

BEFORE THE  
FLORIDA PUBLIC SERVICE COMMISSION

In the Matter of:

PETITION FOR DETERMINATION                    DOCKET NO. 140110-EI  
OF NEED FOR CITRUS COUNTY  
COMBINED CYCLE POWER PLANT,  
BY DUKE ENERGY FLORIDA, INC.

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PETITION FOR DETERMINATION                    DOCKET NO. 140111-EI  
OF COST EFFECTIVE GENERATION  
ALTERNATIVE TO MEET NEED  
PRIOR TO 2018, BY DUKE ENERGY  
FLORIDA, INC.

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VOLUME 5

Pages 660 through 761

PROCEEDINGS:            HEARING

COMMISSIONERS  
PARTICIPATING:        CHAIRMAN ART GRAHAM  
                              COMMISSIONER LISA POLAK EDGAR  
                              COMMISSIONER RONALD A. BRISÉ  
                              COMMISSIONER EDUARDO E. BALBIS  
                              COMMISSIONER JULIE I. BROWN

DATE:                    Wednesday, August 27, 2014

TIME:                    Commenced at 9:57 a.m.  
                              Concluded at 12:56 p.m.

PLACE:                   Betty Easley Conference Center  
                              Room 148  
                              4075 Esplanade Way  
                              Tallahassee, Florida

REPORTED BY:           LINDA BOLES, CRR, RPR  
                              Official FPSC Reporter  
                              (850) 413-6734

APPEARANCES:        (As heretofore noted.)

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## P R O C E E D I N G S

1  
2 (Transcript continues in sequence from Volume  
3 4.)

4 **MR. WALLS:** We tender Mr. Borsch for  
5 cross-examination at this time.

6 **CHAIRMAN GRAHAM:** Thank you very much.  
7 Mr. Rehwinkel.

8 **MR. REHWINKEL:** Thank you, Mr. Chairman. I  
9 don't know exactly how this is going to go, but I'm  
10 going to -- just to give you an idea of the time, if  
11 you, if you're interested, I think about an hour is what  
12 I would need. I'll try to stay to that.

13 **CHAIRMAN GRAHAM:** Okay.

14 **MR. REHWINKEL:** That's an Art Graham hour.

15 (Laughter.)

16 I can suck up when I need to.

17 **CHAIRMAN GRAHAM:** You're a wise, wise man.

**EXAMINATION**

18  
19 **BY MR. REHWINKEL:**

20 **Q** Good after -- oh, no, it's still morning.  
21 Good morning, Mr. Borsch. I feel like I should call you  
22 Ben, but I think I'm supposed to call you Mr. Borsch.

23 I want to start by asking you about a  
24 statement you made in your summary with respect to what  
25 is and is not prudent with respect to the load forecast.

1 Do you recall making a statement about what --

2 **A** Yes.

3 **Q** Is it your testimony that it's not prudent to  
4 question the company's load forecast?

5 **A** No. It's my statement that it's not prudent  
6 to make arbitrary assumptions about how a load forecast  
7 might change that are not supported by direct analytics.

8 **Q** Okay. So you think it's fair for the  
9 Commission or Intervenor to challenge a load forecast  
10 based on principle and evidence; is that right?

11 **A** Yes. I believe that's in this docket and also  
12 presumably in the ten-year site plan workshops.

13 **Q** Okay. And you would also agree that the  
14 forecasting process that the company undertakes is not  
15 perfect; right?

16 **A** We do the best we can with the information we  
17 have.

18 **Q** Okay. For purposes of the need determination  
19 for the Citrus unit in 2018, would you agree with me  
20 that the forecast that you have used is the same one  
21 that is shown in the 2014 Ten-Year Site Plan that you  
22 filed with the Commission?

23 **A** Yes.

24 **Q** For purposes of demand?

25 **A** Yes.

1           **Q**     Now would you also agree with me that a  
2 significant portion of the load that Citrus is designed  
3 to meet in 2018 in order to maintain a 20 percent  
4 reserve margin is related to your wholesale customers?

5           **A**     I would agree that the wholesale customers or  
6 the wholesale demand is a portion incorporated into our  
7 overall load. I would point out that none of the  
8 projected wholesale demand is speculative in that to the  
9 extent that the wholesale demand reflected in our  
10 forward going projections of demand is based entirely on  
11 executed contracts with our various wholesale customers  
12 and not, does not reflect any speculation with regard to  
13 extension of those contracts.

14          **Q**     Now isn't it true that Seminole Electric  
15 Cooperative constitutes the largest portion of your  
16 wholesale load?

17          **A**     Yes.

18          **Q**     Is Seminole your largest single customer?

19          **A**     I am not certain of the answer to that  
20 question.

21          **Q**     Okay. They certainly are in the top three?

22          **A**     They are a large customer.

23          **Q**     Okay. And as you alluded to in a prior answer  
24 to me, you sell power to Seminole based on a series of  
25 contracts that were entered into in 2006, 2009, and

1 2011; is that right?

2 **A** I don't know those exact dates, but it's fair  
3 to say that we have a series of contracts that have been  
4 executed over the last several years, yes.

5 **Q** Okay. Have you entered into any after the,  
6 since the merger or any amendments, including any  
7 amendments after the merger on July 2nd, 2012?

8 **A** I am not specifically aware of any, but I --  
9 that is not my area. When I look at those, I typically,  
10 you know, look at a composite number supplied to me by  
11 our wholesale generation group. So I'm, you know, not  
12 aware of the actual contract details.

13 **Q** Okay. Would you be able to turn to your, in  
14 your direct, your Exhibit 1 and your Exhibit 2? And I  
15 want to direct you to Table 3.1 of both of those.

16 **A** I'm sorry. Direct in which docket?

17 **Q** The 110 docket.

18 **A** Thank you. Mr. Rehwinkel, if you have  
19 pages --

20 **Q** I apologize. That's a good -- 164 of BMHB-1  
21 and 18 of BMHB-2. And, again, this is tables -- Table  
22 3.1 of both the 2013 and 2014 ten-year site plan, which  
23 is page 2-6 of the respective plans. Do you see that?

24 **A** Yeah. I'm working on it. I have the, I have  
25 the 2014 version.

1 Q Okay.

2 A I don't seem to have easily found the 2013  
3 version.

4 (Pause.)

5 I'll have to apologize. There seems to have  
6 been a gap in my copying. I think we can provide that  
7 in just one moment for my reference.

8 (Pause.)

9 Okay. I apologize for the delay. I do have  
10 both of those in front of me.

11 **BY MR. REHWINKEL:**

12 Q No problem. There's a lot of paper here.

13 So what I'd like to ask you about is if you  
14 could just look at the values in the column three on  
15 each schedule, which is wholesale; correct?

16 A Yes.

17 Q And in 2013, you -- in the 2013 plan you had a  
18 forecast for that year and in 2014 you have an actual;  
19 right?

20 A Correct.

21 Q So is it fair to say that you projected in  
22 2013 937 megawatts of sales to your wholesale customers  
23 and your actual was 581; right?

24 A Yes.

25 Q And that was driven by something that happened



1 at Seminole; correct?

2           **A**     Well, more broadly that was driven by the  
3 difference between -- in other words, when we do the  
4 projections, what we show is what is the contracted  
5 capacity that we are expected to provide, expected to be  
6 able to provide on peak under the contracts that we have  
7 executed with various wholesale entities.

8                   What's shown in the actuals is the amount of  
9 energy or the amount of capacity that those entities  
10 called upon on the peak in that actual hour, in that  
11 actual year. So they don't directly line up. They're  
12 not directly comparable numbers.

13           **Q**     Okay. So based on that answer, my question to  
14 you is this. Do you ever sit down with one of your very  
15 largest customers and ask them what do you expect, or is  
16 it purely driven by the circumstances they face? What  
17 do they expect to take from you?

18           **A**     Well, I think that in the purposes of our  
19 seasonal short-term planning we do have conversations of  
20 that nature. In the purposes of our long-term planning,  
21 you know, unless those customers have come back to us  
22 and suggested that they are interested in renegotiating  
23 those contracts and reducing their capacity take, we  
24 continue to plan to fulfill the contracts we have  
25 executed.

1           **Q**     Okay.  Would you agree that you have contracts  
2 with Seminole that allow them to take up to a certain  
3 amount of intermediate or peaking?

4           **A**     That is how the contracts are structured, yes.

5           **Q**     Okay.

6           **MR. REHWINKEL:**  Mr. Chairman, I'd like to hand  
7 out an exhibit for cross-examination and ask that it be  
8 given a number.

9           **CHAIRMAN GRAHAM:**  We will give it number 136.  
10 Do you have a short description, a title for that?

11          **MR. REHWINKEL:**  Yeah.  This is an excerpt,  
12 Seminole 2014 Ten-Year Site Plan.

13          **CHAIRMAN GRAHAM:**  Okay.

14                   (Exhibit 136 marked for identification.)

15          **MR. REHWINKEL:**  And just while these are being  
16 passed out, Mr. Chairman, I have included the cover page  
17 and pages 4 and 5 of the Seminole Ten-Year Site Plan  
18 that is on file with the Public Service Commission.

19          **CHAIRMAN GRAHAM:**  Okay.  I think we're ready.

20 **BY MR. REHWINKEL:**

21          **Q**     Okay.  Mr. Borsch, do you have Exhibit, what's  
22 been marked as Exhibit 136 in front of you?

23          **A**     Yes.

24          **Q**     Despite the fact that they say --

25          **MR. REHWINKEL:**  Actually, I apologize, Mr.

1 Chairman. I have provided an excerpt from the 2013  
2 Seminole Ten-Year Site Plan. It's labeled 2014, but --

3 **CHAIRMAN GRAHAM:** Okay. The short title we  
4 put down was 2013.

5 **MR. REHWINKEL:** Oh, okay.

6 **BY MR. REHWINKEL:**

7 **Q** Okay. So I guess I would ask you, Mr. Borsch,  
8 are you familiar with the representations of the types  
9 of purchases that Seminole makes of Duke?

10 **A** Not the specifics of them. I, as I said  
11 before, while I do typically, you know, review at least  
12 at a high level the totals and the underlying makeup of  
13 those totals for the contracts going forward, I don't  
14 familiarize myself with the specifics of the contracts.

15 **Q** Okay. Does -- well, let's look at the first  
16 item here under PEF system intermediate. It says up to  
17 625 megawatts of firm system intermediate and/or  
18 combined cycle capacity in 2012, 450 megawatts in 2013,  
19 and 150 megawatts from January 2014 through  
20 December 2020.

21 **A** Yes.

22 **Q** Do you know whether that's still in effect  
23 for --

24 **A** As far as I know that is still in effect.

25 **Q** So would you project the full 625 megawatts?

1           **A**     No. We would project the amounts contracted  
2 in the specific individual years that they are  
3 contracted. I believe that, as laid out here, they have  
4 varying amounts in different years, and those numbers  
5 are supplied to me on an annual basis by our wholesale  
6 team. And the actual annual commitments fall into our  
7 Ten-Year Site Plan each year. And if there are updates  
8 from year to year based on new contracts or  
9 renegotiation of existing contracts, then the results of  
10 those updates are folded into the next year's Ten-Year  
11 Site Plan.

12           **Q**     Okay. So if I go down to the PEF system base,  
13 150 megawatts of firm system base from January 2012 to  
14 2013, that's in the past; 250 megawatts from  
15 January 2014 through May 2016; and 50 megawatts from  
16 June 2016 through December 2018.

17           **A**     Yes.

18           **Q**     Would your answer be the same, is that those  
19 would still be based on an annual amount of contracted  
20 for power?

21           **A**     Yes. As I said, the specific amounts for each  
22 year are provided to me and used in the forward  
23 planning.

24           **Q**     Okay. And the same would apply with respect  
25 to the seasonal peaking, the PEF system average, and the

1 PEF system combined cycle on that page and the next  
2 page; right?

3 **A** Yes.

4 **Q** And there is a -- the final item on this page,  
5 it says, PEF partial requirements.

6 **A** Uh-huh.

7 **Q** And we don't need to read this, unless you  
8 want to explain something about it. There was -- on the  
9 last two lines of that, of that bullet it says, Seminole  
10 did not purchase PR or partial requirements capacity in  
11 2012. This agreement terminates on December 31, 2013.  
12 Do you see that?

13 **A** Yes.

14 **Q** So is this the only contract that Seminole has  
15 let expire in recent years?

16 **A** I can't say that I know that specifically. As  
17 I had mentioned before, typically the wholesale group  
18 will provide to me a group, you know, I mean, you know,  
19 a set of totals. I mean, the level of granularity that  
20 I would typically see in these contracts would be to see  
21 a capacity amount and a projected energy, you know,  
22 rolled up as a total, you know, by customer, not  
23 necessarily by contract. So and, you know, even that,  
24 typically, you know, the most important number for my  
25 resource planning purposes is what is the total

1 aggregate for all our customers. So I cannot speak to  
2 the details of any specific contracts one way or the  
3 other.

4 **Q** Okay. Were you aware that Seminole lost Lee  
5 County Electric Co-op to FPL in 2013? In 2014 really.

6 **A** At a high level I understand that that was an  
7 issue, yes.

8 **Q** Okay. And did that affect the demand, the  
9 wholesale demand?

10 **A** I guess the only way that I can reflect that  
11 is to say they have, as far as I know, not come to us  
12 and changed any of the contracts that we have in place  
13 that are, you know, reflected in our planning.

14 **Q** Okay. So in your deposition you said that you  
15 have not had any material conversations with Seminole  
16 with respect to changing their contracts. Do you recall  
17 that?

18 **A** I did. And that was, I have to admit, based  
19 on, you know, a limited amount of conversation I have  
20 had with our wholesale group, you know, basically at the  
21 level of asking them are there any changes that I should  
22 expect that might affect the plan, and they said no.

23 **Q** Okay. Do you know whether there are  
24 conversations that have been had with Seminole with  
25 respect to the amount of power that they would purchase

1 under the contract?

2 **A** Beyond what I just said, I'm not aware.

3 **Q** Okay. Well, let's go to the, your 2014  
4 Ten-Year Site Plan, page 18 of your BMHB-2.

5 **A** Yes.

6 **Q** Okay. Given the answers that you just gave me  
7 about how you forecast, let me see if -- make sure I  
8 understand. You visit this, the forecast of sales to  
9 Seminole on an annual basis?

10 **A** Correct.

11 **Q** Okay.

12 **A** And all of our other wholesale customers, yes.

13 **Q** Okay. But the vast majority of your purchases  
14 in the wholesale arena or sales in the wholesale arena  
15 are to Seminole; is that right?

16 **A** They are a significant customer.

17 **Q** Do you know what percentage they make of your  
18 wholesale?

19 **A** I do not.

20 **Q** You don't even have kind of a within ten  
21 percentage points?

22 **A** No, I don't.

23 **Q** Okay. So let's look at from years 2015 to  
24 2016 in the wholesale column. There's a drop of, it  
25 looks like 248 megawatts of sales forecasted there. Do

1 you see that?

2 **A** That looks like 148 megawatts to me, but, yes.

3 **Q** I'm sorry. 148. Is that because of something  
4 to do with Seminole?

5 **A** Well, I don't know specifically. However, I  
6 think, you know, to the point that you were making a  
7 moment ago about Seminole's Ten-Year Site Plan, they,  
8 like all our other wholesale customers, have contracts  
9 of varying lengths and quantities in which they have  
10 different capacity takes for each year.

11 So without knowing the specific details, what  
12 I will say is that, as I mentioned before, these annual  
13 quantities are provided to us by our wholesale group,  
14 you know, as a roll-up of the actual specific contracted  
15 amounts from one year to the next. So it would be my  
16 assumption that the variation from year to year that's  
17 reflected in the projections in the Ten-Year Site Plan  
18 reflect the ups and downs of different contracts that we  
19 have over time.

20 And certainly, as you were reading the various  
21 contracts reflected in Seminole's Ten-Year Site Plan,  
22 you could see that some of those contracts were tapering  
23 down, others were going up. So, you know, clearly the  
24 total amongst all of those was going to vary by some  
25 amount from year to year.



1 Q Okay. If I could get you to look at the 2013,  
2 same schedule.

3 A Uh-huh.

4 Q For 2017 I see 894 megawatts.

5 A Sorry. I pulled the wrong page.

6 Q And, again, 587 for 2014 for the same year.  
7 And that's a difference of, what, 307 megawatts?

8 A Yes.

9 Q Okay. Do you know why the forecast for 2017  
10 sales to Seminole, to -- I guess this was largely,  
11 again, they have to be driven by Seminole; right?

12 A Well, I guess I will go as far as to say that  
13 there was certainly a change in our total projected  
14 wholesale sales.

15 Q And what was the basis for that?

16 A Specifically I don't know, but I can say in  
17 general that I presume that that reflects a change in  
18 the contracted amounts that our wholesale group was  
19 identifying.

20 Q Okay. Well, let's go to, and again --

21 **MR. MOYLE:** I'd move to strike the, that last  
22 answer. It was entirely speculative. He said he  
23 doesn't have information about it, doesn't know. It  
24 doesn't make sense for him to guess.

25 **MR. WALLS:** I mean, he's already answered the

1 question and there's no objection to the question, so --

2 **MR. MOYLE:** Motion to strike the answer.

3 **CHAIRMAN GRAHAM:** I'll allow the question and  
4 the answer.

5 **BY MR. REHWINKEL:**

6 **Q** On your 2014 Schedule 3.1, let's look at the  
7 year, the difference, the change from 2018 to 2019. It  
8 looks to me like a 250-megawatt increase in sales.

9 **A** Yes.

10 **Q** Do you, do you know the reason for that?

11 **A** Again, I would have to refer to --

12 **MR. MOYLE:** Objection. So I don't get hit  
13 with I didn't object on a timely basis, if he has an  
14 answer and he knows, fine. But if he's speculating,  
15 doesn't know, then I would object.

16 **CHAIRMAN GRAHAM:** Fair enough.

17 **THE WITNESS:** All right. How about if I  
18 answer it this way. It is my understanding -- I mean,  
19 those numbers are verified to me by our wholesale group  
20 as being the contracted amounts to our, the sum total of  
21 all our wholesale customers in those years. I don't  
22 know the contract specifics of what, you know, or I'm  
23 not able to tell you right now the contract specifics of  
24 what underlie any of those particular breakdowns of what  
25 customers or what contracts are involved.

1 **BY MR. REHWINKEL:**

2 Q Okay. But for 250 megawatts, that would have  
3 to be driven by Seminole; correct?

4 A Again, that would be a supposition.

5 Q Do you have any customer that takes  
6 250 megawatts of wholesale power from you other than  
7 Seminole?

8 A Not that I'm aware of. But, you know, as I  
9 have not specifically looked at the schedule recently  
10 and committed it to memory, I would have to say that I  
11 can't answer that for sure.

12 Q Well, you can't answer anything about your  
13 forecast for sure; correct?

14 A Well, what I can say for sure is that the  
15 wholesale amounts reflected in our 2014 Ten-Year Site  
16 Plan reflect contracted amounts of capacity with  
17 existing executed contracts, and that's how they're  
18 calculated.

19 **MR. REHWINKEL:** Okay. Mr. Chairman, I'd like  
20 to then, I guess, pass out an exhibit.

21 **CHAIRMAN GRAHAM:** All right. We will give  
22 this one 137.

23 **MR. REHWINKEL:** Okay. And the short title is  
24 Seminole Electric Cooperative Contract Excerpts.

25 **CHAIRMAN GRAHAM:** Okay.

1 (Exhibit 137 marked for identification.)

2 **MR. REHWINKEL:** And if there are any problems  
3 with this, I do have 24 -- I had a problem with  
4 copying -- 24 copies of the entire set of contracts, if  
5 anybody wants to see them.

6 Mr. Chairman, I have Bates numbered these at  
7 the very bottom. These are my numbers, 1 through 20.

8 **CHAIRMAN GRAHAM:** Okay.

9 **BY MR. REHWINKEL:**

10 **Q** Mr. Borsch, do you have --

11 **MR. REHWINKEL:** What are we calling this, 138?  
12 137.

13 **CHAIRMAN GRAHAM:** 137, correct.

14 **BY MR. REHWINKEL:**

15 **Q** Do you have Exhibit 137 in front of you?

16 **A** Yes, I do.

17 **Q** Okay. All I have done here for excerpt  
18 purposes is taken the cover page, the first page that  
19 has the date, and then the pages that address the  
20 capacity that is being contracted for. So, for example,  
21 on the, on page 1 there's a two thousand and --  
22 January 21, 2009, contract. And then if you look on  
23 page 4, there's a section that says system-based  
24 capacity, and it has various megawatt amounts. Do you  
25 see that, like on section 4.1?

1           **A**    I'm sorry.  You're looking at 4.1?

2           **Q**    Yes, sir.

3           **A**    Yes.

4           **Q**    Okay.  Just to use this for an example, would  
5 these amounts be what you would forecast for, let's say,  
6 for 2018?  There's -- it says, for the period June 1,  
7 2016, through December 31, 2018, company will sell to  
8 customer 50 megawatts of system-based capacity and  
9 corresponding energy as provided herein.  Would you, for  
10 purposes of forecasting, would you forecast that entire  
11 50 megawatts for the year 2018?

12          **A**    Yes, we would.

13          **Q**    Okay.  So this would not be one that you would  
14 have to understand how much they would buy.  You would  
15 assume they were going to buy all of this; is that  
16 right?

17          **A**    I would assume that we were obligated to  
18 provide that capacity and be called upon by our  
19 customer, expected to have that available for them.

20          **Q**    Okay.  So let's look at, let's go to page 9 of  
21 the exhibit.  And this is a 2006 contract, as you can  
22 see on page 6, and looking in term section 4.1.  It  
23 says, company will sell to customer 150 megawatts of  
24 system intermediate capacity and corresponding energy.

25          **A**    Yes.

1           **Q**     So for the year 2018, you would assume  
2 150 megawatts in your forecasted sales to Seminole?

3           **A**     Yes.

4           **Q**     Okay. How about, let's go to page 10, and  
5 we're looking at the term 5.1. This is under the  
6 section seasonal peaking, system peaking capacity.

7           **A**     Uh-huh. Uh-huh.

8           **Q**     And it says in the middle there, from period  
9 December 1, 2014, through December 31, 2020, during the  
10 four calendar months of January, February, March, and  
11 December of each year, company will sell to customers  
12 600 megawatts of seasonal system peaking capacity. Do  
13 you see that?

14          **A**     Yes, I do.

15          **Q**     How would that 600 megawatts be forecasted?

16          **A**     Well, that 600 megawatts would be reflected on  
17 Schedule 3.2 as part of our winter capacity.

18          **Q**     Okay. So these would not be in your 3.1  
19 numbers?

20          **A**     They would not.

21          **Q**     Okay. All right. So if I could get you to  
22 turn to page 14. And this is titled -- the title of  
23 this document is First Amendment to Agreement for Sale  
24 and Purchase of System Combined Cycle Capacity and  
25 Energy Between Florida Power Corporation, doing business

1 as Progress Energy Florida, and Seminole Electric  
2 Cooperative, Inc. Do you see that?

3 **A** Yes.

4 **Q** And this appears to be an amendment that was  
5 dated December 18, 2009. Do you see that?

6 **A** No. It -- oh, yeah, I was looking -- that  
7 date is on here and also the date of the 29th of  
8 September, '11.

9 **Q** Oh, it's an amendment to the 2009 contract, so  
10 it's September 29, 2011.

11 **A** Yes.

12 **Q** Okay. I probably should have done this in  
13 color, because what you can't see is this document under  
14 2.1 has, it's in legislative format.

15 **A** Uh-huh.

16 **Q** And if you'll turn to page 20, keep your  
17 finger on page 14, it appears to be executed and signed  
18 by both Seminole and Duke. Do you see that?

19 **A** Yes.

20 **Q** Okay. Are you familiar with this amended,  
21 amendment to the contract?

22 **A** Not specifically.

23 **Q** All right. If I'm looking here in 2.1, let's  
24 see if we can read this. For the term, company agrees  
25 to sell to customer and customer agrees to purchase from

1 company system combined cycle capacity in the amount of  
2 200 megawatts for the period from June 1, 2016, through  
3 December 31, 2018, and 250 megawatts from the period  
4 from January 1, 2019, through May 31, 2019. Is that --  
5 am I reading that right?

6 **A** I believe so.

7 **Q** Okay. And then it says, and in parentheses,  
8 collectively, the period from June 1, 2016, through  
9 May 31, 2019, shall be referred to as period one. And  
10 then it continues, in the amount of 500 megawatts during  
11 the period from June 1, 2019, through December 31, 2022.  
12 Do you see that?

13 **A** Yes.

14 **Q** Okay. So given that, let's go back to your  
15 3.1 schedule in, on page 18 of your BMHB-2.

16 **A** Okay.

17 **Q** And if I look in 2019 through 2022, I don't  
18 see an increase in sales of 500 megawatts. What am I  
19 missing?

20 **A** Well, two things, I think. The first thing is  
21 that there's not an increase in sales even in this  
22 paragraph of 500 megawatts because it starts out at 250  
23 the year before and then goes to 500.

24 But second of all, I think what is missing,  
25 and it was demonstrated by the reference that you made



1 to Seminole's Ten-Year Site Plan, is that there are a  
2 number of contracts in play with Seminole and with other  
3 wholesale contracts, which, you know, are changing from  
4 year to year. So to focus on a single contract misses  
5 the whole picture.

6 So while this contract may be increasing by  
7 250 megawatts from one year to the next, other contracts  
8 may be rolling off so that the total differential intake  
9 is going to be something else.

10 Q The excerpts of the contracts that I have --  
11 the contracts that are represented by the excerpts in  
12 Exhibit 137, are you saying those are not the complete  
13 set of contracts that you have with Seminole?

14 A I certainly don't know that one way or the  
15 other.

16 Q So it would be fair to say that the amounts  
17 that are shown here that are not seasonal peaking that  
18 are shown here in these excerpts that are firm capacity  
19 that are contracted, you have projected in out years  
20 from 2015 forward the contracted firm amounts; is that  
21 right?

22 A Yes. For all of the, for each of the  
23 contracts by season, summer or winter, or perhaps summer  
24 and winter, we have projected forward based on our  
25 executed contracts the amounts of capacity to which we

1 are committed for our wholesale customers.

2 Q And just to be clear, it's my understanding  
3 that these contracts treat wholesale customers the same  
4 as retail customers in the sense that they're considered  
5 native load; is that right?

6 A That is my understanding, yes.

7 MR. REHWINKEL: Okay. If I could have just a  
8 second, Mr. Chairman.

9 CHAIRMAN GRAHAM: Sure.

10 BY MR. REHWINKEL:

11 Q Mr. Borsch, is it your testimony that you are  
12 not aware of any change in the projected sales of power  
13 to Seminole Electric Cooperative for the years 2015  
14 through 2020?

15 A It's my testimony that as of the time these  
16 values were given to me that they represent the  
17 contracted amounts that we have. I am not aware of  
18 updates to those contracts which would have occurred  
19 since the provision of this load forecast, and so I'm  
20 not aware of any other particular changes, no.

21 Q Are you aware of any non-contract bases that  
22 Seminole would have to seek to reduce what they  
23 purchased from Duke for the years 2015 through 2020?

24 A I'm not even sure I know what that means. No.

25 Q Okay. Before you filed your need

1 determination, did you, did Duke sit down with Seminole  
2 and have any discussions with them about their needs for  
3 the period 2018 and 2019?

4 **A** Not that I'm aware of. I certainly did not  
5 participate in any such conversations. My conversations  
6 regarding that, the wholesale load forecasts were  
7 entirely internal with our wholesale contracting group.

8 **Q** Okay. All right. Let's -- I want to move  
9 away from the Seminole issue, and I want to ask you to  
10 tell me what you understand to be the essential terms of  
11 the August 26th, 2014, Calpine deal with respect to the  
12 impact of that deal on the need for the Citrus County  
13 combined cycle unit.

14 **A** Okay.

15 **Q** I was going to ask you if you could tell me  
16 what you know about the contract -- I mean, the deal.  
17 And when I say the Calpine deal, I'm -- do you know what  
18 I'm referring to? What was announced yesterday at the  
19 hearing.

20 **A** Yes.

21 **Q** Okay. So --

22 **A** I was waiting for a specific question. Sorry.

23 **Q** Oh, well, let me repeat my question. I want  
24 you to tell me what you understand about the Calpine  
25 deal with respect to how it impacts the Citrus County

1 need determination.

2           **A**     The structure of the Calpine deal in essence  
3 is a PPA beginning no later than January 1st, 2015,  
4 extending for the years 2015 and '16, followed by an  
5 acquisition of the Osprey facility in whole at the end  
6 of 2016. It does not, in my opinion, have a material or  
7 any -- I shouldn't say material -- it does not have any  
8 impact on the need for the Citrus facility because the  
9 available number of megawatts on peak from the Calpine  
10 facility is limited for a number of years based on the  
11 availability of firm transmission.

12           **MR. MOYLE:** You know, Mr. Chairman, he's  
13 testifying and it's all hearsay. I mean, if there's a  
14 document, if he wants to put in a document. But, I  
15 mean, it's all kind of --

16           **CHAIRMAN GRAHAM:** I don't know if it's  
17 hearsay. He asked him what he knows about the deal, and  
18 I'm going to give as much latitude as possible.

19           **MR. MOYLE:** Okay. So we would just maintain  
20 an objection that it's, that it's hearsay.

21           **CHAIRMAN GRAHAM:** Okay.

22           **MR. MOYLE:** Because it's either based on  
23 something he read or what somebody told him who's, you  
24 know, not here.

25           **CHAIRMAN GRAHAM:** Okay.

1 **BY MR. REHWINKEL:**

2 **Q** I think you were in the middle of explaining  
3 about the limitations on the available capacity from the  
4 plant.

5 **A** Yes. Under peak load conditions, Calpine is  
6 currently limited to deliver to DEF 249 megawatts. That  
7 is their firm point-to-point reservation across their  
8 transmission provider to DEF that is available to us on  
9 peak. So until we are able to construct additional  
10 transmission to have access to the full capacity of the  
11 plant, the peak value that would be reflected in our  
12 peak capacity for the purposes of determining reserve  
13 margin will be the 249 megawatts.

14 **Q** What is the earliest purchase date of the  
15 Osprey plant?

16 **A** I don't believe, as I understand the terms at  
17 the moment -- obviously, the final deal has not, is yet  
18 to be determined -- but the terms at the moment  
19 contemplate an end of 2016 closing. I don't believe  
20 there's an earlier or later.

21 **Q** Okay. And what is your understanding of the  
22 earliest under the Calpine deal, as you know it, that  
23 Duke would -- that transmission necessary to obtain the  
24 full capacity of the plant could begin?

25 **A** We would anticipate beginning that

1 transmission work in earnest following the closing of  
2 the full acquisition of the plant.

3 Q Is there a target for closing of the Calpine  
4 deal?

5 A Well, as I just mentioned, we expect the  
6 acquisition to occur at the end of 2016.

7 Q So you wouldn't start transmission work before  
8 the end of 2016; is that what you're saying?

9 A No. The transmission work, as I believe is  
10 identified in the testimony of Mr. Scott, is a  
11 significant investment. And, you know, while we will  
12 have a contract in place with Calpine, you know, there  
13 are, first of all, regulatory hurdles to be overcome  
14 and, second of all, various -- one will expect -- I  
15 mean, you know, obviously we haven't negotiated all the  
16 details of this, but we expect that there will be terms  
17 and conditions for both parties to potentially exit the  
18 deal if certain performance measures are not met. So we  
19 would not undertake a major investment of the type  
20 contemplated by that transmission until the deal had  
21 actually been consummated.

22 Q And I apologize for this, but I'm a little bit  
23 confused about when you say the deal. Because I'm  
24 looking at there's a deal that needs to be inked, if you  
25 will, with respect to what was discussed yesterday to

1 formalize that. And then there's another deal, which is  
2 the purchase of the plant. So I'm talking about the big  
3 deal that was talked about yesterday.

4 **A** Well, let me be more specific --

5 **MR. MOYLE:** Mr. Chairman, just so the record  
6 is clear, FIPUG would have a continuing objection to all  
7 this line of questioning about, you know, this  
8 quote/unquote deal that he's testifying about based on  
9 hearsay and is it written, is it not written. I mean,  
10 it's -- just so the record is clear, we have a  
11 continuing objection. Thank you.

12 **CHAIRMAN GRAHAM:** Okay.

13 **THE WITNESS:** Let me respond to your question  
14 by being more specific. We anticipate that the terms  
15 and conditions of the deal in the big sense, including  
16 both the PPA and acquisition as part of a whole, will be  
17 negotiated and hopefully successfully agreed to sometime  
18 in the remainder of this year.

19 The intent of the terms as provided to us by  
20 Calpine is that the actual acquisition of the plant  
21 would occur at the end of 2016. And I think the point  
22 of what I was saying a moment ago is that DEF would not  
23 undertake a major investment in support of that plant  
24 until we actually own it.

25

1 **BY MR. REHWINKEL:**

2 **Q** Okay. So, and the reason I'm asking is I'm  
3 trying to understand the transmission timeline. It  
4 would not only be your, you, Duke's efforts to construct  
5 a transmission line, but Tampa Electric Company would  
6 also have to construct; is that correct?

7 **A** I believe that, as reflected in Mr. Scott's  
8 testimony, DEF's intention is that we will wholly  
9 construct and own the transmission system that will  
10 connect the Osprey facility to our system.

11 **Q** Okay. So given the time frame that you have  
12 just testified to and the lead time that it would take  
13 to initiate and complete a transmission line, when is it  
14 your understanding that the full capacity of the Osprey  
15 plant would be deliverable to Duke?

16 **A** For planning purposes, we would -- we are  
17 using a date at the beginning of 2020 for the full  
18 capacity of the plant to be available to us.

19 Now I believe Mr. Scott testified yesterday  
20 that that was between, between a three- and four-year  
21 project. So, you know, we are, as I say, for planning  
22 purposes right now assuming that we could complete that  
23 project in three years. And, you know, so those would  
24 be '17, '18, and '19, with the full capacity being  
25 available to us at the beginning of 2020.



1           **Q**     Okay.  So that's your planning assumption.  
2           What is the earliest?

3           **A**     I think that three years is very aggressive  
4           for a schedule, and that probably is the earliest.

5           **Q**     So it's 2019 or 2020?

6           **A**     2020, beginning of 2020.

7           **Q**     So has a decision been made that Duke will not  
8           begin any substantial investment in transmission before  
9           1/1/2017?

10          **A**     I would put it this way.  I don't -- I mean,  
11          I'm not aware that a firm decision of any sort has been  
12          made.  However, I do not believe that it would be  
13          prudent for us to make that investment until we have  
14          actually consummated the acquisition and are the owners  
15          of the facility.

16          **Q**     Okay.  Can I get you to turn to your rebuttal  
17          in the 110 docket, page 35.

18          **A**     Yes.

19          **Q**     Is this -- and I'm looking to the testimony  
20          there from lines 13 through the bottom.  Is this the  
21          basis for your testimony that an acquisition of the  
22          Osprey plant would not have any effect on the Citrus  
23          County combined cycle plant?

24          **A**     This is one of the elements of that testimony,  
25          yes.

1 Q What are the other elements?

2 A Well, I think you've asked me a number of  
3 detailed questions which are supported in some of the  
4 confidential exhibits to the rebuttal testimony,  
5 especially my exhibit --

6 MR. MOYLE: So, Mr. Chairman, this is probably  
7 where we get into an area where he's going to start  
8 saying, here, this exhibit, this exhibit, and y'all are  
9 looking at it. Then I don't think you can pull it back  
10 out of the record at a later point in time.

11 CHAIRMAN GRAHAM: Mary Anne?

12 MS. HELTON: I'm sorry. I didn't understand  
13 what Mr. Moyle's objection was.

14 CHAIRMAN GRAHAM: I think if he starts talking  
15 about one of the exhibits that we've agreed that we  
16 weren't going to include, once the cross-examine gets in  
17 there, how do you then not put it into the record?

18 MR. WALLS: Well, can I respond to that?

19 CHAIRMAN GRAHAM: Sure.

20 MR. WALLS: This is not one of those exhibits.  
21 We do not agree --

22 CHAIRMAN GRAHAM: But he was just saying that  
23 we're getting close to that area.

24 MR. WALLS: But this is not one of those  
25 exhibits.

1           **CHAIRMAN GRAHAM:** I understand that. But I  
2 was just asking her what should we do when we get to  
3 that, when he says, all right, this is one of those  
4 exhibits.

5           **MR. MOYLE:** And I guess I technically don't  
6 have an objection, but it was a very open-ended question  
7 saying, what are the exhibits that you think support,  
8 you know, this, and he's kind of going in and  
9 identifying the exhibits. If he starts saying, well,  
10 Commissioners, turn to this exhibit, this is --

11           **CHAIRMAN GRAHAM:** No, no. I understand the  
12 objection, and I agree with you. I don't know what we  
13 do when we get to that. Do we just stop the, do we stop  
14 the cross-examination because we're not taking that  
15 exhibit up, or do we re, do we re-question that exhibit?

16           **MS. HELTON:** I think until we get that point,  
17 it's kind of hard to say in the abstract what to do. I  
18 would suggest that if we do get to that point, then  
19 Mr. Moyle or whomever might have a problem can speak up  
20 and we will deal with it then.

21           **CHAIRMAN GRAHAM:** Okay. Fair enough.

22           **MR. WALLS:** And if I might respond, the  
23 witness does know which exhibits have been pulled, so he  
24 knows the ones that are not to be referenced.

25           **CHAIRMAN GRAHAM:** Okay. Sorry.

1           **MR. REHWINKEL:** And just, Mr. Chairman, I  
2 normally try to avoid doing discovery at the hearing,  
3 but we're in a little bit of a unique situation. So I  
4 am generally wanting to know from him what's in his  
5 testimony that impacts this question, so.

6           **CHAIRMAN GRAHAM:** I'm trying to give as much  
7 flexibility as possible.

8           **MR. REHWINKEL:** Thank you.

9           **CHAIRMAN GRAHAM:** Because it wasn't like we  
10 all planned this, you know, a month ago.

11          **MR. REHWINKEL:** Right.

12 **BY MR. REHWINKEL:**

13           **Q**     So, Mr. Borsch, while you're looking, just --  
14 my question to you is to be mindful of what Mr. Moyle  
15 and Ms. Rush -- Ms. Rule discussed about what exhibits  
16 are not in the -- have been withdrawn.

17           **A**     Yes. That's fair. I'm looking for a specific  
18 page here. Broadly I will say that in my exhibit, my  
19 rebuttal, confidential rebuttal Exhibit Number 13, which  
20 I believe has not been withdrawn, there are a number of  
21 communications between DEF and Calpine which  
22 specifically refer to different variations on offers  
23 that were made to us by Calpine throughout the  
24 negotiating process and our responses to those offers.

25           And what I was going to do was attempt to

1 find, there is one of these -- I thought it was this  
2 one, but I don't seem to see what I'm looking for --  
3 which refers specifically to the issue of the -- oh,  
4 here it is. Yes. On page 36 of 51 of my rebuttal  
5 Exhibit Number 13, in the middle of that page you'll see  
6 a heading that says Transmission. And in that  
7 paragraph, Calpine describes to us their current  
8 point-to-point reservations and their intention not to  
9 request additional transmission under the structure of  
10 that deal, which holds under the structure of the deal  
11 that is currently proposed.

12 Q When you say no additional transmission will  
13 be, that -- you mean pending construction of the  
14 facilities that are needed to deliver the entire plant?

15 A Yes. The intention, both in this offer that  
16 was made by Calpine and in our subsequent agreed to  
17 terms, is that Calpine will not be requesting additional  
18 transmission rights from their current transmission  
19 provider. You know, subject to the agreement of the  
20 deal, Duke and Calpine will work together to initiate an  
21 interconnection request process to allow the connection  
22 of the Osprey plant to the DEF system. And I think the  
23 details of that are outlined in Mr. Scott's testimony  
24 and specifically in his confidential Exhibit ES-3.

25 Q Okay. Is there anything else?

1           **A**     I am sure there are other references, but  
2 those were the ones that came to mind at the moment.

3           **Q**     Okay. Now there was -- I guess the question  
4 was raised by the Intervenors, as you address in your  
5 rebuttal testimony and you did in your summary, that the  
6 availability of a unit like Osprey could impact the  
7 in-service date of Citrus. Do you recall that?

8           **A**     I recall those questions being raised.

9           **Q**     Yeah. And you responded to that by saying  
10 that you ran an analysis that showed the revenue  
11 requirement impact on customers if you did that. Do  
12 you -- is that correct?

13          **A**     I'm not sure that I understand specifically  
14 what you're referring to.

15          **Q**     Okay. If you slipped Citrus for a year?

16          **A**     Ah, yes.

17          **Q**     Okay. That's what BMHB-16 on page 35 shows;  
18 is that right?

19          **A**     I'm sorry. That --

20          **Q**     16, exhibit 16 on your testimony, page 35, not  
21 13.

22          **A**     Right. Rebuttal. I only see four pages to my  
23 Exhibit 16.

24          **Q**     Well, I think you're in the 111 docket.

25          **A**     Oh, I am in the 111 docket.

1 Q Yeah.

2 A So you're referring to the 110 docket.

3 Q Yeah.

4 A Oh, yeah. Okay. I think I'm aware of the  
5 page you're referring to, but let me just find it real  
6 quickly.

7 I don't remember having 16 exhibits to my  
8 110 testimony but I do. Sorry. As I have it marked, my  
9 16 has only six pages. But I did refer in my testimony  
10 to an increase in the cost to the customers related to  
11 the extension of Crystal River Units 1 and 2 of  
12 \$90 million.

13 Q And that would be in conjunction with  
14 deferring the in-service date of Citrus by a year;  
15 correct?

16 A Correct.

17 Q Okay. So is that part of your testimony, that  
18 it, that it wouldn't make sense to defer Citrus even if  
19 Osprey or a Calpine acquisition -- or NRG acquisition  
20 gave you the flexibility; is that what you're saying  
21 here?

22 A Yes. I mean, we looked at this as if we  
23 would -- I mean, I think the question was asked to us by  
24 OPC's expert in particular to examine what would happen  
25 if we extended Crystal River Units 1 and 2 by one year,

1 moved the in-service date of Citrus back by one year,  
2 and supplemented however we needed to with purchased  
3 power in the interim, and that analysis yielded the  
4 result you're referring to.

5 **Q** Okay. Now Osprey, if Osprey was put into your  
6 generation mix, it would change the economics of the  
7 analysis that you ran in BMHB-16 on your 110 testimony;  
8 right?

9 **A** It would change it slightly but not  
10 significantly because, you know, as I mentioned a moment  
11 ago, what we're talking about here is having the  
12 249 megawatts capacity of Osprey available on peak.  
13 This analysis was based on having 320 megawatts of the  
14 Suwannee peakers available at that same peak season. So  
15 when you slide Citrus back, the actual impact would  
16 likely be to slightly increase the amount of purchased  
17 power that would be required in the 2018 season. So I  
18 would say that it might actually make the results less  
19 cost-effective from the shift back.

20 **Q** Well, if there was a scenario that allowed you  
21 to get the entire -- what is the entire capacity of  
22 Osprey?

23 **A** The Osprey facility has a nominal capacity,  
24 including its duct firing, of 599 megawatts. The actual  
25 capacity varies slightly by season.



1           **Q**     Okay.  If you were able to get the entire  
2 599 megawatts of Osprey delivered to you before the  
3 middle of 2018, under that scenario, would the economics  
4 of BMHB-16 be significantly different?

5           **A**     I can't say that for certain.  However, I  
6 would say that it is likely that they would not be  
7 significantly different.  And the reason that I say that  
8 is because the bulk of the savings shown in this exhibit  
9 come from fuel efficiencies and production cost  
10 efficiencies associated with having Citrus in service.

11          **Q**     Okay.

12           **MR. REHWINKEL:**  Mr. Chairman, I'd like to ask  
13 for an exhibit to be passed out.

14           **CHAIRMAN GRAHAM:**  Sure.  I think we're up to  
15 138.  Do you have a title for this, Mr. Rehwinkel?

16           **MR. REHWINKEL:**  It is Citrus -- Osprey/Citrus  
17 Delay Scenario.

18                   (Exhibit 138 marked for identification.)

19           I think I actually put Citrus Delay with  
20 Osprey Scenario, but I think what we read is good.

21           **CHAIRMAN GRAHAM:**  Okay.

22          **BY MR. REHWINKEL:**

23           **Q**     And, Mr. Borsch, when you and your counsel  
24 have gotten this, the first page of this is, I would  
25 represent to you but I ask you if you could confirm

1 this, is essentially your load and resource balance as  
2 filed with one exception, and that is on line 14 it has  
3 Hines with all four units operating. I think you had  
4 assumed three, and you found that you could put all four  
5 in. So I've only changed that one assumption.

6 **MR. MOYLE:** Can I just make sure I'm clear,  
7 Mr. Chairman. I'm not sure what this document is, and,  
8 I mean, if the witness can identify it, that's great.  
9 But Mr. Rehwinkel now saying he's changed something on  
10 it, I'm just not clear what this is.

11 **MR. REHWINKEL:** Well, I'm waiting for an  
12 answer from the witness.

13 **CHAIRMAN GRAHAM:** I guess the question is is  
14 this something that you generated or --

15 **MR. REHWINKEL:** Yes.

16 **MR. MOYLE:** What is this document?

17 **CHAIRMAN GRAHAM:** This is something you  
18 generated?

19 **MR. REHWINKEL:** Yes, sir.

20 **CHAIRMAN GRAHAM:** Okay.

21 **MR. REHWINKEL:** But I think it's an accurate  
22 representation of the reserve margin calculation that  
23 they filed.

24 **THE WITNESS:** I guess I would say without time  
25 to cross-check this against our data, I can't say for

1 certain that all these numbers match. However, you  
2 know, at a high level, you know, nothing jumps out at me  
3 that I would say that's wrong or this needs to be added.

4 **BY MR. REHWINKEL:**

5 **Q** These reserve margins down here look pretty  
6 close to what you -- the only thing that's different is  
7 beginning in 2017 you have all four Hines chillers in  
8 service.

9 **A** If you'll give me a moment.

10 **Q** Thank you.

11 **MR. REHWINKEL:** I'm near the end, Mr.  
12 Chairman. This is just kind of a wrap-up.

13 **CHAIRMAN GRAHAM:** Sure.

14 **MR. MOYLE:** Just so I'm clear, Mr. Rehwinkel,  
15 the field that has been altered, is that on 14?

16 **MR. REHWINKEL:** Yes.

17 **MR. MOYLE:** On line 14?

18 **MR. REHWINKEL:** Yes.

19 **MR. MOYLE:** So it's your representation  
20 everything else is straight from Duke's stuff except  
21 line 14?

22 **MR. REHWINKEL:** Yes.

23 **MR. MOYLE:** Okay.

24 **MR. WALLS:** And just so I'm clear, right now  
25 we're just on the first page of this exhibit; right?

1           **MR. REHWINKEL:** That's correct.

2           **CHAIRMAN GRAHAM:** That's correct.

3           **MR. REHWINKEL:** This is more of a predicate  
4 page.

5           **THE WITNESS:** Again, subject to a more  
6 extensive check, I don't see any differences other than  
7 the one that you have pointed out already.

8 **BY MR. REHWINKEL:**

9           **Q**     Okay. And the one that I have pointed out is  
10 now your planning assumption; right?

11          **A**     Yes, it is.

12          **Q**     Okay. So let's go to the second page, and  
13 what I've done here is I have Osprey at 515, which is  
14 without the duct firing capability; correct?

15          **A**     Uh-huh.

16          **Q**     And I have that in 2016.

17          **MR. WALLS:** And at this point I would like to  
18 object to the second page of this document as  
19 inconsistent with the witness's previous testimony  
20 moments ago.

21          **MR. REHWINKEL:** Yeah.

22          **CHAIRMAN GRAHAM:** Okay.

23          **MR. REHWINKEL:** If I could be heard on that,  
24 you know, I'd like to finish my questions, for one  
25 thing. And the second thing is the witness has

1 testified about transmission, and I'm -- this is a  
2 sensitivity analysis and it doesn't necessarily mean  
3 that this is what's going to happen. I want to ask  
4 questions to understand sensitivities.

5 So I think, given the on-the-fly nature of  
6 what we're doing here today, I think I should be given  
7 some latitude to explore this. The witness can  
8 certainly explain why it does and does not meet reality,  
9 and I certainly expect that he will.

10 **CHAIRMAN GRAHAM:** I don't know if I'd call it  
11 on the fly, but I appreciate having this illustration in  
12 front of us so we can follow your line of questioning.

13 **MR. REHWINKEL:** So may I continue?

14 **CHAIRMAN GRAHAM:** Sure. Yes.

15 **BY MR. REHWINKEL:**

16 **Q** Okay. And what's highlighted here on lines  
17 15, line 17, and line 18, and line 20 are changes from  
18 the first page of this. So I would have Osprey in in  
19 2016 at the full capability.

20 **A** Uh-huh.

21 **Q** And Crystal Rivers 1 and 2 would be slipped --  
22 Unit 1 would be retired in 2020 and Unit 2 would be  
23 retired in 2019.

24 **A** Uh-huh.

25 **Q** And Osprey -- and Citrus would slip a year.

1           **A**     Uh-huh.

2           **Q**     Okay.  Now without getting you to agree that  
3 this is something that should happen, I'm asking if you  
4 would agree that these, this is what's represented here  
5 relative to the, to the prior page.

6           **A**     It looks to me as though the changes that  
7 you've just stated are reflected by the numbers that are  
8 on these pages.

9           **Q**     Okay.  Now let's put aside your testimony  
10 about the transmission.  Let's assume transmission, for  
11 sake of a, for purposes of a hypothetical here, let's  
12 assume transmission was soluble before 2018.  In other  
13 words, you could get all 515 megawatts of Osprey before  
14 2018.

15          **A**     I'll accept that as a hypothetical, with  
16 recognition that there's considerable testimony in this  
17 docket that that's not going to be the case.

18          **Q**     Okay.  If you put that aside, would you agree  
19 that the, that you can maintain a reserve margin above  
20 20 percent under a scenario like this?

21          **A**     Yes.  I think that's really basically  
22 consistent with the analysis that we showed you in  
23 Exhibit 16 that we were looking at a moment ago.  I  
24 mean, essentially this kind of put and take is similar  
25 to the exercise that we performed to do that analysis.

1           **Q**     Okay.  Now if Osprey was in at all 515  
2 megawatts in combined cycle and was cycling --

3           **A**     Uh-huh.

4           **Q**     -- the heat rate of Osprey, do you know what  
5 that is?

6           **A**     It's a little bit above 7,000.

7           **Q**     Okay.  What about the heat rate of the  
8 Suwannee peakers in general terms?  I'm not asking you  
9 to disclose confidential information.

10          **A**     I think that number is actually in the  
11 Ten-Year Site Plan.  It's ten-five or something like  
12 that.

13          **Q**     Okay.  So the differential in the heat rate  
14 between the assumed 316 and the 7,200 for Osprey would  
15 give you some economic benefits, would you agree with  
16 that, under this hypothetical?

17          **A**     Well, I guess what I would say to that is  
18 presumably that is true.  However, you know, it's  
19 always, you always need to take caution in making  
20 assumptions about how units of very different  
21 characteristics will affect the overall production  
22 costs.  I mean, Osprey is a combined cycle unit which we  
23 would presumably, especially in this scenario where we  
24 had access to the full capacity of the plant, operate at  
25 a significant capacity factor.  The other units are

1 peakers. That's going to shift the whole stack.

2 Q Okay. So, in other words, to get the full  
3 economic impact of this scenario --

4 A Uh-huh.

5 Q -- you would have to run a production cost  
6 model for this scenario; right?

7 A We would, although I will say that, you know,  
8 I think that the cost models that we have run are, you  
9 know, given the relatively substantial numbers involved  
10 over small periods of time, are probably representative  
11 of the results that we would expect.

12 Q Okay. But you still haven't seen the results  
13 of this scenario, you haven't run that; right?

14 A Well, inasmuch as this is a hypothetical  
15 situation that postulates access to transmission which  
16 we do not believe is available, that would be correct.

17 Q Okay. Now would you also agree that under  
18 this scenario, the PPA that you've mentioned in the,  
19 that you had factored into the two -- the one-year delay  
20 that's the basis for BMHB-16, you would not need that;  
21 right?

22 A Again, you know, under this hypothetical  
23 scenario, that's right. You've demonstrated, I think,  
24 that the reserve margins are met.

25 Q Okay. And that would also be an economic



1 benefit to the customers under this hypothetical  
2 relative to the results of BMHB-16. Would you agree  
3 with that, that meaning the lack of a need to buy PPA?

4 **A** At this point you're really comparing apples  
5 to oranges, for the simple fact that the analysis  
6 prepared in BMHB-16 did not contemplate the economic  
7 terms provided to us by Calpine and the Osprey facility.  
8 So, I mean, if you want to say that, you know, that  
9 access to the full capacity of Osprey at an earlier date  
10 compared to the Suwannee peakers, absent other factors  
11 and specifically a transmission, you know, might provide  
12 some reduction in the cost differential for shifting.

13 I think that remains to be seen because, you  
14 know, in the period where we're talking about here, you  
15 know, there are a variety of things. I mean, either, in  
16 order to get this, in your hypothetical, either we would  
17 have had to invest \$150 million in transmission to get  
18 there, or we would be paying a wheeling charge for the  
19 Osprey capacity. So whichever way you do that it's  
20 going to change the economics.

21 **Q** Fair enough. Thank you. My last line of  
22 questions is, if I could get you to go to your 14 --  
23 your 111 testimony and BMHB-19. And this is the  
24 infamous Exhibit 134. Are you there?

25 **A** I'm sorry. 19, that would be the summary of

1 similar capital projects?

2 Q Yes.

3 A Okay.

4 Q And I understand that this specific schedule  
5 is largely moot at this time in this docket today  
6 because of the Calpine deal; right?

7 A Yeah. Yes.

8 Q I mean, this is talking about --

9 A Well, presuming that we, you know, come back  
10 as anticipated with a completed deal with Calpine, then  
11 we would not be building the Suwannee peakers, and the  
12 purpose of this particular exhibit was to address  
13 questions that had been raised about our ability to  
14 deliver similar projects on budget.

15 Q Correct. And now you did not, the reason I'm  
16 asking about this is that, although this is not here,  
17 you don't have a similar exhibit dealing with the  
18 construction of the Hines chillers; right?

19 A No, we do not.

20 Q Okay. Will that be the first of a kind  
21 project for Duke?

22 A No.

23 Q What about in Florida?

24 A In Florida.

25 Q Okay. Is -- why did you provide the similar

1 exhibit for the Hines chillers? Is that because no one  
2 was really challenging them?

3 **A** I think that's right.

4 **Q** Okay. Do you recall during your deposition we  
5 talked about the different standard between bringing  
6 Citrus County unit in and having to prove extraordinary  
7 circumstances if you exceed the estimate that you're  
8 giving the Commission in this docket, versus the  
9 construction projects in the 111 docket is you're not  
10 held to the strict standard in the rule with respect to  
11 justifying overruns. Do you recall that?

12 **A** We talked about that, yes.

13 **Q** Okay. What is the company's position at this  
14 time with respect to its commitment to meet the estimate  
15 that you've given for the Hines chillers with respect to  
16 overruns?

17 **A** I believe there's a statement in the  
18 interrogatories, and that statement says that, given the  
19 nature of these proceedings, we understand that the  
20 construction of projects, and of course at that time we  
21 were contemplating both the Suwannee and the Hines  
22 projects, construction of projects under the 111 docket  
23 would be treated similarly to the standard of proof with  
24 regard to cost overruns as in the 110 docket.

25 **Q** Okay. And that's your testimony here today?

1           **A**     That is my testimony. I believe there's  
2 specific language in the interrogatories.

3           **MR. REHWINKEL:** Okay. Mr. Chairman, those are  
4 all the questions I have.

5                     Thank you, Mr. Borsch.

6           **THE WITNESS:** Thank you.

7           **CHAIRMAN GRAHAM:** All right, Mr. Rehwinkel.  
8 We're going to go ahead and -- it's about close to our  
9 two-hour mark -- take a ten-minute break. By that clock  
10 in the back of the room, let's be back here at 11:30.

11           **MR. REHWINKEL:** I think I would have met my  
12 hour if Mr. Moyle hadn't kept objecting.

13                     (Laughter.)

14                     (Recess taken.)

15           **CHAIRMAN GRAHAM:** I have to apologize. The  
16 wheels started to fall off the wagon and PSC time got  
17 the better of me.

18                     Let's continue with cross-examination, Mr.  
19 Wright.

20           **MR. WRIGHT:** We don't have any questions for  
21 Mr. Borsch, Mr. Chairman. Thank you.

22           **CHAIRMAN GRAHAM:** Ms. Shelley.

23           **MS. SHELLEY:** We have no questions. Thank  
24 you.

25           **CHAIRMAN GRAHAM:** Mr. Brew?

1           **MR. BREW:** Thank you, Mr. Chairman. I just  
2 made it.

3   **EXAMINATION**

4           **BY MR. BREW:**

5           **Q**     Good morning, Mr. Borsch.

6           **A**     Good morning.

7           **Q**     I've got a lot of paper here, but so many of  
8 the numbers are the same I thought we'd try to start  
9 with some cleanup.

10                   Talking of the 110 docket.

11           **A**     Yes.

12           **Q**     You've got your need study.

13           **A**     Yes.

14           **Q**     The 2014 Ten-Year Site Plan.

15           **A**     Uh-huh.

16           **Q**     And then on BMHB-3 you show the load forecast  
17 and reserve margins that you're expecting; right?

18           **A**     Yes, I believe that's correct.

19           **Q**     And then on BMHB-4 you show the load forecast;  
20 right?

21           **A**     Let me turn to that so I can be looking at the  
22 same thing you're looking at.

23           **Q**     Okay.

24           **A**     Yes. And I believe in BMHB-4, during my  
25 deposition you identified to us a minor correction that

1 was contained in my errata.

2 Q Right. That's on just the winter 2014 number.

3 A Yes.

4 Q Okay. My question is, and on all of those  
5 exhibits, when we're talking about peak demand, winter  
6 and summer, we're talking about exactly the same  
7 numbers, which are the numbers that show up on Schedules  
8 3.1 and 3.2 of the 2014 Ten-Year Site Plan; is that  
9 right?

10 A Yes.

11 Q Okay. So to the extent that we're talking  
12 about those documents and we're talking about peak  
13 demand, it's always the net firm demand from those  
14 schedules.

15 A Correct.

16 Q And the numbers are always the same.

17 A They're intended to be always the same.

18 Q Okay. And in the 111 docket you also have  
19 some of that information and you have an exhibit that  
20 shows near-term load forecasts, and that information is  
21 also exactly the same from the 20-year -- 2014 Ten-Year  
22 Site Plan.

23 A It should be, yes.

24 Q Okay. Let's start then with the Exhibit  
25 BMHB-3, although the initials are wrong.

1           **A**    Yes.

2           **Q**    Okay.  So the summer firm peak demand we  
3 talked about comes from the Ten-Year Site Plan?

4           **A**    That's correct.

5           **Q**    And then the summer installed capacity in the  
6 summer reserve margin matches what I would otherwise --  
7 with Citrus, matches what I would otherwise find on  
8 Schedule 7.1 of the Ten-Year Site Plan?

9           **A**    Subject to check, it should, yes.

10          **Q**    Okay.  I'm just trying to make sure we're --

11          **A**    Yeah, I understand.

12          **Q**    -- we don't have different numbers on  
13 different documents.

14          **A**    I don't believe we do.

15          **Q**    And moving down to BMHB-4, again, the winter  
16 and summer peak forecasts are what we talked about.  
17 There's a column labeled Energy Requirements.  Do you  
18 see that?

19          **A**    Yes, I do.

20          **Q**    And is energy requirements exactly the same as  
21 what you show on Schedule 3.3 of the Ten-Year Site Plan  
22 as net energy for load?

23          **A**    I believe it is, yes.

24          **Q**    Okay.  Now if we can stick with BMHB-4 for a  
25 moment and look at the load forecast for winter and

1 summer, I'm correct, am I not, that Duke is basing its  
2 request for a need determination based on the summer  
3 peak columns rather than the winter peak, even though  
4 the winter is higher than the summer in seven out of the  
5 projected ten years; is that right?

6 **A** It is.

7 **Q** Okay. Also your testimony mentions that, I  
8 believe on pages 14 and 15, and this is your direct in  
9 the 110 document, docket, that Duke's need for capacity  
10 looks at its expected generation reserve margins and  
11 loss of load probabilities relative to peak demand; is  
12 that right?

13 **A** We do.

14 **Q** Okay. But that as a practical matter the  
15 reserve margin generally comes into play for a need  
16 determination before the loss of load probability  
17 constraints; is that right?

18 **A** That is correct.

19 **Q** And, in fact, that's what you claim in your  
20 testimony on page 15 here; is that right?

21 **A** Yes.

22 **Q** So what we're talking about is the estimated  
23 reserve margin requirements.

24 **A** Yes.

25 **Q** Okay. And the reserve margin requirements,



1 which are back on Exhibit 3, with Citrus for the years  
2 2014 through 2020 reflects all of the additions that  
3 Duke has proposed, meaning the Suwannee CTs, the Hines  
4 chillers, and adding the Citrus capacity; is that right?

5 **A** Yes.

6 **Q** And there's nothing in your filed documents,  
7 any of the exhibits that we've talked about, that  
8 substitutes the Calpine deal for the Suwannee CTs; is  
9 that right?

10 **A** Not that provides this specific calculation,  
11 no.

12 **Q** Does it provide that calculation anywhere on  
13 these exhibits?

14 **A** No, I don't believe that it does, although --

15 **Q** That was my question.

16 And we talked about this during your  
17 deposition, but am I correct that as far as you know  
18 Duke's load forecasting methodologies used in preparing  
19 its Ten-Year Site Plan for 2014 are the same as they  
20 employed in 2013; is that right?

21 **A** As far as I know, yes.

22 **Q** Okay. And it's also correct that the  
23 forecasts that are employed in the Ten-Year Site Plan  
24 are completed in the prior fall of the -- or the fall of  
25 the prior year; is that right?

1           **A**     That's correct.

2           **Q**     So to the extent that you had information  
3 regarding wholesale contracts that would not -- in terms  
4 of additions or deletions, that would not be reflected  
5 in the 2014 Ten-Year Site Plan forecast yet; is that  
6 right?

7           **A**     That's correct. The wholesale contracts that  
8 would be reflected in the 2014 Ten-Year Site Plan were  
9 current as of the fall of 2013.

10          **Q**     And by extension, and I'll try not to repeat  
11 this from here on out, but the same would apply for your  
12 Need Study.

13          **A**     That is correct.

14          **Q**     Okay.

15          **A**     It's probably fair to point out at this point  
16 that the Need Study --

17          **Q**     Actually I'd prefer if you wait for a  
18 question.

19          **A**     I'll wait then.

20          **Q**     Now on your Exhibit 4, the column Energy  
21 Requirements, we've already been over this, but the,  
22 what you show is forecasted information from 2014, year  
23 2014 and out; is that right?

24          **A**     Yes, it is.

25          **Q**     And the energy requirements are net energy for

1 load as I would otherwise look up on Schedule 3.3 of the  
2 Ten-Year Site Plan, column 8?

3 **A** Yes.

4 **Q** Which says Net Energy for Load. Now net  
5 energy for load refers to the energy Duke has to provide  
6 to serve its expected load, including transmission,  
7 transformation, distribution losses to get it to the  
8 customer meter; is that right?

9 **A** I believe that's correct. That's a number  
10 which is calculated by our load group and load  
11 forecasting group, and I'm not intimately familiar with  
12 all the subtleties around the small details like losses  
13 and things, but I believe that's correct.

14 **Q** Okay. And, but are you familiar that the  
15 number which is expressed in gigawatt hours reflects the  
16 total amount of energy that the company expects to  
17 provide for each of those years; it's an annual energy  
18 number?

19 **A** Yes.

20 **Q** Okay. And so to look at Exhibit 4, and let's  
21 just stick with the summer peak number for 2014, which  
22 shows 8,812 megawatts; do you see that?

23 **A** Yes, I do.

24 **Q** That would be the estimate of the highest  
25 single usage level for a single hour in the summer

1 period; right?

2 **A** Yes.

3 **Q** Okay. And the net energy for load requirement  
4 would represent the energy requirements for all hours in  
5 the year estimated.

6 **A** Yes.

7 **Q** Okay. And knowing not only the system peak  
8 but the energy requirements is important because it's  
9 reflective of system utilization, generated utilization,  
10 and overall system load factor; is that right?

11 **A** Yes.

12 **Q** Okay. So if I were to take the energy  
13 requirements for the year and divide it by all the hours  
14 in the year, that would give me effectively a system  
15 average annual demand; is that right?

16 **A** Well, I guess you could look at it that way.  
17 That isn't normally the way that we would utilize that  
18 calculation, but, yes.

19 **Q** Okay. Let's see. Oh, just some other quick  
20 document cleanup. Your Exhibits 125 and 135 --

21 **A** I'm sorry.

22 **Q** -- which are rebuttal forecasts. They're  
23 exactly the same document in the different dockets?

24 **A** You'd have to give me the exhibit numbers as  
25 they're shown in my testimony.

1           **Q**     Let's try -- it's -- it's BMHB-15 in the  
2     10 docket and BMHB-12 -- or, no, excuse me. It's 20 in  
3     the 110 docket -- or 111 docket. It's your chart of the  
4     summer peak forecast.

5           **A**     Yes. I was just looking to see that it was  
6     the same in both dockets, but I believe that it is.  
7     Perhaps I'm looking at the wrong exhibit. 110 Exhibit  
8     12, BMHB-12?

9           **Q**     I think that's right. Or 110 Exhibit 15,  
10    which should be a chart.

11          **A**     Interesting. I don't have a 15. But I will  
12    say that the, we did prepare this chart and it should be  
13    the same in both dockets.

14          **Q**     Okay. That's close enough. I just don't want  
15    to get whipsawed between the two dockets.

16          **A**     Right.

17          **MR. BREW:** Madam Chairman, I'd like to  
18    circulate a proposed exhibit, please.

19          **COMMISSIONER EDGAR:** Okay. Our staff will get  
20    that from you. By my chart that's 139.

21          **MR. BREW:** That's where I was. And for a  
22    short description it would be Forecasted Growth Rates  
23    Chart from Ten-Year Site Plans 2010, '11, '12, '13, and  
24    '14.

25          **COMMISSIONER EDGAR:** We will so label.

1 (Exhibit 139 marked for identification.)

2 **BY MR. BREW:**

3 **Q** Mr. Borsch, when you've had a chance to take a  
4 look at it, let me know.

5 **A** Okay.

6 **Q** Okay. Your Exhibit BMHB-15 had looked at  
7 prior years' Ten-Year Site Plans for forecasted summer  
8 peak load growth; right?

9 **A** Yes.

10 **Q** Okay. I represent to you that this chart does  
11 exactly the same thing, only it looks at the year over  
12 year percentage growth rate for the, for summer net firm  
13 demand for the 2010 and 2014 -- through 2014 Ten-Year  
14 Site Plans.

15 **MR. WALLS:** I'd like to object to this  
16 exhibit. It hasn't been established actually who  
17 prepared this exhibit.

18 **COMMISSIONER EDGAR:** Mr. Brew?

19 **MR. BREW:** I prepared the exhibit based on the  
20 company's filed Ten-Year Site Plans. I can go through  
21 the numbers if he wants, but --

22 **COMMISSIONER EDGAR:** Mr. Walls?

23 **MR. BREW:** The short answer is if you wanted  
24 to go to Schedule 3.2 or, excuse me, 3.1 in the 2014  
25 Ten-Year Site Plan, you will see an actual number for

1 summer peak demand for 2013, and you'll see a forecasted  
2 number for 2014.

3 **COMMISSIONER EDGAR:** Mr. Walls, what is your  
4 objection?

5 **MR. BREW:** With the delta between them being  
6 expressed as a percentage.

7 **MR. WALLS:** That's my objection, is the delta  
8 is expressed as a percentage. And I don't see the  
9 backup calculations that he can provide Mr. Borsch to  
10 show how he calculated that percentage difference.

11 **MR. BREW:** I would be happy to do it. In this  
12 case, taking the quick example, you've got a 2014  
13 expected net firm summer demand of 8,812, and a 2013 of  
14 8,008, which gives you a difference of 804, which you  
15 would then divide by the actual one of 8,008, which  
16 would give you a percentage increase of 10.4 percent.  
17 And I represent to you that that's exactly the  
18 calculation that's used for each data point.

19 **MR. WALLS:** I think he needs to ask the  
20 witness that question, not me, but --

21 **MR. BREW:** Well, you're raising the objection.  
22 I'm just -- you asked how it was done and that's how it  
23 was done.

24 **MR. WALLS:** Well, my objection is that it --  
25 if that's the way it was done by you, I think you would

1 need to establish with the witness that that's accurate.

2 **MR. BREW:** Okay. Fine.

3 **COMMISSIONER EDGAR:** Mr. -- thank you,  
4 Mr. Walls.

5 Mr. Brew, let's try that.

6 **BY MR. BREW:**

7 **Q** Mr. Borsch?

8 **A** Yes.

9 **Q** Referring to the 2014 Ten-Year Site Plan.

10 **A** Yes.

11 **Q** You show a net firm demand of -- for the year  
12 2013, which is an actual number; right?

13 **A** That's correct.

14 **Q** Of 8,008 megawatts for summer net firm demand;  
15 is that right?

16 **A** That number is calculated in accordance with  
17 the requirements for Ten-Year Site Planning that is  
18 required by the Commission. So that forms the same  
19 basis equal to the way the rest of the numbers on that  
20 sheet are calculated.

21 **Q** Fine. Assuming that you've consistently  
22 calculated net firm demand throughout, you show an  
23 actual net firm demand in 2013 of 8,008 megawatts; is  
24 that correct?

25 **A** Yes, it is.



1           **Q**     And you show a forecasted net firm demand in  
2 2014 of 8,812; is that correct?

3           **A**     Yes, we do.

4           **Q**     And the difference between those would be  
5 804 megawatts?

6           **A**     Well, you are comparing a projected number to  
7 an actual number. But from a simple mathematical  
8 standpoint, yes.

9           **Q**     Okay. And --

10           **MR. WALLS:** May I state an objection then to  
11 the exhibit --

12           **COMMISSIONER EDGAR:** Mr. Walls?

13           **MR. WALLS:** -- since we've now established  
14 something about the exhibit. I believe the title of  
15 this exhibit is now inaccurate. It's called Forecasted  
16 Annual Growth Rates, and Mr. Brew has just established  
17 with the witness that this is actually a comparison of  
18 actuals to forecasted.

19           **MR. BREW:** Actually, I will stand corrected.  
20 It is a -- actual and forecasted growth rates, because  
21 it covers the periods of the ten-year actual and  
22 ten-year forecasts shown in each of the plans. So I  
23 would be happy to correct the title so that it says  
24 Actual and Forecasted.

25           **MR. WALLS:** As long as the exhibit is clear

1 that that's the comparison that's being made, as  
2 Mr. Borsch has just said, then I'm fine with accurately  
3 describing what the exhibit is.

4 **MR. BREW:** Well, let's continue on then.

5 **BY MR. BREW:**

6 **Q** Mr. Borsch, continuing with --

7 **COMMISSIONER EDGAR:** Mr. Brew, hang on a  
8 second. So what we are going to do is we are going to  
9 amend slightly the title and the description, and  
10 therefore also the label on the exhibit list for this to  
11 Actual and Forecasted, et cetera.

12 **MR. BREW:** Annual Growth Rates.

13 **COMMISSIONER EDGAR:** Yes.

14 **MR. BREW:** And just to correct one point that  
15 Mr. Walls made, I just wanted to follow up a little bit.

16 **COMMISSIONER EDGAR:** You may.

17 **MR. BREW:** Thank you.

18 **BY MR. BREW:**

19 **Q** Mr. Borsch, for the same column, Net Summer  
20 Firm Demand, the year 2014 you show 8,812 megawatts;  
21 right?

22 **A** Yes.

23 **Q** And the following year, which is also a  
24 forecasted year, you show 9,042 megawatts; is that  
25 right?

1           **A**     Yes, it is.

2           **Q**     And so taking the difference between those, I  
3 could also drive a delta between the two forecasted  
4 amounts; is that right?

5           **A**     Yes, you could make that calculation.

6           **Q**     Okay. And am I correct that the company's  
7 methodology for calculating net firm demand for those  
8 forecasted years is performed in the same fashion  
9 throughout this column; is that right?

10          **A**     Yes.

11          **Q**     Okay. So would you agree with me in the  
12 context of defining a need for the Citrus units, a core  
13 issue is whether or not the estimated growth in peak,  
14 summer peak demand is reasonable?

15          **A**     I would say that the load, the load  
16 projections are a key element in determining our  
17 forward-looking need.

18          **Q**     Okay. And to determine that need, those,  
19 those assumptions need to be reasonable and based on  
20 supported evidence; is that right?

21          **A**     Yes.

22          **Q**     Okay. Thanks.

23                 **MR. BREW:** Mr. Chairman, I'd like to circulate  
24 another document.

25                 **COMMISSIONER EDGAR:** I'm actually going to go

1 ahead and maintain the helm for a few minutes.

2 **MR. BREW:** Oh, okay. My apologies.

3 **COMMISSIONER EDGAR:** But that's all right.

4 Thank you. Our staff will get that from you and  
5 distribute.

6 **MR. BREW:** And this would be number 140?

7 **COMMISSIONER EDGAR:** Yes, sir. And this is  
8 labeled Historic Percentage of Summer Net Firm Demand to  
9 Average System Demand and Adjusted Summer Net Firm  
10 Demand Forecast?

11 **MR. BREW:** Correct.

12 **COMMISSIONER EDGAR:** Give a moment for  
13 everybody to take a look at it.

14 (Exhibit 140 marked for identification.)

15 **MR. BREW:** Again, Madam Chairman, just to  
16 explain, on this exhibit there are several sheets, and  
17 it's my intention to walk through each of them.

18 **COMMISSIONER EDGAR:** Okay.

19 **BY MR. BREW:**

20 **Q** When you're ready, Mr. Borsch, let's go to the  
21 first page, which has a label of Historic Summer Net  
22 Firm Demand as a Percentage of Net Energy for Load.

23 **MR. WALLS:** Again, let me state an objection  
24 to this. I would again ask is Mr. Brew representing  
25 that he prepared this document?

1           **MR. BREW:** Yes.

2           **MR. WALLS:** Okay.

3           **MR. BREW:** Based on the information presented  
4 in the company's Ten-Year Site Plan.

5           **MR. WALLS:** So I take it you will now confirm  
6 with the witness whether this is accurately prepared?

7           **MR. BREW:** I intend to walk through the  
8 calculations with him and have him confirm it, yes.

9           **COMMISSIONER EDGAR:** Mr. Walls?

10          **MR. WALLS:** And are the titles accurate for  
11 the pages?

12          **MR. BREW:** Actually the -- it should be  
13 Historic Net Firm Demand as a Percentage of Average  
14 System Demand, instead of Net Energy for Load.

15          **COMMISSIONER EDGAR:** One more time, Mr. Brew,  
16 please, a little slower.

17          **MR. BREW:** The first page should read Historic  
18 Summer Net Firm Demand as Percentage of Average System  
19 Demand.

20          **COMMISSIONER EDGAR:** Mr. Walls?

21          **MR. WALLS:** Could we just walk through the  
22 titles to the other pages to make sure they're accurate  
23 too now?

24          **MR. BREW:** Sure. The second page would be  
25 Forecasted Summer Net Firm Demand as Percentage of

1 Average System Load. It should be demand to be  
2 consistent.

3 The next page is a line graph that is  
4 correctly labeled as Summer Net Firm Demand as  
5 Percentage of Average System Demand because it shows  
6 both historic and forecast.

7 The next page would be listed Adjusted  
8 Forecast Summer Net Firm Demand. And the next page  
9 would be listed Adjusted Reserve Margin. So each of  
10 those titles is accurate.

11 **COMMISSIONER EDGAR:** Mr. Walls, anything  
12 further before we proceed?

13 **MR. WALLS:** As long as he intends to establish  
14 the last two pages what the adjustment was with the  
15 witness, I'm fine.

16 **MR. BREW:** Okay. Thanks.

17 **BY MR. BREW:**

18 **Q** First, let's take each column. We've got  
19 Year, which lists the ten-year historic period presented  
20 in your 2014 Ten-Year Site Plan; is that right?

21 **A** Those numbers appear to be correct.

22 **Q** Okay. Column A, Summer Net Firm Demand, is  
23 the historic period from your Schedule 3.1 labeled Net  
24 Firm Demand. Can you confirm that?

25 **A** So I'm looking at column A of the first page?

1           **Q**     Column A of the first page of this exhibit,  
2     yes.

3           **A**     And I am comparing that to column 10 on  
4     Schedule 3.1 of our 2014 Ten-Year Site Plan, which is  
5     also Exhibit BMHB-2 to my direct testimony.

6           **Q**     That is correct.

7           **A**     As far I can tell on quick check, those are  
8     the same numbers.

9           **Q**     Okay. Column B of the exhibit is Net Energy  
10    for Load, which comes off of Schedule 3.3, column 8.

11          **A**     Again, a quick glance through those numbers,  
12    they appear to be the same numbers.

13          **Q**     Okay. Thank you. I will tell you that the  
14    column labeled C, Average System Demand, is the net  
15    energy for load divided by 8,760 hours in a year, as  
16    indicated in the footnote.

17          **A**     Without the opportunity to check those  
18    numbers, I'll accept that that's the case.

19          **Q**     Okay. And then column D is simply an  
20    expression of the net firm demand over the average  
21    system demand from column C as a percent. Again, I'll  
22    ask you to accept that that's the process that was done.

23          **A**     I'll accept those calculations, subject to  
24    check, yes.

25          **Q**     Okay. Thank you. Now in looking at that

1 quickly, you see that the ratio of summer net firm  
2 demand to average system demand peaked radically in  
3 2009. Is that due in all likelihood to the change in  
4 usage patterns associated with the recession?

5 **A** Yes. I will say that there is a form of  
6 this same calculation in the Ten-Year Site Plan on, in  
7 column 9 of Schedule 3.3, which is required of us each  
8 year by the Commission, in which we have expressed the,  
9 essentially the inverse of the calculation you're  
10 attempting to do in this exhibit, you know, in the more  
11 traditional manner of expressing this as a load factor.

12 **Q** Right. And so it shows for 2009 on column 9  
13 of that exhibit a drop in system load factor to about  
14 45.3 percent.

15 **A** Yes, it does.

16 **Q** Okay.

17 **A** I think the number --

18 **Q** Oh, I'm sorry.

19 **A** The number I have in here is 44.5 for 2009.

20 **Q** Right. I'm sorry. I read the wrong number.  
21 That's correct.

22 And then after 2009 these ratios start to  
23 climb up just as your system load factor starts to  
24 improve; is that right?

25 **A** Yes. The system load factor begins to improve



1 as we go forward.

2 Q Okay. If you can move to the next page. Now  
3 we have the forecast years for the current Ten-Year Site  
4 Plan; correct?

5 A Yes, you have presented those years.

6 Q Okay. And the summer net firm demand comes  
7 from Schedule 3.1, net firm demand?

8 A Those appear to be the same numbers, yes.

9 Q Okay. And the net energy for load comes from  
10 Schedule 3.3, column 8?

11 A Again, those appear to be the same numbers.

12 Q Okay. And then I'll represent to you that  
13 columns C and D of the exhibit do the same math as the  
14 first page, which is to calculate an average system  
15 demand by dividing the net energy for load by 8760,  
16 and --

17 A Okay.

18 Q And then expressing the net firm demand as a  
19 percentage of the average system demand, same as on the  
20 prior page. Now that shows a rise in the net firm  
21 demand relative to average system demand that's even  
22 higher than what we saw during 2009; is that right?

23 A Well, I guess I'll say this. I mean, let me  
24 say that, first of all, it is certainly correct to  
25 assert that the numbers on the second page are higher

1 than the numbers on the first page. However, I'm a  
2 little bit mystified. There's a discrepancy in trend  
3 between the load factor numbers that are in column 9 of  
4 our Ten-Year Site Plan and the values that you have on  
5 these two pages in your percentage numbers, and without  
6 trying to do math on the stand here, I'm a little bit  
7 confused as to why those trends are inconsistent.

8 Q And I did not attempt to figure out your load  
9 factor calculation, but let's stick with this. If we  
10 can flip to the next page, which is a line graph, plots  
11 the percentage that we talked about for the historic  
12 period and then the forecast period.

13 A I will agree that the line graph represents  
14 the numbers that you have on the first two pages.

15 Q Okay. So if we can go back to the first page  
16 related to the actual numbers.

17 A Yes.

18 Q Do you see that?

19 A Yes.

20 Q The ratio of net firm peak demand to average  
21 system demand after 2009, after the depths of the  
22 recession starts to recover, and the question that I'm  
23 trying to get to is why it so dramatically shifts from  
24 13 to 14.

25 A I guess the answer to that question is, given

1 that I have not had time to review your calculations and  
2 understand the movement of those numbers in detail, I  
3 can't -- I don't know.

4 **Q** But you've studied the net firm demand and the  
5 net energy for load throughout the forecast period;  
6 right?

7 **A** Yes.

8 **Q** Okay. So if we can move to the next page, and  
9 simply, again, this is, this is my calculation, but for  
10 the forecast years it applies the average ratio for the  
11 last five actual years to your forecasted system average  
12 demand for those forecast years to come up with the, an  
13 adjusted summer net firm demand on column C. Do you see  
14 that?

15 **A** I do.

16 **Q** Okay. So if we saw a continuation of the  
17 recent historic trend relative to what you've  
18 forecasted, on the following page we've come up with an  
19 adjusted reserve margin calculation, and I want to walk  
20 through that for a minute. Again, we're talking about  
21 the ten forecasted years for the current Ten-Year Site  
22 Plan? Column A is the total available capacity from the  
23 Ten-Year Site Plan; is that right? That would be from  
24 your Schedule 7.1, column 6.

25 **A** Yes.

1           **Q**     Okay.  So if we apply the adjusted net firm  
2 demand based on the recent experience, we would get an  
3 adjusted reserve margin by subtracting the total  
4 available capacity from the adjusted net firm demand,  
5 and that would give us the adjusted reserve margins that  
6 are shown on column D.

7           **A**     Without -- I guess what I would say is I will  
8 suppose that you have done the arithmetic correctly.  I  
9 won't necessarily agree that this is an appropriate  
10 calculation for calculating either reserve margin or  
11 firm demand going forward.

12          **Q**     Okay.  Well, let's stop right there.  First, I  
13 hope Excel calculated the thing correctly.  But would  
14 you accept that the math for calculating the reserve  
15 margin is exactly what you've done on your own Exhibit  
16 7.1?

17          **A**     I will agree that the methodology appears to  
18 be the same, inasmuch as you, you know, the numbers that  
19 you have are the numbers you would expect to be the  
20 inputs to that calculation.

21          **Q**     And that's the same way that you did it on  
22 Exhibit 7.1 -- or Schedule 7.1 of the Ten-Year Site  
23 Plan?

24          **A**     Well, I can't say they're the same way.  I  
25 will say that in Exhibit 7.1 we calculated the reserve

1 margin consistently with the methods that we have shown  
2 the Commission over the past many years. I will take as  
3 a matter of your assertion that you have applied the  
4 same methodology in making the calculations on this  
5 sheet.

6 Q Well, then let's go to 7.1. Okay. 7.1 for  
7 the year 2014, you show total capacity available of  
8 11,024 megawatts; is that right?

9 A Yes.

10 Q And this is all summer; right?

11 A Yes.

12 Q Okay. And you show total available capacity  
13 in column 6, or -- yeah, in column 6?

14 A I think that was the number you just cited.  
15 Yes, 11,024.

16 Q Okay. You show the system firm peak demand,  
17 which comes straight off of Schedule 3.1?

18 A Yes.

19 Q Okay. You show a delta, which is described as  
20 a reserve margin before maintenance?

21 A Yes.

22 Q Which is the available capacity minus the  
23 summer firm peak?

24 A Correct.

25 Q Okay. And then you express that as a percent,

1 that -- the, in this case for 2014, which is 2,211  
2 megawatts of reserve; right?

3 **A** Yes.

4 **Q** And you get a 25 percent?

5 **A** Correct.

6 **Q** Okay. Would you accept that the math is done  
7 exactly the same way on the sheet I just showed you?

8 **A** Yes.

9 **Q** Okay. Thank you. And just for clarification  
10 purposes, on Schedule 7.1 you have a reserve margin  
11 before maintenance and a reserve margin after  
12 maintenance where you assume zero maintenance throughout  
13 the forecast period; right?

14 **A** Yes. We don't plan to do major maintenance on  
15 our units during the summertime.

16 **Q** Right. That's a standard planning convention.

17 **A** It is.

18 **Q** Okay. Now in developing your load forecasts  
19 for the Ten-Year Site Plan and all the documents that  
20 are in here, am I correct that you use normal weather?

21 **A** We do.

22 **Q** Okay. So when we look at the actuals, you'll  
23 see ups and downs that reflect the influence of weather  
24 as much as anything else.

25 **A** Among other factors, yes.

1           **Q**     Okay.  But in the forecast -- so for the  
2           forecasted numbers, weather is normalized?

3           **A**     Correct.

4           **Q**     Okay.  Now for the, for the forecast period,  
5           taking residential customers, you are showing a decline  
6           in usage per customer for at least the next four or five  
7           years; right?

8           **A**     I don't, can't put my finger on that number,  
9           but I think that's -- a slight decline is probably  
10          plausible, yes.

11          **Q**     Okay.  Certainly you're not forecasting a  
12          material increase in usage per customer.

13          **A**     No, I don't believe so.

14          **Q**     Okay.  And that would be reflected on  
15          Schedules 2 of the Ten-Year Site Plan.

16          **A**     Yes.

17          **Q**     Okay.  So I'm correct that, based on the  
18          company's Ten-Year Site Plan for both residential and  
19          commercial customers, you're showing either flat or  
20          declining usage per customer for the next five years.

21          **A**     Well, I mean, if you look at these numbers, I  
22          believe what you'll see is that there is, if you, say,  
23          take the period 2014 through 2018, there is a very  
24          modest rise in the usage per customer for residential.  
25          You could characterize that as flat, but I would not

1 characterize it as declining. The commercial usage does  
2 have some ups and downs in it, but might -- you know, is  
3 flat to maybe very slightly declining.

4 **Q** Okay. So for 2014 for residential, you show  
5 a decline of 1.8 percent in usage per customer from 2013  
6 and 2014. So it's a drop; right?

7 **A** Oh, from 2013 to 2014.

8 **Q** And 2014 to 2015 is also a drop of less than  
9 1 percent.

10 **A** Yes.

11 **Q** And 2015 to 2016 is a slight increase of  
12 three-tenths of a percent?

13 **A** Looking at the numbers, I would say that's  
14 probably correct.

15 **Q** Okay. And from 2016 to 2017 you're looking at  
16 an increase of basically one-tenth of 1 percent.

17 **A** Yes.

18 **Q** And for 2017 to 2018 you show a, basically a  
19 three-tenths of a percent increase in usage per  
20 customer.

21 **A** Uh-huh.

22 **Q** Okay. And not to spend too much time on this,  
23 but if we did the same thing for commercial, we would  
24 find similar numbers of a 2013 to 2014 drop of almost  
25 3 percent in commercial usage per customer; right?



1           **A**    Yes.

2           **Q**    Okay.  Another drop between 2014 and 2015?

3           **A**    That is shown here, yes.

4           **Q**    Okay.  And then for the remaining period  
5 through 2018, changes of less than 1 percent.

6           **A**    Yes.

7           **Q**    Okay.  And on the industrial side you're  
8 showing not so much changes in uses per customer but  
9 declining customers; right?

10          **A**    Yes.

11          **Q**    So in order to get the sudden increase in peak  
12 demand forecasted, you're not getting it from weather  
13 and you're not getting it from usage per customers;  
14 right?

15          **A**    Are you talking about the increase -- tell me  
16 which two years or what period you're referring to.

17          **Q**    For the forecast periods, say, for the next,  
18 say, 2014 to '16.

19          **A**    The sudden increase in demand from 2014 to  
20 2016?

21          **Q**    Yes.

22          **A**    I believe if you refer to Schedule 3.1, there  
23 is an increase in demand of a total of about  
24 300 megawatts, or, you know, I think that's a cumulative  
25 period of only a few percentage points per year.

1 Q I'm sorry. Where are you?

2 A I was looking at Schedule 3.1, column 10,  
3 comparing the period from 2014 to 2016.

4 Q Right. From 2013 to 2014 you jump up  
5 10 percent; right?

6 A Well, from 2013 to 2014 is not a fair  
7 comparison, because from 2013 you're talking about an  
8 actual number and 2014 a projected number. So the,  
9 there are a variety of differences in how those numbers  
10 come together, you know, not least of which is the  
11 difference in actual weather versus projected weather.  
12 As we discussed a few moments ago, we use a normal  
13 weather projection for our weather going forward. 2013,  
14 as it happens, was quite a mild summer.

15 Q And you weren't adding -- you added less than  
16 1 percent additional residential customers?

17 A I guess I would have to check that number.

18 Q Okay.

19 A But --

20 Q If you go to --

21 A -- customer growth has been slower than we had  
22 hoped, although it's picked up this year.

23 Q It's picked up this year.

24 **MR. BREW:** May I -- Madam Chairman, may I  
25 circulate another document, please?

1           **COMMISSIONER EDGAR:** Yes, you may, and we'll  
2 ask our staff to help with that.

3           **MR. BREW:** Madam Chairman, this one I believe  
4 is Exhibit, for identification, 141?

5           **COMMISSIONER EDGAR:** Yes.

6           **MR. BREW:** And a short description would be  
7 Excerpt of Duke Energy Corp 8K Filing, Dated July 7,  
8 2014.

9           **COMMISSIONER EDGAR:** Okay. We will so mark.

10          **MR. BREW:** It's August 7, 2014. Thank you.

11          **COMMISSIONER EDGAR:** Yes.

12                   (Exhibit 141 marked for identification.)

13 **BY MR. BREW:**

14           **Q** Mr. Borsch, when you're ready. First question  
15 is are you at all familiar with Duke's filings with the  
16 Securities and Exchange Commission?

17           **A** Not particularly, no.

18           **Q** Do you ever provide any inputs into those  
19 reports to the SEC?

20           **A** No.

21           **Q** Can you look for me on the -- what I've shown  
22 you is a cover sheet for the Duke Energy 8K filed in  
23 August, and what I'll represent to you is labeled as  
24 page 20 of that filing.

25           **A** I'm not familiar with this document, but okay.

1           **Q**     Okay.  Then I will, I'll simply stick to -- do  
2 you see the column Average, labeled Average Number of  
3 Customers?

4           **A**     Yes.

5           **Q**     Okay.  And let's focus on the area labeled Six  
6 Months Ended June 30.

7           **A**     Okay.

8           **Q**     And the percentage number, which I've circled,  
9 which is labeled Total Change of 1.3 Percent, Total  
10 Average Number of Customers, Duke Energy Florida.  And  
11 my question to you is does that percentage rate match up  
12 with your information on customer growth so far this  
13 year?

14          **A**     I don't have those numbers in my head, so I  
15 can't answer that question.

16          **Q**     Okay.  Do you track by month the number of  
17 customers?

18          **A**     Duke Energy tracks that number.  That's not  
19 specifically in my area of responsibility.

20          **Q**     Okay.  So you don't keep track of that?

21          **A**     No.  I look at those numbers for reference.  
22 But my area of responsibility is the long-term planning,  
23 so I don't keep track of those numbers on a  
24 month-by-month basis, but tend to look at them when  
25 whole year aggregates are available.

1           **Q**     So after you've gotten your forecast done for  
2 the Ten-Year Site Plan, you don't follow through on the  
3 accuracy of those forecasts relative to the forecasts in  
4 the Ten-Year Site Plan until you repeat the process?

5           **A**     Well, I'll say this. I don't. The -- I mean,  
6 I do inquire periodically of our load forecasting team,  
7 and I do certainly listen to presentations of some of  
8 these numbers in various meetings. But it's not in my  
9 area of responsibility to track these on a  
10 month-by-month basis.

11          **Q**     Okay. A moment ago you said that growth in  
12 customers was slow but was picking up. Do you recall  
13 that?

14          **A**     Yes. And that's, you know, my anecdotal  
15 understanding based on, as I said, my exposure at an  
16 informal level to those numbers.

17          **Q**     Okay. And that's the extent of your  
18 knowledge?

19          **A**     And that's the extent of my knowledge.

20          **Q**     Okay. Mr. Borsch, your rebuttal exhibit,  
21 again, in the 110 dockets, the BMHB-16, which you  
22 discussed with Mr. Rehwinkel.

23          **A**     I'm sorry. Refer me to which --

24          **Q**     Rebuttal --

25          **A**     -- what's shown in that exhibit.

1           Q     That's the calculation of the effect of a  
2 one-year delay in Citrus.

3           A     Oh, yes. I'm sorry. I'm on the wrong page.  
4 But, yes, I know the exhibit you're referring to.

5           Q     Okay. Quick question is that analysis assumed  
6 no changes in the load forecast that you filed; right?

7           A     That is correct.

8           Q     Okay. And a while ago Mr. Rehwinkel had shown  
9 you a document that's been marked for identification as  
10 Exhibit 138. Do you have that handy?

11          A     It's under this pile somewhere. Would that be  
12 the one suggesting the hypothetical delay?

13          Q     Yes, exactly.

14          A     Okay. Yes.

15          Q     And the question is the same, which was line 5  
16 of that exhibit shows net firm demand, and that's  
17 exactly what you filed in the need and Ten-Year Site  
18 Plan?

19          A     Again, those appear to be the same numbers,  
20 yes.

21               **MR. BREW:** Okay. Thank you. That's all I  
22 have.

23               **COMMISSIONER EDGAR:** Thank you, Mr. Brew.

24               Mr. Chairman.

25               **CHAIRMAN GRAHAM:** Thank you, Commissioner

1 Edgar, for handling that.

2 Let's move on to NRG.

3 **MS. RULE:** Thank you.

4 **EXAMINATION**

5 **BY MS. RULE:**

6 **Q** Good afternoon, Mr. Borsch.

7 **A** Good afternoon.

8 **Q** When Duke filed its petitions in these two  
9 dockets back in May, there was a combined cycle plant, a  
10 peaking plant, and a chiller uprate proposed; correct?

11 **A** That's correct.

12 **Q** And now you've, if I understand correctly,  
13 taken the Suwannee peaker out of the mix and replaced it  
14 with the Calpine combined cycle plant?

15 **A** Well, I think the right way to say that is  
16 we've taken the Suwannee peakers out of the mix while we  
17 plan for a deal which appears to us to be more  
18 cost-effective than those peakers with Calpine. And  
19 we'll bring back whichever of those deals turns out to  
20 be more cost-effective later on this year based on our  
21 final negotiations with Calpine.

22 **Q** So is it your testimony that you're  
23 considering the Calpine combined cycle plant to replace  
24 the Suwannee peaker plant that you previously proposed?

25 **A** It is my testimony that we are considering

1 the, and planning, subject to consummation of the deal,  
2 as I discussed with Mr. Rehwinkel earlier, we are  
3 planning to utilize the capacity of the Suwannee plant  
4 to fulfill our need rather than the construction of the  
5 Suwannee peakers.

6 Q When you say --

7 A I'm sorry. I meant to say the Osprey plant.  
8 I apologize. I misspoke.

9 Q Well, your original plan in these two dockets  
10 included peakers because they're generally a cheaper way  
11 to meet peak need than combined cycle; correct?

12 A That combined with the size of the load that  
13 we needed and an overall evaluation of the total revenue  
14 requirement results based on adding the peakers at that  
15 juncture versus, you know, the alternatives which we had  
16 available to us, including self-build, combined cycle,  
17 or the proposals that had been made to us by various  
18 parties.

19 Q Is it true that peakers are generally cheaper  
20 to meet peak need than combined cycle?

21 A It is true that, from a capital cost  
22 standpoint, peakers are generally less expensive to  
23 build.

24 Q Okay. On page ten of your direct testimony in  
25 Docket 140111 you talk about the company's plans for the



1 existing Suwannee plants.

2 **A** Uh-huh.

3 **Q** And at the time you filed your testimony, the  
4 company was planning to retire that 120 megawatts of  
5 summer capacity two years early; correct?

6 **A** Yes.

7 **Q** Is that still the company's plan?

8 **A** No. In point of fact, the -- well, let me say  
9 it a different way. It is our intention to retire those  
10 units which are at the end of their lives as soon as we  
11 can develop and construct -- well, we've already  
12 developed -- construct sufficient transmission projects  
13 in that year to support the change-out or to support the  
14 retirement of those units and the voltage needs in that  
15 area. So our current plan is to have those projects in  
16 service by, in time for the 2018 summer season.

17 In the event that we had built the peakers,  
18 the generation of the peaker, generation from those  
19 peakers would have supported that voltage need. So I  
20 would say that we do intend to operate the units until  
21 the transmission projects which are already underway are  
22 completed. We expect that that will be no later than  
23 the 2018 summer season.

24 **Q** So if I understand you correctly, then they  
25 are no longer slated for early retirement.

1           **A**     That's a fair statement. We would, we would  
2 revert to retiring them in 2018 absent, you know,  
3 information on acceleration of the transmission  
4 projects.

5           **Q**     Okay. And there are costs associated with not  
6 shutting them down; correct?

7           **A**     Yes.

8           **Q**     And generally what are those costs?

9           **A**     Well, I would say the costs are twofold.  
10 There is the cost to operate the units themselves in the  
11 form of fixed operating and maintenance costs, staffing  
12 and so forth. And then, you know, more broadly there's  
13 the impact of which units are available in the stack at  
14 different times. But, you know, we do estimate that  
15 there is a cost of approximately, it's less than  
16 \$5 million a year, maybe \$3 million a year in fixed  
17 operating costs to operate those units for the next, you  
18 know, for the additional two years.

19                   And those numbers -- you know, each time we do  
20 this evaluation with different alternate scenarios, you  
21 know, we have been putting and taking those costs, you  
22 know, depending on whether or not the peakers are  
23 included in the scenario.

24           **MS. RULE:** Give me just one minute.

25           **CHAIRMAN GRAHAM:** Sure. Sure.

1           **MS. RULE:** I apologize. I thought I had that  
2 docket -- or document closer.

3 **BY MS. RULE:**

4           **Q**     You responded to some staff interrogatories  
5 about the retirement costs, or the costs of not retiring  
6 those plants -- that plant, didn't you?

7           **A**     I guess I would have to ask you to find me a  
8 specific question. We responded to a lot of  
9 interrogatories.

10          **Q**     That's certainly fair. I believe you stated  
11 that, in response to staff interrogatory number 70,  
12 which was -- I apologize. That's NRG's number 70.

13          **A**     Okay.

14          **Q**     And I can hand that to you, if you like.

15          **A**     Let me see if I have it immediately available.  
16 Yes, I see the question you're referring to.

17          **Q**     And you stated that the cost was estimated at  
18 77.2 million; correct?

19          **A**     Well, that's a different -- that's a response  
20 to a different question than the one you asked me a  
21 moment ago.

22          **Q**     Okay.

23          **A**     In the question as it's framed in  
24 interrogatory number 70, the question was, what would be  
25 the transmission cost if we were going to prepare to run

1 all five of those units at the same time? That is to  
2 say, the three steam units and the two proposed peakers.

3 In point of fact, avoiding those costs was one  
4 of the reasons that we concluded it was appropriate to  
5 retire the steam units in 2016 if the peakers were going  
6 to be constructed.

7 **Q** Okay. So now that Suwannee has been taken out  
8 of the mix --

9 **A** Uh-huh.

10 **Q** -- and Hines alone is in the mix --

11 **A** Uh-huh.

12 **Q** -- doesn't that affect the total cost of  
13 Hines?

14 **A** No.

15 **Q** If part of the price of keeping Hines in play  
16 is also keeping these units in play, why is that not a  
17 total cost that the Commission should take into account?

18 **A** The decision on the Hines chillers and the  
19 decision on the retirement date for the Suwannee steam  
20 units are entirely independent of each other. The -- I  
21 mean, first of all, they are geographically pretty far  
22 apart and from an electrical standpoint don't have any  
23 significant influence on each other from a transmission  
24 standpoint.

25 So there's not a related transmission cost

1 question there. And, you know, we, as I think is  
2 established in other interrogatories, we tested the  
3 value of the Hines chillers in -- you know, that is to  
4 say we tested whether or not the Hines chillers proved  
5 cost-effective by taking them in and out of scenarios  
6 either with the peakers or with some of the proposed  
7 acquisitions. So they're totally independent questions.

8 **Q** Have you modeled the cost of keeping Hines and  
9 not retiring these plants?

10 **A** In the context of having modeled alternatives  
11 to the Suwannee peaker project, yes. The cost of not  
12 retiring or the savings accrued from retiring those  
13 plants early is relatively small in the context, say,  
14 of, you know, the cost shifts for and against when we  
15 start comparing, you know, the other piece of the  
16 generation, which in this case would be, say, the  
17 peakers versus one of the acquisitions.

18 **Q** I believe your testimony at page 11 of your  
19 direct in Docket 140111 is that the company needs  
20 approximately 280 megawatts of summer generation  
21 commencing in 2016, increasing to 470 megawatts in the  
22 summer of '17; correct?

23 **A** Yes.

24 **Q** How much of the 280 megawatts 2016 need will  
25 you be getting from Calpine?

1           **A**     Well, as I stated earlier, we'll be getting  
2 essentially 249 megawatts from Calpine.  However, we  
3 will have a portion of the Hines chiller project  
4 available in that year.  I think we went through the  
5 schedule for the development of the Hines chiller  
6 projects in my deposition.  So they, there will be  
7 sufficient megawatts to cover that summer.

8           **Q**     But Calpine will be covering the majority of  
9 that need, won't it?

10          **A**     Yes.

11          **Q**     Okay.  Does the Calpine deal specifically  
12 limit the amount of power to be delivered from Calpine?

13          **A**     The deal itself does not, but the attendant  
14 facts, in this case the availability of point-to-point  
15 service from the Osprey facility to DEF does.

16          **Q**     And I've confirmed with counsel about some  
17 things I may ask you about the GE contract, and I do not  
18 intend to go beyond that, but I would like to ask you  
19 about some dates.  Duke already entered into an  
20 agreement with GE for the purchase of two combustion  
21 turbines; correct?

22                 **MS. TRIPLETT:**  Mr. Chairman, I'm sorry.  If I  
23 could lodge an objection.  I don't think this is the  
24 appropriate witness to be asking these questions about  
25 this contract.  That would have been Mr. Landseidel.

1           **MS. RULE:** I believe his testimony talks about  
2 the agreement and the plans that Duke had, at least at  
3 the time he filed the testimony, to build the plant, and  
4 he talks about the contracts.

5           **MS. TRIPLETT:** I mean, I'm okay if she wants  
6 to see if Mr. Borsch knows details beyond what he filed  
7 in his direct. But, you know, but perhaps we could just  
8 see how that goes, because while he generally has  
9 knowledge about the GE contract, the specifics,  
10 particularly about what has happened since the testimony  
11 has been filed, are more from Mr. Landseidel.

12           **CHAIRMAN GRAHAM:** Well, then, we'll just  
13 follow to see where it goes, and you can stop if we hit  
14 a sticking point.

15           **MS. TRIPLETT:** Thank you.

16 **BY MS. RULE:**

17           **Q** Are you aware when the contract was executed?

18           **A** I don't have a specific date in my head, but I  
19 am aware that it was in May of this year.

20           **Q** It was executed in May?

21           **A** Well, I believe that was -- I guess I should  
22 say in May was when we gave notice to proceed.

23           **Q** Okay. Would you accept, subject to check,  
24 that it was executed in March?

25           **A** Yes.

1           **Q**     Okay.  There are specific penalties associated  
2 with not fulfilling the contract; is that correct?

3           **A**     In general, it's my understanding that there  
4 are clauses, but I am not familiar with any of the  
5 details.

6           **Q**     Okay.  Do you know whether Duke still plans to  
7 build the Suwannee peakers at a later date?

8           **A**     We -- assuming, let me start with this,  
9 assuming successful consummation of our deal with  
10 Calpine, we would not have a specific plan to construct  
11 the Suwannee peakers at this time.

12          **Q**     Do you expect Duke's ratepayers to pay the  
13 termination charges associated with the GE contract?

14                   **MS. RULE:**  There's been no objection.  I asked  
15 the witness to answer.

16                   **CHAIRMAN GRAHAM:**  I didn't say anything.

17                   **THE WITNESS:**  I was only pausing to see.  
18 There was a lot of movement down at the other end of the  
19 table.

20                   (Laughter.)

21                   **MR. WALLS:**  Well, let me object to the extent  
22 it gets into any confidential information that  
23 Mr. Borsch cannot disclose.

24                   **CHAIRMAN GRAHAM:**  Okay.

25                   **MS. RULE:**  Confidential as to whether he, the



1 company expects its ratepayers to pay for this?

2 **THE WITNESS:** Let me try answering it this way  
3 and see if this -- is that, as I think has been stated  
4 earlier and in the preliminary matters, once we reach a  
5 firm deal with Calpine, we will be bringing that deal  
6 back to this Commission for a review by the Commission  
7 and presumably discovery by all the parties. Details  
8 like the one that you're asking about will be covered in  
9 that proceeding.

10 **BY MS. RULE:**

11 **Q** So you will not commit right now that Duke  
12 will not ask its customers to pay termination charges  
13 associated with the Suwannee peakers; is that correct?

14 **A** One of the principles of our negotiation with  
15 Calpine throughout has been that we would negotiate a  
16 deal which was more favorable from a cost-effectiveness  
17 standpoint to our customers than the base plan of  
18 building the Suwannee peakers, and that we would have  
19 sufficient terms in that contract that our customers  
20 would be held harmless from various eventualities.

21 **Q** Regarding your prior testimony, what is the  
22 cost of the transmission investments that you say will  
23 provide the voltage support that the Suwannee peakers  
24 would have provided?

25 **A** That's actually not in my testimony because

1 those projects are already part of our base transmission  
2 plan. I don't have that number at hand.

3 Q You stated that the transmission project was  
4 underway?

5 A I believe that it is. I mean, it's not a  
6 single project. It's a whole series of different  
7 projects throughout the northern area. Some are  
8 underway and others are yet to be completed.

9 Q Was any of this investment reflected in your  
10 modeling?

11 A The bulk of the northern area generation  
12 projects, in fact, I believe all of the northern area  
13 generation projects -- or I shouldn't say generation --  
14 northern area transmission projects are part of our base  
15 plan and were expected to be accomplished in all  
16 scenarios.

17 Q When did Duke authorize the transmission  
18 projects?

19 A I'm not specifically -- I don't know.

20 Q Have you modeled a load growth that is less  
21 than you've projected?

22 A In the evaluations in this docket, no.

23 Q Okay. In the event that the load growth  
24 you've forecasted fails to materialize, will Duke need  
25 the Hines chillers?

1           **A**     Yes. Well, let me say this a different way.  
2     I believe that the Hines chillers are cost-effective in  
3     just about all scenarios, regardless of where we end up  
4     with, you know, specifics of load growth in the next few  
5     years.

6                     And in part, I think that is supported by the  
7     fact that in various of our modeling, in different  
8     cases, depending particularly on acquisitions that were  
9     offered to us, you know, the sum of the Hines chillers  
10    and the particular acquisition might have been  
11    noticeably more than the specific need in those years,  
12    and yet in each of those cases we found that adding the  
13    Hines chillers was more cost-effective than leaving them  
14    out of the evaluation.

15                    **MS. RULE:** I have no more questions,  
16    Commissioners, but I would like to put together an  
17    exhibit of certain interrogatory responses and of course  
18    provide to counsel. They're already on file. I don't  
19    believe they're in staff's exhibits, but I would like to  
20    enter that as an exhibit. And I would offer it at a  
21    later date, if that's okay.

22                    **CHAIRMAN GRAHAM:** We'll wait to see what it is  
23    you put forth and we'll deal with it at that time.

24                    **MS. RULE:** Thank you. No questions. Thank  
25    you.

1                   **CHAIRMAN GRAHAM:** Mr. Moyle, I assume that you  
2 have more than four or five minutes' worth of questions.

3                   (Laughter.)

4                   **MR. MOYLE:** There's been a lot of discussion  
5 about assumptions today and their reliability, but  
6 that's a very reliable assumption.

7                   **CHAIRMAN GRAHAM:** All right. Well, then I  
8 think this is a good time to take a lunch break. I have  
9 about four minutes to 1:00. Let's start back at two  
10 o'clock, Art Graham time. Let's take a recess.

11                   (Lunch recess taken.)

12                   (Transcript continues in sequence in Volume  
13 6.)

1 STATE OF FLORIDA )  
 : CERTIFICATE OF REPORTER  
2 COUNTY OF LEON )

3  
4 I, LINDA BOLES, CRR, RPR, Official Commission  
5 Reporter, do hereby certify that the foregoing  
6 proceeding was heard at the time and place herein  
7 stated.

8 IT IS FURTHER CERTIFIED that I stenographically  
9 reported the said proceedings; that the same has been  
10 transcribed under my direct supervision; and that this  
11 transcript constitutes a true transcription of my notes  
12 of said proceedings.

13 I FURTHER CERTIFY that I am not a relative, employee,  
14 attorney or counsel of any of the parties, nor am I a  
15 relative or employee of any of the parties' attorney or  
16 counsel connected with the action, nor am I financially  
17 interested in the action.

18 DATED THIS 2nd day of September, 2014.

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