansett Electric Company
Renewable Energy Growth Program
Combined Monthly RE Growth Cost Recovery Factors
Effective January 1, 2018

		Residential A16 / A60 (a)	Small Commercial & Industrial C06 (b)	General Commercial & Industrial G02 (c)	Large Demand B32 / G32 (d)	Large Demand B62 / G62 (e)	Combined B32/G32 B62 / G62 (f)	Street Lighting S05/S06 S10 / S14 (g)	Electric Propulsion X01 (h)
(1)	RE Growth Factor (Costs for PYE March 2018)	$0.77	$1.22	$11.44	$83.81	$1,860.22	$103.73	$0.38	$2,014.23
(2)	RE Growth Reconciliation Factor (Costs for PYE March 2017)	$0.02	$0.04	$0.41	$3.10	$68.83	$3.82	$0.01	$74.53
(3)	Proposed Combined RE Growth Factor	$0.79	$1.26	$11.85	$86.91	$1,929.05	$107.55	$0.39	$2,088.76

(1) Page 14, Line (8)
(2) Page 15, Line (8)
(3) Line (1) + Line (2)

The Narragansett Electric Company
Energy Efficiency Factor Calculation
Effective January 1, 2018

(1)	Currently Effective Energy Efficiency Program charge per kWh, excluding uncollectible recovery:	$0.01108
(2)	Currently Effective System Reliability Factor per kWh, excluding uncollectible recovery:	$0.00002
(3)	Total Effective Energy Efficiency Charge per kWh, excluding uncollectible recovery:	$0.01110
(4)	Proposed Uncollectible Rate	1.30%
(5)	Energy Efficiency Program charge per kWh, including proposed uncollectible recovery:	$0.01124
(6)	Renewable Energy Charge	$0.00030
(7)	Proposed Energy Efficiency Charge	$0.01154

(1) per Energy Efficiency Program Plan For 2017, Docket No. 4654, Attachment 5, Page 1, Line (9)
(2) per Energy Efficiency Program Plan For 2017, Docket No. 4654, Attachment 5, Page 1, Line (10)
(3) per Energy Efficiency Program Plan For 2017, Docket No. 4654, Attachment 5, Page 1, Line (11)
(4) Proposed Uncollectible percentage, per Schedule MAL-22, Page 6, Line 15
(5) Line 3 ÷ (1-Line (4)), truncated to 5 decimal places
(6) Renewable Energy Charge per R.I.G.L. §39-2-1.2
(7) Line (5) + Line (6)

The Narragansett Electric Company
Calculation of Standard Offer Service Administrative Cost Factor
Effective January 1, 2018

		Total	Residential	Commercial	Industrial
		(a)	(b)	(c)	(d)
(1)	Estimated Commodity Related Uncollectible Expense for 2017	$3,137,281	$2,172,700	$794,276	$170,305
(2)	Estimated Other Administrative Expense for 2017	$2,828,342	$2,013,777	$657,335	$157,230
(3)	Estimated Total Administrative Expense for 2017	$5,965,623	$4,186,477	$1,451,611	$327,535
(4)	Forecasted SOS kWh for the period of April 1, 2017 through March 31, 2018	3,846,663,819	2,641,130,580	972,590,232	232,943,007
(5)	Estimated SOS Administrative Cost Factor		$0.00158	$0.00149	$0.00140
(6)	SOS Administrative Cost Reconciliation Adjustment Factor		($0.00007)	($0.00024)	($0.00015)
(7)	Proposed SOS Administrative Cost Factor		$0.00151	$0.00125	$0.00125

(1) from Page 19, line (3)
(2) fom Page 20, line (4)
(3) Line (1) + Line (2)
(4) per 2017 Electric Retail Rate Filing, Docket No. 4691, Schedule ASC-3, page 2, line (4)
(5) Line 3 ÷ Line 4, truncated to 5 decimal places
(6) per 2017 Electric Retail Rate Filing, Docket No. 4691, Schedule ASC-7, Page 1 Lines (15), (10) and (5)
(7) Line (5) + Line (6)

The Narragansett Electric Company
Calculation of Standard Offer Service Administrative Cost Factor
Effective January 1, 2018

Commodity-Related Uncollectible Expense for April 1, 2017 through March 31, 2018

		Residential (a)	Commercial (b)	Industrial (c)	Total (d)
(1)	Estimated Rate Year Cost/Revenue	$167,130,743	$61,098,118	$13,100,418	$241,329,280
(2)	Uncollectible Rate	1.30%	1.30%	1.30%	
(3)	Rate Year Commodity-Related Uncollectible Expense	$2,172,700	$794,276	$170,305	$3,137,281

(1) per 2017 Electric Annual Retail Rate Filing, RIPUC Docket No. 4691, Schedule ASC-4, Page 2, Section 1, Columns (c), (f), and (i), Line (13)
(2) Proposed Uncollectible percentage, per Schedule MAL-22, Page 6, Line 15
(3) Line (1) x Line (2)

The Narragansett Electric Company
Calculation of Standard Offer Service Administrative Cost Factor
Effective January 1, 2018

		Total	Residential	Commercial	Industrial
		(a)	(b)	(c)	(d)
(1)	Estimated GIS Cost	$44,285	$31,644	$10,314	$2,327
(2)	Estimated CWC	$2,420,321	$1,723,269	$561,515	$135,538
(3)	Estimate of Other Administrative Costs	$363,736	$258,864	$85,507	$19,365
(4)	Total Other Administrative Expenses	$2,828,342	$2,013,777	$657,335	$157,230

(1) from 2017 Electric Retail Rate Filing, Docket No. 4691, Schedule ASC-5 Revised, Page 4, column (g), Page 5, column (g) and Page 6, column (g)
(2) from 2017 Electric Retail Rate Filing, Docket No. 4691, Schedule ASC-5, Page 4, column (h), Page 5, column (h) and Page 6, column (h)
(3) from 2017 Electric Retail Rate Filing, Docket No. 4691, Schedule ASC-5, Page 4, column (i), Page 5, column (i) and Page 6, column (i), less costs incurred in CY 2016 for Northbridge study

(4) Line (1) + Line (2) + Line (3)

The Narragansett Electric Company
FY18 Proposed Operations & Maintenance Factors
Effective January 1, 2018

		Total	Residential A16 / A60 (a)	Small Commercial & Industrial C06 (b)	General Commercial & Industrial G02 (c)	Large Demand B32 / G32 (d)	Large Demand B62 / G62 (e)	Combined B32/G32 B62 / G62 (f)	Street Lighting S05/S06 S10 / S14 (g)	Electric Propulsion X01 (h)
(1)	FY2018 Forecasted Vegetation Management (VM) and Inspection & Maintenance (I&M) O&M Expense	$10,306,051								
(2)	Operating & Maintenance Expense - Rate Year Allowance ($000s)	$35,640	$17,115	$3,503	$5,508	$5,438	$1,306	$6,744	$2,668	$102
(3)	Percentage of Total	100.00%	48.02%	9.83%	15.45%	15.26%	3.66%	18.92%	7.49%	0.29%
(4)	Allocated Vegetation Management (VM) and Inspection & Maintenance (I&M) O&M Expense	$10,306,051	$4,949,160	$1,012,966	$1,592,753	$1,572,511	$377,657	$1,950,169	$771,508	$29,495
(5)	Forecasted kWh - April 2017 through March 2018	6,724,493,045	3,027,852,906	596,142,607	596,142,607	1,988,885,728	431,021,320	2,419,907,048	60,569,751	23,878,126
(6)	Proposed Vegetation Management (VM) and Inspection & Maintenanc (I&M) O&M Expense Charge per kWh		$0.00163	$0.00169	$0.00267	$0.00079	n/a	$0.00080	$0.01273	$0.00123
(7)	Forecasted kW - April 2017 through March 2018						1,037,528			
(8)	Proposed Vegetation Management (VM) and Inspection & Maintenanc (I&M) O&M Expense Charge per kW		n/a	n/a	n/a	n/a	$0.36	n/a	n/a	n/a

Columns (a), (b), (c), (d), (e), (g) per FY 2018 Electric Infrastructure, Safety, and Reliability Plan, RIPUC Docket No. 4682, Section 6 Revised: Rate Design, Page 2
Column (f) Combination of Columns (d) and (e) - See Line Descriptions below

(1) per Revised Section 5: Attachment 1S, page 1, line 4, column (b)
(2) per R.I.P.U.C. 4323, Compliance Attachment 3A, (Schedule HSG-1), page 4, line 72; Column (f) Sum of Columns (d) and (e)
(3) Line (2) ÷ Line (2) Total Column; Total Column sum of Columns (a), (b), (c), (f), (g), (h)
(4) Line (1) Total Column x Line (3); Total Column sum of Columns (a), (b), (c), (f), (g), (h)
(5) per Company forecasts; Column (f) Sum of Columns (d) and (e); Total Column sum of Columns (a), (b), (c), (f), (g), (h)
(6) Line (4) ÷ Line (5), truncated to 5 decimal places
(7) per Company forecasts
(8) Line (4) ÷ Line (7), truncated to 2 decimal places

The Narragansett Electric Company
Proposed CapEx Reconciling Factors
For Fiscal Year 2017 ISR Plan
Effective January 1, 2018

		Total	Residential A16 / A60 (a)	Small Commercial & Industrial C-06 (b)	General Commercial & Industrial G-02 (c)	Large Demand B32 / G32 (d)	Large Demand B62 / G62 (e)	Combined B32/G32 B62 / G62 (f)	Street Lighting S05/S06 S10 / S14 (g)	Electric Propulsion X01 (h)
(1)	Actual FY2017 Capital Investment Revenue Requirement	$10,303,388								
(2)	Total Rate Base ($000s)	$561,738	$296,490	$54,542	$82,460	$77,651	$19,545	$97,196	$29,286	$1,764
(3)	Rate Base as Percentage of Total	100.00%	52.78%	9.71%	14.68%	13.82%	3.48%	17.30%	5.21%	0.31%
(4)	Allocated Actual FY2017 Capital Investment Revenue Requirement	$10,303,388	$5,438,209	$1,000,410	$1,512,480	$1,424,276	$358,495	$1,782,772	$537,170	$32,348
(5)	CapEx Revenue Billed	$17,507,073	$9,435,653	$1,709,223	$2,630,079	$2,473,402	$555,383	$3,028,786	$647,114	$56,218
(6)	Total Over Recovery for FY 2017	$7,203,685	$3,997,444	$708,813	$1,117,599	$1,049,126	$196,888	$1,246,014	$109,945	$23,871
(7)	Remaining Over (Under) For FY 2015	$96,576	$71,407	$3,936	$141,442	($67,802)	($34,333)	($102,135)	($18,859)	$785
(8)	Total Over (Under) Recovery	$7,300,261	$4,068,851	$712,749	$1,259,041	$981,324	$162,555	$1,143,879	$91,086	$24,656
(9)	Forecasted kWhs - October 1, 2017 through September 30, 2018	7,337,969,020	2,998,659,138	595,774,268	1,278,569,621	1,957,175,257	423,715,760	2,380,891,017	60,279,246	23,795,730
(10)	Proposed Class-specific CapEx Reconciling Factor (Credit) per kWh		($0.00135)	($0.00119)	($0.00098)	($0.00050)	($0.00038)	($0.00048)	($0.00151)	($0.00103)

Columns (a), (b), (c), (d), (e), (g) per FY 2017 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing, RIPUC Docket No. 4592, Attachment ASC-2, page 1
Column (f) Combination of Columns (d) and (e) - See Line Descriptions below

(1) Total per FY 2017 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing, RIPUC Docket No. 4592, Attachment AM-1, Page 1, Line (15)
(2) per R.I.P.U.C. 4323, Compliance Attachment 3A, (Schedule HSG-1), page 2, Line (10); Column (f) sum of Columns (d) and (e); Total Column sum of Columns (a), (b), (c), (f), (g), (h)
(3) Line (2) ÷ Line (2) Total Column; Total Column sum of Columns (a), (b), (c), (f), (g), (h)
(4) Line (1) Total Column x Line (3); Total Column sum of Columns (a), (b), (c), (f), (g), (h)
(5) per FY 2017 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing, RIPUC Docket No. 4592, Attachment ASC-2, page2; Column (f) sum of Columns (d) and (e); Total Column sum of Columns (a), (b), (c), (f), (g), (h)
(6) Line (5) - Line (4); Total Column sum of Columns (a), (b), (c), (f), (g), (h)
(7) per FY 2017 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing, RIPUC Docket No. 4592, Attachment ASC-2, page 3; Column (f) sum of Columns (d) and (e); Total Column sum of Columns (a), (b), (c), (f), (g), (h)
(8) Line (6) + Line (7); Total Column sum of Columns (a), (b), (c), (f), (g), (h)
(9) per Company forecasts; ; Column (f) sum of Columns (d) and (e); Total Column sum of Columns (a), (b), (c), (f), (g), (h)
(10) -1 x [Line (8) ÷ Line (9)], truncated to 5 decimal places