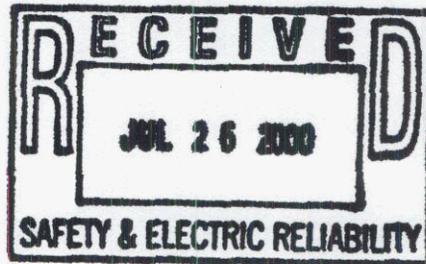




ORIGINAL



July 24, 2000

Mr. Michael S. Haff  
Division of Electric & Gas  
Florida Public Service Commission  
2540 Shumard Oak Blvd.  
Tallahassee, FL 32399-0850

000000-PV

Dear Mr. Haff:

Attached is Seminole's response to the 2000 Ten Year Site Plan supplemental information requested in your letter of June 8, 2000.

If you have any questions concerning this information, please feel free to call Garl Zimmerman, Manager of System Planning, or me.

Sincerely,

Richard J. Midulla  
Executive Vice President and  
General Manager

GSZ:qt  
attachment

**SEMINOLE ELECTRIC COOPERATIVE, INC.  
RESPONSES TO JUNE 8, 2000 PUBLIC SERVICE  
COMMISSION SUPPLEMENTAL DATA REQUEST**

**General**

1. Provide all data requested on the attached forms. If any of the requested data is already included in Seminole's Ten-Year Site Plan, state so on the appropriate form.

Please see attached forms:

- ▶ Schedule 12 Existing Generating Unit Operating Performance
- ▶ Schedule 5.1.1 Nominal, Delivered Residual Oil Prices - Base Case
- ▶ Schedule 5.1.2 Nominal, Delivered Residual Oil Prices - High Case
- ▶ Schedule 5.1.3 Nominal, Delivered Residual Oil Prices - Low Case
- ▶ Schedule 5.2.1 Nominal, Del. Dist. Oil & Natural Gas Prices - Base Case
- ▶ Schedule 5.2.2 Nominal, Del. Dist. Oil & Natural Gas Prices - High Case
- ▶ Schedule 5.2.3 Nominal, Del. Dist. Oil & Natural Gas Prices - Low Case
- ▶ Schedule 5.3.1 Nominal, Delivered Coal Prices - Base Case
- ▶ Schedule 5.3.2 Nominal, Delivered Coal Prices - High Case
- ▶ Schedule 5.3.3 Nominal, Delivered Coal Prices - Low Case
- ▶ Schedule 5.4 Nominal, Delivered Nuclear Fuel and Firm Purchases
- ▶ Schedule 14.1 Financial Assumptions - Base Case
- ▶ Schedule 14.2 Financial Escalation Assumptions
- ▶ Loss of Load Probability, Reserve Margin, and Expected Unserved Energy - Base Case Load Forecast

Schedule 12 - Based on 1999 Data  
Existing Generating Unit Operating Performance

(1) Plant Name	(2) Unit No.	(3) Planned Outage Factor (POF)		(4) Forced Outage Factor (FOF)		(5) Equivalent Availability Factor (EAF)		(6) Average Net Operating Heat Rate (ANOHR)	
		Historical -	Projected	Historical -	Projected	Historical -	Projected	Historical -	Projected
Seminole	1	6.02%	4.96%	0.75%	4.20%	92.57%	90.84%	9,798	9,825
Seminole	2	6.96%	6.08%	1.81%	4.20%	90.83%	89.72%	9,820	9,825

Note: Historical - average of past three years.  
Projected - average of next ten years.

**Schedule 5.1.1  
Nominal, Delivered Residual Oil Prices**

**Base Case**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Residual Oil (By Sulfur Content)									
Year	Less Than 0.7%		Escalation %	0.7 - 2.0%		Escalation %	Greater Than 2.0%		Escalation %
	\$/BBL	c/MBTU		\$/BBL	c/MBTU		\$/BBL	c/MBTU	
<b>History:</b>									
1997	Note: While Seminole develops price projections for residual oil, it does not currently burn this fuel in any of its units. Likewise, the company does not envision burning this fuel in any of its current or planned units.								
1998									
1999									
<b>Forecast:</b>									
2000	N/A			18.82	299	-	N/A		
2001				19.15	305	1.72			
2002				19.48	310	1.73			
2003				19.81	315	1.73			
2004				20.16	321	1.73			
2005				20.50	326	1.73			
2006				20.86	332	1.73			
2007				21.22	338	1.73			
2008				21.58	343	1.73			
2009				21.96	349	1.73			

ASSUMPTIONS: heat content, ash content

**Schedule 5.1.2  
Nominal, Delivered Residual Oil Prices**

**High Case**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Residual Oil (By Sulfur Content)									
Year	Less Than 0.7%		Escalation %	0.7 - 2.0%		Escalation %	Greater Than 2.0%		Escalation %
	\$/BBL	c/MBTU		\$/BBL	c/MBTU		\$/BBL	c/MBTU	
<b>History:</b>									
1997	Note: While Seminole develops price projections for residual oil, it does not currently burn this fuel in any of its units. Likewise, the company does not envision burning this fuel in any of its current or planned units.								
1998									
1999									
<b>Forecast:</b>									
2000	N/A			19.36	308	-	N/A		
2001				20.16	321	4.14			
2002				20.99	334	4.14			
2003				21.86	348	4.14			
2004				22.77	362	4.14			
2005				23.71	377	4.14			
2006				24.69	393	4.15			
2007				25.72	409	4.15			
2008				26.78	426	4.15			
2009				27.89	444	4.15			

ASSUMPTIONS: heat content, ash content

**Schedule 5.1.3  
Nominal, Delivered Residual Oil Prices**

**Low Case**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Residual Oil (By Sulfur Content)									
Year	Less Than 0.7%		Escalation %	0.7 - 2.0%		Escalation %	Greater Than 2.0%		Escalation %
	\$/BBL	c/MBTU		\$/BBL	c/MBTU		\$/BBL	c/MBTU	
<b>History:</b>									
1997	<p align="center">Note: While Seminole develops price projections for residual oil, it does not currently burn this fuel in any of its units. Likewise, the company does not envision burning this fuel in any of its current or planned units.</p>								
1998									
1999									
<b>Forecast:</b>									
2000	N/A			18.26	290	-	N/A		
2001				17.94	285	-1.76			
2002				17.62	280	-1.75			
2003				17.32	275	-1.75			
2004				17.01	271	-1.75			
2005				16.72	266	-1.74			
2006				16.43	261	-1.74			
2007				16.14	257	-1.74			
2008				15.86	252	-1.73			
2009				15.59	248	-1.73			

**ASSUMPTIONS:** heat content, ash content

Schedule 5.2.1  
Nominal, Delivered Distillate Oil and Natural Gas Prices

Base Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Distillate Oil			Natural Gas		
Year	\$/BBL	c/MBTU	Escalation %	c/MBTU	c/Therm	Escalation %
<b>History:</b>						
1997	27.72	478	-5.62	Note: While Seminole develops price projections for natural gas, it does not currently burn this fuel in any of its units.		
1998	20.58	355	-25.76			
1999	21.42	366	4.08			
<b>Forecast:</b>						
2000	27.00	463	26.05	322	3,221	-
2001	27.34	469	1.28	329	3,285	2.00
2002	27.69	475	1.28	335	3,351	2.00
2003	28.05	482	1.28	342	3,418	2.01
2004	28.40	488	1.28	349	3,487	2.01
2005	28.77	494	1.28	356	3,557	2.01
2006	29.14	500	1.28	363	3,629	2.02
2007	29.51	507	1.28	370	3,703	2.02
2008	29.89	513	1.28	378	3,778	2.03
2009	30.27	520	1.28	385	3,855	2.03

ASSUMPTIONS FOR DISTILLATE OIL: heat content, ash content, sulfur content

Schedule 5.2.2  
Nominal, Delivered Distillate Oil and Natural Gas Prices

High Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Distillate Oil			Natural Gas		
Year	\$/BBL	c/MBTU	Escalation %	c/MBTU	c/Therm	Escalation %
<b>History:</b>						
1997	27.72	478	-5.62	N/A		
1998	20.58	355	-25.76			
1999	21.42	366	4.08			
<b>Forecast:</b>						
2000	27.77	477	29.65	366	3,658	-
2001	28.92	497	4.17	384	3,837	4.90
2002	30.13	517	4.17	403	4,026	4.93
2003	31.39	539	4.17	423	4,226	4.95
2004	32.70	561	4.17	444	4,436	4.98
2005	34.06	585	4.17	466	4,658	5.01
2006	35.49	609	4.18	489	4,893	5.03
2007	36.97	635	4.18	514	5,140	5.06
2008	38.51	661	4.18	540	5,401	5.08
2009	40.12	689	4.18	568	5,677	5.10

ASSUMPTIONS FOR DISTILLATE OIL: heat content, ash content, sulfur content

Schedule 5.2.3  
Nominal, Delivered Distillate Oil and Natural Gas Prices

Low Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Distillate Oil			Natural Gas		
Year	\$/BBL	c/MBTU	Escalation %	c/MBTU	c/Therm	Escalation %
<b>History:</b>						
1997	27.72	478	-5.62	N/A		
1998	20.58	355	-25.76			
1999	21.42	366	4.08			
<b>Forecast:</b>						
2000	26.17	449	22.18	278	2,783	-
2001	25.70	441	-1.81	274	2,742	-1.45
2002	25.23	433	-1.81	270	2,703	-1.45
2003	24.77	425	-1.81	266	2,663	-1.45
2004	24.33	418	-1.81	262	2,625	-1.45
2005	23.89	410	-1.80	259	2,587	-1.45
2006	23.46	403	-1.80	255	2,549	-1.45
2007	23.04	396	-1.80	251	2,512	-1.45
2008	22.62	388	-1.80	248	2,476	-1.45
2009	22.22	381	-1.79	244	2,440	-1.45

ASSUMPTIONS FOR DISTILLATE OIL: heat content, ash content, sulfur content

Schedule 5.3.1  
Nominal, Delivered Coal Prices

Base Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	Low Sulfur Coal (< 1.0%)				Medium Sulfur Coal (1.0-2.0%)				High Sulfur Coal (> 2.0%)			
Year	\$/Ton	c/MBtu	Esc %	% Spot Purchase	\$/Ton	c/MBtu	Esc %	% Spot Purchase	\$/Ton	c/MBtu	Esc %	% Spot Purchase
<b>History:</b>												
1997	NOTE: While Seminole develops price projections for low - and medium - sulfur coal, it does not burn these fuels in any of its units. Likewise, the company does not envision burning these fuels in any of its current or planned units.								42.44	175	-5.31	43.64
1998									45.11	184	6.29	36.51
1999									39.49	159	-12.46	34.72
<b>Forecast:</b>												
2000	41.39	166	-	N/A	39.72	159	-	N/A	38.05	152	-3.65	35.00
2001	41.73	167	0.83		40.05	160	0.83		38.36	154	0.84	35.00
2002	42.13	169	0.94		40.43	162	0.94		38.73	155	0.95	35.00
2003	42.55	170	1.00		40.83	163	1.00		39.11	157	1.00	35.00
2004	42.97	172	1.00		41.24	165	1.00		39.51	158	1.00	35.00
2005	43.43	174	1.06		41.67	167	1.06		39.92	160	1.05	35.00
2006	43.91	176	1.12		42.13	169	1.09		40.34	161	1.05	35.00
2007	44.43	178	1.17		42.60	170	1.12		40.77	163	1.05	35.00
2008	44.95	180	1.17		43.07	172	1.12		41.20	165	1.05	35.00
2009	45.50	182	1.23		43.57	174	1.15		41.63	167	1.05	35.00

ASSUMPTIONS: type of coal, heat content, ash content

Schedule 5.3.2  
Nominal, Delivered Coal Prices

High Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Low Sulfur Coal (< 1.0%)				Medium Sulfur Coal (1.0-2.0%)				High Sulfur Coal (> 2.0%)				
Year	\$/Ton	c/MBtu	Esc %	% Spot Purchase	\$/Ton	c/MBtu	Esc %	% Spot Purchase	\$/Ton	c/MBtu	Esc %	% Spot Purchase
History:												
1997	NOTE: While Seminole develops price projections for low - and medium - sulfur coal, it does not burn these fuels in any of its units. Likewise, the company does not envision burning these fuels in any of its current or planned units.								42.44	175	-5.31	43.64
1998									45.11	184	6.29	36.51
1999									39.49	159	-12.46	34.72
Forecast:												
2000	42.33	169	-	N/A	40.61	162	-	N/A	38.88	156	-1.54	35.00
2001	43.62	175	3.05		41.84	167	3.03		40.05	160	3.00	35.00
2002	44.95	180	3.05		43.10	172	3.03		41.25	165	3.00	35.00
2003	46.32	185	3.05		44.41	178	3.03		42.49	170	3.00	35.00
2004	47.74	191	3.05		45.75	183	3.03		43.77	175	3.00	35.00
2005	49.19	197	3.05		47.14	189	3.03		45.08	180	3.00	35.00
2006	50.69	203	3.05		48.56	194	3.03		46.43	186	3.00	35.00
2007	52.24	209	3.05		50.04	200	3.03		47.83	191	3.00	35.00
2008	53.84	215	3.05		51.55	206	3.03		49.26	197	3.00	35.00
2009	55.48	222	3.05		53.11	212	3.03		50.74	203	3.00	35.00

ASSUMPTIONS: type of coal, heat content, ash content

Schedule 5.3.3  
Nominal, Delivered Coal Prices

Low Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	Low Sulfur Coal (< 1.0%)				Medium Sulfur Coal (1.0-2.0%)				High Sulfur Coal (> 2.0%)			
Year	\$/Ton	c/MBtu	Esc %	% Spot Purchase	\$/Ton	c/MBtu	Esc %	% Spot Purchase	\$/Ton	c/MBtu	Esc %	% Spot Purchase
<b>History:</b>												
1997	NOTE: While Seminole develops price projections for low - and medium - sulfur coal, it does not burn these fuels in any of its units. Likewise, the company does not envision burning these fuels in any of its current or planned units.								42.44	175	-5.31	43.64
1998									45.11	184	6.29	36.51
1999									39.49	159	-12.46	34.72
<b>Forecast:</b>												
2000	40.62	163	-	N/A	38.99	156	-	N/A	37.36	149	-5.39	35.00
2001	40.17	161	-1.11		38.57	154	-1.07		36.97	148	-1.03	35.00
2002	39.73	159	-1.10		38.16	153	-1.06		36.59	146	-1.02	35.00
2003	39.29	157	-1.09		37.76	151	-1.05		36.22	145	-1.01	35.00
2004	38.87	156	-1.08		37.36	150	-1.04		35.86	143	-1.00	35.00
2005	38.45	154	-1.07		36.98	148	-1.03		35.50	142	-0.99	35.00
2006	38.05	152	-1.06		36.60	146	-1.02		35.15	141	-0.99	35.00
2007	37.65	151	-1.05		36.23	145	-1.01		34.81	139	-0.98	35.00
2008	37.26	149	-1.04		35.86	144	-1.00		34.47	138	-0.97	35.00
2009	36.87	148	-1.03		35.51	142	-0.99		34.14	137	-0.96	35.00

ASSUMPTIONS: type of coal, heat content, ash content

Schedule 5.4  
Nominal, Delivered Nuclear Fuel and Firm Purchase

(1)	(2)	(3)	(4)	(5)
<u>Year</u>	<u>Nuclear</u> c/MBTU	<u>Escalation(%)</u>	<u>Firm Purchases</u> \$/Mwh	<u>Escalation(%)</u>
<b>History:</b>				
1997	0.00	-100.00%	0.00	-100.00%
1998	44.94	100.00%	39.80	100.00%
1999	46.17	2.74%	45.49	12.51%
<b>Forecast:</b>				
2000	49.62	7.47%	46.17	1.50%
2001	50.42	1.63%	47.00	1.80%
2002	51.25	1.64%	48.13	2.40%
2003	52.13	1.72%	49.43	2.70%
2004	53.07	1.81%	50.72	2.60%
2005	54.08	1.89%	52.03	2.60%
2006	55.18	2.04%	53.34	2.50%
2007	56.36	2.13%	54.62	2.40%
2008	57.57	2.15%	55.93	2.40%
2009	58.86	2.24%	57.32	2.50%

Note: Firm purchases are the total cost of power produced divided by Net Generation.

Schedule 14.1

Financial Assumptions  
Base Case

AFUDC RATE: 5.98 % (1)

CAPITALIZATION RATIOS:

DEBT N/A %  
PREFERRED N/A %  
EQUITY N/A %

RATE OF RETURN:

DEBT N/A %  
PREFERRED N/A %  
EQUITY N/A %

INCOME TAX RATE:

STATE 0 %  
FEDERAL 0 %  
EFFECTIVE 0 %

OTHER TAX RATE: N/A %

DISCOUNT RATE: 5.98 % (2)

TAX  
DEPRECIATION RATE: 3.57 % (3)

- (1) Equals discount rate.
- (2) Average of long term interest rate for RUS financing over the study period (2000-2009).
- (3) Equals straight-line over 28-year life of combined cycle unit.

Schedule 14.2

Financial Escalation Assumptions

(1)	(2)	(3)	(4)	(5)
Year	General Inflation %	Plant Construction Cost %	Fixed O&M Cost %	Variable O&M Cost %
2000	1.5	1.5	1.5	1.5
2001	1.8	1.8	1.8	1.8
2002	2.4	2.4	2.4	2.4
2003	2.7	2.7	2.7	2.7
2004	2.6	2.6	2.6	2.6
2005	2.6	2.6	2.6	2.6
2006	2.5	2.5	2.5	2.5
2007	2.4	2.4	2.4	2.4
2008	2.4	2.4	2.4	2.4
2009	2.5	2.5	2.5	2.5

Loss of Load Probability, Reserve Margin  
and Expected Unserved Energy  
Base Case Load Forecast

(1)	(2)	(3)	(4)	(5)	(6)	(7)
<u>Year</u>	<u>Loss of Load Probability (Days/Yr)</u>	<u>Annual Isolated Reserve Margin % (Including Firm Purch.)</u>	<u>Expected Unserved Energy (MWh)</u>	<u>Loss of Load Probability (Days/Yr)</u>	<u>Annual Assisted Reserve Margin (%)</u>	<u>Expected Unserved Energy (MWh)</u>
2000	N/A	22.8%	23,900	N/A		
2001	N/A	23.8%	23,600			
2002	N/A	28.2%	15,700			
2003	N/A	21.4%	17,500			
2004	N/A	16.9%	40,700			
2005	N/A	16.7%	17,300			
2006	N/A	19.9%	19,900			
2007	N/A	16.4%	23,000			
2008	N/A	19.7%	24,100			
2009	N/A	18.0%	32,800			

**SEMINOLE ELECTRIC COOPERATIVE, INC.  
RESPONSES TO JUNE 8, 2000 PUBLIC SERVICE  
COMMISSION SUPPLEMENTAL DATA REQUEST**

**Planning**

2. Discuss the power purchase agreements between Seminole and two merchant plant developers, Reliant Energy and Oleander Power Project. Describe how Seminole's agreement with Oleander Power Project will occur (e.g., joint petition for determination of need, etc.) if the Florida Supreme Court reaffirms its decision denying the Duke Energy New Smyrna Beach project. Include a description of how these projects will affect Seminole's "backstop" expansion plan.

In 1999, Seminole entered into a power purchase agreement with Reliant Energy Osceola, LLC, for 306 MW of firm capacity for the period December 2001 through 2006. Seminole has also entered into a power purchase agreement with Oleander Power Project, Limited Partnership for 355 MW of firm capacity for the period December 2002 through 2009 and an additional 177 MW of capacity for the period May 2003 through 2009.

Both the Reliant Osceola and Oleander Power Projects are combustion turbine peaking facilities with no steam cycle and therefore are not subject to the Power Plant Siting Act.

The Reliant purchase and the first 355 MW of the Oleander purchase are reflected in Seminole's 2000 Ten-Year Site Plan (TYSP). The additional 177 MW Oleander purchase replaces the first unknown Combustion Turbine shown in Schedule 8 of the "back-stop" plan in the TYSP.

**SEMINOLE ELECTRIC COOPERATIVE, INC.  
 RESPONSES TO JUNE 8, 2000 PUBLIC SERVICE  
 COMMISSION SUPPLEMENTAL DATA REQUEST**

3. For each of the generating units contained in Seminole's Ten-Year Site Plan, discuss the "drop dead" date for a decision on whether or not to construct each unit. Provide a time line for the construction of each unit, including regulatory approval, final decision point, and vendor order.

**Payne Creek Generating Station**

Request for proposal: COMPLETED  
 Regulatory approval: COMPLETED  
 Final decision point: MADE  
 Begin construction: 03/2000  
 Planned in-service date: 01/2002

**Combustion Turbine Unit No. 1-3**

	<u>Unit 1*</u>	<u>Unit 2</u>	<u>Unit 3</u>
Request for proposal:	N/A	05/2002	05/2004
Final decision point:	N/A	11/2002	11/2004
Regulatory approval:	N/A	05/2003	05/2005
Vendor order:	N/A	06/2003	06/2005
Begin construction:	11/2000	06/2004	06/2006
Planned in-service date:	11/2002	06/2005	06/2007

**Combined Cycle Unit No. 1-2**

	<u>Unit 1</u>	<u>Unit 2</u>
Request for proposal:	07/2000	11/2002
Final decision point:	11/2000	05/2003
Regulatory approval**:	11/2001	10/2003
Vendor order:	11/2001	11/2003
Begin construction:	06/2002	11/2004
Planned in-service date:	06/2004	11/2006

\* Purchased Power Agreement with Oleander Power Project signed April 2000.

\*\* CC Unit No. 1 might be replaced with the results of July 2000 RFP.

**SEMINOLE ELECTRIC COOPERATIVE, INC.  
RESPONSES TO JUNE 8, 2000 PUBLIC SERVICE  
COMMISSION SUPPLEMENTAL DATA REQUEST**

4. Provide a description and example calculation of how Seminole accounts for Partial Requirements and Full Requirements contracts when determining annual reserve margins. Schedule 7.1 and 7.2 from the Ten-Year Site Plan filing should be used as the basis for the calculation.

Please see attached Schedules 7.1 and 7.2 for reserve margins calculations.

**SEMINOLE ELECTRIC COOPERATIVE, INC.  
RESPONSES TO JUNE 8, 2000 PUBLIC SERVICE  
COMMISSION SUPPLEMENTAL DATA REQUEST**

Schedule 7.1 Forecast of Capacity, Demand and Scheduled Maintenance at Time of Summer Peak														
Year	Total Installed Capacity (MW)	Firm Capacity Import (Less PR/FR) <sub>1</sub> (MW)	Firm Capacity Import (PR/FR) (MW)	Firm Capacity Export (MW)	QF <sub>2</sub> (MW)	Total Capacity Available (MW)	Total Capacity Available Less PR/FR (MW)	System Firm Summer Peak Demand (MW)	System Firm Summer Obligation <sub>3</sub> (MW)	Reserve Margin Before Maintenance <sub>4</sub>		Scheduled Maintenance (MW)	Reserve Margin After Maintenance <sub>4</sub>	
										(MW)	(% of Pk)		(MW)	(MW)
2000	1,331	1,182	324	0	298	3,135	2,811	2,649	2,325	486	26.0%	0	486	26.0%
2001	1,331	1,292	271	0	298	3,192	2,921	2,740	2,469	452	24.2%	0	452	24.2%
2002	1,819	1,058	277	0	298	3,452	3,175	2,835	2,558	617	29.3%	0	617	29.3%
2003	1,972	909	231	0	298	3,410	3,179	2,930	2,699	480	18.8%	0	480	18.8%
2004	2,216	803	161	0	298	3,478	3,317	3,026	2,865	452	16.6%	0	452	16.6%
2005	2,369	782	174	0	298	3,623	3,449	3,126	2,952	497	17.7%	0	497	17.7%
2006	2,369	782	236	0	298	3,685	3,449	3,224	2,988	461	16.2%	0	461	16.2%
2007	2,766	476	299	0	298	3,839	3,540	3,325	3,026	514	17.9%	0	514	17.9%
2008	2,766	476	362	0	298	3,902	3,540	3,426	3,064	476	16.3%	0	476	16.3%
2009	2,766	491	428	0	298	3,983	3,555	3,531	3,103	452	15.3%	0	452	15.3%
1	Firm capacity includes partial requirements (PR) and full requirements (FR) purchases and purchases from other supplier.													
2	The capacity shown under QF represents a contract with TECO Power Services for first-call capacity from the Hardee Power Station to backup 1240 MW of generation from Seminole Units 1 and 2 and CR#3.													
3	Seminole's firm obligation demand does not include PR and FR purchases.													
4	Percent reserves are calculated on Seminole's obligation since Seminole is not responsible for supplying reserves for FR and PR purchases.													

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Schedule 7.2														
Forecast of Capacity, Demand and Scheduled Maintenance at Time of Winter Peak														
Year	Total Installed Capacity	Firm Capacity Import (Less PR/FR) <sub>1</sub>	Firm Capacity Import (PR/FR)	Firm Capacity Export	QF <sub>2</sub>	Total Capacity Available	Total Capacity Available Less PR/FR	System Firm Winter Peak Demand	System Firm Winter Obligation <sub>3</sub>	Reserve Margin Before Maintenance <sub>4</sub>		Scheduled Maintenance	Reserve Margin After Maintenance <sub>4</sub>	
	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(% of Pk)	(MW)	(MW)
2000	1,345	1,273	456	0	362	3,436	2,980	2,968	2,512	468	22.8%	0	468	22.8%
2001	1,345	1,448	718	0	362	3,873	3,155	3,383	2,665	490	23.8%	0	490	23.8%
2002	1,917	1,133	740	0	362	4,152	3,412	3,500	2,760	652	28.2%	0	652	28.2%
2003	2,099	1,053	697	0	362	4,211	3,514	3,617	2,920	594	21.4%	0	594	21.4%
2004	2,099	1,129	642	0	362	4,232	3,590	3,734	3,092	498	16.9%	0	498	16.9%
2005	2,385	946	676	0	362	4,369	3,693	3,863	3,187	506	16.7%	0	506	16.7%
2006	2,567	915	757	0	362	4,601	3,844	3,988	3,231	613	19.9%	0	613	19.9%
2007	2,853	574	838	0	362	4,627	3,789	4,114	3,276	513	16.4%	0	513	16.4%
2008	3,035	550	915	0	362	4,862	3,947	4,237	3,322	625	19.7%	0	625	19.7%
2009	3,035	550	1,005	0	362	4,952	3,947	4,373	3,368	579	18.0%	0	579	18.0%
1	Firm capacity includes partial requirements (PR) and full requirements (FR) purchases and purchases from other supplier.													
2	The capacity shown under QF represents a contract with TECO Power Services for first-call capacity from the Hardee Power Station to backup 1240 MW of generation from Seminole Units 1 and 2 and CR#3.													
3	Seminole's firm obligation demand does not include PR and FR purchases.													
4	Percent reserves are calculated on Seminole's obligation since Seminole is not responsible for supplying reserves for FR and PR purchases.													

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5. Provide a description and the status of any Request for Proposals currently being reviewed by Seminole. Each description should address the potential impact to Seminole's Ten-Year Site Plan.

In 1999, Seminole entered into power purchase agreements with Reliant Energy Osceola and Oleander Power Project, Limited Partnership for firm capacity which is shown in Schedule 7.1 & 7.2 of Seminole's 2000 Ten Year Site Plan.

Seminole issued a request for proposals July 7, 2000 for its capacity need beginning 2004.

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**Environmental**

6. Identify and discuss all proposed or reasonably expected State and Federal environmental regulations or legislation that impacted Seminole's generation expansion plan.

**Payne Creek Generating Station**

The Payne Creek Generating Station (PCGS), a 488 MW combined cycle generating facility, is the only generation project in Seminole's current expansion plan. The PCGS project received certification pursuant to the Florida Electrical Power Plant Siting Act on August 15, 1995. It received the federally delegated National Pollutant Discharge Elimination System (NPDES) permit, issued on November 29, 1995, and the Prevention of Significant Deterioration (PSD) permit, on September 28, 1995.

Based upon the Siemens-Westinghouse Combustion Turbine (CT) finally selected for this facility, Seminole has identified several necessary modifications to the existing PSD permit and certification, in order to conform to the selected CT. These permit modifications were issued by FDEP on July 23, 1999 and December 21, 1999, respectively.

In addition to the permit modifications, Seminole has filed for a dredge and fill permit from the U.S. Army Corps of Engineers (USACE), for the wetland impacts associated with onsite construction. The application was filed with the USACE in April of 1999 and was issued on August 17, 1999.

No modifications are required for the existing NPDES permit.

**Future Combustion Turbine or Combined Cycle Facilities**

Future generation from combustion turbine or combined cycle facilities will be permitted in accordance with all applicable State and Federal environmental regulations. These regulations may include:

- ▶ Florida Power Plant Siting Act Regulations (PPSA)
- ▶ Prevention of Significant Deterioration Regulations (PSD)
- ▶ U.S. Army Corps of Engineers Wetlands Regulations
- ▶ National Pollutant Discharge Elimination System Regulations (NPDES)
- ▶ Applicable local government requirements (i.e.: zoning, land use, etc.)

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**Load Forecasting**

7. Provide, on a system-wide basis, historical annual heating degree day (HDD)<sup>1</sup> data for the period from 1990-1999 and forecasted annual HDD data for the period from 2000-2009.

ACTUAL	
YEAR	HDH
1990	5,803
1991	9,599
1992	11,850
1993	12,301
1994	8,957
1995	15,015
1996	16,205
1997	10,064
1998	9,923
1999	10,732

PREDICTED	
YEAR	HDH
2000	13,135
2001	13,135
2002	13,135
2003	13,135
2004	13,135
2005	13,135
2006	13,135
2007	13,135
2008	13,135
2009	13,135

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<sup>1</sup>For modeling purposes Seminole uses heating degree hour (HDH) not heating degree day (HDD).

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8. Provide, on a system-wide basis, historical annual cooling degree day (CDD)<sup>2</sup> data for the period from 1990-1999 and forecasted annual CDD data for the period from 2000-2009.

ACTUAL	
YEAR	CDH
1990	37,626
1991	35,877
1992	30,677
1993	32,489
1994	32,383
1995	36,393
1996	33,115
1997	33,858
1998	38,668
1999	30,961

PREDICTED	
YEAR	CDH
2000	33,299
2001	33,299
2002	33,299
2003	33,299
2004	33,299
2005	33,299
2006	33,299
2007	33,299
2008	33,299
2009	33,299

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<sup>2</sup>For modeling purposes Seminole uses cooling degree hour (CDH) not cooling degree day (CDD).

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9. Provide, on a system-wide basis, the historical annual average real retail price of electricity in Seminole's service territory for the period from 1990-1999. Also, provide the forecasted annual average real retail price of electricity in Seminole's service territory for the period from 2000-2009. Indicate the type of price deflator used to calculate the historical prices and forecasted real retail prices.

Seminole does not serve retail load.

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10. Provide the following data to support Schedule 4 of Seminole's Ten-Year Site Plan: the 12 monthly peak demands for the years 1997, 1998, and 1999; and the date on which these monthly peaks occurred.

<b>Demand (MW)</b>												
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1997	2,953	2,030	1,546	1,600	1,905	2,171	2,320	2,320	2,221	1,869	1,786	2,160
1998	2,198	2,125	2,414	1,749	2,277	2,606	2,458	2,523	2,211	2,154	1,632	2,135
1999	3,196	2,477	2,171	2,380	2,185	2,285	2,577	2,627	2,451	2,158	1,922	2,580

<b>Peak Day</b>												
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1997	19	12	4	27	26	30	3	20	21	13	17	15
1998	1	10	13	18	25	17	3	27	4	7	26	31
1999	6	23	5	26	25	4	31	1	5	2	4	26