EXHIBIT
#8
DE 18-023

Public Service of New Hampshire d/b/a Eversource Energy
Docket No. DE 18-023

Date Request Received: 03/01/2018 | **Date of Response: 03/09/2018**
Date Supplement Request Received: 03/14/2018 | **Date of Supplement Response: 03/15/2018**
Request No. STAFF 1-010-SP01 |
Request from: **New Hampshire Public Utilities Commission Staff**

Witness: **Christopher J. Goulding**

Request:
Reference CJG-1, page 5 of 5, line 15. Please provide detailed monthly actuals/estimates for non-scrubber energy service under recovery for January, February and March 2018, along with calculations.

Response:
ORIGINAL RESPONSE:

Please see Attachment Staff 1-010.

SUPPLEMENTAL RESPONSE:

Please see Attachment Staff 1-010(Updated) for the detailed monthly actual/estimates for the forecasted April 30, 2018 non-scrubber energy service under-recovery included in the SCRC updated filing submitted on March 14, 2018.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
(Dollars in 000s)

Line	Energy Service Cost	January 2018 Actual	February 2018 Actual	March 2018 Estimate	April 2018 Estimate	Total	Reference
10	Fossil energy costs	$ 15,211	$ 329	$ -	$ -	$ 15,540	CJG-4, P3, Lines 11+14+15+18+21
11	F/H O&M, depreciation & taxes	4,864	1,741	1,301	-	7,906	CJG-4, P5, Line 19
12	Return on rate base	3,184	2,578	2,578	2,202	10,541	CJG-4, P6, Line 27
13	ISO-NE ancillary	(137)	862	472	-	1,197	CJG-4, P3, Line 47
14	Capacity	(1,450)	6,107	5,476	-	10,134	CJG-4, P3, Line 52
15	NH RPS	4,515	2,564	2,586	-	9,665	CJG-4, P3, Line 48
16	Vermont Yankee	5	2	-	-	6	
17	RGGI costs	357	-	-	-	357	CJG-4, P3, Line 49
18	IPP costs (*)	1,747	682	835	-	3,264	CJG-4, P3, Line 24+25
19	Burgess BioPower	3,516	3,134	3,219	-	9,869	CJG-4, P3, Line 28+29
20	Purchases and sales (inc. Congestion and Loss Adj.)	(2,433)	17,123	8,875	-	23,565	CJG-4, P3, Lines 32+33+36+39+41
21	Return on ES Deferral	55	54	57	55	223	
22	Amortization of Scrubber	1,468	1,468	1,468	1,468	5,871	
23	2017 Actual ES under recovery	25,785	-	-	-	25,785	
25	Total Energy Service Cost	$ 56,688	$ 36,644	$ 26,866	$ 3,725	$ 123,923	
27	Total Energy Service Revenue at 9.94 cents/kWh	$ 39,355	$ 28,907	$ 32,137	$ -	$ 100,399	
29	ES Under/(Over) Recovery	17,333	7,737	(5,271)	3,725	$ 23,523	
31	Forecasted Retail MWh Sales	345,084	258,137	285,665			
33	Energy Service Cost - cents per kWh	16.43	14.20	9.40			

(*) 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
PSNH Generation (GWh) and Expense ($000)
IPPs Priced at Market Rate
(Dollars in 000s)

Line			Jan-18	Feb-18	Mar-18	Apr-18	Total
7	Hydro:	Energy	35.319		35.103	0.000	70.422
9	Coal:	Energy					-
10		Energy Expense	5,141	224	0	0	5,365
12	Wood:	Energy	7.706	0.000	0.000	0.000	7.706
13		Energy Expense	652	104	0	0	755
15	IC/Jets	Energy	0.000	0.000	0.000	0.000	0.000
16		Energy Expense	1	0	0	0	1
18	Newington:	Energy	59.388	0.000	0.000	0.000	59.388
19		Energy Expense	9,418	1	0	0	9,419
21	IPP's:	Energy	15.501	13.372	20.912	0.000	49.785
22		Energy Expense	1,747	578	614	0	2,939
23		ICAP		104	221	0	325
25	Burgess BioPower	Energy	50.265	44.330	44.696	0.000	139.291
26		Expense	3,238	2,856	2,941	0	9,035
27		ICAP	278	278	278	0	834
29	Contract Purchases	Energy	34.342	6.785	125.478	0.000	166.605
30		Expense	3,297	14,736	6,211	0	24,244
31		ICAP	50	50	44	-	145
33	Energy Purchases	Energy	129.067	52.285	81.314	0.000	262.666
34		Expense	12,662	2,812	2,596	0	18,070
36	Energy Sales	Energy	(126.903)	(16.685)	(0.018)	0.000	(143.606)
37		(Credit)	(18,442)	(475)	(0)	0	(18,917)
39	Congestion and Loss Adjustment		0	0	23	0	23
41	Total Energy GWh		204.684	100.086	307.485	0.000	612.256
42	Total Energy Expense		18,041.77	21,267.74	12,928.92	-	52,238
45	ISO-NE Ancillary		(137)	862	472	0	1,197
46	NH RPS		4,515	2,564	2,586	0	9,665
47	RGGI Costs		357	0	0	0	357
49	Capacity (sold)/bought MW-mo		(297)		786	0	489
50	Capacity (sold)/bought Cost ($000)		(1,450)	6,107	5,476	0	10,134

Amounts shown above may not add due to rounding.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
Fossil / Hydro O&M, Depreciation & Taxes Detail
(Dollars in 000s)

Fossil / Hydro O&M, Depr. & Taxes	January 2018 Actual	February 2018 Actual	March 2018 Estimate	April 2018 Estimate	Total
F/H Operation & Maintenance Cost	$ 2,947	$ 2,429	$ 910	$ -	$ 6,285
F/H Depreciation Cost	1,038	100	100	-	1,238
F/H Property Taxes	421	(838)	259		(158)
F/H Payroll and Other Taxes	437	48	30		516
Amort. of Asset Retirement Obligation	21	2	2	-	25
Total F/H O&M, Depr. and Taxes	$ 4,864	$ 1,741	$ 1,301	$ -	$ 7,906

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Docket No. DE 18-023
Date Request: Staff 1-010
Dated: 03/01/2018
Attachment Staff 1-010 (Updated)

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
FOSSIL/HYDRO RETURN ON RATE BASE
(Dollars in 000s)

Line		January	February	March	April	Total
8		January	February	March	April	
9		2108	2108	2108	2108	Total
10	**Return on Rate Base**	Actual	Estimate	Estimate	Estimate	
11						
12	Rate base (Thermal)					
13	Net Plant	537,049	537,049	537,049	537,049	
14	Fossil Fuel Inventory	76,447	76,447	76,447	76,447	
15	Mat'ls and Supplies	71,089	71,089	71,089	71,089	
16	Deferred Taxes	(138,160)	(138,160)	(138,160)	(138,160)	
17	Other Regulatory Obligations	(37,679)	(37,679)	(37,679)	(37,679)	
18	Sales Proceeds from Thermals	(133,930)	(133,930)	(133,930)	(133,930)	
19	Total Rate Base (L13 thru L18)	374,816	374,816	374,816	374,816	
20						
21	Average Rate Base (prev + curr month)	451,575	374,816	374,816	374,816	
22	x Return	0.6598%	0.5874%	0.5874%	0.5874%	
23	Return (L27 x L28)	$ 2,811	$ 2,202	$ 2,202	$ 2,202	$ 9,416
24						
25						
26	Rate base (Hydro)					
27	Net Plant	53,364	53,353	53,295		
28	Working Capital Allow. (45 days of O&M)	1,067	1,067	1,067		
29	Mat'ls and Supplies	306	306	306		
30	Deferred Taxes	(7,949)	(7,949)	(7,949)		
31	Total Rate Base (L27 thru L30)	46,788	46,776	46,718		
32						
33	Average Rate Base (prev + curr month)	46,359	46,782	46,747		
34	x Return	0.8046%	0.8046%	0.8046%		
35	Return (L33 x L34)	$ 373	$ 376	$ 376		$ 1,125

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