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March 16, 2007

Blanca Bayo  
Director, Office of the Commission Clerk  
Florida Public Service Commission  
2540 Shumard Oak Blvd.  
Tallahassee, FL 32399

**RE: Docket No. 070098-EI, Florida Power & Light Company's Petition to Determine Need for FPL Glades Power Park Units 1 and 2 Electrical Power Plant**

Dear Ms. Bayo,

Please find enclosed an original and 15 copies each of the supplemental testimony of David A. Schlissel on behalf of Intervenor, The Sierra Club, Inc. (Sierra Club), Save Our Creeks (SOC), Florida Wildlife Federation (FWF), Environmental Confederation of Southwest Florida (ECOSWF), and Ellen Peterson.

Thank you for your attention to this matter.

- CMP \_\_\_\_\_
- COM 5
- CTR Org.
- ECR 1
- GCL \_\_\_\_\_
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- SEC \_\_\_\_\_
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CC: All Official and Interested Parties

Sincerely,

Michael Gross  
Earthjustice  
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Tallahassee, FL 32301  
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DOCUMENT NUMBER-DATE

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**ORIGINAL**

BEFORE THE PUBLIC SERVICE COMMISSION

In re: Florida Power & Light Company's  
Petition to Determine Need for FPL Glades  
Power Park Units 1 and 2 Electrical Power  
Plant

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DOCKET NO.: 070098-EI

**SUPPLEMENTAL DIRECT TESTIMONY OF**

**DAVID A. SCHLISSEL**

**ON BEHALF OF**

**THE SIERRA CLUB, INC.**

**SAVE OUR CREEKS**

**FLORIDA WILDLIFE FEDERATION**

**ENVIRONMENTAL CONFEDERATION OF SOUTHWEST FLORIDA**

**ELLEN PETERSON**

MARCH 16, 2007

**TABLE OF SUPPLEMENTAL EXHIBITS**

Exhibit DAS-4      Emission Trajectories of CO<sub>2</sub> Legislation in the 109<sup>th</sup> Congress

**Supplemental Direct Testimony of David A. Schlissel  
Florida Public Service Commission Docket No. 070098-EI**

1 **Q. State your name, occupation and business address.**

2 A. My name is David A. Schlissel. I am a Senior Consultant at Synapse Energy  
3 Economics, Inc, 22 Pearl Street, Cambridge, MA 02139.

4 **Q. Are you the same David Schlissel that previously filed testimony in this docket?**

5 A. Yes, I am.

6 **Q. On whose behalf are you testifying?**

7 A: My testimony is sponsored by the Sierra Club, Inc., Florida Wildlife Federation  
8 (FWF), Save Our Creeks (SOC), and the Environmental Confederation of Southwest  
9 Florida (ECOSWF) and Ellen Peterson.

10 **Q. Please summarize this Supplemental Testimony.**

11 A. My Direct Testimony filed on March 7, 2007 primarily provided Synapse's estimate  
12 of the likely cost arising from future greenhouse gas restrictions/reductions. The  
13 purpose of this Supplemental Testimony is to provide an FPL-specific context for  
14 those costs as well to critique FPL's resource planning in general.

15 **Q. What have you discovered in the course of your review of FPL's resource  
16 planning?**

17 A. On page 6, lines 5-8 of his testimony, FPL witness Rene Silva testifies "[G]iven the  
18 range of potential outcomes FPL is not recommending approval of FGPP based on  
19 any specific, projected set of assumptions or comparative economic results against  
20 other forms of generation." That is, FPL *recognizes* that the resource planning  
21 scenarios presented in its Need Study do *not* support the choice of FGPP.

22 FPL's major justification for FGPP can be summed up in four words "no new natural  
23 gas." However, that should not be enough to justify the building of a multi-billion  
24 dollar coal-fired generating facility. Instead, principles of least-cost, least-risk  
25 resource planning ought to compel FPL to justify FGPP on an economic basis. I  
26 would ask this Commission to very carefully consider whether building a 1,960 MW  
27 coal plant is an appropriate hedge against natural gas prices if the economics do not  
28 otherwise justify the building of that plant. I also would ask this Commission to

**Supplemental Direct Testimony of David A. Schlissel  
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1 consider whether the simple comparison between FGPP and natural gas generation  
2 that FPL has presented in its Need Study is appropriate. Finally, I will raise the issue  
3 of the justification for FPL's 20% reserve margin requirement.

4 **Q. Can you please explain why FPL's analyses do not support the choice of FGPP  
5 versus natural gas generation?**

6 A. FPL witness Silva has testified:<sup>1</sup>

7 In 7 scenarios that generally reflect a wider fuel price differential between  
8 natural gas and coal and/or moderate environmental compliance costs, the  
9 Plan with Coal, which reflects the addition of FGPP results in lower costs  
10 (CPVRR) than would the plan without Coal. Conversely, in the 9  
11 scenarios that generally reflect a narrower fuel price differential between  
12 natural gas and coal and/or higher environmental compliance costs, the  
13 Plan with Coal results in higher costs than the Plan without Coal.

14 The results of these scenarios are summarized in Table 1.

15 **Table 1. Cost Differentials of FPL Scenarios**

	<b>A – No CO<sub>2</sub></b>	<b>B – Low CO<sub>2</sub></b>	<b>C – Mid CO<sub>2</sub></b>	<b>D – High CO<sub>2</sub></b>
<b>High Differential</b>	(2,792)	(2,045)	(1,127)	1,912
<b>Shocked Differential</b>	(873)	(113)	804	1,278
<b>Medium Differential</b>	(219)	537	1,466	1,930
<b>Low Differential</b>	(1,912)	2,670	3,604	4,037

16 *A negative value indicates that the Plan with Coal is less expensive than the Plan without Coal.*

17 Perhaps not surprisingly, if the analysis does not consider the potential costs of CO<sub>2</sub>  
18 regulations, FGPP is a more economic option than the natural gas alternatives. But,  
19 as I discussed in my March 7<sup>th</sup> Direct Testimony, at this time the question of CO<sub>2</sub>  
20 regulation is not "if" but "when." Even FPL Group, as discussed in my March 7<sup>th</sup>  
21 testimony, concedes that action on climate change is necessary.

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<sup>1</sup> Testimony of Rene Silva, page 32, lines 8-14.

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Florida Public Service Commission Docket No. 070098-EI**

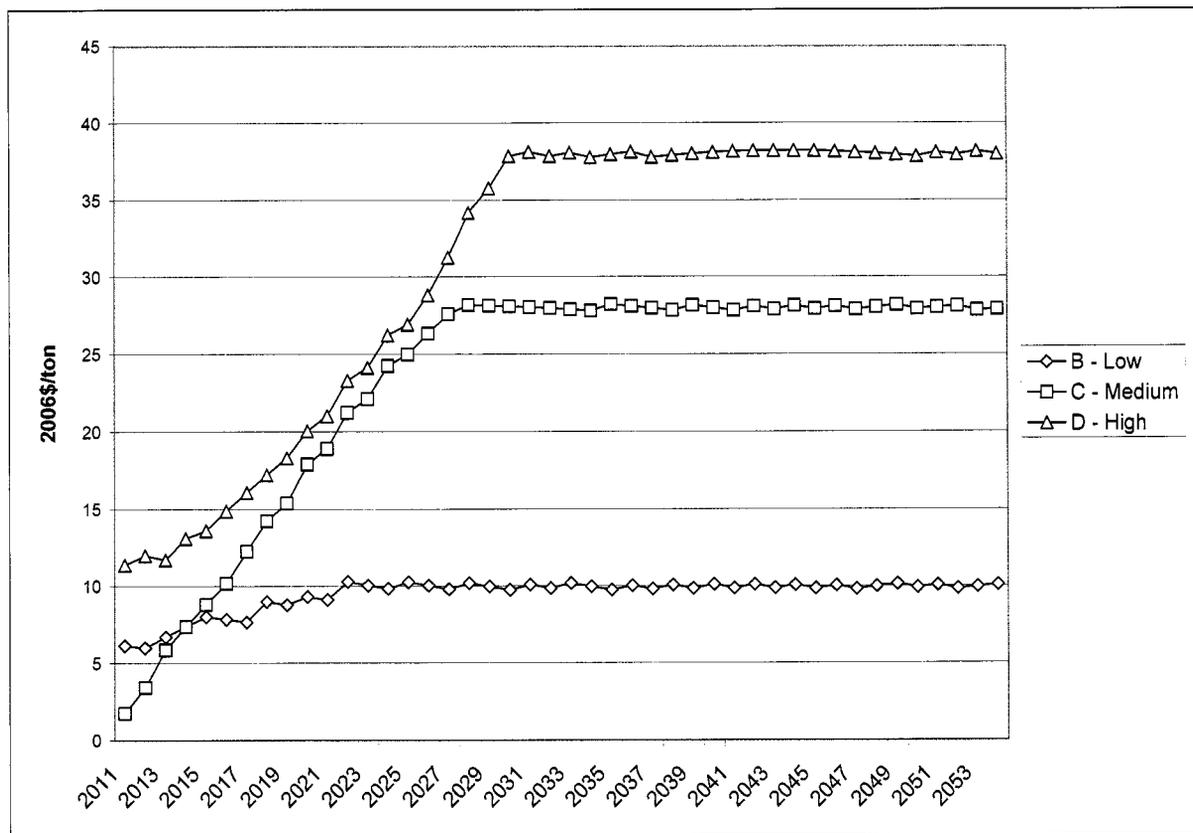
1 As a result, all of the scenarios in the left column in Table 1 above are not reasonable  
2 and should not be considered. That leaves the remaining twelve scenarios, of which  
3 only three show that FGPP is the lower cost option.

4 **Q. Are these three remaining scenarios that show FGPP as the lower cost**  
5 **alternative reasonably likely?**

6 A. No. FPL apparently evaluates these scenarios through the year 2054 which is to be  
7 commended given that FGPP is likely to have an operating life of at least 40 years.  
8 By the same token, FPL's environmental compliance forecasts must be evaluated for  
9 their reasonableness over the same period. I've taken the nominal CO<sub>2</sub> price forecasts  
10 supplied in Appendix F of the Need Study and converted them to real 2006 dollars  
11 using a 2.25% inflation rate to illustrate the real cost per ton of CO<sub>2</sub> under each  
12 forecast.

1

Figure 1. FPL CO<sub>2</sub> Price Forecasts (2006\$)



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4 Forecast B, FPL's low CO<sub>2</sub> price forecast, stands out as being just that, very low.  
5 Indeed, it is so low, that it is not reasonable to expect that such low CO<sub>2</sub> prices  
6 actually would lead to reductions in CO<sub>2</sub> emissions of sufficient magnitude to address  
7 the problem of climate change. In real dollars, the highest price this forecast would  
8 ever reach would be \$10/ton in 2022. Under all reasonable estimates I've seen, that  
9 would not be enough to incent carbon capture and sequestration at coal-fired power  
10 plants of any type, for example. Essentially, FPL's low forecast rests upon the  
11 assumption that U.S. greenhouse gas regulation will never result in significant  
12 reductions of greenhouse gas emissions. This is an unreasonable assumption over  
13 such a long period of time and therefore the scenarios assuming FPL's low forecast  
14 should not be considered.

15 That leaves us with just one out of eight scenarios (referring back to Table 1) which  
16 suggest that FGPP would be the lower cost capacity addition to FPL's system.

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1 **Q. Is this scenario reasonable?**

2 A. It may be. Certainly the real cost of CO<sub>2</sub> escalates to a much higher level than in the  
3 Company's low CO<sub>2</sub> price scenario. However, the CO<sub>2</sub> price in this scenario still tops  
4 out at only \$28/ton. But, the more important question is whether the Commission's  
5 decision to grant FPL's need request ought to rest upon only one reasonable planning  
6 scenario.

7 **Q. Should the Commission approve the building of FGPP based on the results of**  
8 **this single scenario?**

9 A. No. Even if we were to accept that the very limited comparison between FGPP and  
10 natural gas generation is the appropriate comparison, that is, that there are no other  
11 reasonable alternatives, the downside of building FGPP is, in most scenarios, much  
12 larger than the upside of moving forward with the project.

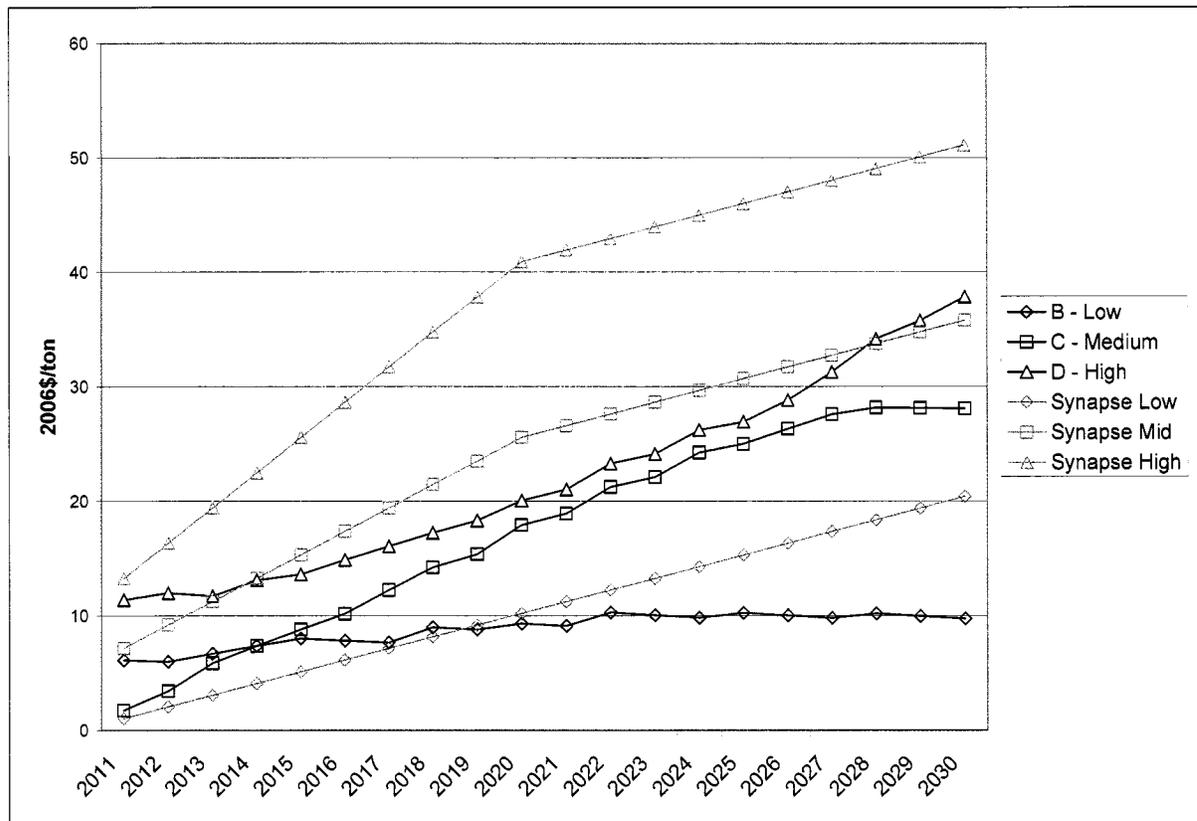
13 In the Mid-CO<sub>2</sub> Price, High Differential scenario, the upside of building FGPP rather  
14 than natural gas generation would be a cost savings to FPL customers of \$1.127  
15 billion. In *every* other reasonable scenario, however, it is *more* costly to FPL  
16 customers to go forward with FGPP in place of new natural gas-fired generation.  
17 According to FPL's own analysis, as shown in Table 1 above, that cost could reach  
18 \$4.037 billion.

19 **Q. Is \$4.037 billion the upper bound of the potential cost differential between FGPP**  
20 **and natural gas generation?**

21 A. Not necessarily. My March 7, 2007 testimony presented Synapse's forecast of the  
22 cost of mandatory greenhouse gas reductions. Below, I've created a chart comparing  
23 our CO<sub>2</sub> price forecast to that used by FPL in its economic analyses of the FGPP  
24 project.

1

Figure 2. Comparison of FPL CO<sub>2</sub> Forecast to Synapse Forecast



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As you can see from Figure 2, even the FPL high CO<sub>2</sub> price forecast is generally lower than the Synapse mid forecast. Under our Synapse mid and high CO<sub>2</sub> price forecasts, the cost to FPL's customers of proceeding with FGPP would rise significantly above \$4.037 billion compared to natural gas generation.

8

**Q. What is the basis for the CO<sub>2</sub> price forecasts used by FPL in its FGPP analyses?**

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10

A. According to FPL's response to Staff's First Set of Interrogatories, No. 35, the bills upon which these forecasts are based are:

11  
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- Senator Jeff Bingaman's Climate and Economy Insurance Act
- Senator Tom Carper's Clean Planning Act of 2006 (S.2724)
- Senator Dianne Feinstein Discussion Draft – Strong Economy and Climate Protection Act
- Senators John McCain & Joe Lieberman – Climate Stewardship Act (S.1151)

17  
18

Some of these bills have evolved since then, including latest version of the McCain-Lieberman bill which has more aggressive emission reduction targets as introduced in

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1 2007 compared to 2005. Most importantly, however, it would be unreasonable to  
2 base a forecast of CO<sub>2</sub> allowance prices through 2054 on bills that do not address the  
3 need to stabilize the concentration of CO<sub>2</sub> in our atmosphere. *None* of these bills  
4 would achieve that.

5 Exhibit DAS-4<sup>2</sup> compares the emissions trajectories of several bills proposed in the  
6 109<sup>th</sup> Congress including the Bingaman, Feinstein and McCain-Lieberman bills upon  
7 which FPL's forecasts are based. The Carper bill is, unfortunately, not included, but  
8 it is slightly less stringent than the McCain-Lieberman bill. The emission reduction  
9 paths to achieve stabilization targets of 550 parts per million (ppm) and 450 ppm are  
10 the grey lines. None of the bills upon which FPL relies, would come close to those  
11 targets.<sup>3</sup>

12 As with federal regulation of sulfur dioxide, I would expect federal regulation of  
13 carbon dioxide to come in steps. Over time, the regulation will become more  
14 stringent in order to address the problem of climate change. Such a trend, however, is  
15 apparently not reflected in FPL's CO<sub>2</sub> price forecasts.

16 **Q. Does the comparison of fuel price differential and greenhouse gas regulation**  
17 **adequately capture the biggest risks to FGPP?**

18 A. No, it does not. There are other major risks to building coal plants many of which  
19 FPL identifies in its Need Study at page 17. One of those risks it has not analyzed,  
20 however. That is the risk of increases in "the actual capital cost of completing FGPP  
21 and placing the generating units in commercial operation."

22 **Q. Please describe this risk.**

23 A. The projected costs of building new coal plants have increased dramatically over the  
24 past few years. This is due in large part to intense global competition for coal plants  
25 coupled with constrained supply. A perfect example comes from FGPP itself. At

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<sup>2</sup> The graphic in this exhibit is taken from the World Resource Institute and is available at  
[http://www.wri.org/climate/topic\\_content.cfm?cid=4182](http://www.wri.org/climate/topic_content.cfm?cid=4182).

<sup>3</sup> Those are the lines "Bingaman (2005)," "McCain-Lieberman/Olver-Gilchrest (2005)," and "Feinstein  
(3/2006)."

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1 page 17, lines 17-23 of his testimony, FPL witness William Yeager says “The  
2 immense scope of this project, in the first instance, necessarily limits the number of  
3 potential EPC [engineer, procure, construct] contractors. Thus, the EPC pricing was  
4 based on an initial inquiry to three major contractors with coal engineering,  
5 procurement, construction experience. In fact, the result of this inquiry produced  
6 only one contractor with resources available in sufficient quantity to handle a project  
7 of this magnitude in the timeframe required.”

8 It is remarkable that the EPC contract for such a large project could not be  
9 competitively bid and is an excellent example of why designers, vendors and  
10 suppliers can charge premiums on coal plant components and services of all types.

11 The demand for coal plants therefore translates into a significant cost risk for FGPP.  
12 At page 16 of the Need Study, FPL states “There are factors that could cause the  
13 capital cost of FGPP to be higher than projected. One reason for this is that there is a  
14 much longer lead time required, at least five and a half years from the date of this  
15 Need filing for development, permitting and construction of the first FGPP unit,  
16 compared to just over three years for gas-fired units, and a correspondingly greater  
17 opportunity for changes in the cost of equipment, labor and materials to occur.”

18 Unfortunately, FPL has done no analysis under which it analyzed the effect of  
19 potential cost increases in the FGPP capital cost.

20  
21 **Q. Is it possible that FPL could mitigate both the downsides of new natural gas**  
22 **generation and FGPP?**

23 A. Yes, mitigate and perhaps even avoid. Among the hundreds of pages of testimony  
24 and the Need Study, the glaring omission is information on how FPL even decided  
25 that its only two choices were FGPP or new natural gas generation. It is not enough  
26 for FPL to say that it needs to add 1,960 MW of new coal-fired capacity; it must  
27 justify that addition over other alternatives like renewables and energy efficiency (see  
28 the Testimony of John Plunkett) as well as demonstrate that baseload capacity is  
29 needed.

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1 **Q. Are you saying that there is no analysis showing how FPL arrived at the**  
2 **conclusion that it would need either gas or coal-fired baseload capacity?**

3 A. Not that I have seen. In a need case such as this, I would expect to see a quantitative,  
4 economic analysis likely using a capacity expansion model to evaluate different  
5 resources. Instead, what FPL apparently has done is much simpler and excludes any  
6 sort of economic considerations.

7 **Q. Please describe what you know about FPL's analysis.**

8 A. FPL witness Steven Sim states at page 8, lines 20-21 of his testimony "FPL utilized  
9 its IRP process to first determine the timing and magnitude of resource needs." He  
10 does not describe at all what that process entails. However, on the page following he  
11 is asked the question "How did FPL decide it needed additional resources and what  
12 was the magnitude of the needed resources?" He answers:<sup>4</sup>

13 FPL uses two analytical approaches in its reliability assessment to  
14 determine the timing and magnitude of its future resource needs...The first  
15 approach is to make projections of reserve margins both for Winter and  
16 Summer peak hours for future years. A minimum reserve margin criterion  
17 of 20% is used to judge the projected reserve margins.

18 The second approach is a Loss-of-Load-Probability (LOLP) evaluation.  
19 Simply stated, LOLP is an index of how well a generating system may be  
20 able to meet its demand (i.e., a measure of how often load may exceed  
21 available resources)...LOLP is typically expressed in units of "numbers of  
22 times per year" that the system demand could not be served.

23 If these two analytical approaches constitute FPL's "IRP process" the Commission  
24 should absolutely *not* rely upon the results of this analysis, i.e., the choice between  
25 FGPP and natural gas generation. Even taken together, these approaches give no  
26 information about the appropriate mix of resources types (baseload, intermediate,  
27 peaking) that represents the least cost mix of resources or the value of delaying  
28 resource additions. For example, it's possible that FPL simply looked at its load and  
29 resources projection which "has been driven by the Summer reserve margin

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<sup>4</sup> Testimony of Steven Sim, page 9, line 10 through page 10, line 5.

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1 criterion,”<sup>5</sup> saw that it needed capacity to meet its summer reserve margin  
2 requirement and chose baseload capacity even though that capacity may not operate  
3 in the winter months (because it may not be needed).

4 **Q. What would constitute appropriate resource planning?**

5 A. FPL ought to present this Commission with the results of analyses that have directly  
6 compared resource choices like coal, gas, renewables and demand-side management.

7 **Q. Do you have any additional issues you would like to raise with this Commission?**

8 A. Yes. FPL’s need for new capacity essentially appears to be a result of the 20%  
9 reserve margin requirement; a requirement that is much higher than other  
10 jurisdictions I am familiar with. To demonstrate the result of having a 20% reserve  
11 margin, I’ve recreated Exhibit SRS-4 for the summer months as Table 2.

12 **Table 2. Projection of FPL’s 2007-2015 Capacity Needs: 15% Reserve**

13

August of the Year	Projections of FPL Unit Capability (MW)	Projections of Firm Purchases (MW)	Projections of Total Capacity (MW)	Peak Load Forecast (MW)	Summer DSM Forecast (MW)	Forecast of Firm Peak (MW)	Forecast of Summer Reserves (MW)	Forecast of Summer Margins w/o Additions (%)	MW Needed to Meet 15% Reserve Margin
2007	22,123	2,993	25,116	22,259	1,768	20,491	4,625	22.6%	(1551)
2008	22,150	2,993	25,143	22,770	1,908	20,862	4,281	20.5%	(1152)
2009	23,370	2,511	25,881	23,435	2,034	21,401	4,480	20.9%	(1270)
2010	24,589	2,107	26,696	24,003	2,146	21,857	4,839	22.1%	(1560)
2011	24,589	2,062	26,651	24,612	2,264	22,348	4,303	19.3%	(951)
2012	24,589	1,906	26,495	25,115	2,388	22,727	3,768	16.6%	(359)
2013	25,569	1,906	26,495	25,590	2,516	23,074	3,421	14.8%	40
2014	26,549	1,906	27,475	26,100	2,651	23,449	4,026	17.2%	(509)
2015	26,549	1,906	28,455	26,772	2,790	23,982	4,473	18.7%	(876)

14 If FPL had a 15% reserve margin it would need just 40 MW of new capacity in 2013.

15 Reserve margins are mechanisms to address resource adequacy concerns. My  
16 understanding is that FPL operates under both a LOLP standard of 0.1 days per year  
17 as well as a 20% reserve margin requirement. If the 20% reserve margin is not  
18 necessary in order to maintain the LOLP standard of 0.1 days per year, that is, if a  
19

<sup>5</sup> Testimony of Steven Sim, page 10, lines 7-8.

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Florida Public Service Commission Docket No. 070098-EI**

1           15% reserve margin<sup>6</sup> could guarantee the same LOLP standard, then FPL customers  
2           are paying additional money for capacity that brings little in the way of reliability  
3           benefits. In the case of this particular project, they are paying about \$5.7 *billion*<sup>7</sup>  
4           extra. I would strongly encourage this Commission to open a docket to examine  
5           whether peninsular Florida's reserve margin requirement ought to be revised  
6           downward before granting an affirmative need determination for FGPP.

7   **Q.    What is your ultimate recommendation to this Commission?**

8    A.    I recommend that the Commission deny FPL's need request. FPL has failed to  
9           demonstrate that FGPP is the least cost, least risk addition to its system and the  
10          Commission should revisit the 20% reserve margin requirement before approving  
11          new capacity at a cost of \$5.7 billion.

12          FPL's analyses in support of FGPP do not comprehensively consider potential CO<sub>2</sub>  
13          prices and do not evaluate a full range of technically feasible alternatives. FPL's  
14          analyses do not even show that FGPP would be less expensive than building and  
15          operating new gas facilities.

16   **Q.    Does this complete your testimony?**

17    A.    Yes.

18

19

20

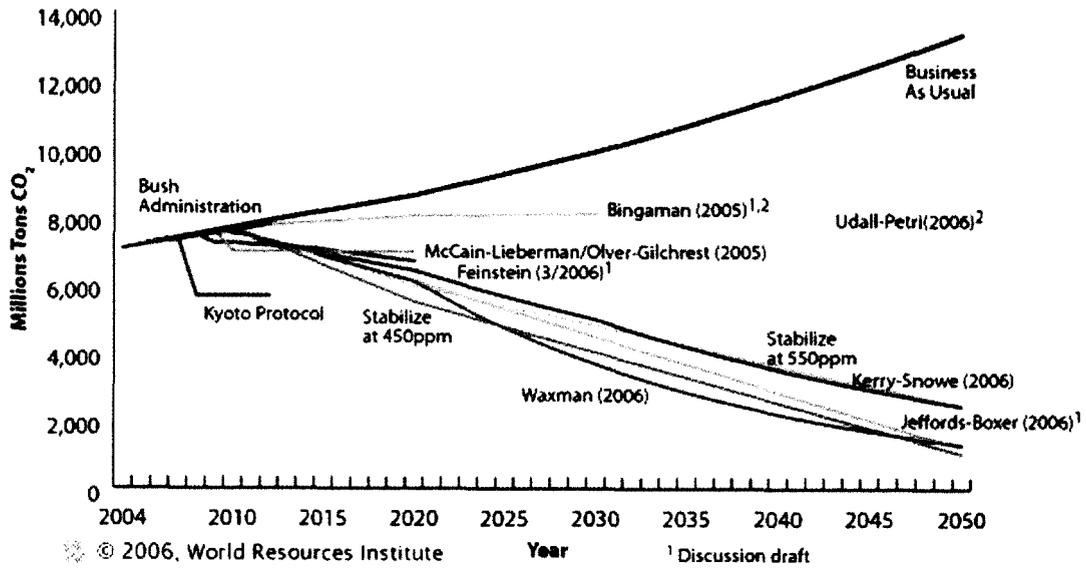
21

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<sup>6</sup>       I chose 15% as the example reserve margin since I understand that prior to 1999, that was the Commission ordered minimum reserve margin.

<sup>7</sup>       FGPP Need Study, page 37.

Emission Trajectories of CO<sub>2</sub> Legislation in the 109<sup>th</sup> Congress



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<sup>1</sup> Discussion draft

<sup>2</sup> Projections do not include emissions that may exceed the cap due to a price "safety valve."

## CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing was served on this 16<sup>th</sup> day of March, 2007, via electronic mail and US Mail on:

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