Public Service Company of New Hampshire Docket No. DE 10-195

Record Request HD-02 Dated: 01/26/2011 Q-RR-005 Page 1 of 2

Witness:

Richard C. Labrecque, Gary A. Long, Terrance J. Large

Request from:

New Hampshire Public Utilities Commission Staff

Question:

(Exhibit PSNH-15): Please provide the assumed rate impact for 2015, using a range of assumptions for market prices, wood prices and REC prices.

Response:

See the attached.

DE 10-195

Exhibit No. # 13 PSPA

POTENTIAL E

Facility Size (MW) 67.5 67.5 67.5 67.5 67.5 67.5 67.5 67.5		Case 1	Case 1a	Case 1b	Case 2	Case 2a	Case 2b
Capacity Factor (%) 87.5% 87.5	Eggility Size (MMA)	Low Market	Low Market	Low Market	High Market	High Market	High Market
Annual MWH 517,388 517							
### PPA Product Pricina Terms Wood Price (\$ften)	. , , ,						
Second Price (\$Mow) S27.00 S30.00 S27.00 S30.00 S27.00 S30.00 S27.00 S30.00 S27.00	Annual www.	517,388	517,388	517,388	517,388	517,388	517,388
PPA Energy Price (\$MWH) \$70.40 \$75.80 \$70.40							
PPA REC Price (\$ of ACP) 80% 80% 80% 80% 80% 80% 80% 80% 80% 80%	, ,		\$30.00	\$27.00	\$27.00	\$30.00	\$27.00
2010 ACP (\$IREC) \$60.93 \$60.94	PPA Energy Price (\$/MWH)	\$70.40	\$75.80	\$70.40	\$70.40		
2010 ACP (\$I/REC) \$60.93 \$60.9	PPA REC Price (% of ACP)	80%	80%	80%	80%	80%	80%
Assumed CPI 2010 - 2015 (%) 2.5% 2.5% 2.5% 2.5% 2.5% 2.5% 2.5% 2.5%	2010 ACP (\$/REC)	\$60.93	\$60.93	\$60.93			
2015 ACP (\$I/REC) \$88.94 \$68.95 \$55.15 \$55.15 \$55.15 \$55.15 \$55.15 \$55.15 \$55.15 \$55.15 \$55.15 \$55.15 \$55.15 \$55.15 \$55.15 \$55.15 \$55.15 \$55.15 \$55.15 \$55.15 \$66.65 \$6.60 \$6.60	Assumed CPI 2010 - 2015 (%)	2.5%	2.5%	2.5%			
PPA REC Price (\$/REC) \$55.15 \$	2015 ACP (\$/REC)	\$68.94	\$68.94	\$68.94			
PPA Capacity Price (\$/MWH) \$6.65 \$6.	PPA REC Price (\$/REC)	\$55.15	\$55.15	\$55.15			
PPA Capacity Price (\$/MWH) \$6.65 \$6.	PPA Capacity Price (\$/kw-mo)	\$4.25	\$4.25	\$4.25	\$4.25	\$4.25	\$4.2E
Annual PPA Payments (\$000) \$68,399 \$71,193 \$68,399 \$68,399 \$71,193 \$71,193 \$71	PPA Capacity Price (\$/MWH)						
Annual PPA Payments (\$000) \$68,399 \$71,193 \$68,399 \$68,399 \$71,193 \$71,193 \$71	Total PPA Price (\$/MWH)	\$132.20	\$137.60	\$132.20	\$132.20	\$127.60	£422.00
Avoided Costs of Products Energy Market (\$MWH) \$60.00 \$60.00 \$60.00 \$100.00 \$100.00 \$100.00 REC Market (% of ACP) 80% 80% 100% 80% 80% 100% REC Market (\$REC) \$55.15 \$55.15 \$68.94 \$55.15 \$55.15 \$68.94 Capacity Market (\$/kw-mo) \$2.86 \$2.86 \$2.86 \$2.86 \$2.86 \$2.86 \$2.86 Capacity Market (\$/kWH) \$4.48 \$4.48 \$4.48 \$4.48 \$4.48 Total Avoided Costs (\$/MWH) \$119.63 \$119.63 \$119.63 \$133.42 \$159.63 \$159.63 \$173.42 Annual Avoided Costs (\$000) \$61,895 \$61,895 \$69,029 \$82,591 \$82,591 \$89,725 Energy Service Rate Impact Annual Rate Impact (\$000) = PPA Payments minus Avoided Costs (\$000) \$6,503 \$9,297 (\$630) (\$14,192) (\$11,398) (\$21,326) Delivery Sales Forecast (MWH) 8,064,644 8,064,645 8,064,646 8,064,644 8,064,645 8,064,646 Migration Assumption (%) 31% 31% 31% 31% 31% 31% 31% Energy Service Sales (MWH) 5,564,604 5,564,605 5,564,606 5,564,606 5,564,605 5,564,606 Rate Impact (Centra per KWH) 0.12 0.17 (0.01) (0.26) (0.20) (0.38)	Annual PPA Payments (\$000)						
Energy Market (\$/MWH) \$60.00 \$60.00 \$60.00 \$100.00 \$100.00 \$100.00 \$100.00 \$REC Market (\$ of ACP) 80% 80% 100% 10			***************************************	400,000	ψου,ουσ	Ψ71,133	φυυ,39 9
REC Market (% of ACP) 80% 80% 100% 80% 80% 100%	Avoided Costs of Products						
REC Market (% of ACP) 80% 80% 100% 80% 80% 100% 80% 100% 80% 100% 80% 100% 80% 100% 80% 100% 80% 100% 80% 100% 10	Energy Market (\$/MWH)	\$60.00	\$60.00	\$60.00	\$100.00	\$100.00	\$100.00
REC Market (\$/REC) \$55.15 \$55.15 \$68.94 \$55.15 \$55.15 \$68.94 \$2.86	REC Market (% of ACP)	80%	80%				
Capacity Market (\$/kw-mo) \$2.86 \$2.8	REC Market (\$/REC)	\$55.15	\$55.15				
Capacity Market (\$/MWH) \$4.48	Capacity Market (\$/kw-mo)	\$2.86	\$2.86	\$2.86			
Total Avoided Costs (\$/MWH) \$119.63 \$119.63 \$133.42 \$159.63 \$159.63 \$173.42 Annual Avoided Costs (\$000) \$61,895 \$61,895 \$69,029 \$82,591 \$82,591 \$89,725 \$	Capacity Market (\$/MWH)	\$4.48	\$4.48				
Annual Avoided Costs (\$000) \$61,895 \$61,895 \$69,029 \$82,591 \$82,591 \$89,725 Energy Service Rate Impact Annual Rate Impact (\$000) = PPA Payments minus Avoided Costs (\$000) \$6,503 \$9,297 (\$630) (\$14,192) (\$11,398) (\$21,326) Delivery Sales Forecast (MWH) 8,064,644 8,064,645 8,064,646 8,064,644 8,064,645 8,064,646 Migration Assumption (%) 31% 31% 31% 31% 31% 31% 31% 31% Energy Service Sales (MWH) 5,564,604 5,564,605 5,564,606 Rate Impact (cents per KWH) 0.12 0.17 (0.01) (0.26) (0.20) (0.38) Monthly Bill Impact	Total Avoided Costs (\$/MWH)	\$119.63	\$119.63	\$133,42	• •		
Annual Rate Impact (\$000) = PPA Payments minus Avoided Costs (\$000) \$6,503 \$9,297 (\$630) (\$14,192) (\$11,398) (\$21,326) Delivery Sales Forecast (MWH) 8,064,644 8,064,645 8,064,646 8,064,644 8,064,645 8,064,646 Migration Assumption (%) 31% 31% 31% 31% 31% 31% 31% 31% Energy Service Sales (MWH) 5,564,604 5,564,605 5,564,606 5,564,606 Rate Impact (cents per KWH) 0.12 0.17 (0.01) (0.26) (0.20) (0.38)	Annual Avoided Costs (\$000)	\$61,895	\$61,895				
PPA Payments minus Avoided Costs (\$000) \$6,503 \$9,297 (\$630) (\$14,192) (\$11,398) (\$21,326) Delivery Sales Forecast (MWH) 8,064,644 8,064,645 8,064,646 8,064,644 8,064,645 8,064,646 Migration Assumption (%) 31% 31% 31% 31% 31% 31% 31% 31% Energy Service Sales (MWH) 5,564,604 5,564,605 5,564,606 Rate Impact (cents per KWH) 0.12 0.17 (0.01) (0.26) (0.20) (0.38)	Energy Service Rate Impact						
Delivery Sales Forecast (MWH) 8,064,644 8,064,645 8,064,646 8,064,645 8,064,645 8,064,646 Migration Assumption (%) 31% 31% 31% 31% 31% 31% 31% 31% 31% Senergy Service Sales (MWH) 5,564,604 5,564,605 5,564,606 5,564,606 Fate Impact (cents per KWH) 0.12 0.17 (0.01) (0.26) (0.20) (0.38) Monthly Bill Impact	Annual Rate Impact (\$000) =						
Delivery Sales Forecast (MWH) 8,064,644 8,064,645 8,064,646 8,064,644 8,064,645 8,064,646 8,064,	PPA Payments minus Avoided Costs (\$000)	\$6,503	\$9.297	(\$630)	(\$14.192)	(\$11.398)	(\$21.326)
Migration Assumption (%) 31% 31% 31% 31% 31% 31% 31% 31% 31% 31%	Delivery Sales Forecast (MWH)	8,064,644					
Energy Service Sales (MWH) 5,564,604 5,564,605 5,564,606 5,564,604 5,564,605 5,564,606 Rate Impact (cents per KWH) 0.12 0.17 (0.01) (0.26) (0.20) (0.38) Monthly Bill Impact	Migration Assumption (%)	31%					
Rate Impact (cents per KWH) 0.12 0.17 (0.01) (0.26) (0.20) (0.38) Monthly Bill Impact	Energy Service Sales (MWH)	5,564,604	5.564.605				
(Desidential 750 (MMI) (Char)	Rate Impact (cents per KWH)	0.12					
(Residential, 750 KWH) (\$/mo) \$0.88 \$1.25 (\$0.08) (\$1.91) (\$1.54) (\$2.87)	Monthly Bill Impact						
(41.67)	(Residential, 750 KWH) (\$/mo)	\$0.88	\$1.25	(\$0.08)	(\$1.91)	(\$1.54)	(\$2.87)

