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Public Service Commission

March 3, 2011

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11 MAR -3 AM 10:47
COMMISSION
CLERK

110000-01

Mr. Paul Lewis
Progress Energy Florida, Inc.
106 E. College Avenue, Suite 800
Tallahassee, Florida 32301

Re: Review of 2011 Ten-Year Site Plans - Supplemental Data Requests

Dear Mr. Lewis:

Pursuant to the Commission's authority under Section 366.05(7), Florida Statutes, we are making a second request for supplemental information on each company's generation expansion plans. The information will be used to supplement each company's 2011 *Ten-Year Site Plan* filing.

Enclosed is staff's second supplemental data request. Please provide the information requested on the enclosed documents in hard copy or electronic format as specified and submit it no later than May 6, 2011. Please complete the data tables in Excel (.xls) format.

If you have any questions regarding this request, you may contact me at (850) 413-6626 (pellis@psc.state.fl.us) or Traci Matthews at (850) 413-6682 (tmatthews@psc.state.fl.us). Thank you for your assistance.

Sincerely,

Phillip Ellis
Division of Regulatory Analysis

Enclosure

cc: Office of the General Counsel (Murphy)
Office of the Commission Clerk (Cole)

DOCUMENT NUMBER - DATE
01442 MAR -3 =
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2011 TEN YEAR SITE PLANS : SUPPLEMENTAL DATA REQUEST #2

Company Name: _____

RENEWABLE GENERATION

1. Please provide a description of the costs associated with each existing and planned utility-owned renewable generation resource. Please also include each renewable resource which provides fuel to conventional facilities (co-firing), if applicable, with estimates of its capacity and energy contributions. As part of this response, please include a description of the unit's generator type, fuel type, installed cost (nominal \$), fixed operations & maintenance (O&M) cost, variable O&M cost, fuel cost (if applicable), and the annual levelized cost of electricity. Please complete the table below and provide an electronic copy in Excel (.xls file format) and hard copy.

Utility-Owned Renewable Resources

Facility Name	Unit Type	Fuel Type	Installed Cost	Fixed O&M Cost	Variable O&M Cost	Fuel Cost	Levelized Cost of Electricity
-	-	-	\$/kW	\$/kW-yr	\$/MWh	\$/MWh	\$/MWh

2. Please provide a description of the costs associated with each existing and planned renewable purchased power agreement. Please also include each renewable resource which provides fuel to conventional facilities (co-firing), if applicable, with estimates of its energy payments. As part of this response, please include a description of the unit's generator type, fuel type, annual capacity payments, annual energy payments, total annual payments to the facility, and the resulting levelized cost of electricity from the facility. Please complete the table below and provide an electronic copy in Excel (.xls file format) and hard copy.

Renewable Purchased Power Agreements

Facility Name	Unit Type	Fuel Type	Capacity Payments	Energy Payments	Total Payments	Levelized Cost of Electricity
-	-	-	\$	\$	\$	\$/MWh

DOCUMENT NUMBER-DATE

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3. Please provide, on a system-wide basis, the hourly system load for the period January 1, 2010, through December 31, 2010. Please complete the table below (expanding as necessary) and provide an electronic copy in Excel (.xls file format).

Month	Day	Hour	System Load (MW)
1	1	1:00	
1	1	2:00	
1	1	3:00	
1	1	4:00	
1	1	5:00	
1	1	6:00	
1	1	7:00	
1	1	8:00	
1	1	9:00	
1	1	10:00	
1	1	11:00	
1	1	12:00	
1	1	13:00	
1	1	14:00	
1	1	15:00	
1	1	16:00	
1	1	17:00	
1	1	18:00	
1	1	19:00	
1	1	20:00	
1	1	21:00	
1	1	22:00	
1	1	23:00	
1	1	24:00	
Continue until 12/31 @ 24:00			

4. Please identify which climate station from the list below would most accurately represent the company's service territory, as a whole, for the purposes of determining a typical meteorological year. Alternatively, provide a data set for a typical meteorological year in an appropriate electronic format (TMY2, TMY3, or EPW). The stations below are drawn from the National Solar Radiation Data Base. Other publically available databases can be utilized, so long as an electronic copy is provided.

USAF	Station Name	USAF	Station Name
<u>722215</u>	Crestview Bob Sikes AP	<u>747946</u>	NASA Shuttle Fclty
<u>722056</u>	Daytona Beach Intl AP	<u>722055</u>	Ocala Muni (AWOS)
<u>722039</u>	Fort Lauderdale	<u>722053</u>	Orlando Executive AP
<u>722025</u>	Fort Lauderdale Hollywood Int	<u>722050</u>	Orlando Intl Arprt
<u>722106</u>	Fort Myers Page Field	<u>722057</u>	Orlando Sanford Airport
<u>722146</u>	Gainesville Regional AP	<u>722245</u>	Panama City Bay Co
<u>722026</u>	Homestead AFB	<u>722225</u>	Pensacola Forest Sherman NAS
<u>722060</u>	Jacksonville Intl Arprt	<u>722223</u>	Pensacola Regional AP
<u>722065</u>	Jacksonville NAS	<u>722115</u>	Sarasota Bradenton
<u>722068</u>	Jacksonville/Craig	<u>722108</u>	Southwest Florida I
<u>722010</u>	Key West Intl Arprt	<u>722103</u>	St Lucie Co Intl
<u>722015</u>	Key West NAS	<u>722104</u>	St Petersburg Albert Whitted
<u>722119</u>	Lakeland Linder Rgn	<u>722116</u>	St Petersburg Clear
<u>747880</u>	MacDill AFB	<u>722140</u>	Tallahassee Regional AP [ISIS]
<u>722016</u>	Marathon Airport	<u>722110</u>	Tampa International AP
<u>722066</u>	Mayport Ns	<u>747750</u>	Tyndall AFB
<u>722040</u>	Melbourne Regional AP	<u>722210</u>	Valparaiso Elgin AFB
<u>722020</u>	Miami Intl AP	<u>747770</u>	Valparaiso Hurlburt
<u>722029</u>	Miami/Kendall-Tamia	<u>722045</u>	Vero Beach Municipal Arprt
<u>722024</u>	Miami/Opa Locka	<u>722030</u>	West Palm Beach Intl Arprt
<u>722038</u>	Naples Municipal	<u>722226</u>	Whiting Field NAAS

5. Please provide, if available, the hourly output, for the period January 1, 2010, through December 31, 2010, for an existing solar photovoltaic system in the company's service territory. As part of the data response, please provide the array's DC rating, AC rating, Array Orientation (degrees from south), and whether it is a fixed or tracking array. If a fixed array, please provide the degree of tilt, specifying if the tilt is seasonally changed (if so, when, and by how much). If a tracking array, specify whether it is a one or two axis tracking system. Please also provide general information about the installation, including panel height, whether shading issues exist, or other notable factors which may influence the array's output. Please complete the table below (expanding as necessary) and provide an electronic copy in Excel (.xls file format).

Month	Day	Hour	AC Output (kWh)
1	1	1:00	
1	1	2:00	
1	1	3:00	
1	1	4:00	
1	1	5:00	
1	1	6:00	
1	1	7:00	
1	1	8:00	
1	1	9:00	
1	1	10:00	
1	1	11:00	
1	1	12:00	
1	1	13:00	
1	1	14:00	
1	1	15:00	
1	1	16:00	
1	1	17:00	
1	1	18:00	
1	1	19:00	
1	1	20:00	
1	1	21:00	
1	1	22:00	
1	1	23:00	
1	1	24:00	
Continue until 12/31 @ 24:00			