

April 26, 2011

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#### VIA HAND DELIVERY

Ms. Ann Cole, Commission Clerk Florida Public Service Commission 2540 Shumard Oak Boulevard Tallahassee, Florida 32399-0850

Petition for approval of amended standard offer contract, by Progress Energy Florida; Re: Docket No. 110092-El

Dear Ms. Cole:

Please find attached for filing an original and five (5) copies of Progress Energy Florida, Inc.'s ("PEF") responses to Staff Data Request No. 1 dated April 13, 2011 in the above referenced docket.

Thank you for your assistance in this matter. Please feel free to call me at (727) 820-5184 should you have any questions.

> Sincerely, T. Burnett LMS

John T. Burnett

COM JTB/Ims APA Attachments ECR GCL Lee Eng Tan (FPSC) (RAD) SSC ADM OPC CLK

DOCUMENT NUMBER - DATE 0286| APR 26 = **FPSC-COMMISSION CLERK** 

## PROGRESS ENERGY FLORIDA, INC.'S RESPONSES TO STAFF DATA REQUEST NO. 1 DOCKET NO. 110092-EI

- Q1. Please complete the tables below describing payments to a renewable provider based on the parameters included in PEF's revised standard offer contract. Please assume the renewable generator is a 50 MW facility providing firm capacity at the minimum capacity factor required for full capacity payments. Additionally, please assume an inservice date of January 1, 2012 and a contract duration of 20 years. Please provide this information for the following scenarios:
  - Normal payments
  - Levelized Payments
  - Early Payments
  - Early Levelized Payments

Answer: Please see Attachment A.

- Q2. Please refer to paragraph 11.1, Section No. IX, Fourth Revised Sheet Nos. 9.423 and 9.424, Table 2 which lists the initial amounts of the Eligible Collateral the RF/QF shall deliver to PEF for 2011.
  - a. Please explain the reasons for the decrease in per MW amounts of Eligible Collateral for Credit Classes A- and Above, BBB-, and Below BBB-.

<u>Answer</u>: The methodology used to determine the amounts listed in Table 2 are based upon the capacity payment schedule in the Standard Offer Contract. The calculations use average capacity costs (those costs which would have to be incurred to secure power in the event of a renewable resource default) and take into account the amount of unsecured credit which would be granted to a company based on their creditworthiness. The capacity payment schedule for the current Standard Offer Contract is slightly lower than the capacity payment schedule for last year's Standard Offer Contract. Please refer to Attachment B for the methodology used to determine the Eligible Collateral requirements.

# b. Please explain why there is no change in the MW amount of Eligible Collateral for Credit Class BBB+ to BBB.

Answer: Please refer to Attachment C for the methodology used to determine the Eligible Collateral requirements for the 2010 Standard Offer Contract. This method DOCUMENT NUMBER-DATE

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FPSC-COMMISSION CLERK

shows that the Eligible Collateral required for Credit Class BBB+ to BBB should be \$111,000 to \$112,000 per MW. However, PEF felt that a requirement of \$80,000 per MW was more indicative of the market at the time.

## Q3. Please refer to Section No. IX, Fourth Revised Sheet No. 9.457.

Please explain why the "estimated incremental avoided energy costs for the next four semi-annual periods" all show an increase in the Average cents/KWH, yet the "estimated unit fuel costs" all show a decrease in \$/MMBTU based on current estimates of the price of natural gas.

<u>Answer</u>: When comparing the 2010 SOC with the 2011 SOC filing, and as a result of the Natural Gas forecasts decreasing, the "estimated incremental avoided energy costs for the next four semi-annual periods" have actually decreased, not increased. The chart below illustrates the decrease for the overlapping periods of April 1, 2011 – September 30, 2011 and October 1, 2011 – March 31, 2012.

	2010 Filing	2011 Filing
Applicable Period	Average	Average
	<u>¢/кwн</u>	<u>¢/КWН</u>
April 1, 2010 - September 30, 2010	5.0	
October 1, 2010 – March 31, 2011	4.2	
April 1, 2011 – September 30, 2011	5.2	5.1
October 1, 2011 – March 31, 2012	5.1	4.5
April 1, 2012 – September 30, 2012		5.7
October 1, 2012 – March 31, 2013		4.8

Attachment A PEF Response to Staff DR-1 Dkt# 110092-EQ Page 1 of 4

Committed Capacity (MW)	50
Capacity Factor (%)	94%
Payment Type	Normal

	Energy (MWH)	Capacity Rates (\$/kw- month)		Total Capacity Payments (\$000)		Energy Rates (\$/MWh)		Total Energy Payments (\$000)		Total Payments to Renewable Provider (\$000)	
2012	412,848	\$	-	\$		\$	45.30	\$	18,703	\$	18,703
2013	411,720	\$	-	\$	-	\$	50.91	\$	20,961	\$	20,961
2014	411,720	\$	-	\$	-	\$	52.01	\$	21,412	\$	21,412
2015	411,720	\$	-	\$	-	\$	55.72	\$	22,943	\$	22,943
2016	412,848	\$	-	\$	-	\$	60.26	\$	24,880	\$	24,880
2017	411,720	\$	-	\$	-	\$	62.97	\$	25,925	\$	25,925
2018	411,720	\$	-	\$	-	\$	64.48	\$	26,549	\$	26,549
2019	411,720	\$	-	\$	-	\$	71.50	\$	29,439	\$	29,439
2020	412,848	\$	5.69	\$	1,992	\$	69.78	\$	28,810	\$	30,801
2021	411,720	\$	5.80	\$	3,480	\$	64.35	\$	26,493	\$	29,973
2022	411,720	\$	5.92	\$	3,552	\$	62.04	\$	25,545	\$	29,097
2023	411,720	\$	6.04	\$	3,624	\$	54.89	\$	22,599	\$	26,223
2024	412,848	\$	6.16	\$	3,696	\$	60.00	\$	24,770	\$	28,466
2025	411,720	\$	6.28	\$	3,768	\$	68.09	\$	28,035	\$	31,803
2026	411,720	\$	6.40	\$	3,840	\$	68.49	\$	28,198	\$	32,038
2027	411,720	\$	6.53	\$	3,918	\$	71.66	\$	29,504	\$	33,422
2028	412,848	\$	6.66	\$	3,996	\$	74.70	\$	30,840	\$	34,836
2029	411,720	\$	6.80	\$	4,080	\$	76.36	\$	31,441	\$	35,521
2030	411,720	\$	6.93	\$	4,158	\$	81.26	\$	33,456	\$	37,614
2031	411,720	\$	7.07	\$	4,242	\$	84.08	\$	34,615	\$	38,857

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Committed Capacity (MW)	50
Capacity Factor (%)	94%
Payment Type	Levelized

		pacity lates	Total Capacity		Energy		Total Energy		Total ments to newable
	Energy	 5/kw-	yments	Rates		Payments		Provider	
	(MWH)	onth)	<b>\$000)</b>	(\$	<u>/MWh)</u>	(\$000)		(\$000)	
2012	412,848	\$ -	\$ -	\$	45.30	\$	18,703	\$	18,703
2013	411,720	\$ 	\$ -	\$	50.91	\$	20,961	\$	20,961
2014	411,720	\$ -	\$ -	\$	52.01	\$	21,412	\$	21,412
2015	411,720	\$ -	\$ -	\$	55.72	\$	22,943	\$	22,943
2016	412,848	\$ -	\$ -	\$	60.26	\$	24,880	\$	24,880
2017	411,720	\$ -	\$ -	\$	62.97	\$	25,925	\$	25,925
2018	411,720	\$ -	\$ -	\$	64.48	\$	26,549	\$	26,549
2019	411,720	\$ -	\$ -	\$	71.50	\$	29,439	\$	29,439
2020	412,848	\$ 6.23	\$ 2,177	\$	69.78	\$	28,810	\$	30,987
2021	411,720	\$ 6.23	\$ 3,738	\$	64.35	\$	26,493	\$	30,231
2022	411,720	\$ 6.24	\$ 3,744	\$	62.04	\$	25,545	\$	29,289
2023	411,720	\$ 6.24	\$ 3,744	\$	54.89	\$	22,599	\$	26,343
2024	412,848	\$ 6.25	\$ 3,750	\$	60.00	\$	24,770	\$	28,520
2025	411,720	\$ 6.26	\$ 3,756	\$	68.09	\$	28,035	\$	31,791
2026	411,720	\$ 6.27	\$ 3,762	\$	68.49	\$	28,198	\$	31,960
2027	411,720	\$ 6.28	\$ 3,768	\$	71.66	\$	29,504	\$	33,272
2028	412,848	\$ 6.29	\$ 3,774	\$	74.70	\$	30,840	\$	34,614
2029	411,720	\$ 6.30	\$ 3,780	\$	76.36	\$	31,441	\$	35,221
2030	411,720	\$ 6.31	\$ 3,786	\$	81.26	\$	33,456	\$	37,242
2031	411,720	\$ 6.32	\$ 3,792	\$	84.08	\$	34,615	\$	38,407

#### Attachment A PEF Response to Staff DR-1 Dkt# 110092-EQ Page 3 of 4

Committed Capacity (MW)	50
Capacity Factor (%)	94%
Payment Type	Early

	Energy (MWH)	Capacity Rates (\$/kw- month)		Total Capacity Payments (\$000)		Energy Rates (\$/MWh)		Total Energy Payments (\$000)		Total Payments to Renewable Provider (\$000)	
2012	412,848	\$	2.26	\$	1,356	\$	45.30	\$	18,703	\$	20,059
2013	411,720	\$	2.30	\$	1,380	\$	50.91	\$	20,961	\$	22,341
2014	411,720	\$	2.34	\$	1,404	\$	52.01	\$	21,412	\$	22,816
2015	411,720	\$	2.39	\$	1,434	\$	55.72	\$	22,943	\$	24,377
2016	412,848	\$	2.44	\$	1,464	\$	60.26	\$	24,880	\$	26,344
2017	411,720	\$	2.49	\$	1,494	\$	62.97	\$	25,925	\$	27,419
2018	411,720	\$	2.55	\$	1,530	\$	64.48	\$	26,549	\$	28,079
2019	411,720	\$	2.60	\$	1,560	\$	71.50	\$	29,439	\$	30,999
2020	412,848	\$	2.65	\$	1,590	\$	69.78	\$	28,810	\$	30,400
2021	411,720	\$	2.71	\$	1,626	\$	64.35	\$	26,493	\$	28,119
2022	411,720	\$	2.77	\$	1,662	\$	62.04	\$	25,545	\$	27,207
2023	411,720	\$	2.82	\$	1,692	\$	54.89	\$	22,599	\$	24,291
2024	412,848	\$	2.88	\$	1,728	\$	60.00	\$	24,770	\$	26,498
2025	411,720	\$	2.94	\$	1,764	\$	68.09	\$	28,035	\$	29,799
2026	411,720	\$	3.00	\$	1,800	\$	68.49	\$	28,198	\$	29,998
2027	411,720	\$	3.07	\$	1,842	\$	71.66	\$	29,504	\$	31,346
2028	412,848	\$	3.13	\$	1,878	\$	74.70	\$	30,840	\$	32,718
2029	411,720	\$	3.20	\$	1,920	\$	76.36	\$	31,441	\$	33,361
2030	411,720	\$	3.26	\$	1,956	\$	81.26	\$	33,456	\$	35,412
2031	411,720	\$	3.33	\$	1,998	\$	84.08	\$	34,615	\$	36,613

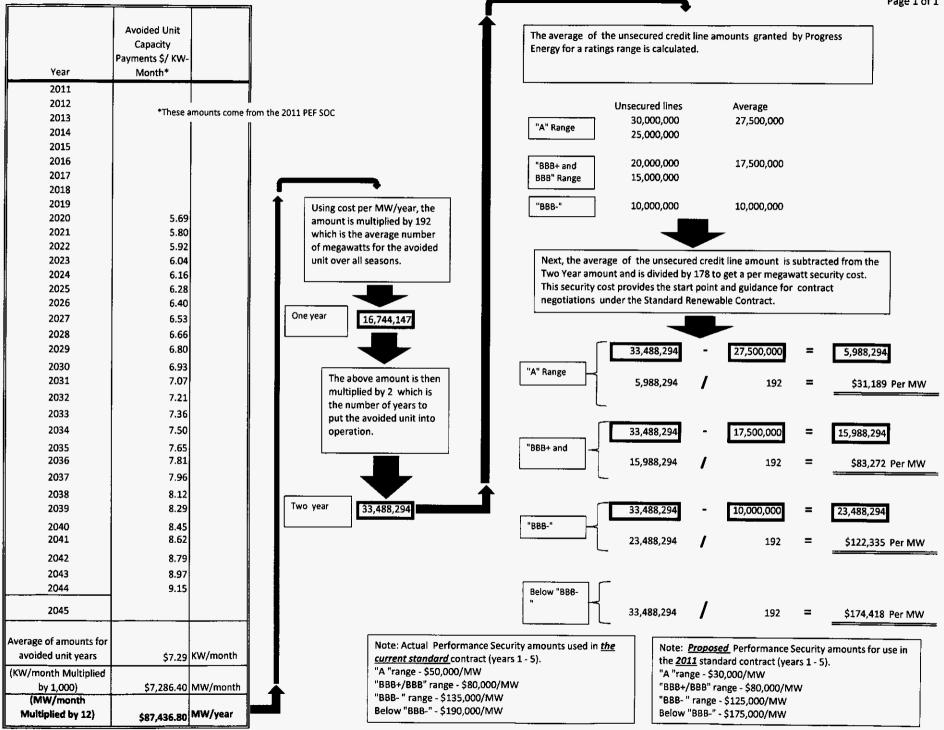
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Committed Capacity (MW)	50
Capacity Factor (%)	94%
Payment Type	Early Levelized

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		0	naolty	.	Tatal					<b>.</b>	Total
			pacity		Total			L .		-	ments to
	_		lates		pacity	Energy		Total Energy			
	Energy		5/kw-		yments		Rates	Pa	ayments		rovider
	(MWH)		onth)		\$000)		/MWh)		(\$000)	(\$000)	
2012	412,848	\$	2.62	\$	1,572	\$	45.30	\$	18,703	\$	20,275
2013	411,720	\$	2.62	\$	1,572	\$	50.91	\$	20,961	\$	22,533
2014	411,720	<del>63</del>	2.62	\$	1,572	\$	52.01	\$	21,412	\$	22,984
2015	411,720	\$	2.62	\$	1,572	\$	55.72	\$	22,943	\$	24,515
2016	412,848	\$	2.62	\$	1,572	\$	60.26	\$	24,880	\$	26,452
2017	411,720	\$	2.63	\$	1,578	\$	62.97	\$	25,925	\$	27,503
2018	411,720	\$	2.63	\$	1,578	\$	64.48	\$	26,549	\$	28,127
2019	411,720	\$	2.63	\$	1,578	\$	71.50	\$	29,439	\$	31,017
2020	412,848	\$	2.64	\$	1,584	\$	69.78	\$	28,810	\$	30,394
2021	411,720	\$	2.64	\$	1,584	\$	64.35	\$	26,493	\$	28,077
2022	411,720	\$	2.65	\$	1,590	\$	62.04	\$	25,545	\$	27,135
2023	411,720	\$	2.65	\$	1,590	\$	54.89	\$	22,599	\$	24,189
2024	412,848	\$	2.65	\$	1,590	\$	60.00	\$	24,770	\$	26,360
2025	411,720	\$	2.66	\$	1,596	\$	68.09	\$	28,035	\$	29,631
2026	411,720	\$	2.66	\$	1,596	\$	68.49	\$	28,198	\$	29,794
2027	411,720	\$	2.67	\$	1,602	\$	71.66	\$	29,504	\$	31,106
2028	412,848	\$	2.67	\$	1,602	\$	74.70	\$	30,840	\$	32,442
2029	411,720	\$	2.67	\$	1,602	\$	76.36	\$	31,441	\$	33,043
2030	411,720	\$	2.68	\$	1,608	\$	81.26	\$	33,456	\$	35,064
2031	411,720	\$	2.68	\$	1,608	\$	84.08	\$	34,615	\$	36,223

#### Performance Security Amounts Methodology and Calculation

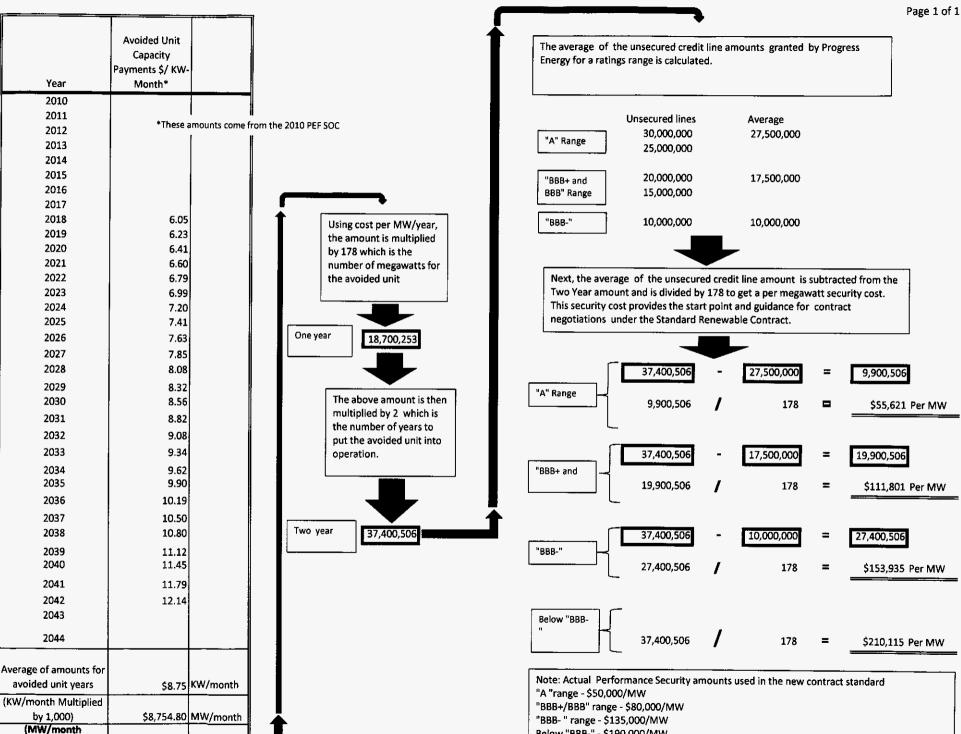




#### Performance Security Amounts Methodology and Calculation

\$105,057.60 MW/year

Multiplied by 12)



Below "BBB-" - \$190,000/MW

Attachment C