Progress Energy

September 30, 2008

Charles L.A. Terreni
Chief Clerk and Administrator
South Carolina Public Service Commission
Post Office Drawer 11649
Columbia, South Carolina 29211

Re: Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc.
Power Plant Performance Report
Docket No. 2006-224-E

Dear Mr. Terreni:

Enclosed is the Power Plant Performance Report for Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc. for the month of August 2008.

Sincerely,

Len S. Anthony (by dhs)

Len S. Anthony
General Counsel
Progress Energy Carolinas, Inc.

LSA/dhs
Enclosures
45612

c: John Flitter (ORS)

Progress Energy Service Company, LLC
P.O. Box 1551
Raleigh, NC 27602

August 2008

The following units had no off-line outages during the month of August:

Brunswick Unit 1
Robinson Unit 2
Mayo Unit 1
Roxboro Unit 3
Roxboro Unit 4

August 2008

Brunswick Unit 2

Full Forced Outage

A. Duration: The unit was taken out of service at 15:03 on August 30, and remained offline for the remainder of the month. The unit was offline for 32 hours and 57 minutes during the month of August.

B. Cause: Power/Load Unbalance PLU Circuit Relay Actuation

C. Explanation: Preliminary investigation yielded that the most likely cause of the automatic shutdown was associated with a relay actuation in the Power/Load PLU circuit. Post-modification testing was being performed on the same circuit at the time of shutdown; however, analysis has failed to prove any correlation.

D. Corrective Action: Activities to investigate and address the Power/Load Unbalance PLU Circuit Relay Actuation were in progress at the end of the month.

August 2008

Harris Unit 1

Full Forced Outage

A. Duration: The unit was taken out of service at 0:49 on August 11 and returned to service at 9:58 on August 21, a duration of 249 hours and 9 minutes.

B. Cause: Condenser Boot Seal Leak

C. Explanation: On the evening of August 10, the unit began to experience degradation of the condenser vacuum. Plant operators began a controlled load reduction in order to maintain acceptable vacuum. When the unit reached approximately 21% power, the plant was manually shut down because it was observed that the vacuum was continuing to degrade beyond operator control during the downpower.

D. Corrective Action: Once the unit was shut down, an investigation was conducted to determine the cause of the condenser vacuum degradation. Inspections revealed that a large tear in the condenser boot seal resulted in the loss of the condenser vacuum. Corrective maintenance activities included the replacement of the condenser boot seal. During the outage, additional inspections on other unit components indicated a small boric acid deposit on one of the Control Rod Drive Mechanism (CRDM) penetrations. It was found that the boric acid deposit was due to a pinhole leak on a CRDM lower canopy seal weld. A custom clamp was installed to seal off the area of the leak. This clamp is a permanent repair, and is not a temporary measure. Maintenance on the CRDM canopy seal weld did not extend or prolong the outage resulting from the condenser seal leak.

August 2008

Roxboro Unit 2

Full Forced Outage

A. Duration: The unit was taken out of service at 9:40 on August 20 and returned to service at 21:34 on August 21, a duration of 35 hours and 54 minutes.

B. Cause: Boiler Tube Leak

C. Explanation: The unit was taken out of service to investigate and repair a tube leak in the economizer section of the boiler

D. Corrective Action: Maintenance activities were performed to correct the boiler tube leak, and the unit was returned to service.

Full Forced Outage

A. Duration: The unit was taken out of service at 23:06 on August 22 and returned to service at 17:00 on August 23, a duration of 17 hours and 54 minutes.

B. Cause: Boiler Tube Leak

C. Explanation: The unit was taken out of service to investigate and repair a tube leak in the waterwall section of the boiler.

D. Corrective Action: Maintenance activities were conducted to correct the boiler tube leak, and the unit was returned to service.

	Month of August 2008		Twelve Month Summary		See Notes*
MDC	938	MW	938	MW	1
Period Hours	744	HOURS	8,784	HOURS	
Net Generation	702,990	MWH	6,908,061	MWH	2
Capacity Factor	100.73	%	83.84	%	
Equivalent Availability	99.40	%	82.70	%	
Output Factor	100.73	%	100.29	%	
Heat Rate	10,483	BTU/KWH	10,400	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	1,351,299	16.40	3
Partial Scheduled	4,184	0.60	74,262	0.90	4
Full Forced	0	0.00	0	0.00	5
Partial Forced	0	0.00	30,064	0.36	6
Economic Dispatch	0	0.00	31	0.00	7
Possible MWH	697,872		8,239,392		8

* See 'Notes for Nuclear Units' filed with the January 2008 report.
** Gross of Power Agency

	Month of August 2008		Twelve Month Summary		See Notes*
MDC	937	MW	937	MW	1
Period Hours	744	HOURS	8,784	HOURS	
Net Generation	658,231	MWH	8,135,557	MWH	2
Capacity Factor	94.42	%	98.85	%	
Equivalent Availability	95.50	%	98.24	%	
Output Factor	98.80	%	99.71	%	
Heat Rate	10,761	BTU/KWH	10,581	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	0	0.00	3
Partial Scheduled	527	0.08	47,185	0.57	4
Full Forced	30,874	4.43	71,009	0.86	5
Partial Forced	7,496	1.08	46,633	0.57	6
Economic Dispatch	0	0.00	0	0.00	7
Possible MWH	697,128		8,230,608		8

* See 'Notes for Nuclear Units' filed with the January 2008 report.
** Gross of Power Agency

	Month of August 2008		Twelve Month Summary		See Notes*
MDC	900	MW	900	MW	1
Period Hours	744	HOURS	8,784	HOURS	
Net Generation	436,426	MWH	7,202,921	MWH	2
Capacity Factor	65.18	%	91.11	%	
Equivalent Availability	65.77	%	90.05	%	
Output Factor	97.99	%	100.65	%	
Heat Rate	10,922	BTU/KWH	10,816	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	523,410	6.62	3
Partial Scheduled	0	0.00	8,585	0.11	4
Full Forced	224,235	33.49	225,555	2.85	5
Partial Forced	8,939	1.33	64,048	0.81	6
Economic Dispatch	0	0.00	0	0.00	7
Possible MWH	669,600		7,905,600		8

* See 'Notes for Nuclear Units' filed with the January 2008 report.
** Gross of Power Agency

	Month of August 2008		Twelve Month Summary		See Notes*
MDC	710	MW	710	MW	1
Period Hours	744	HOURS	8,784	HOURS	
Net Generation	536,268	MWH	6,525,160	MWH	2
Capacity Factor	101.52	%	104.63	%	
Equivalent Availability	99.96	%	99.84	%	
Output Factor	101.52	%	104.63	%	
Heat Rate	11,006	BTU/KWH	10,710	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	0	0.00	3
Partial Scheduled	0	0.00	9,851	0.16	4
Full Forced	0	0.00	0	0.00	5
Partial Forced	213	0.04	213	0.00	6
Economic Dispatch	0	0.00	0	0.00	7
Possible MWH	528,240		6,236,640		8

* See 'Notes for Nuclear Units' filed with the January 2008 report.

	Month of August 2008		Twelve Month Summary		See Notes*
MDC	742	MW	742	MW	1
Period Hours	744	HOURS	8,784	HOURS	
Net Generation	356,947	MWH	4,355,959	MWH	2
Capacity Factor	64.66	%	66.83	%	
Equivalent Availability	98.99	%	96.47	%	
Output Factor	64.66	%	68.01	%	
Heat Rate	10,814	BTU/KWH	10,587	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	36,976	0.57	3
Partial Scheduled	0	0.00	113,537	1.74	4
Full Forced	0	0.00	32,908	0.51	5
Partial Forced	5,559	1.01	46,263	0.71	6
Economic Dispatch	189,542	34.33	1,929,157	29.61	7
Possible MWH	552,048		6,514,800		8

* See 'Notes for Fossil Units' filed with the January 2008 report.
** Gross of Power Agency

	Month of August 2008		Twelve Month Summary		See Notes*
MDC	671	MW	660	MW	1
Period Hours	744	HOURS	8,784	HOURS	
Net Generation	374,255	MWH	4,912,441	MWH	2
Capacity Factor	74.97	%	84.69	%	
Equivalent Availability	92.09	%	94.44	%	
Output Factor	82.55	%	89.52	%	
Heat Rate	9,480	BTU/KWH	9,177	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	12,011	2.41	173,241	2.99	3
Partial Scheduled	1,447	0.29	20,419	0.35	4
Full Forced	24,089	4.83	113,276	1.95	5
Partial Forced	1,928	0.39	16,181	0.28	6
Economic Dispatch	85,493	17.13	564,778	9.74	7
Possible MWH	499,224		5,800,368		8

* See 'Notes for Fossil Units' filed with the January 2008 report.

	Month of August 2008		Twelve Month Summary		See Notes*
MDC	705	MW	705	MW	1
Period Hours	744	HOURS	8,784	HOURS	
Net Generation	377,014	MWH	4,223,665	MWH	2
Capacity Factor	71.88	%	68.20	%	
Equivalent Availability	99.87	%	90.61	%	
Output Factor	71.88	%	72.60	%	
Heat Rate	11,578	BTU/KWH	11,210	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	373,333	6.03	3
Partial Scheduled	563	0.11	100,220	1.62	4
Full Forced	0	0.00	1,645	0.03	5
Partial Forced	115	0.02	106,443	1.72	6
Economic Dispatch	146,828	27.99	1,387,414	22.40	7
Possible MWH	524,520		6,192,720		8

* See 'Notes for Fossil Units' filed with the January 2008 report.

	Month of August 2008		Twelve Month Summary		See Notes*
MDC	698	MW	698	MW	1
Period Hours	744	HOURS	8,784	HOURS	
Net Generation	384,641	MWH	3,790,699	MWH	2
Capacity Factor	74.07	%	61.83	%	
Equivalent Availability	99.94	%	84.18	%	
Output Factor	74.07	%	72.20	%	
Heat Rate	10,427	BTU/KWH	10,540	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	795,719	12.98	3
Partial Scheduled	0	0.00	104,324	1.70	4
Full Forced	0	0.00	21,813	0.36	5
Partial Forced	308	0.06	48,055	0.78	6
Economic Dispatch	134,363	25.87	1,368,351	22.32	7
Possible MWH	519,312		6,131,232		8

* See 'Notes for Fossil Units' filed with the January 2008 report.
** Gross of Power Agency

Run Date 9/19/2008

Plant	Unit	Current MW Rating	January 2007 - December 2007	August 2008	January 2008 - August 2008
Asheville	1	191	63.64	70.11	78.10
Asheville	2	185	73.17	66.18	64.82
Cape Fear	5	144	78.67	71.42	71.56
Cape Fear	6	172	72.38	65.97	60.60
Lee	1	74	62.15	73.86	68.13
Lee	2	77	62.47	47.98	51.42
Lee	3	248	66.38	61.32	41.17
Mayo	1	742	72.10	64.66	63.60
Robinson	1	176	74.63	73.23	65.84
Roxboro	1	369	78.01	80.73	81.32
Roxboro	2	671	80.06	74.97	81.57
Roxboro	3	705	74.37	71.88	65.92
Roxboro	4	698	62.40	74.07	71.43
Sutton	1	93	56.26	56.87	53.14
Sutton	2	102	63.19	65.71	63.53
Sutton	3	403	55.53	54.08	62.55
Weatherspoon	1	48	53.86	52.41	49.12
Weatherspoon	2	49	55.68	51.81	46.26
Weatherspoon	3	76	68.70	68.82	65.37
Fossil System Total		5,223	69.82	68.74	67.57
Brunswick	1	938	95.92	100.73	81.20
Brunswick	2	937	86.99	94.42	98.28
Harris	1	900	93.90	65.18	97.13
Robinson Nuclear	2	710	92.26	101.52	104.41
Nuclear System Total		3,485	92.25	90.01	94.63
Total System		8,708	78.79	77.25	78.40

Amended SC Fuel Rule
Related to Nuclear Operations

There shall be a rebuttable presumption that an electrical utility made every reasonable effort to minimize cost associated with the operation of its nuclear generation system if the utility achieved a net capacity factor of ≥ 92.5% during the 12 month period under review. For the test period April 1, 2008 through August 31, 2008, actual period to date performance is summarized below:

Period to Date: April 1, 2008 to August 31, 2008

Nuclear System Capacity Factor Calculation (Based on net generation)

A.. Nuclear system actual generation for SCPSC test period	A =	11,987,859 MWH
B. Total number of hours during SCPSC test period	B =	3,672 hours
C. Nuclear system MDC during SCPSC test period (see page 2)	C =	3,485 MW
D. Reasonable nuclear system reductions (see page 2)	D =	952,114 MWH

A. SC Fuel Case nuclear system capacity factor: [(A + D) / (B + C)] * 100 = 101.1%

NOTE:
If Line Item E > 92.5%, presumption of utility's minimum cost of operation.
If Line Item E < 92.5%, utility has burden of proof of reasonable operations.

Amended SC Fuel Rule
Nuclear System Capacity Factor Calculation
Reasonable Nuclear System Reductions
Period to Date: April 1, 2008 to August 31, 2008

Nuclear Unit Name and Designation	BNP Unit # 1	BNP Unit # 2	HNP Unit # 1	RNP Unit # 2	Nuclear System
Unit MDC	938 MW	937 MW	900 MW	710 MW	3,485 MW
Reasonable refueling otuage time (MWH)	644,015	0	0	0	
Reasonable maintenance, repair, and equipment replacement outage time (MWH)	436	32,158	229,188	213	
Reasonable coast down power reductions (MWH)	0	0	0	0	
Reasonable power ascension power reductions (MWH)	30,893	0	0	0	
Prudent NRC required testing outages (MWH)	3,866	11,345	0	0	
SCPSC identified outages not directly under utility control (MWH)	0	0	0	0	
Acts of Nature reductions (MWH)	0	0	0	0	
Reasonable nuclear reduction due to low system load (MWH)	0	0	0	0	
Unit total excluded MWH	679,210	43,503	229,188	213	
Total reasonable outage time exclusions [carry to Page 1, Line D]					952,114