

RHODE ISLAND PUBLIC UTILITIES COMMISSION

IN RE: REVIEW OF AMENDED POWER :  
PURCHASE AGREEMENT BETWEEN : DOCKET NO. 4185  
NARRAGANSETT ELECTRIC COMPANY :  
D/B/A NATIONAL GRID AND DEEPWATER :  
WIND BLOCK ISLAND, LLC PURSUANT TO :  
R.I. GEN. LAWS § 39-26.1-7 :

Addendum to Attorney General Patrick C. Lynch's Response to  
National Grid's Data Request 1-2

Certain documents were forwarded by the Attorney General in connection with the email version of the set of data request responses furnished by the Attorney General in response to National Grid's Data Request 1-2.

The seven documents (worksheets) are provided herewith to complete the official paper filing.

RESPECTFULLY SUBMITTED  
INTERVENOR,

PATRICK C. LYNCH  
ATTORNEY GENERAL

By his Attorney,



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Mike Rubin, Esquire (#3656)  
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**CERTIFICATE OF SERVICE**

I hereby certify that on the 2nd day of August, 2010, that I transmitted an electronic copy of the within document to the service list and to Luly Massaro, Commission Clerk via electronic mail.

A handwritten signature in black ink, appearing to read "Pamela Spina". The signature is written in a cursive style with large, flowing loops.

\\attgfs01\Civil\M. Rubin\deepwater legislation\drafts of doc to be filed at the PUC\Addendum to AG PCL's Response to NGrids Data Request 1-2.doc

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2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	
10	11	12	13	14	15	16	17	18	19	20	21	
321.23	332.48	344.11	356.16	368.62	381.53	394.88	408.70	423.01	437.81	453.13	468.99	
3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	
100,915	100,915	100,915	100,915	100,915	100,915	100,915	100,915	100,915	100,915	100,915	75,686	
32,417,421	33,552,030	34,726,351	35,941,774	37,199,736	38,501,726	39,849,287	41,244,012	42,687,552	44,181,617	45,727,973	35,496,222	
8,616,969	7,952,791	9,131,048	8,956,634	9,183,483	9,842,158	9,654,649	10,556,690	11,282,785	11,098,055	12,480,917	12,161,411	
23,800,452	25,599,239	25,595,303	26,985,140	28,016,253	28,659,568	30,194,638	30,687,322	31,404,767	33,083,562	33,247,056	23,334,811	505,276,077
1,799,302	1,799,302	1,799,302	1,799,302	1,799,302	1,799,302	1,799,302	1,799,302	1,574,389			163,995,860	
1,799,302	1,799,302	1,799,302	1,799,302	1,799,302	1,799,302	1,799,302	1,799,302	1,574,389			26,989,530	
1,799,302	1,799,302	1,799,302	1,799,302	1,799,302	1,799,302	1,799,302	1,799,302	1,574,389			190,985,390	
22,001,150	23,799,937	23,796,001	25,185,838	26,216,951	26,860,266	28,620,249	30,687,322	31,404,767	33,083,562	33,247,056	23,334,811	314,290,687
7,700,402	8,329,978	8,328,600	8,815,043	9,175,933	9,401,093	10,017,087	10,740,563	10,991,669	11,579,247	11,636,470	8,167,184	110,001,740
23,800,452	25,599,239	25,595,303	26,985,140	28,016,253	28,659,568	30,194,638	30,687,322	31,404,767	33,083,562	33,247,056	23,334,811	505,276,077
7,700,402	8,329,978	8,328,600	8,815,043	9,175,933	9,401,093	10,017,087	10,740,563	10,991,669	11,579,247	11,636,470	8,167,184	110,001,740
16,100,049	17,269,261	17,266,703	18,170,096	18,840,320	19,258,475	20,177,551	19,946,759	20,413,099	21,504,315	21,610,587	15,167,627	395,274,336
												56,652,022
16,100,049	17,269,261	17,266,703	18,170,096	18,840,320	19,258,475	20,177,551	19,946,759	20,413,099	21,504,315	21,610,587	15,167,627	451,926,358

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	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	
	11	12	13	14	15	16	17	18	19	20	21	
	213.77	219.12	224.60	230.21	235.97	241.87	247.91	254.11	260.46	266.97	273.65	
	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	
	100,915	100,915	100,915	100,915	100,915	100,915	100,915	100,915	100,915	100,915	75,686	
21,573,015	22,112,341	22,665,149	23,221,778	23,812,572	24,407,887	25,018,084	25,643,536	26,284,624	26,941,740	20,711,394		
6,681,417	6,848,452	7,019,664	7,195,155	7,375,034	7,559,410	7,748,395	7,942,105	8,140,658	8,344,174	8,552,778		
14,891,598	15,263,888	15,645,485	16,036,623	16,437,538	16,848,477	17,269,689	17,701,431	18,143,967	18,597,566	12,158,616	295,829,106	
1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	118,316,918	87%
1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	20,800,000	13%
											139,116,918	
13,504,932	13,877,222	14,258,819	14,649,956	15,050,872	15,808,477	17,269,689	17,701,431	18,143,967	18,597,566	12,158,616	156,712,188	
4,726,726	4,857,028	4,990,587	5,127,485	5,267,805	5,532,967	6,044,391	6,195,501	6,350,388	6,509,148	4,255,515	54,849,266	
14,891,598	15,263,888	15,645,485	16,036,623	16,437,538	16,848,477	17,269,689	17,701,431	18,143,967	18,597,566	12,158,616	295,829,106	
4,726,726	4,857,028	4,990,587	5,127,485	5,267,805	5,532,967	6,044,391	6,195,501	6,350,388	6,509,148	4,255,515	54,849,266	
10,164,872	10,406,861	10,654,899	10,909,138	11,169,733	11,315,510	11,225,298	11,505,930	11,793,578	12,088,418	7,903,100	240,979,840	
											41,760,000	
10,164,872	10,406,861	10,654,899	10,909,138	11,169,733	11,315,510	11,225,298	11,505,930	11,793,578	12,088,418	7,903,100	282,739,840	

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2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	
11	12	13	14	15	16	17	18	19	20	21	
213,777	219,112	224,600	230,210	235,970	241,870	247,910	254,110	260,460	266,970	273,650	
2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	
100,915	100,915	100,915	100,915	100,915	100,915	100,915	100,915	100,915	100,915	75,686	
21,573,015	22,112,341	22,665,149	23,231,778	23,812,572	24,407,887	25,018,084	25,643,536	26,284,624	26,941,740	20,711,394	
6,681,417	6,848,452	7,019,664	7,195,155	7,375,034	7,559,410	7,748,395	7,942,105	8,140,658	8,344,174	8,552,778	
14,891,598	15,263,888	15,645,485	16,036,623	16,437,538	16,848,477	17,269,689	17,701,431	18,143,967	18,597,566	12,158,616	295,829,106
7,947,125	7,947,125	7,947,125	7,947,125	7,947,125	7,947,125	7,947,125	7,947,125	7,947,125	7,947,125	5,960,344	158,942,494
6,944,474	7,316,764	7,698,361	8,089,498	8,490,414	8,901,352	9,322,564	9,754,306	10,196,842	10,650,441	6,198,272	136,886,612
6,944,474	7,316,764	7,698,361	8,089,498	8,490,414	8,901,352	9,322,564	9,754,306	10,196,842	10,650,441	6,198,272	136,886,612
1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	118,316,918	87%
1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	20,800,000	13%
1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	139,116,918	
14,891,598	15,263,888	15,645,485	16,036,623	16,437,538	16,848,477	17,269,689	17,701,431	18,143,967	18,597,566	12,158,616	295,829,106
1,386,667	1,386,667	1,386,667	1,386,667	1,386,667	1,040,000	0	0	0	0	0	139,116,918
<u>3,654,076</u>	<u>3,389,291</u>	<u>3,108,173</u>	<u>2,809,717</u>	<u>2,492,853</u>	<u>2,156,446</u>	<u>1,799,290</u>	<u>1,420,104</u>	<u>1,017,532</u>	<u>590,130</u>	<u>146,317</u>	<u>66,502,677</u>
9,850,855	10,487,931	11,150,645	11,840,239	12,558,018	13,652,031	15,470,399	16,281,326	17,126,434	18,007,436	12,012,298	90,209,511
3,447,799	3,670,776	3,902,726	4,144,083	4,395,306	4,778,211	5,414,640	5,698,464	5,994,252	6,302,602	4,204,304	31,573,329
6,944,474	7,316,764	7,698,361	8,089,498	8,490,414	8,901,352	9,322,564	9,754,306	10,196,842	10,650,441	6,198,272	136,886,612
3,447,799	3,670,776	3,902,726	4,144,083	4,395,306	4,778,211	5,414,640	5,698,464	5,994,252	6,302,602	4,204,304	31,573,329
0	0	0	0	0	0	0	0	0	0	7,947,125	49,707,125
3,496,674	3,645,988	3,795,635	3,945,414	4,095,107	4,123,141	3,907,924	4,055,842	4,202,590	4,347,839	9,941,092	155,020,408

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Old Deepwater Wind Base Case

Year	Contract Price (\$)	Contract Escalation Rate (%)	Annual Electric Production (MWh)	Revenue Requirements (\$)
2013	244.00	3.50%	100,915	24,623,260
2014	252.54	3.50%	100,915	25,485,074
2015	261.38	3.50%	100,915	26,377,052
2016	270.53	3.50%	100,915	27,300,249
2017	280.00	3.50%	100,915	28,255,757
2018	289.80	3.50%	100,915	29,244,709
2019	299.94	3.50%	100,915	30,268,274
2020	310.44	3.50%	100,915	31,327,663
2021	321.30	3.50%	100,915	32,424,131
2022	332.55	3.50%	100,915	33,558,976
2023	344.19	3.50%	100,915	34,733,540
2024	356.23	3.50%	100,915	35,949,214
2025	368.70	3.50%	100,915	37,207,436
2026	381.61	3.50%	100,915	38,509,697
2027	394.96	3.50%	100,915	39,857,536
2028	408.79	3.50%	100,915	41,252,550
2029	423.09	3.50%	100,915	42,696,389
2030	437.90	3.50%	100,915	44,190,763
2031	453.23	3.50%	100,915	45,737,439
2032	469.09	3.50%	100,915	47,338,250
Total			2,018,300	696,337,958

New Deepwater Wind Base Case

Year	Contract Price (\$)	Contract Escalation Rate (%)	Annual Electric Production (MWh)	Revenue Requirements (\$)
2013	243.95	3.50%	100,915	24,618,164
2014	252.49	3.50%	100,915	25,479,800
2015	261.32	3.50%	100,915	26,371,593
2016	270.47	3.50%	100,915	27,294,598
2017	279.94	3.50%	100,915	28,249,909
2018	289.74	3.50%	100,915	29,238,656
2019	299.88	3.50%	100,915	30,262,009
2020	310.37	3.50%	100,915	31,321,179
2021	321.23	3.50%	100,915	32,417,421
2022	332.48	3.50%	100,915	33,552,030
2023	344.11	3.50%	100,915	34,726,351
2024	356.16	3.50%	100,915	35,941,774
2025	368.62	3.50%	100,915	37,199,736
2026	381.53	3.50%	100,915	38,501,726
2027	394.88	3.50%	100,915	39,849,287
2028	408.70	3.50%	100,915	41,244,012
2029	423.01	3.50%	100,915	42,687,552
2030	437.81	3.50%	100,915	44,181,617
2031	453.13	3.50%	100,915	45,727,973
2032	468.99	3.50%	100,915	47,328,452
Total			2,018,300	696,193,839

Cost Differential (\$)	Net Present Value (7%)
5,096	144,119
5,275	
5,459	
5,650	
5,848	
6,053	
6,265	
6,484	
6,711	
6,946	
7,189	
7,440	
7,701	
7,970	
8,249	
8,538	
8,837	
9,146	
9,466	
9,797	
	70,735

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Diesel

Year	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Total
2002			86,248	86,994	173,242
2003	959,497	531,695	851,776	337,094	2,680,062
2004	816,249	691,283	710,914	482,397	2,700,843
2005	801,031	651,054	802,830	578,637	2,833,552
2006	756,859	631,348	759,484	567,712	2,715,403
2007	775,343	672,176	914,615	702,757	3,064,891
2008	813,650	566,684	689,801	529,482	2,599,617
2009	664,970	368,680	273,716	225,802	1,535,177

Jet

Year	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Total
2002			18,227	2,253	20,480
2003	18,176	168,845	963,729	722,812	1,873,562
2004	229,136	777,915	304,103	374,250	1,685,404
2005	13,261	699,178	1,041,803	10,494	1,764,736
2006	31,111	766,790	1,184,853	466,473	2,449,227
2007	232,435	1,165,252	1,246,977	849,301	3,493,965
2008	547,315	742,716	1,117,203	579,113	2,986,347
2009	441,847	866,332	954,274	939,333	3,201,786

Coal

2009	4,731,676	3,578,838	3,287,310	3,638,134	15,237,967
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Natural Gas

2009	10,142,495	8,692,939	13,186,631	12,127,625	44,149,690
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### Oil-Fired Steam

<u>1st Qtr</u>	<u>2nd Qtr</u>	<u>3rd Qtr</u>	<u>4th Qtr</u>	<u>Total</u>
4,037,418	1,888,854	2,783,220	2,630,054	5,413,274
4,962,314	1,995,731	2,539,252	2,790,988	11,256,512
3,288,671	1,309,361	2,181,498	2,126,816	11,266,359
772,898	811,195	3,153,897	3,304,645	11,056,574
2,030,642	1,133,583	1,429,674	1,023,698	4,037,465
1,093,789	821,062	1,933,069	1,438,877	6,536,171
1,067,041	259,354	983,493	649,530	3,547,874
		453,863	259,354	2,039,612

### Oil

<u>1st Qtr</u>	<u>2nd Qtr</u>	<u>3rd Qtr</u>	<u>4th Qtr</u>	<u>Total</u>
0	0	2,887,695	2,719,301	5,606,996
5,015,091	2,589,394	4,354,757	3,850,894	15,810,136
6,007,699	3,464,929	3,196,515	2,983,463	15,652,606
4,102,963	2,659,593	4,998,530	3,893,776	15,654,862
1,560,868	2,209,333	3,374,011	2,057,883	9,202,095
3,038,420	2,971,011	4,094,661	2,990,935	13,095,027
2,454,754	2,130,462	2,790,497	1,758,125	9,133,838
2,173,858	1,494,366	1,681,853	1,424,489	6,776,575