PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
2015 ENERGY SERVICE RATE CALCULATION
RATE EFFECTIVE JULY 1, 2015
(Dollars in 000's)

Summary of Forecasted Energy Service Cost For January 2015 Through December 2015	TOTAL COST	Cents per KWH	Reference
Fossil energy costs	$ 91,739	$ 2.14	Attachment CJG-2, page 2
F/H O&M, depreciation & taxes	120,706	$ 2.81	Attachment CJG-2, page 2
Return on rate base	41,008	$ 0.95	Attachment CJG-2, page 2
ISO-NE ancillary	3,696	$ 0.09	Attachment CJG-2, page 2
Capacity	(2,406)	$ (0.06)	Attachment CJG-2, page 2
NH RPS	6,020	$ 0.14	Attachment CJG-2, page 2
Seabrook costs / (credits)	(194)	$ (0.00)	Attachment CJG-2, page 2
Vermont Yankee	(309)	$ (0.01)	Attachment CJG-2, page 2
RGGI costs	2,577	$ 0.06	Attachment CJG-2, page 2
IPP costs (*)	15,099	$ 0.35	Attachment CJG-2, page 2
Burgess BioPower	29,494	$ 0.69	Attachment CJG-2, page 2
Purchases and sales	53,701	$ 1.25	Attachment CJG-2, page 2
Return on ES Deferral	(69)	$ (0.00)	Attachment CJG-2, page 2
2014 Actual ES under recovery	17,274		
Total Updated Energy Service Cost	$ 378,337		
Total Updated Revenue	411,434		
2015 ES (Over)/Under Recovery	(33,097)		
Forecasted Retail MWH Sales July - December 2015	2,047,099		
Change to Energy Service Rate - cents per kwh	(1.62)		
Energy Service Rate as approved in DE 14-235 - cents per kwh	9.58		
Updated Energy Service Rate w/o Scrubber - cents per kwh	7.96		
Plus Scrubber ES Rate cents per kwh per DE 11-250	0.98		
Total Updated Energy Service Rate Effective 7/1/15 - cents per kwh	8.94		

(*) The IPP costs represent the forecasted market value of IPP generation.

Docket No. DE 14-235
Dated: 05/04/2015
Attachment CJG-2
Page 1

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
2015 ENERGY SERVICE RATE CALCULATION
RATE EFFECTIVE JULY 1, 2015
(Dollars in 000's)

Energy Service Cost	January 2015 Actual	February 2015 Actual	March 2015 Actual	April 2015 Estimate	May 2015 Estimate	June 2015 Estimate	Reference	
Fossil energy costs	$ 17,671	$ 31,619	$ 10,561	$ 196	$ 568	$ 1,114	CJG-2, P3	61,730
F/H O&M, depreciation & taxes	8,107	8,967	7,426	13,990	11,829	8,398	CJG-2, P5	58,717
Return on rate base	3,561	3,521	3,533	3,291	3,126	3,267	CJG-2, P6	20,299
ISO-NE ancillary	893	1,101	1,331	431	(3,658)	562	CJG-2, P3	660
Capacity	698	606	298	12	(150)	(556)	CJG-2, P3	908
NH RPS	2,000	2,000	(5,308)	760	743	808	CJG-2, P3	1,003
Millstone NEIL Refunds	-	-	(194)	-	-	-		(194)
Vermont Yankee	(288)	3	(24)	-	-	-		(309)
RGGI costs	11	1,057	282	-	-	14	CJG-2, P3	1,364
IPP costs (*)	1,912	3,230	1,191	1,021	936	903	CJG-2, P3	9,193
Burgess BioPower	1,641	2,104	1,787	2,884	1,714	2,884	CJG-2, P3	13,014
Purchases and sales (inc. Congestion and Loss Adj.)	3,297	(12,911)	6,386	6,971	5,955	7,293	CJG-2, P3	16,991
Return on ES Deferral	22	18	9	(0)	(7)	(19)		23
2014 Actual ES under recovery	17,274							17,274
Total Energy Service Cost	$ 56,798	$ 41,316	$ 27,278	$ 29,557	$ 21,056	$ 24,668		200,674
Total Energy Service Revenue at 9.58 cents/kwh	$ 45,211	$ 41,076	$ 38,661	$ 29,713	$ 29,073	$ 31,588	#	
ES Under/(Over) Recovery	11,588	241	(11,383)	(156)	(8,017)	(6,921)		
Forecasted Retail MWH Sales	482,767	419,590	403,418	310,159	303,477	329,732		
Energy Service Cost - cents per kwh	11.77	9.85	6.76	9.53	6.94	7.48		

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(*) The IPP costs represent the forecasted market value of IPP generation.

Amounts shown above may not add due to rounding.

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PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
2015 ENERGY SERVICE RATE CALCULATION
RATE EFFECTIVE JULY 1, 2015
(Dollars in 000's)

Energy Service Cost	July 2015 Estimate	August 2015 Estimate	September 2015 Estimate	October 2015 Estimate	November 2015 Estimate	December 2015 Estimate	Total	Reference
Fossil energy costs	$ 5,056	$ 568	$ 1,093	$ 568	$ 4,066	$ 18,658	$ 91,739	CJG-2, P3
F/H O&M, depreciation & taxes	9,256	8,587	12,631	13,830	8,959	8,727	120,706	CJG-2, P5
Return on rate base	3,332	3,346	3,386	3,483	3,564	3,597	41,008	CJG-2, P6
ISO-NE ancillary	663	597	559	353	368	495	3,696	CJG-2, P3
Capacity	(439)	(616)	(718)	(822)	(532)	(187)	(2,406)	CJG-2, P3
NH RPS	939	889	729	709	776	975	6,020	CJG-2, P3
Millstone NEIL Refunds	-	-		-	-	-	(194)	
Vermont Yankee	-	-	-	-	-	-	(309)	
RGGI costs	181	-	17	-	178	837	2,577	CJG-2, P3
IPP costs (*)	835	643	611	763	1,201	1,853	15,099	CJG-2, P4
Burgess BioPower	2,974	2,974	2,884	1,714	2,884	3,050	29,494	CJG-2, P3
Purchases and sales (inc. Congestion and Loss Adj.)	8,526	10,705	6,444	7,312	7,930	(4,208)	53,701	CJG-2, P3
Return on ES Deferral	(24)	(24)	(21)	(14)	(7)	(2)	(69)	
2014 Actual ES under recovery							17,274	
Total Energy Service Cost	$ 31,300	$ 27,671	$ 27,615	$ 27,895	$ 29,386	$ 33,796	$ 378,337	
Total Energy Service Revenue at 9.58 cents/kwh	$ 36,691	$ 34,743	$ 28,520	$ 27,740	$ 30,340	$ 38,077	$ 411,434	
ES Under/(Over) Recovery	(5,391)	(7,073)	(905)	155	(954)	(4,281)	$ (33,097)	
Forecasted Retail MWH Sales	382,996	362,665	297,708	289,562	316,706	397,461	4,296,241	
Energy Service Cost - cents per kwh	8.17	7.63	9.28	9.63	9.28	8.50	8.81	

(*) The IPP costs represent the forecasted market value of IPP generation.

Amounts shown above may not add due to rounding.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
2015 ENERGY SERVICE RATE CALCULATION
RATE EFFECTIVE JULY 1, 2015

PSNH Generation (GWh) and Expense ($000)
IPP's Priced at Market Rate

			Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Total
Hydro:	Energy		37.175	25.123	23.383	39.187	37.810	29.323	23.532	19.283	15.405	23.510	31.722	31.768	337.220
Coal:	Energy		325.573	338.621	178.026	-	-	0.620	58.693	-	1.239	-	73.740	343.911	1,320.423
	Energy Expense	$	16,257	16,253	8,329	-	-	42	2,836	-	83	-	3,516	16,479	63,795
Wood:	Energy		29.451	20.791	26.759	9.835	28.473	27.554	28.473	28.473	27.554	28.473	27.554	28.473	311.863
	Energy Expense	$	1,617	1,603	1,530	593	1,717	1,662	1,717	1,717	1,662	1,717	1,662	1,717	18,911
	Revenue Credit	$	(1,203)	(917)	(1,114)	(397)	(1,148)	(1,111)	(1,148)	(1,148)	(1,111)	(1,148)	(1,111)	(1,148)	(12,708)
IC/Jets	Energy		0.023	0.361	(0.073)	-	-	-	-	-	-	-	-	-	0.312
	Energy Expense	$	18	127	-	-	-	-	-	-	-	-	-	-	145
Newington:	Energy		5.968	95.216	1.801	-	-	8.835	29.450	-	9.424	-	-	13.367	164.062
	Energy Expense	$	982	14,553	1,817	-	-	523	1,651	-	459	-	-	1,611	21,596
IPP's:	Energy		25.555	25.849	21.776	31.210	32.757	27.192	19.121	16.964	18.065	21.151	21.795	22.618	284.052
	Energy Expense	$	1,816	3,134	1,102	930	846	830	762	570	539	668	1,107	1,758	14,062
	ICAP	$	96	96	90	91	91	73	73	73	72	95	95	94	1,037
Burgess BioPower	Energy		21.038	27.680	23.129	38.394	21.821	38.394	39.674	39.674	38.394	21.821	38.394	39.674	388.086
	Expense	$	1,468	1,931	1,614	2,711	1,541	2,711	2,801	2,801	2,711	1,541	2,711	2,801	27,339
	ICAP	$	173	173	173	173	173	173	173	173	173	173	173	249	2,154
Contract Purchases	Energy		8.861	6.170	35.606	23.891	36.254	38.877	2.863	2.754	3.675	5.257	6.463	6.037	176.708
	Expense	$	506	671	1,701	1,098	1,570	1,554	150	145	193	276	339	422	8,624
	ICAP	$	26	26	25	19	19	9	9	9	9	21	21	21	215
Energy Purchases	Energy		66.201	44.865	131.966	186.389	164.707	178.939	214.386	277.439	201.948	206.853	148.662	3.806	1,826.160
	Expense	$	5,187	4,755	7,756	5,910	4,434	5,793	8,929	10,632	6,297	7,073	8,020	360	75,146
Energy Sales	Energy		(40.497)	(146.247)	(50.884)	-	-	(0.071)	(10.046)	-	-	-	(12.482)	(68.169)	(328.396)
	(Credit)	$	(2,422)	(18,362)	(3,096)	-	-	(4)	(592)	-	-	-	(569)	(5,843)	(30,886)
Congestion and Loss Adjustment		$	-	-	-	(56)	(69)	(59)	30	(81)	(55)	(57)	119	831	603
Total Energy GWH			479.347	438.428	391.490	328.906	321.820	349.662	406.147	384.587	315.704	307.064	335.849	421.486	4,480.491
Total Energy Expense		$	24,521	24,043	19,925	11,072	9,173	12,194	17,392	14,891	11,032	10,357	16,081	19,354	190,033
ISO-NE Ancillary		$	893	1,101	1,331	431	(3,658)	562	663	597	559	353	368	495	3,696
NH RPS		$	2,000	2,000	(5,308)	760	743	808	939	889	729	709	776	975	6,020
RGGI Costs		$	11	1,057	282	-	-	14	181	-	17	-	178	837	2,577
Capacity (sold)/bought MW-mo			181	160	61	4	(48)	(168)	(132)	(186)	(217)	(249)	(162)	(57)	(813)
Capacity (sold)/bought Cost ($000)		$	698	606	298	12	(150)	(556)	(439)	(616)	(718)	(822)	(532)	(187)	(2,406)

Amounts shown above may not add due to rounding.

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PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
2015 ENERGY SERVICE RATE CALCULATION
RATE EFFECTIVE JULY 1, 2015

Forecasted PSNH IPP Market Value - April - December 2015

Month	IPP GWh	IPP Energy at Mkt Value ($000)	Capacity MW	ICAP Value $/kw-mo	ICAP ($000)	Total ($000)	Total $/MWh
April	31.210	930	29.2	3.11	91	1,021	32.72
May	32.757	846	29.2	3.10	91	936	28.58
June	27.192	830	22.0	3.32	73	903	33.21
July	19.121	762	22.0	3.31	73	835	43.67
August	16.964	570	22.0	3.31	73	643	37.91
September	18.065	539	22.0	3.30	72	611	33.83
October	21.151	668	28.7	3.30	95	763	36.05
November	21.795	1,107	28.7	3.29	95	1,201	55.12
December	22.618	1,758	28.7	3.29	94	1,853	81.91
Total	210.873	8,010			756	8,766	41.57

Amounts shown above may not add due to rounding.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
2015 ENERGY SERVICE RATE CALCULATION
Fossil / Hydro O&M, Depreciation & Taxes Detail
RATE EFFECTIVE JULY 1, 2015
(Dollars in 000's)

Fossil / Hydro O&M, Depr. & Taxes	January 2015 Actual	February 2015 Actual	March 2015 Actual	April 2015 Estimate	May 2015 Estimate	June 2015 Estimate	July 2015 Estimate	August 2015 Estimate	September 2015 Estimate	October 2015 Estimate	November 2015 Estimate	December 2015 Estimate	Total
F/H Operation & Maintenance Cost	$ 5,582	$ 5,891	$ 4,663	$ 11,030	$ 8,920	$ 5,490	$ 6,344	$ 5,736	$ 9,712	$ 10,844	$ 6,049	$ 5,809	$ 86,069
F/H Depreciation Cost	1,630	1,626	1,627	1,654	1,677	1,675	1,678	1,682	1,685	1,698	1,698	1,705	20,036
F/H Property Taxes	664	1,179	859	984	984	984	984	984	984	984	984	984	11,559
F/H Payroll and Other Taxes	182	223	229	272	198	198	198	134	198	251	176	176	2,435
Amort. of Asset Retirement Obligation	48	48	48	50	50	50	51	51	51	52	52	52	607
Total F/H O&M, Depr. and Taxes	$ 8,107	$ 8,967	$ 7,426	$ 13,990	$ 11,829	$ 8,398	$ 9,256	$ 8,587	$ 12,631	$ 13,830	$ 8,959	$ 8,727	$ 120,706

Amounts shown above may not add due to rounding.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
2015 ENERGY SERVICE RATE CALCULATION
FOSSIL/HYDRO RETURN ON RATE BASE
RATE EFFECTIVE JULY 1, 2015
(Dollars in 000's)

Line		January 2015	February 2015	March 2015	April 2015	May 2015	June 2015	July 2015	August 2015	September 2015	October 2015	November 2015	December 2015	Total
12	**Return on Rate Base**	Actual	Actual	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	
15	Rate base													
16	Net Plant	274,683	275,978	277,272	279,757	289,475	288,739	289,881	291,291	292,644	297,720	297,660	300,647	
18	Working Capital Allow. (45 days of O&M)	11,024	11,024	11,024	11,024	11,024	11,024	11,024	11,024	11,024	11,024	11,024	11,024	
19	Fossil Fuel Inventory	95,075	95,075	95,075	40,364	48,429	53,792	53,718	53,653	59,018	67,147	71,172	71,124	
20	Mat'ls and Supplies	55,216	55,216	55,216	57,162	57,162	57,162	57,162	57,162	57,162	57,162	57,162	57,162	
21	Prepayments	1,500	1,500	1,500	1,061	1,061	1,061	1,061	1,061	1,061	1,061	1,061	1,061	
22	Deferred Taxes	(36,345)	(36,345)	(36,345)	(39,183)	(38,120)	(37,342)	(36,228)	(34,814)	(33,750)	(31,698)	(31,512)	(29,454)	
23	Other Regulatory Obligations	(16,388)	(16,388)	(16,388)	(16,931)	(17,821)	(10,374)	(11,263)	(12,153)	(13,043)	(13,933)	(14,823)	(15,713)	
24	Total Rate Base (L15 thru L22)	384,766	386,061	387,355	333,254	351,211	364,062	365,355	367,225	374,116	388,483	391,744	395,851	
26	Average Rate Base (prev + curr month)	389,820	385,413	386,708	360,305	342,233	357,637	364,709	366,290	370,671	381,300	390,114	393,798	
27	x Return	0.9135%	0.9135%	0.9135%	0.9135%	0.9135%	0.9135%	0.9135%	0.9135%	0.9135%	0.9135%	0.9135%	0.9135%	
28	Return (L25 x L26)	$ 3,561	$ 3,521	$ 3,533	$ 3,291	$ 3,126	$ 3,267	$ 3,332	$ 3,346	$ 3,386	$ 3,483	$ 3,564	$ 3,597	$ 41,008

Amounts shown above may not add due to rounding.