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BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

In re: Nuclear cost recovery clause. DOCKET NO. 120009-EI

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VOLUME 4

Pages 467 through 731

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COMMISSION
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PROCEEDINGS: HEARING

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

DATE: Monday, September 10, 2012

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

REPORTED BY: LAURA MOUNTAIN, RPR
Wilkinson & Associates
(850) 224-0127

APPEARANCES: (As heretofore noted.)

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P R O C E E D I N G S

1
2 (The transcript follows in sequence from Volume 3.)

3 CHAIRMAN BRISE: We're going to go ahead and
4 reconvene at this time. We are at Commissioner
5 questions, and -- okay, Commissioner Brown?

6 COMMISSIONER BROWN: Thank you, and good morning --
7 good afternoon, Mr. Elnitsky. I only have two questions
8 for you. Regarding moving the COLA to late 2014, I know
9 we talked about that; how does that further shift the
10 in-service dates?

11 THE WITNESS: Good afternoon, Commissioner. That
12 currently would not have an impact on the updated
13 in-service dates of '24 and '25. The driver there is we
14 have to have that COLA in place before we do diaphragm
15 wall construction, which will be in about '18 on the
16 current schedule. So provided that we have that license
17 in place before that 2018 period, we have adequate time
18 to pursue the project for a 2024 in-service.

19 COMMISSIONER BROWN: Okay. And in your direct
20 testimony I think I read somewhere that the estimated
21 life of the leading units in your feasibility analysis
22 was 60 years?

23 THE WITNESS: That's correct.

24 COMMISSIONER BROWN: What is the typical life of a
25 nuclear power plant?

1 THE WITNESS: Currently they -- the current
2 operating fleet was licensed for 40 years and most
3 plants have been extended for 20 years beyond that to 60
4 years. There's even some discussion today about whether
5 another round of license extensions is reasonable or
6 even feasible to do for the existing fleet.

7 The Levy Plant, the AP1000 design is specifically
8 designed to be able to operate for 60 years. But per
9 the current license arrangement it would initially be
10 licensed at 40 years and then the expectation would be
11 you'd come in later for a license extension for that
12 next 20 years.

13 COMMISSIONER BROWN: So that's the basis for your
14 60 years?

15 THE WITNESS: Yes, ma'am.

16 COMMISSIONER BROWN: And then your depreciation
17 life, I think, you have as 40 years on your exhibit --

18 THE WITNESS: I think that's correct. I think
19 that's correct, yes, ma'am.

20 COMMISSIONER BROWN: Can you elaborate, the
21 distinction between 40 years and 60 years again?

22 THE WITNESS: For the depreciation or for the --

23 COMMISSIONER BROWN: The depreciation.

24 THE WITNESS: I think just from a modeling
25 perspective -- and I think, as I recall, it's the way

1 the strategist model works that we use in that
2 feasibility analysis. It actually is somewhat limited,
3 but we basically depreciate during a 40-year period just
4 because of some of the limits of the way that model
5 works.

6 COMMISSIONER BROWN: Okay, thank you.

7 THE WITNESS: Thank you, ma'am.

8 CHAIRMAN BRISE: Commissioner Balbis?

9 COMMISSIONER BALBIS: Thank you, Mr. Chairman. I
10 have a few questions. Welcome, Mr. Elnitsky.

11 THE WITNESS: Thank you, sir.

12 COMMISSIONER BALBIS: You answered a question from
13 Mr. Moyle that I'd like you to explain because I'm not
14 sure I heard you correctly, and it's concerning the
15 shelf life of a combined operating license.

16 Could you explain your answer again? Because I
17 think you answered there was no shelf life, and I just
18 want to make sure I know what that means.

19 THE WITNESS: Yes, sir, I'll be happy to.
20 Technically there is no shelf life on a combined
21 operating license. There is nothing in the rules right
22 now or the regulatory guides that says you can't have a
23 license and then basically set it aside for whatever
24 period of time you choose before you start construction.

25 What I will say is from a practical standpoint,

1 you know, it's likely that there may in the future be
2 some guidance that comes out from NRC around that. When
3 the Part 52 Rule was put in place, I don't think it was
4 envisioned that you would get these licenses and let
5 them sit for 20 or 30 years before you started
6 construction. I don't think that was their intent.

7 But technically -- and that's why I answered
8 Mr. Moyle the way I did -- technically there is no
9 current requirement that says at some period your
10 license is no longer valid.

11 COMMISSIONER BALBIS: Okay, thank you. And you
12 indicated in your testimony that the delay in the Levy
13 projects of a year was in the best interests of the
14 customers. Does this delay increase the project costs?
15 And if so, how much, if you can answer.

16 THE WITNESS: Yes, sir. So the delays -- maybe if
17 I can expand a little bit, the delays in the project in
18 general have increased the cost of the project but those
19 costs are primarily a result of escalation. So the
20 scope of work as we envision it and the elements that
21 would be part of the actual project haven't changed.

22 What has changed is what we have to assume for
23 escalation when you think about what are labor costs
24 going to be, commodity costs, et cetera, for a plant
25 that you don't start construction on now effectively

1 until 2016. That's substantially different than the
2 original plan.

3 In terms of the year, from what we testified to
4 last year to this year, last year we had a 2012
5 in-service. We had an expected case, and you may
6 remember from last year, we provided a band around that
7 based on a classified estimate. The expected case was
8 17.6 billion.

9 We went back to that estimate based on '24
10 in-service, recalculated our expectations around
11 escalation rates, and, again, what those things like
12 commodities and labor would cost us on a revised
13 schedule for 2024, and that now expected case is 18.8
14 billion. So there's a \$1.2 billion change as a result.

15 COMMISSIONER BALBIS: Okay. But those escalation
16 factors, those are true costs. I mean, you would expect
17 a project of the same scope, et cetera, constructed one
18 year later, you apply the escalation factor so the
19 customers will be paying \$1.2 billion more, or expect to
20 pay \$1.2 billion more, is that correct?

21 THE WITNESS: Yes, sir, those are true costs, but
22 just as we would expect, you know, anything we construct
23 in the future, there's going to be some escalation
24 factor that's going to have to be applied to those
25 costs.

1 COMMISSIONER BALBIS: So how would delaying the
2 project by one year and having the customers pay \$1.2
3 billion more be in their best interests?

4 THE WITNESS: Well, sir, it wasn't a one-year
5 delay, that was based on the three-year delay, from 2021
6 to 2024.

7 COMMISSIONER BALBIS: Okay. Well, then, the same
8 question with the three-year delay, then.

9 THE WITNESS: Well, and the rationale there, sir,
10 is when you look at the Levy project compared to the
11 alternative portfolio of an all gas type portfolio, when
12 we do that side-by-side comparison over the life of the
13 project, it's still to the benefit of the customers in
14 terms of the avoided fuel costs in the future.

15 But, you know, admittedly, it is an increased cost
16 to the customer on the front end to complete that
17 project.

18 COMMISSIONER BALBIS: But the project is cost
19 effective, correct?

20 THE WITNESS: Yes, sir, that's our assessment.

21 COMMISSIONER BALBIS: And it is still needed,
22 correct?

23 THE WITNESS: Yes, sir.

24 COMMISSIONER BALBIS: So, again, I'm struggling
25 with why delay a project that is needed and is cost

1 effective by three years when the result is a \$1.2
2 billion additional cost.

3 THE WITNESS: My best answer to that, sir, is that
4 that cost increase -- you know, when we looked at near
5 term economic conditions in Florida, when we looked at
6 what we were seeing in terms of our load growth, what we
7 were seeing in near term fuel and carbon costs, it did
8 not make sense to us to continue to proceed on that 2021
9 schedule, given those factors, as compared to the 2024
10 plan, and that was why the company made that decision
11 around delaying the project.

12 COMMISSIONER BALBIS: Well, were they based more --
13 the IPP, was it based more on the enterprise risk
14 factors?

15 THE WITNESS: Yes, sir, more on the enterprise risk
16 factors. Again, I described that in my testimony and in
17 the IPP, but if you look at those things in the near
18 term -- and somewhat consistent, then, with what we, you
19 know, provided as input from the project to the team
20 that was doing the settlement discussions, that just
21 seemed in the near term to be better for the customers,
22 even though we recognize that any time you delay a
23 project it does result in a cost increase. So, you
24 know, we looked at that very hard in terms of what was
25 the best near term actions to take.

1 COMMISSIONER BALBIS: But at some point, if, again,
2 every delay increases the cost, based on those factors,
3 I mean, at some point you could delay the project to
4 where it's no longer cost effective, is that correct?

5 THE WITNESS: I think it depends. And the reason
6 I say that is, again, it's a little bit of comparing to
7 what. So if we are not going forward with the Levy
8 nuclear project, there's some other base load generation
9 that would have to be constructed, whether that's part
10 of that all gas portfolio or something else.

11 And the fact is, those other generation sources
12 increase in their costs, as well. They're driven by the
13 same escalation factors that the nuclear plant is. So
14 what we really end up doing is a side-by-side comparison
15 of those two portfolios. And when you take that block
16 of time that the Levy Plant operates and you slide it
17 forward, you're looking at other alternatives in those
18 same windows, and their costs are going up, as well.

19 So, yes, every time you delay a project, in
20 general, it costs more. But I think you have to compare
21 that to what the alternatives are that you would
22 construct if you don't go forward with the Levy Project,
23 and that's what we do in that feasibility analysis
24 study.

25 COMMISSIONER BALBIS: Okay. Let me change gears a

1 little bit. In the executive summary of JE-1 --

2 THE WITNESS: Yes, sir.

3 COMMISSIONER BALBIS: -- and you don't have to
4 refer to it -- but basically the statement is made that
5 the cost effectiveness remains favorable in more cases
6 than not, and that is the determination, I guess, in
7 that IPP --

8 THE WITNESS: Yes, sir.

9 COMMISSIONER BALBIS: -- that it's cost effective.
10 At what point is it not cost effective? Is it when
11 there's more that are not favorable than favorable? Is
12 there a hard line cutoff where the company would decide
13 it's not cost effective?

14 THE WITNESS: You know, Commissioner, I think it's
15 hard to draw a hard line that says, you know, if it's
16 more or less, you know whatever the numbers are. I
17 think you have to, our assessment, look at that
18 feasibility analysis. What we're trying to do is
19 provide a range of potential future outcomes, whether
20 you believe a scenario that says fuel is not only low
21 but it's going to continue to go lower, or whether
22 you're at the other end of the spectrum in terms of high
23 fuel and high carbon.

24 We really think that somewhere in the middle is
25 probably where we end up; that you have some sort of mid

1 fuel case with some sort of carbon that we're going to
2 have in the future. So really we're trying to look at
3 all those cases and say is this really in the best
4 interest. And I don't think it's as simple as just
5 counting, because to some extent what you're saying is
6 for the benefits of fuel diversity are we willing to
7 take some amount of risk that maybe that fuel forecast
8 doesn't play out exactly the way we anticipated in the
9 CPVRR, or maybe the carbon doesn't.

10 But at the other end of the spectrum, if we move
11 forward with new nuclear, and, in fact, fuel prices do
12 go up and in fact we do have some amount of carbon, and
13 we do want to continue fuel diversity in Florida and we
14 do want to continue to reduce our dependence on fossil
15 fuels, then that's a good project to have.

16 So, again, we're trying to provide some context to
17 have that discussion, but I don't think it's as simple
18 as just saying, well, we're going to count boxes and,
19 you know, when more are unfavorable than not, then it's
20 not the right time to go forward, or that we shouldn't
21 go forward.

22 COMMISSIONER BALBIS: Okay, yeah, I just wanted you
23 to clarify that, because at least in the executive
24 summary that was the only justification, the cost
25 effectiveness, so I was just curious as to --

1 THE WITNESS: We use that in the executive summary
2 sort of to provide a context, but it's not, you know, if
3 you have nine it's good, if you have 20 -- it's not that
4 cut and dried.

5 COMMISSIONER BALBIS: Okay. And I just have a few
6 more, Mr. Chairman. There's also a comment made in
7 JE-1, page five, on how it's consistent with, quote,
8 Progress Energy's balance solution. With the Duke
9 merger, how does -- does Duke have a similar strategic
10 plan, if you will, and is this consistent with Duke's
11 plan?

12 THE WITNESS: Yes, sir, the best of my
13 understanding, it is still consistent. You know, Duke
14 Energy, as a whole, has talked about the need to have,
15 you know, alternate alternatives, you know, including
16 renewables, including efficiency programs, including new
17 nuclear and other new generation. So the language they
18 use is a little bit different, but I think the concept
19 of a balanced solution where you bring multiple things
20 to the table in terms of providing reliable and
21 affordable and increasingly clean energy for our
22 customers is part of their strategy -- part of our
23 strategy now, as well.

24 COMMISSIONER BALBIS: Okay. So I just want to make
25 sure that that statement still has relevance.

1 THE WITNESS: Yes, sir. Yes, sir.

2 COMMISSIONER BALBIS: Okay. And one more question
3 on the JE-1. And just talking about different
4 enterprise risks, which are more qualitative risks that
5 are listed in the IPP, have you factored in the new EPA
6 regulations, especially the carbon rule, which may limit
7 new coal facilities being constructed, and would that be
8 an increased enterprise risk or decreased enterprise
9 risk if you were to include it?

10 THE WITNESS: We have included that globally as
11 part of the concept of what does carbon legislation look
12 like going forward, and we've kind of watched what the
13 EPA has been trying to do around other regulations on
14 fossil plants as an indicator of what's going to be the
15 viability of those other fuel sources in the future.

16 In general, I would say, as you see increased
17 regulation around fossil fuel sources, it does tend to
18 improve the favorability of nuclear. But again, we've
19 sort of bucketed that in the broader category of is
20 there going to be a common strategy around carbon in
21 general.

22 COMMISSIONER BALBIS: Okay. And I guess the point
23 of my question is, you've used the fact that there isn't
24 a carbon tax, for example, as an elevated enterprise
25 risk that supports delaying the project until, I assume,

1 a carbon tax is put in place. But the EPA's proposed
2 rule is a clear limit on carbon production for
3 facilities, that coal facilities cannot meet that limit
4 without carbon sequestration, which in Florida has not
5 been demonstrated on that scale.

6 So being that those EPA rules came out pretty close
7 to the time of the filing, does that rule make nuclear
8 production in Florida more favorable or less favorable,
9 or more likely or less likely?

10 THE WITNESS: I would say in general it makes it
11 more favorable, more likely, and the way that that
12 manifested itself in the feasibility analysis is, you
13 know, we looked at what were going to be new generation
14 sources, what you start getting yourself cornered into
15 is you're either building a gas-based portfolio, which
16 is the only way to meet some of these new EPA
17 requirements, and retiring your older coal plants, or
18 you're building nuclear generation.

19 So that's why that CPVRR analysis, if you kind of
20 look through the register of plants that are
21 constructed, the only thing in the future in that
22 alternate portfolio are really gas-type plants. And
23 it's, again, back to that EPA constraints on coal
24 plants.

25 COMMISSIONER BALBIS: Okay. And then I just have

1 one question on JE-2, page 17.

2 THE WITNESS: Yes, sir.

3 COMMISSIONER BALBIS: In each of these scenarios it
4 shows Crystal River 3 being back in service on November,
5 2014, and then the uprate being completed in 2015.
6 Given the uncertainty of Crystal River, that obviously
7 the decision has not been made to repair versus retire,
8 how does that affect the strategic optimization
9 scenario?

10 THE WITNESS: Let me just make sure I'm -- which
11 scenario were you pointing at, sir?

12 COMMISSIONER BALBIS: All of them include --

13 THE WITNESS: Oh, all these.

14 COMMISSIONER BALBIS: -- CR3 coming back in
15 service. What happens if it doesn't come back into
16 service?

17 THE WITNESS: Well, there's -- you know, our
18 assessment is, really, as we think about not only
19 Crystal River 3 but also the impact of EPA rules around
20 maximum achievable toxicity standards on Crystal River 1
21 and 2, there is an impact there in terms of this
22 resource portfolio. So the resource portfolio that we
23 used in the feasibility analysis did, to your point,
24 assume that Crystal River 3 comes back in service, for
25 lack of an alternate decision at this point.

1 If it doesn't, then that generation either is
2 replaced with something else, a gas portfolio, or it's
3 replaced with a nuclear based portfolio. And again,
4 that's a decision that we'd have to evaluate at that
5 point, as well.

6 COMMISSIONER BALBIS: And I guess that may be the
7 point that I'm trying to make, is that there's a lot of
8 uncertainty with EPA MATS rules and other rules.
9 Crystal River 3, the decision has not been made. But
10 couldn't, theoretically, if Crystal River 3 is not
11 returned to service, obviously the uprate project can't
12 move forward, Crystal River 1 and 2 may be affected,
13 that the delay the Levy Units 1 and 2 maybe shouldn't
14 have been made?

15 THE WITNESS: I would say it this way: We have not
16 precluded the possibility of moving faster. What we
17 have said is a project -- you know, a program record or
18 project plan that has us marching to that 2024 plan,
19 there are potential to move that schedule back if, in
20 fact, some of these other factors, such as Crystal River
21 3, change.

22 There's other things that could drive that kind of
23 thought, too; if all of the sudden we saw a big change
24 in fuel prices or we saw some other regulation move
25 forward, I would think -- well, I don't think -- we

1 would as a company reevaluate whether we could move the
2 schedule faster.

3 To some extent, as we've described in Commissioner
4 Brown's question, there is a limitation from a licensing
5 perspective, but there is the capability to move the
6 project on a faster schedule, if that is ultimately what
7 is needed. So we haven't precluded that option, we've
8 just laid out, hey, here's a plan, because we have to
9 have a plan, and it's better to have that plan and
10 change it than to not have a plan at all. But it
11 doesn't preclude us from moving faster if we had to.

12 COMMISSIONER BALBIS: But if Progress or Duke or
13 whomever cancels the EPC contract, at some point you're
14 going to lose that ability to move faster, are you not?

15 THE WITNESS: Canceling the EPC contract doesn't,
16 in itself, preclude us from moving faster. It means
17 we've got to put another contract mechanism in place.
18 The reason we've kind of kept that cancellation path
19 viable is to preserve to some extent our ability to
20 negotiate more favorable terms.

21 By the time we would mobilize to the field in 2016,
22 we would have two plants completed in China, two AP1000
23 plants in China at the Sanmen site. We would be close
24 to completing the first Vogtle site. So we would like
25 to think, from a Duke Energy perspective, that we should

1 be able to get much better certainty around ultimate
2 project cost and move more portions of the project from
3 that time and material firm category into a fixed
4 category.

5 And that's why we thought keeping that option
6 available to cancel the contract, if we need to, and
7 renegotiate a new approach, is a good thing. And we'd
8 start that work, you know, as early as needed to support
9 the planned project schedule.

10 COMMISSIONER BALBIS: Okay. And then I think this
11 may be my last question, but you mentioned project costs
12 and cost estimates. And in the IPP you mentioned that
13 you're using a level five cost estimate, but I believe
14 you spent hundreds of millions of dollars in work in
15 obtaining the COLA, and why are you still using a level
16 five and not a more detailed cost estimate?

17 THE WITNESS: The reason for that is until we have
18 locked up -- in my mind, until we have locked up the
19 contract for full notice to proceed and we drive in some
20 of that certainty I was just talking about, from a
21 experience base from the other projects, I think there
22 is still some variability in that cost estimate, up and
23 down.

24 I mean, you'll notice that band, you know, has
25 gotten a little bit bigger from last year on the

1 negative side and the plus side. And because we're
2 still pretty far away from mobilization, you know, the
3 uncertainty associated with those things, like I talked
4 about, around labor rates and productivity rates and
5 some of these commodity costs, I think, is still there.

6 So although we have a good insight into the
7 project, we spent a lot of time doing bottoms-up
8 estimating, I think, just because we're still pretty far
9 in the future yet in terms of mobilization. I don't
10 feel comfortable yet saying it's a tighter band on that
11 cost estimate.

12 COMMISSIONER BALBIS: Okay, and I probably should
13 have started with this question, but were you involved
14 with the decision to delay the Levy projects by three
15 years?

16 THE WITNESS: Oh, yes, sir. Most definitely.

17 COMMISSIONER BALBIS: Okay, thank you. That's all
18 I have.

19 CHAIRMAN BRISE: All right. Then I think I may
20 have maybe one or two questions for you. There's been
21 some discussion about the COL and the shelf life and so
22 forth. My question is really is there any benefit to
23 the consumer to have the COL sort of on the shelf?

24 THE WITNESS: From the perspective of the
25 flexibility to move forward. You know, I kind of think

1 about it this way, Commissioner: We've been involved in
2 a very extensive front-end development effort for this
3 project. For a project of this scale and this size,
4 that's very necessary. It really drives ultimately the
5 success and certainty of the project as it goes forward.

6 And as you've seen over the couple of years here
7 now, there's things that continue to kind of perturbate
8 that plan to get to a license. So personally I think
9 having that license in hand is a real big risk
10 mitigator. It puts behind the regulatory uncertainty
11 associated with a final environmental impact statement
12 which we now have for the first greenfield site in the
13 country. It puts behind us the regulatory uncertainty
14 associated with the design of the AP1000. You know,
15 that's done. It really gives us a clear path to move
16 forward with the project, and, you know, we stay
17 committed to the plan we have, that is to do that.

18 If factors -- as we continue to evaluate and we
19 come in front of this Commission, if, you know, our
20 joint decision here is that the project shouldn't move
21 forward right now, I think that license still has value
22 for those same reasons. It then really just becomes a
23 question of when is the right time to go forward with
24 the project.

25 CHAIRMAN BRISE: You touched on the second issue,

1 the license having value. Let's say that at some point
2 down the road it becomes not a viable option. Who
3 benefits from the value? Does the consumer benefit from
4 the value?

5 THE WITNESS: You know, Commissioner, I'd say if
6 the project doesn't go forward, then that license,
7 unfortunately, doesn't have a lot of value in and of
8 itself. It really is about its connection to a project.
9 It provides an option in the future, potentially. But
10 without actually putting concrete and steel on the
11 ground that generates carbon-free electricity, then the
12 license, by itself, I would argue, is not in itself a
13 valuable asset other than that option it gives you to go
14 forward and construct.

15 CHAIRMAN BRISE: Would you agree that the license
16 is valuable on the market?

17 THE WITNESS: Yes, sir. Certainly the -- having a
18 greenfield site in a favorable location with good, you
19 know, good site characteristics, is a very valuable
20 commodity, I think, and certainly something that
21 potentially others would be interested in.

22 CHAIRMAN BRISE: Okay. So what I'm really trying
23 to get at is the investment that has been made by
24 consumers up to this point, is it a valuable investment
25 for the consumer just to have the option available?

1 THE WITNESS: Yes, sir, I think we think it is.

2 CHAIRMAN BRISE: Okay. Thank you. Any further
3 questions, Commissioners? Okay, seeing none, redirect?

4 REDIRECT EXAMINATION

5 BY MR. WALLS:

6 Q Very briefly. Mr. Elnitsky, do you recall the
7 question you were asked by Mr. Whitlock regarding the
8 customer rate impact in 2018?

9 A Yes, I do.

10 Q And I believe you indicated as part of your
11 response that the issue of customer rate impacts was a
12 company decision that would have to be made, right?

13 A I think the question was around levelization and
14 I said, yes, that's a decision to be made at a company level.

15 Q Okay. And can you tell the Commission who the
16 person is who could probably respond better on behalf of the
17 company today regarding customer rate impacts?

18 A I think Mr. Lyash can provide a good perspective
19 on that.

20 MR. WALLS: No further questions.

21 THE WITNESS: Not to put my boss on the spot.

22 CHAIRMAN BRISE: Exhibits.

23 MR. WALLS: Yes, we would move in evidence
24 Mr. Elnitsky's Exhibits JE-1 through JE-7 as Exhibits 10
25 through 16 of Staff's comprehensive exhibit list.

1 CHAIRMAN BRISE: Okay, seeing no objections, we'll
2 move in Exhibits 10 through 16.

3 (Exhibits 10 through 16 admitted in evidence.)

4 MS. BENNETT: I believe SACE had several exhibits,
5 117, 125, and 126?

6 MR. WHITLOCK: That's correct, Mr. Chairman. We'd
7 move those at this time.

8 CHAIRMAN BRISE: Okay, seeing no objections, we
9 will move in 117, 125 and 126.

10 (Exhibits 117, 125 and 126 admitted in evidence.)

11 MS. BENNETT: And Mr. Chairman, as a matter of
12 oversight, we forgot to admit some of Staff's exhibits
13 into the record. At this time I would ask -- these have
14 been stipulated by the parties. For the Progress side
15 we would ask that Exhibits 28, 29 and 30 be moved into
16 the record.

17 CHAIRMAN BRISE: Okay, at this time, seeing no
18 objections, we will move into the record -- what were
19 those numbers again?

20 MS. BENNETT: 28, 29 and 30.

21 CHAIRMAN BRISE: 28, 29, and 30 into the record.

22 MS. BENNETT: Thank you.

23 (Exhibits 28, 29 and 30 admitted in evidence.)

24 CHAIRMAN BRISE: Okay. Are there any other
25 exhibits that need to be moved in associated to this

1 witness or at this point? Okay, seeing none --

2 MR. WALLS: Mr. Chairman, we'd like to ask if
3 Mr. Elnitsky can be excused from the proceeding. He has
4 no rebuttal testimony.

5 CHAIRMAN BRISE: Okay, Mr. Elnitsky, we will excuse
6 you from the hearing.

7 THE WITNESS: Thank you, sir.

8 MR. WALLS: And at this time we'll call Mr. Lyash.
9 Thereupon,

10 JEFF LYASH

11 was called as a witness on behalf of Progress Energy Florida,
12 Inc., having been previously duly sworn, testified as
13 follows:

14 DIRECT EXAMINATION

15 BY MR. WALLS:

16 Q Would you please introduce yourself to the
17 Commission and provide your business address.

18 A Yes, my name is Jeff Lyash. My business address
19 is 550 South Tryon Street, Charlotte, North Carolina.

20 Q And have you already been sworn as a witness?

21 A I have.

22 Q And who did you work for and what was your
23 position at the time you filed your prefiled direct testimony
24 in April of 2012?

25 A I was employed by Progress Energy and my position

1 was Executive Vice-President of Energy Supply.

2 Q And has your title or position changed since the
3 merger with Duke Energy?

4 A No, it has not.

5 Q Have your job responsibilities with respect to the
6 Levy Nuclear Project stayed the same or have they changed
7 since the merger?

8 A They've remained the same.

9 Q And have you filed prefiled direct testimony on
10 April 30th of 2012 in this proceeding?

11 A I have.

12 Q And do you have that with you?

13 A I do.

14 Q Do you have any changes to make to your testimony?

15 A Yes, I'd like to raise just one item, and it's on
16 page 11 of the testimony, and it's identical to the issue
17 raised by Mr. Elnitsky, and that is that in my testimony I
18 state 2013 as the COL issuance for Levy, and we now view that
19 as not likely. It is likely 2014 is the correct date.

20 Q Other than that change, Mr. Lyash, if I ask you
21 the same questions asked in your prefiled direct testimony
22 today, would you give the same answers?

23 A I would.

24 MR. WALLS: We request that the April 30th, 2012
25 prefiled direct testimony of Mr. Lyash be moved in

1 evidence as if it was read in the record today.

2 CHAIRMAN BRISE: Okay, we will move Mr. Lyash's
3 direct filed testimony into the record as though read.
4 (Whereupon, the prefiled testimony was inserted.)

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IN RE: NUCLEAR COST RECOVERY CLAUSE**BY PROGRESS ENERGY FLORIDA****FPSC DOCKET NO. 120009-EI****DIRECT TESTIMONY OF JEFF LYASH**1 **I. INTRODUCTION AND QUALIFICATIONS.**2 **Q. Please state your name and business address.**3 A. My name is Jeff Lyash. My business address is 410 South Wilmington Street,
4 Raleigh, North Carolina, 27601.

5

6 **Q. By whom are you employed and in what capacity?**7 A. I am currently employed by Progress Energy, Inc. ("Progress Energy") as the
8 Executive Vice President-Energy Supply. I assumed my current position on June 1,
9 2010. Prior to this appointment, I was employed by Progress Energy as the Executive
10 Vice President of Corporate Development. I also held the position of President and
11 Chief Executive Officer ("CEO") of Progress Energy Florida, Inc. ("PEF" or the
12 "Company") from 2006 until July 6, 2009. In this role, I had overall responsibility for
13 the operations of PEF.
14
15
16

1 **Q. What is your role with respect to the development of the Levy nuclear power**
2 **plants?**

3 A. As the Executive Vice President-Energy Supply for Progress Energy, I have senior
4 management oversight responsibility for the Levy nuclear power plant project
5 (“LNP”) and program. The LNP program oversight and enterprise governance charter
6 provides program execution oversight, including ongoing review of performance and
7 decision making on the LNP. John Elnitsky, as Vice President- New Generation
8 Programs and Projects (“NGPP”), leads the Levy Nuclear Power Plant Project and
9 quarterly Levy Program Performance Reviews. The Levy Program Performance
10 Review includes the following functional areas with respect to the LNP: transmission
11 planning; finance; regulatory; external relations; communications; and nuclear
12 operations, safety, and quality. In terms of this governance and execution oversight
13 role, John Elnitsky continues to report to me as the Executive Sponsor of the Levy
14 Program. As a result, I have direct line accountability for the LNP development.
15 Also, I am a member of the Senior Management Committee (“SMC”), which has
16 senior management responsibility for the LNP. I have briefed the SMC and
17 participated in the SMC’s decisions with respect to the LNP, and I have briefed the
18 Progress Energy Board regarding the LNP.

19
20 **Q. Please describe your educational background and professional experience.**

21 A. I graduated with a bachelor’s degree in mechanical engineering from Drexel
22 University in 1984. Prior to joining Progress Energy, I worked with the Nuclear
23 Regulatory Commission (“NRC”) in a number of capacities. While with the NRC, I

1 served as a senior resident inspector, a project manager, a project engineer, and a
2 section chief. In 1993, I joined Progress Energy, and spent eight years at the
3 Brunswick Nuclear Plant in Southport, North Carolina, ultimately becoming Director
4 of Site Operations. In January 2002, I assumed the position of Vice President of
5 Transmission/Energy Delivery in the Carolinas. On November 1, 2003, I was
6 promoted to Senior Vice President of Energy Delivery-Florida. On June 1, 2006, I
7 was promoted to President and CEO of PEF. On July 6, 2009, I was appointed the
8 Executive Vice President of Corporate Development for Progress Energy. As I
9 indicated above, I assumed my current position as the Executive Vice President-
10 Energy Supply on June 1, 2010, which is the position I currently hold.

11
12 **II. PURPOSE AND SUMMARY OF DIRECT TESTIMONY.**

13 **Q. Can you explain the purpose of your direct testimony and summarize it for the**
14 **Commission?**

15 **A.** Yes. The purpose of my direct testimony is to explain the Company's decision to shift
16 the expected in-service dates for the Levy nuclear power plants to 2024 and 2025.
17 This decision was made by the SMC. This decision reflects the Company's prudent
18 management of the LNP in the best interests of the Company and its customers.

19 The decision to shift the executed in-service dates for Levy Unit 1 to 2024 and
20 Levy Unit 2 to 2025 mitigates the current uncertainty and increased near term
21 enterprise risks while preserving the long-term benefits of nuclear energy generation
22 for PEF, its customers, and the State of Florida. This decision provides additional
23 time for Florida economic conditions to improve for PEF and its customers, for natural

1 gas demand and supply to align in fuel markets, and for more certainty with respect to
2 environmental emission costs, including carbon costs, as a result of developing energy
3 and environmental legislation and regulation, before PEF must decide to commence
4 construction of the LNP. There is no fundamental change in these enterprise risks that
5 prevent this risk mitigation strategy from being successful. The LNP remains the
6 preferred future base load generation resource decision for the Company. The
7 Company still intends to build the LNP and place the Levy nuclear power plants in
8 service in 2024 and 2025.

9
10 **III. PRUDENCE OF PEF MANAGEMENT LNP IMPLEMENTATION DECISION.**

11 **Q. Did the Company make a decision this year that affects implementation of the**
12 **LNP?**

13 A. Yes. The Company decided to place the Levy nuclear units in service in 2024 and
14 2025. This decision means that the Company will continue work to obtain the
15 Combined Operating License (“COL”) from the NRC for the LNP, but the Company
16 will not commence construction of the LNP next year. Instead, the Company will
17 continue with work on the LNP to commence construction in time to place the first
18 Levy nuclear unit in service in 2024 and the second Levy unit in service eighteen-
19 months later, in 2025. This is the best project implementation decision for PEF and its
20 customers and retains the flexibility to commence construction earlier if enterprise
21 risks and economic conditions warrant.

1 **Q. Why is this decision the best LNP implementation decision for PEF's customers?**

2 A. Completion of the LNP will still furnish the Company and its customers the long term
3 benefits that additional base load nuclear generation provides. The LNP will provide
4 customers long-term fuel savings benefits from a relatively low-cost, fuel source.
5 Nuclear is still the lowest cost fuel source to produce electrical energy, even now with
6 historically low natural gas prices in the utility industry. Nuclear is a clean emission
7 fuel source. The production of energy from the LNP will always be essentially carbon
8 free energy generation. The LNP will also enhance fuel diversity for the Company
9 and the State of Florida. Fuel portfolio diversity will always be a long term benefit of
10 the LNP. The addition of the LNP to PEF's system will reduce PEF's reliance on
11 fossil fuels, especially fossil fuels from foreign sources, for energy production. The
12 reduction in the reliance on fossil fuels for energy generation will always be a benefit
13 for PEF and the State. The LNP will further provide PEF and its customers
14 unparalleled base load energy generation. These long-term benefits of nuclear
15 generation still exist for PEF, its customers, and the State of Florida. There has been
16 no fundamental change in the benefits of nuclear generation.

17 Also, completion of the LNP is still feasible, whether the Company
18 commences construction of the LNP next year or decides, as it did at this time to
19 commence construction later, in order to complete the Levy nuclear units in 2024 and
20 2025. From both a qualitative and quantitative feasibility perspective, as explained in
21 detail in Mr. Elnitsky's direct testimony in this proceeding, the Company can
22 complete the LNP.

1 Near term, however, there is greater uncertainty and, therefore, increased near
2 term enterprise risks associated with the commencement of construction of the LNP
3 next year. Florida economic conditions for customers and the Company have not
4 significantly improved, near term natural gas prices reflect these economic and current
5 over supply conditions, and the economic conditions affect the near term development
6 of clear legislative climate control and greenhouse gas (“GHG”) emission policy and
7 regulation at the federal and state government levels. These circumstances represent
8 greater near term uncertainty and, thus, increased enterprise risk with the
9 commencement of construction of the LNP next year.

10 Under such circumstances, prudent project management requires a strategy to
11 mitigate the increased near term enterprise risks. The only meaningful way for the
12 Company to mitigate the increased near term uncertainty and enterprise risks is to
13 extend the time to commence construction of the LNP. This decision provides the
14 Company additional time prior to commencement of construction for economic
15 conditions in Florida to improve for PEF’s customers and the Company, for natural
16 gas markets to respond to current over supply conditions, and for energy and
17 environmental legislative and regulatory policy to develop with respect to climate
18 control and GHG emissions.

19
20 **Q. When will the Company commence construction of the LNP?**

21 **A.** One of the benefits of the Company’s decision to build the LNP later is that the
22 decision provides the Company the near term flexibility to determine the best time to
23 commence construction. The Company has the flexibility to advance construction if

1 near term uncertainty improves and the enterprise risks diminish. The Company also
2 has the flexibility to extend the construction date until sometime later in order to
3 complete the LNP by 2024 and 2025.
4

5 **Q. Does the Company expect the current uncertainty and increased enterprise risks**
6 **associated with the development of new nuclear generation to change?**

7 A. Yes. Continued uncertainty and thus increased enterprise risks over the long term
8 evaluation period for new nuclear generation realistically cannot be expected. We
9 emphasized when we petitioned this Commission for the need determination for the
10 LNP that this was a long-term project, requiring up to a decade to site, license, design,
11 engineer, and construct two base load nuclear power plants, that will generate
12 electrical energy for PEF and its customers for an estimated sixty years. The
13 Company takes into account the long-term nature of this project when it makes
14 management decisions affecting implementation of the LNP. Near term uncertainty
15 and increased enterprise risk must be evaluated in light of the time it takes to develop,
16 construct, and operate the LNP.

17 The current uncertainty and increased near term enterprise risks associated
18 with the LNP cannot realistically be expected to continue over the extended period of
19 time required to build and operate the LNP. Economic conditions in Florida will not
20 remain stagnant forever, but must begin to improve, as they nascent appear to be doing
21 now. Natural gas prices cannot remain depressed. Near term, historic low natural gas
22 prices will increase as suppliers and purchasers in the market respond to the historic
23 low prices resulting from low demand and oversupply and capacity storage conditions.

1 The market response to current gas prices will lead to higher demand, diminished
2 oversupply, and reduced storage conditions and, thus, higher, long term natural gas
3 prices. Eventually too, there must be increased certainty in energy and environmental
4 legislative and regulatory policy. Some form of legislation or regulation of fossil fuel
5 emissions that benefits nuclear generation is inevitable. The current trend and pace of
6 regulation in fact is toward more, not less, constraints on fossil fuel emissions and,
7 thus, increased costs to generate electrical energy with fossil fuels.

8 For all these reasons, the Company reasonably believes that there is no long
9 term fundamental shift in the enterprise risks associated with the development of new
10 nuclear generation in Florida. The current uncertainty and increased enterprise risks
11 reflect transient economic and fuel market conditions and a transitional period in the
12 economy and energy and environmental policy. Current economic and fuel market
13 conditions will change, economic growth will return, and uncertain environmental
14 policy affecting generation decisions in the utility industry will end. For these
15 reasons, over the long-term, the Company expects economic and fuel market
16 conditions and energy and environmental policy to favor the development of new
17 nuclear generation in Florida.

18
19 **Q. Is the Company still committed to the development of new nuclear generation?**

20 **A.** Yes. The development of new nuclear generation is part of the Company's Balanced
21 Solution Strategy. Our Balanced Solution Strategy is a comprehensive plan to change
22 the way we generate electrical energy and meet our customers' future energy
23 demands. This is a three-pronged corporate strategy designed to deliver reliable,

1 clean, and affordable power to our customers in the future. The corporate strategy
2 includes the development of energy efficiency and Demand-Side Management
3 Programs, the development of alternative and renewable energy, and the development
4 of a state-of-the-art power system to meet future customer energy demands.

5 Nuclear generation is a key component of our strategy to develop a state-of-
6 the-art power system. The cost to produce energy from power plants using fossil fuels
7 is increasing for the Company and our customers. Electrical energy generation from
8 fossil fuels faces growing emission regulations. The Environmental Protection
9 Agency ("EPA") has issued increasingly stringent regulations to reduce nitrous oxide
10 ("NOx"), sulfur dioxide ("SO2"), mercury, and particulate emissions from fossil-
11 fueled power plants. These regulations adversely impact the cost to produce electrical
12 energy from power plants using fossil fuels. The Company must install emissions
13 controls and continue to invest in fleet modernization projects to meet the current and
14 expanding emission regulations. Additionally, all fossil-fuel power plants emit GHG,
15 including carbon. Today, nuclear energy generation is the only technology capable of
16 producing carbon-free electricity on a utility scale, twenty-four hours a day, for
17 continuous, base load operation. Nuclear power plants also produce electrical energy
18 without NOx, SO2, mercury, particulate or any other emissions associated with the
19 production of energy from fossil-fueled power plants. For these reasons, nuclear
20 energy generation is an important element of our Balanced Solution Strategy.

21 Under our Balanced Solution Strategy, the LNP is the Company's preferred
22 future base load generation resource in its future generation resource plan. The
23 Company's current LNP implementation decision does not change the Company's

1 preference for the LNP in its future resource plan. The Company still intends to build
2 the LNP. The Company simply plans to build the LNP later by shifting the expected
3 in-service dates for the Levy nuclear power plants to 2024 and 2025.
4

5 **Q. Does the development of new nuclear generation still benefit the State of Florida?**

6 A. Yes, it does. The long-term benefits of nuclear generation were recognized by the
7 Florida Legislature. The Commission was specifically required to consider these
8 benefits -- fuel portfolio diversity, reduced reliance on fossil fuels and fossil fuels
9 from foreign sources, reduced air emission compliance costs, and long-term, electric
10 grid reliability -- in need determinations for nuclear power plants. These benefits are
11 the reason the Florida Legislature wanted to encourage utility investment in nuclear
12 power plants. The alternative cost recovery provisions for nuclear power plant costs
13 were established to encourage utility investment in nuclear power plants to achieve
14 these benefits for the State and its residents. The legislative policy has not changed.
15 The Florida Legislature remains committed to the legislation recognizing the long-
16 term benefits of new nuclear generation in Florida for the benefit of the State and its
17 residents.
18

19 **Q. What was the status of the LNP when PEF made its current implementation**
20 **decision?**

21 A. The Company focused LNP work on obtaining the COL for the LNP from the NRC
22 after its decision in 2010 to proceed with the LNP on a slower pace. This 2010
23 decision continued the project by extending the partial suspension that was

1 implemented when the NRC did not issue the Limited Work Authorization (“LWA”)
2 for the LNP in 2009. The Company extended the partial suspension of the
3 Engineering, Procurement, and Construction (“EPC”) Agreement for the LNP through
4 an amendment to the EPC Agreement that focused work on obtaining the LNP COL.
5 The Commission agreed this decision was reasonable in Order No. PSC-11-0095-
6 FOF-EI in Docket No. 100009-EI. As a result of this decision, the Company planned
7 to commence construction of the LNP after the licensing of the Levy nuclear power
8 plants is complete.

9
10 **Q. Does the Company still expect to complete the licensing of the LNP in 2013?**

11 **A.** Yes. The Company expects to obtain the LNP COL from the NRC in the second
12 quarter of 2013. There is no reason to believe that the Company will not receive the
13 COL for the LNP from the NRC. The NRC has nearly completed all three parts to the
14 NRC’s review of the LNP Combined Operating License Application (“COLA”).
15 These parts are the environmental review, the safety review, and the hearing process.
16 With respect to the environmental review, the LNP draft environmental impact
17 statement (“DEIS”) was issued, the public comment period has concluded, and the
18 NRC has completed its review of the public comments to the LNP DEIS. PEF also
19 completed its responses to U.S. Army Corps of Engineers (“USACE”) information
20 requests for the USACE review for the final environmental impact statement
21 (“FEIS”). The LNP FEIS is expected to be issued on April 27, 2012.

22 The NRC Staff completed its safety review of the LNP COLA when the NRC
23 Staff issued its Advanced Safety Evaluation Report (“ASER”) with no open items in

1 September 2011. The Advisory Committee on Reactor Safeguards (“ACRS”)
2 completed its review of the ASER early this year. Upon completion of the ASER
3 review and report all that remains to complete the safety review for the LNP COLA is
4 the NRC review and issuance of the Final Safety Evaluation Report (“FSER”).
5 Issuance of the LNP FSER is expected by September 2012.

6 The NRC will also complete the formal hearing process for the LNP COLA
7 this year. This is the last step prior to the NRC’s issuance of the LNP COL. There is
8 a contested hearing process before the NRC’s Atomic Safety Licensing Board
9 (“ASLB”) to resolve the one remaining contention at issue in the LNP COLA. All
10 other admitted contentions have been dismissed by the ASLB. The ASLB hearing is
11 scheduled for October of 2012. There is also a mandatory hearing before the NRC
12 that focuses on the adequacy of the NRC Staff review of the LNP COLA. This
13 mandatory hearing process also will be conducted later this year, possibly extending
14 into early 2013. The completion of this hearing process will complete the NRC’s LNP
15 COLA review. The Company still expects the NRC to issue the LNP COL in the
16 second quarter of 2013.

17
18 **Q. Does the Fukushima event in Japan last year cast doubt on the NRC’s expected**
19 **issuance of the COL for the LNP?**

20 **A.** No. The Fukushima events in Japan delayed issuance of the LNP FSER from April to
21 later this year to allow time for the Company to address the Fukushima Near Term
22 Task Force recommendations in the LNP COLA, but we do not expect the
23 incorporation of these recommendations into the LNP COLA to adversely impact the

1 FSER for the LNP or the LNP COL. The impact of these recommendations on the
2 LNP COLA is explained in more detail in Mr. Elnitsky's direct testimony in this
3 proceeding; however, the Company expects to address these recommendations in a
4 timely fashion to permit the NRC to issue the FSER in September and the LNP COL
5 in the second quarter of 2013. Addressing these task force recommendations is just a
6 natural extension of the Company's consistent practice of incorporating operating
7 experience ("OE") from around the world into the Company's best practices. The
8 Company has already taken steps to incorporate the OE from the Fukushima events in
9 Japan last year in the management and operation of its existing and planned nuclear
10 power units. The incorporation of the Fukushima Near Term Task Force
11 recommendations is just another step in this on-going process. We fully expect to
12 incorporate these recommendations into the LNP COLA to the NRC's satisfaction and
13 to obtain the LNP COL from the NRC next year.

14
15 **Q. Why are you confident that the NRC will issue the LNP COL next year?**

16 **A.** The NRC did not abandon or delay the NRC's AP1000 license reviews as a result of
17 the Fukushima event in Japan last year. The Fukushima Near Term Task Force did
18 not recommend that the NRC abandon or delay its on-going AP1000 license reviews.
19 The incorporation of lessons learned from the Fukushima event last year and the
20 continuing OE at the affected Japanese nuclear reactors since that event occurred is
21 already an essential aspect of the NRC's regulatory review of the existing and planned
22 nuclear power plants in the United States and the nuclear industry's best practices. As
23 a result, there was no reason for the NRC to abandon or delay its AP1000 license

1 reviews. In fact, the NRC completed the AP1000 Design Control Document (“DCD”)
2 review and issued the final rule approving the AP1000 nuclear reactor design in
3 December last year, subsequent to the Fukushima event in Japan. The NRC also
4 issued the reference COL for the Georgia Power Vogtle AP1000 nuclear power plant
5 site and the COL for the SCANA V.C. Summer nuclear power plant site early this
6 year. Additionally, the NRC is continuing its review of the LNP COLA with the
7 issuance of the LNP FEIS expected to be completed this April, the planned issuance of
8 the FSER in September 2012, and the planned hearing process scheduled for this year.
9 This is an expected result of the existing NRC regulatory process for the U.S. nuclear
10 power industry. There is no reason to think that the OE from the Fukushima event and
11 the task force recommendations will not be successfully incorporated into the LNP
12 COLA and that the NRC will complete its review and issue the LNP COL next year.

13
14 **Q. If the Company still expects to obtain the NRC license for the LNP in 2013 why**
15 **has the Company decided not to commence construction of the LNP next year?**

16 **A.** The ability to obtain the LNP COL is just one factor in the Company’s decision to
17 commence construction of the LNP. As I explained above, other factors must be
18 considered in the exercise of the Company’s management judgment of the best course
19 of action on the LNP for the Company’s customers and the Company. Among these
20 factors are the qualitative and quantitative enterprise risk factors employed each year
21 by the Company to determine if completion of the Levy nuclear power plants is
22 feasible. The ability of the Company to license the LNP is just one of the qualitative
23 enterprise risk factors. Other qualitative enterprise risk factors must be evaluated as

1 well to determine if it is feasible to build the LNP and to further determine the best
2 implementation schedule if it is feasible. This requires the Company to consider both
3 the short- and long-term costs and benefits of nuclear generation. The Company must
4 evaluate all these factors to determine the best implementation of the LNP for the
5 Company and its customers. This year, the Company concluded as a result of this
6 evaluation that the commencement of construction of the LNP next year is not in the
7 best interests of the Company and its customers. The Company's judgment is that the
8 Company should build the LNP, but later, with a projected in-service date for the Levy
9 nuclear units in 2024 and 2025.

10
11 **Q. What must Company management do to implement its decision?**

12 A. The Company does not need to take any immediate management action to implement
13 its decision. As I explained above, there currently is a partial suspension of the EPC
14 Agreement until the LNP COL is obtained from the NRC. As I also explained above,
15 the LNP COL is not expected until the second quarter of next year. As a result, the
16 Company does not need to take any action at this time to implement its decision. The
17 Company will continue with the work necessary to obtain the LNP COL this year and
18 next year and the Company will continue to evaluate the project to determine at what
19 point it should commence construction of the LNP.

1 **IV. CONCLUSION.**

2 **Q. Do you believe the decision to build the LNP later, with in-service dates for the**
3 **Levy nuclear units in 2024 and 2025, is a prudent Company decision?**

4 A. Yes. For all the reasons explained in my direct testimony, the Company's decision
5 mitigates the near term uncertainty and increased enterprise risks associated with
6 commencement of LNP construction next year while at the same time preserving the
7 long-term benefits of nuclear generation for the Company, its customers, and the State
8 of Florida. The LNP will provide PEF and its customers fuel savings benefits from a
9 relatively low cost fuel source, and reliable, around-the-clock, base load energy
10 generation without the operational and environmental costs associated with fossil-fuel
11 energy generation. The LNP will enhance fuel portfolio diversity for the Company
12 and the State and it will reduce reliance by the Company and the State on fossil fuels,
13 especially from foreign sources, for electrical energy generation. The LNP is a clean
14 source of energy generation for PEF and its customers. As a result, the LNP is an
15 important element of the Company's Balanced Solution strategic plan to deliver
16 reliable, clean, and affordable power to the Company's customers in the future. The
17 Company intends to build the LNP and plans to build the Levy nuclear power units
18 and expects to place them in service in 2024 and 2025.

19
20 **Q. Does this conclude your testimony?**

21 A. Yes.
22

1 By MR. WALLS:

2 Q Mr. Lyash, do you have a summary of your prefiled
3 direct testimony?

4 A Yes, I do.

5 Q And will you provide the Commission the summary at
6 this time?

7 A I will. Good afternoon, Commissioners. My direct
8 testimony explains the company's decision to build the Levy
9 Nuclear Power Plants and place them in service in 2024 and
10 2025. I'm here to answer any questions you may have
11 regarding this decision and the Levy Nuclear Plant. That
12 concludes my opening remarks.

13 MR. WALLS: We tender Mr. Lyash for cross.

14 CHAIRMAN BRISE: Okay, OPC?

15 MR. REHWINKEL: Mr. Chairman, as with the prior
16 witness, with respect to the settlement agreement, we
17 have no cross.

18 CHAIRMAN BRISE: Okay. Mr. Brew?

19 MR. BREW: Mr. Chairman, PCS has no questions for
20 this witness.

21 CHAIRMAN BRISE: Okay. Mr. Moyle?

22 MR. MOYLE: We have questions on behalf of FIPUG.

23 CROSS EXAMINATION

24 BY MR. MOYLE:

25 Q Good afternoon, Mr. Lyash.

1 A Good afternoon, Mr. Moyle.

2 Q Just one brief point, I guess, so that the record
3 is completely clear on the correction that was made on your
4 testimony on page 11, line 11. It should now read the
5 company expects to obtain the LNP COL from the NRC in the
6 fourth quarter of 2014?

7 A I would say late 2014. It's not clear whether it
8 would be third or fourth quarter, but if I take the Staff
9 requirements memorandum from the Commission at its face and
10 presume the Staff comes in at but not ahead of the two-year
11 window, then I would expect third or fourth quarter.

12 Q Okay. And I want to just ask you some general
13 questions. You're in the senior management team at -- you
14 were at Progress and you're in the senior management team at
15 Duke, correct?

16 A Yes.

17 Q And the senior management team is the team that
18 ultimately made the decision to suspend or delay or defer the
19 Levy Project for the three years that we've talked about with
20 Mr. Elnitsky, correct?

21 A Yes, in consultation with our Board of Directors.

22 Q Okay. The shelf life issue has been discussed,
23 and I had a follow-up related to that as it relates to the
24 license. If you get the license, do you have an
25 understanding as to whether additional requirements that the

1 NRC or others may impose would be required to be met if you
2 had that license on the shelf or would you be grandfathered
3 in, or do you know?

4 A Yes, I can provide some general information on
5 this. Nuclear license lives are typically or kind of
6 legislatively beginning at 40 years with the provision to
7 extend them in 20-year increments. The AP1000 is a 60-year
8 design. Once the license is issued, there is no specific
9 provision for it to sunset. The term used is shelf life. In
10 that context it has an indefinite shelf life.

11 Although the license must be maintained, which
12 means as regulations change the Commission would evaluate
13 whether those regulations should be applied in some way to
14 existing licenses and license holders, and then the Levy
15 license would need to be evaluated and amended, if necessary,
16 to maintain it current with the -- with the continuing
17 regulation of operating reactors.

18 Q Okay, and you --

19 A But its fundamental design and licensing basis
20 would have been set at the point of issuance.

21 Q Okay. And you worked at the NRC for a number of
22 years, isn't that right?

23 A That's correct.

24 Q So if I understood your answer, it would be that,
25 no, it's not grandfathered in, but that to keep it current,

1 to the extent that additional regulations are put in place,
2 you would have to evaluate and more likely than not meet the
3 additional requirements; is that fair?

4 A Yes, if they were applicable to that specific
5 design they would need to be evaluated and incorporated.

6 Q Okay. And then Mr. Elnitsky was asked some
7 questions about the value of a license. Do you agree that
8 the license would have market value, even if Progress Energy
9 decided not to move forward with the Levy Project?

10 A Yes, I agree. The prime value -- I also agree
11 with Mr. Elnitsky's statement that the prime value here is
12 acting on the license and constructing the plant so that you
13 can begin to garner the fuel savings and environmental
14 benefits of the plant.

15 If circumstances arose where you obtained the
16 license and didn't proceed immediately to construction, I
17 believe it has value in terms of providing a more rapid path
18 forward, if circumstances were to change in that instance,
19 and drive you toward construction.

20 Licenses are generally transferable, as property
21 is, so it's conceivable that the project could be sold or
22 transferred, although I don't want to go too far down that
23 path because it's not something we've looked at very
24 specifically or deliberately.

25 Q Are you aware of anywhere in the nuclear

1 environment currently whether anyone is looking at doing
2 merchant nuclear facilities?

3 A I am not.

4 Q And that potentially would be one way in which a
5 license would have value, if you transferred it to a third
6 party, either a merchant or another investor-owned utility,
7 is that correct?

8 A That would be one way, yes.

9 Q And in terms of the Levy Project, you make a
10 comment on page five, line nine -- I just have some questions
11 related to fuel diversity.

12 Let me just read it to you for the record: Fuel
13 portfolio diversity will always be a long-term benefit of the
14 LNP. The addition of the LNP to PEF's system will reduce
15 PEF's reliance on fossil fuels, especially fossil fuels from
16 foreign sources for energy production. Right?

17 A I see that, yes.

18 Q Okay. Currently Progress doesn't make use of many
19 fuels from foreign sources, if you define foreign as outside
20 the United States, is that right?

21 A We use oil and coal and from time to time some of
22 those supplies do come internationally. For example, we have
23 imported Venezuelan coal to our Crystal River facilities for
24 consumption there in the past.

25 Q If you had to just ballpark it with respect to the

1 percentage of fuel that comes in from, you know, outside of
2 the country, could you do that for me?

3 A No, I wouldn't want to venture a guess at that
4 presently.

5 Q But currently most of your fleet is natural gas
6 fired, is that correct?

7 A Were you asking about our fleet or Progress
8 domestically?

9 Q Progress.

10 A Okay, I'm sorry, I didn't hear -- I didn't know
11 you were being that specific. It's a relatively small
12 percentage in the present -- the present time.

13 Q Okay, we may be talking past each other. You
14 were -- the question -- I was asking you about ballparking
15 the percentage of fuel coming in from foreign sources as it
16 relates to Progress, and you said it's not a big percentage,
17 is that right?

18 A It's a very small percentage presently, yes.

19 Q Okay. And then I moved on and asked you with
20 respect -- I want to ask you some questions about portfolio
21 diversity. And I guess you would agree that one of the
22 selling points of Levy is that it would provide a fuel
23 diversity, is that correct?

24 A Yes, Levy would provide significant fuel
25 diversity.

1 Q Okay. And as we sit here today, can you -- again,
2 not to, you know, the decimal point level, but just generally
3 describe the generation mix of the Progress portfolio.

4 A Well, if I look forward to 2014, my estimate right
5 now is that 70 percent of the megawatt hours generated by
6 Progress Energy Florida in '13 will come from natural gas.
7 The remainder of that, absent Crystal River 3, comes from a
8 combination of coal and oil.

9 Q And do you know if you are the most dependent
10 investor-owned utility on natural gas in the state or not?

11 A I'm not comfortable citing numbers to you. I
12 think we are -- Progress Energy Florida is highly dependent
13 on natural gas, as is Florida Power & Light. I'm not up to
14 date on their specific number.

15 Q Okay. And with respect to fuel diversity, are you
16 aware of any study or metric or any intellectual academic
17 information that speaks to the level of diversity with
18 respect to fuel?

19 A No, I can't cite you a specific study at the
20 present time, although over the years much has been written
21 about the value of diversity in any portfolio in general, and
22 specifically about the value of diversity in a fuel system
23 for maintaining stability and reducing volatility.

24 Q And diversity, you would agree, is another
25 qualitative factor that it's very difficult, you know, as we

1 sit here today to measure the value diversity, of fuel
2 diversity?

3 A I would agree that it's a very important
4 qualitative factor. And I would also agree that its
5 specific dollar value is difficult to measure outside of a
6 scenario that you might postulate. However, if we were to
7 postulate a scenario, for example, 70, 80, 90 percent
8 dependence on natural gas, and look at the price change at
9 the customer level for a dollar or a two dollar or a five
10 dollar change in gas, that could be quantified. I don't have
11 the number at hand.

12 Q You would have to make certain assumptions about
13 future prices of natural gas compared to nuclear cost. I
14 guess it could be done if you made certain assumptions,
15 correct?

16 A Yes, as you always do in scenario planning, that
17 is correct.

18 Q Okay. And the Levy Project, how many megawatts is
19 associated with it?

20 A Roughly 2,300 megawatts.

21 Q So each one is roughly a 1,150?

22 A Generally, yes.

23 Q And the projected cost of the Levy Project is 20
24 billion, is that fair, if you include the AFUDC number?

25 A 18.8 is our most likely estimate, absent AFUDC.

1 Q So what would it be with AFUDC?

2 A It depends on what the cash flow looks like, and
3 so, yeah, a reasonable number might be 21 to 22 billion
4 dollars, with AFUDC, perhaps a little more, perhaps a little
5 less, depending on what the specific cash flow is.

6 Q Okay. And do you know, as we sit here today --
7 again, ballpark -- what it would cost to do a thousand --
8 let's say 1,100 megawatts of a natural gas fired facility?

9 A I'm sorry, can you say that again, what you're
10 asking for?

11 Q Sure. 1,100 megawatts of state of the art natural
12 gas, my information is it would be a little north of a
13 billion dollars. I was just curious as to whether you had an
14 estimate as to what it would cost to do, you know, a thousand
15 megawatts of natural gas.

16 A Okay, I understand, yes. What I was curious about
17 is were you looking at just the up-front construction cost or
18 were you looking at the life cycle cost of the plant? If you
19 just focus on the up-front construction cost, which is the
20 smaller component of the life cycle of a gas-fired combined
21 cycle plant, a thousand megawatts, a billion dollars, perhaps
22 higher, a billion one, a billion two, for a thousand.

23 Q Okay. I don't know if you followed the recent
24 need determination in the Power & Light case for the Port
25 Everglades case, but I think that number was about a billion

1 two for a thousand megawatts. Do you generally have that
2 understanding?

3 A I haven't followed the Florida Power & Light, but
4 we've got multiple gas-fired combined cycle plants under
5 construction currently, so I'm relying on that for my
6 response.

7 Q And where I want to go with this is wouldn't it
8 seem to make sense, you know, just intuitively, that if you
9 can do for -- you know, let's call it a billion dollars, a
10 thousand megawatts of gas, you know, two billion dollars for
11 2,000 megawatts of gas, that compared to a \$20 billion figure
12 for 2,000 megawatts of nuclear, that the better prospect is
13 to, you know, maybe go a little heavy on gas?

14 A No, I don't agree with that.

15 Q And you don't agree with it because the future
16 cost projections, we're not sure what the price of natural
17 gas is going to do; is that primarily the reason?

18 A No, that's not primarily the reason. Would you
19 like me to explain?

20 Q Sure.

21 A Okay. These are long-term decisions, so we're
22 talking about a 40, 60, or 80-year decision. There are a
23 number of complex issues in here, some of them easily
24 quantifiable, some of them not. You raised one already:
25 Fuel diversity, environmental impact and price of carbon,

1 NOX, SOX, Mercury, et cetera, the price of fuel, itself, the
2 operating cost of the plants over its lifetime.

3 And so in order to answer that question I think
4 you must compare the alternatives of those two portfolios,
5 construction of additional natural gas and the way that plays
6 into the portfolio, as well as construction in nuclear. This
7 is really the prime focus of the feasibility study. And so,
8 as I look at the feasibility study for Levy, the mid-gas
9 curve in that study is really the nominal view of the way gas
10 prices are more likely than not going to play out.

11 And in that scenario, with any price on carbon,
12 the nuclear construction over its lifetime provides a
13 positive net present value to the customer, absent the other
14 qualitative values, such as fuel diversity.

15 So, Mr. Moyle, I would not generically answer the
16 question, what's better, natural gas or nuclear. You have to
17 answer that question in the context of this sort of
18 assessment. And what the feasibility study tells us, at this
19 point, is the project still feasible, and the project under
20 the most likely scenarios has significant present value to
21 the customer.

22 Q Would you agree with me that given those two
23 choices, doing a couple thousand megawatts of gas as compared
24 to a couple thousand megawatts of nuclear, that if it was
25 hypothetically posed to a grandparent in your service

1 territory, say, you know, 65, 70 years old, that the answer
2 that they would be likely give would be I'd rather have the,
3 you know, natural gas, given that, you know, the projected
4 life of somebody who is 65, 75, they're not going to be there
5 to see the benefits of the nuclear project, more likely than
6 not, correct?

7 A I'm sorry, was there a question? I'm trying to
8 get to the question.

9 Q Yeah, I'm trying to understand. You're familiar
10 with inter-generational transfers?

11 A I am.

12 Q And when you do your economic analysis, you're
13 assuming the nuclear plant is going to last for 60 years,
14 correct?

15 A Yes.

16 Q Okay. And in order to have those savings, you
17 have to look out 60 years. For somebody who is not going to
18 make it out 60 years, wouldn't you agree that the economic
19 situation would be different?

20 A No, because fundamentally I don't agree with the
21 premise of your question. I will admit that the nuclear
22 plant is a long-term investment. And because of that it
23 has -- it has a negative value up until it goes into service
24 and then it quickly flips and becomes a year by year positive
25 value to the then customers.

1 I will admit that because of the length of these
2 projects and their construction and because of the length of
3 their life, both their costs and their benefits can be
4 multi-generational. That is not unlike many other plants.
5 It takes us ten years -- has taken us -- is taking us today
6 ten years to build a coal plant. Even with a gas plant it
7 can take us five, six years to develop it.

8 Customers move into our service territory; they
9 move out. People are born; they die. Energy is such a
10 critical investment that making decisions that appropriately
11 balance the near term with the long term, even
12 inter-generational impacts, is important.

13 And to your original very specific question, I
14 have asked seniors their view on this and gotten a wide range
15 of responses. My experience, personal experience, is
16 generally more supportive than against.

17 Q We'll let you get away with the hearsay reference
18 there --

19 A You asked me --

20 Q -- and I won't ask you how many of them are
21 related to you, either. But, anyway, let me move on and ask
22 you this question. Over the years we've had conversation
23 about partners, with respect to Levy. Can you give us an
24 update?

25 Do you have any partners that have signed up or

1 that are looking at defraying the expense to the extent that
2 the risk can be shared with partners in the Levy Project?

3 A The situation with respect to partners in the
4 project, I don't think, has really materially changed
5 recently. We have from the beginning had a number of
6 potential partners who expressed significant interest in the
7 project. They continue to express significant interest in
8 the project. We keep them apprised of its progress, but we
9 have not reached the point with any of those potential
10 partners where they have committed to close on an ownership
11 share plan.

12 Q Okay, thank you. And with respect to the change
13 that you're here testifying about now, which is the pushing
14 the project out to 2024, 2025, and increasing the cost by
15 \$1.2 billion, without including AFUDC, you would agree with
16 that, right? Those facts are correct?

17 A Yes.

18 Q What -- and this is a hard question, admittedly --
19 but what degree of confidence do you have that Levy will be
20 operational and on line in 2024 and 2025, as you are
21 suggesting, and cost the projected \$18.8 billion?

22 A Confident. I can characterize the basis for it,
23 if you'd like, but I'd say a reasonable level of confidence.

24 Q And that's a hard question. It's like a lawyer
25 being asked am I going to win in front of a jury. I mean,

1 you can say, well, it's hard to nail down. But, you know,
2 it's a lot of money, and I just was wanting to understand and
3 would think a board member might ask you something like that.

4 How confident are you in these numbers, or do you
5 think it's more likely than not that they will change again?

6 A I'm confident in the schedule and the numbers.
7 And if I might just take a minute, the price of the Levy
8 Project really has only changed from its original 14.2
9 billion, I think, with the Certificate of Need, to the
10 current 18.8 billion

11 The driver for that, as was questioned earlier,
12 is the escalation as you move the project out with the
13 passage of time. So what we haven't seen on the project are
14 significant changes in scope, significant changes in design
15 approach, that would drive units -- yards of concrete, feet
16 of pipe, or productivity rates. So while we still hold this
17 as a Class 5 estimate, the cost basis for the plant as we
18 move through time has been fairly consistent.

19 What's gotten more clear over time is the
20 licensing and permitting risk, and I think that has generally
21 subsided, with the waste competence issue being a recent
22 exception to that. And so that's part of the basis for my
23 confidence. The AP1000 design was certified, the Vogtle
24 license was issued, the Scana license was issued; they're
25 under construction. The Chinese are well along. The Part 52

1 licensing process is being exercised very effectively.

2 The Levy project has really no substantial
3 deviations from that. It should follow in its footsteps.
4 I see no reason why it shouldn't. So I'm confident of our
5 ability to license it. And with that construction
6 experience, as that proceeds, my confidence in our ability
7 to construct it and our ability over time to sharpen the
8 schedule and cost rises.

9 Now, what I can't be -- what I can't be as
10 confident about, Mr. Moyle, is the broader set of risks.
11 What will we see for environmental regulation, and will it
12 become more urgent or less urgent, more impactful or less
13 impactful.

14 How will the market come back into balance around
15 natural gas. I believe it will. How quickly will it. Those
16 I have less confidence in our ability to predict, and it's
17 why we must monitor them closely.

18 Q Okay. And I didn't ask you that yes-no question
19 because there's a possibility we may come back and revisit
20 this at some future point, as you may imagine, depending on
21 things down the horizon. So let me move on and ask you a few
22 more questions, if I could.

23 And this question was touched on by Commissioner
24 Balbis, but the balance solution strategy, now that the
25 merger has taken place, is that still in effect today, you

1 know, if it's called by a different name, what has been
2 previously termed the balance solution strategy that you
3 reference in your testimony --

4 A Yes.

5 Q -- if you can just give me a yes or no?

6 A Yes, it is.

7 Q So Duke has adopted it?

8 A Yes, Duke had a similar strategy prior to the
9 merger. The two were very complementary.

10 Q Okay. And you had talked about carbon a little
11 bit, and I want to -- I want to ask you some questions about
12 carbon and environmental issues. And in response to a
13 question from Commissioner Balbis, Mr. Elnitsky said that he
14 believed that the EPA rule related to emissions from coal
15 plants would help the prospects of Levy. Did you understand
16 that to be his answer to the question posed by Commissioner
17 Balbis?

18 A Yes, I did.

19 Q Okay. But wouldn't you agree that to the extent
20 that the government is addressing carbon through a mechanism
21 such as a tough rule that reduces carbon, that that would
22 make it less likely that legislation imposing a carbon tax
23 would take place?

24 A No, I don't.

25 Q So you think that in addition to doing a tough

1 rule that it's more likely than not that Congress would act
2 to put in place a carbon tax or a cost of carbon?

3 A Well, it's a bit hard to predict this, but a rule
4 that disadvantages coal, while it might slow the increase in
5 greenhouse gases, it does not really make material progress
6 at addressing the reduced greenhouse objectives that are
7 embedded in most of the scientific studies.

8 So a rule or a series of rules for the EPA can
9 nudge things in the right direction, or at least slow the
10 assent. But my personal opinion -- I think that's what
11 you're asking me -- is that it will take carbon legislation
12 if we're to meet, say, the Kyoto protocol objectives.

13 Q Okay. And with the merger, now, Duke is the
14 biggest utility in the country, correct?

15 A By several measures, yes.

16 Q Okay. And you all have not only internal
17 governmental affairs folks, you hire outside lobbyists to
18 advance positions of Duke in state legislatures and at the
19 Capitol, correct?

20 A Yes.

21 Q Okay. So to the extent that one of the key
22 drivers for the advancement of the Levy Project is a carbon
23 tax or monetizing carbon, it would follow logically in my
24 mind that Duke would support a carbon tax. Do you agree with
25 that? I guess, first of all, do you agree with the logic?

1 A Not entirely. Generally, yes, but not entirely.
2 Let me just explain. We, as a company, are in favor of
3 addressing carbon as a national and international issue. And
4 so the company has been supportive of carbon regulation
5 because we believe it's the right thing environmentally and
6 nationally.

7 However, we feel very keenly our responsibility to
8 balance the interest -- that interest -- with the interests
9 of our customers who will ultimately bear the price impact of
10 that. And so we are supportive of carbon legislation but
11 only if it materializes in a way that's equitable for the
12 customers and minimizes the cost impact on the customers for
13 the results you're trying to achieve.

14 Q And you would also agree that that rationale you
15 just described is probably equally applicable to the analysis
16 as to whether to move forward with Levy?

17 A Yes.

18 MR. MOYLE: I think that's all I have, if I can
19 just have one quick minute.

20 CHAIRMAN BRISE: Say that again?

21 MR. MOYLE: If I can just have one minute to check
22 my notes. Sorry.

23 CHAIRMAN BRISE: Okay. I thought I heard that's
24 all you have.

25 MR. MOYLE: I think it is. That is all I have.

1 Thank you, Mr. Lyash, I appreciate it.

2 THE WITNESS: You're welcome.

3 CHAIRMAN BRISE: Thank you, Mr. Moyle. Lieutenant
4 Colonel Fike?

5 LT. COL. FIKE: No questions, Mr. Chairman.

6 CHAIRMAN BRISE: Okay. Mr. Whitlock?

7 MR. WHITLOCK: Thank you, Mr. Chairman.

8 CROSS EXAMINATION

9 BY MR. WHITLOCK:

10 Q Good afternoon, Mr. Lyash.

11 A Good afternoon.

12 Q Mr. Elnitsky answered a lot of my questions today
13 as far as the overlap between you all's testimony, but I
14 suppose that's probably his job, right, to make your job
15 easier?

16 A That is his job, I would agree with that, among
17 other things.

18 Q I want to focus on just one or two parts of your
19 testimony. On page four, line seven, you state the company
20 still intends to bill the LNP and place the Levy Nuclear
21 Power Plants in service in 2024 and 2025. Is that an
22 accurate representation of your testimony?

23 A Yes.

24 Q Okay. There's been a lot of talk over the past
25 half hour to an hour or so, some good questions from the

1 Commissioners about the shelf life of a COL, the value of a
2 COL, the COL as an option. And based on that, wouldn't it be
3 a more honest assessment of the company's intent to say that
4 the company, Duke Progress, intends to get a COL for the LNP
5 and then reassess the increased risk and uncertainty that we
6 talked about with Mr. Elnitsky that you discussed in your
7 testimony and make a decision at that point in time of
8 whether or not to build the LNP?

9 A No, I wouldn't agree with that characterization.

10 Q How so?

11 A Well, we've made a decision to build Levy and that
12 decision was made at the outset when we filed the Certificate
13 of Need. You know, that was the passing of our judgment on
14 the item under consideration at the time, and the Commission
15 weighed in on that, as well.

16 So what has transpired as we've moved through the
17 project is a prudent management approach that evaluates the
18 project, itself, the landscape, emergent items that either
19 were not or could not have been anticipated to reaffirm that
20 that decision should stand either unaltered or should be
21 adjusted in some way, given the circumstance.

22 So I don't consider Levy an option, at all. I
23 consider Levy a decision that's been made.

24 Q And so I'm clear, the decision to build Levy has
25 been made?

1 A That's correct, when we filed the Certificate of
2 Need.

3 Q Okay. And post-merger, the decision to build Levy
4 still stands?

5 A Yes.

6 Q So you're willing to go on the record today and
7 tell the Commission Levy will be built?

8 A I said the decision to build Levy has been made.
9 Any prudent approach to project management, given that
10 decision, will systematically evaluate the progress and
11 status of the project, the alternates, the regulatory
12 situation, the economy, to decide whether the course of
13 executing on that decision should be altered. It can be
14 altered to accelerate it, to slow it, to change its
15 trajectory, because there are choices to be made over the
16 life of the project.

17 And as a matter of fact, I would say that the Part
18 52 licensing process, as well as this proceeding, are about
19 ensuring that we continue to take on board all that
20 information and make choices about whether to alter the
21 course of the project or proceed with our present intent,
22 which is to build the Levy Plant.

23 Q So the decision has been made to build Levy, but
24 the decision would be made moving forward to essentially make
25 a new decision, which is to not build Levy. Is that what

1 you're saying, basically?

2 A It could be, and that is the purpose of the
3 feasibility study and the evaluation of enterprise risk and
4 the purpose of coming here each year to discuss this. You
5 would not and the Commission would not want us to make a
6 decision by what appears to be your definition that is a
7 single decision, inalterable, irreversible. That would be an
8 imprudent way to approach a project. We need to make a
9 decision, understand our intentions, and then evaluate that
10 decision in light of circumstance, as things unfold.

11 Q Well, I guess, if I'm making it sound like that's
12 my, quote, unquote, definition of the decision, it's not. I
13 simply just want to know if the company has made the decision
14 to build Levy, and your answer is yes.

15 A Yes, as demonstrated by the Certificate of Need
16 and our feasibility study that we've done on an annual basis.

17 Q Were you present before this Commission when the
18 Duke CEO, Mr. Rogers, testified in early August?

19 A I was not.

20 Q Okay. Are you familiar with his testimony?

21 A I haven't reviewed it.

22 Q Okay. Do you know how he characterized the Duke's
23 intent as to Levy at that time?

24 A No.

25 Q So you don't know if your characterization of the

1 intent today is consistent with what Mr. Rogers said?

2 A Because I haven't reviewed his specific testimony
3 here, I'm not.

4 Q Okay. Have you spoken with Mr. Rogers about the
5 status of Levy since the merger?

6 A Yes.

7 Q What can you tell the Commission about those
8 discussions?

9 A I'm not sure how to respond other than that we've
10 talked about our construction projects and our operating and
11 generation plan as a routine matter of business. And I think
12 Mr. Rogers understands the status of the Levy Project. He is
13 generally, and I think on the record, is being supportive of
14 nuclear as a part of the balance solution. I mean, if you
15 have something more specific, I'd be happy to be responsive.

16 MR. MOYLE: I don't. I don't. Mr. Lyash, those
17 are all my questions. Thank you.

18 CHAIRMAN BRISE: Mr. LaVia.

19 MR. LaVIA: No questions, Mr. Chairman.

20 CHAIRMAN BRISE: Staff? Ms. Bennett?

21 MS. BENNETT: No questions.

22 CHAIRMAN BRISE: All right, Commissioners.

23 Commissioner Balbis?

24 COMMISSIONER BALBIS: Thank you, Mr. Chairman.

25 Welcome, Mr. Lyash. I should have apologized to the

1 previous witness, as well. I reserved these technical
2 questions for this setting rather than Mr. Rogers, so
3 you're making his job easier at this point.

4 THE WITNESS: This is my job.

5 COMMISSIONER BALBIS: I'm going to bounce around a
6 little bit here, and a lot of the questions I'm going to
7 ask are similar to the ones asked by the previous
8 witness and hopefully you were -- you were in the room
9 for that.

10 You indicated several times in answering
11 questions, to Intervenor questions, about a feasibility
12 study. And I want to make sure, what is this study?
13 Because you have the CPVRR update report and then you
14 have the integrated project plan. Is that where you
15 indicate -- I mean, is that the feasibility study? Is
16 there another study?

17 THE WITNESS: No, those are what I'm referring to.
18 We annually -- we're constantly evaluating the project
19 and the circumstances that affect it, but at least
20 annually we do a quantitative and a qualitative
21 feasibility analysis. The quantitative portion of it is
22 the CPVRR analysis you're referring to.

23 The qualitative analysis has to do with an
24 assessment of all of the other risks related to the
25 project: Environmental regulation, the current state of

1 the economy, and the customers' ability to support the
2 project, the long-term growth rates for power
3 consumption in Florida, what we think of as long-term
4 fuel prices, licensing risk.

5 So we take these qualitative assessments of
6 enterprise risk, pair them up with a quantitative
7 CPVRR study, and that's what I'm referring to as our
8 feasibility study, that leads us to a conclusion.

9 COMMISSIONER BALBIS: Okay. Thank you, I just
10 wanted to make sure there wasn't another report out
11 there that we didn't have. Let's talk a little bit
12 about the quantitative results. Do you agree that the
13 Levy Nuclear Project is still cost effective and
14 economically viable?

15 THE WITNESS: Yes.

16 COMMISSIONER BALBIS: Okay. On page eight of your
17 testimony you indicate that some form -- starting with
18 line four -- some form of legislation or regulation of
19 fossil fuel is inevitable. And you answered a question,
20 I believe, from Mr. Moyle, that there was some
21 uncertainty about carbon tax, if you will, or monetizing
22 carbon. Do you believe, again, what's indicated in your
23 testimony, that it's inevitable?

24 THE WITNESS: I do. What I see as very uncertain
25 is the time frame. You know, the issues that we have

1 around the environmental impact of fossil fuels, I
2 think, are very real, cumulative, and long lasting. And
3 when I say inevitable, I mean that we will -- it's my
4 belief and the company's belief and we will address
5 these, they will need to be addressed legislatively.

6 In the near term, the political climate makes it
7 very uncertain as to when, and exactly what form they
8 will take.

9 COMMISSIONER BALBIS: Okay. And any form of
10 legislation would likely make the project more
11 favorable, correct?

12 THE WITNESS: That's correct.

13 COMMISSIONER BALBIS: Okay. And that's what I'm
14 struggling with. We have the quantitative results
15 indicates it's cost effective, you have some form of
16 legislation, as you testified, is likely coming that
17 will make it more favorable; then why delay the project
18 by three years and incur a \$1.2 billion additional cost?

19 THE WITNESS: Well, let me give you two thoughts,
20 two of the bases here. It is true by delaying the
21 project three years, under the assumptions that we've
22 made, the project might escalate \$1.2 billion, although
23 there are factors that might mitigate against that cost
24 pressure, or it might exacerbate it. So it's a nominal
25 estimate. It is purely a result of the escalation that

1 comes from the passage of time.

2 The option against which you're comparing it is
3 also escalating with the passage of time. So the
4 relative -- delaying the project doesn't change its
5 relative standing against alternatives.

6 Now, your fundamental question, which is, then, why
7 delay, the answer here is embedded in the evaluation,
8 qualitatively, of enterprise risk. Will -- when will
9 customer and load growth return in Florida and how
10 aggressive will that growth be? When will the Florida
11 economy begin to show signs of recovery and unemployment
12 come down?

13 That affects two things. It affects people's
14 consumption, which is very correlated with disposable
15 income of the product, electricity. It also bears on
16 their ability to pay up front or early for a long-term,
17 very positive benefit.

18 What will -- what legislation will develop on the
19 environment and what actions will be required for it.
20 And so our assessment was that given all that
21 uncertainty and risk, along with the fact that there are
22 plants being built and we're gaining construction and
23 operating experience, the right balance is to delay.

24 If it were purely the CPVRR that was driving the
25 decision, you would move more quickly. But we've said

1 from the very first on this that that's an important
2 consideration, but it's not the only consideration.

3 COMMISSIONER BALBIS: Okay, and you touched on a
4 couple of the enterprise risks. And if I could,
5 Mr. Chairman, I'd like to go just quickly through each
6 one of those enterprise risks and what the effect of the
7 delay -- how that affects those individual risks. You
8 discuss the economic conditions and load growth in the
9 nexus customer impacts. Could you discuss the
10 enterprise risks and how customer impacts are affected
11 by delaying the project?

12 THE WITNESS: We're sensitive to the fact that when
13 the economy -- these are related risks -- so with the
14 economy and with growth in the condition it's currently
15 in in Florida, moving aggressively on a project like
16 this that by its nature is going to add a burden to the
17 customer's bill in the near term is the risk we're
18 talking about there.

19 And so we feel as though it is better if we have
20 the alternative to continue to move the project forward,
21 but try to push as much of the high level of spending a
22 little further down the road as we can to give the
23 Florida economy and the customer, himself, the time to
24 get in a stronger position.

25 COMMISSIONER BALBIS: Okay, so the delay doesn't

1 make the impact any less, it actually makes it greater
2 and just pushes it out some. Is that a fair assessment?

3 THE WITNESS: Yes.

4 COMMISSIONER BALBIS: Okay. The next one is state
5 and Federal policy. And Federal policy you discussed;
6 again, I guess, proposed carbon legislation. But none
7 of that legislation will suddenly make the project
8 cheaper, will it?

9 THE WITNESS: No, but it will -- it will -- to the
10 extent carbon policy moves forward, it adds significant
11 present value to the project. In other words, if it is
12 certain that there is a carbon tax, for example, and we
13 know how the carbon tax is going to wrap up, then you
14 can adjust your construction schedule to optimize it
15 against the phase-in of the carbon tax, considering the
16 plan is a broader portfolio.

17 So the more certain Federal policy is in both its
18 cost and its scheduled implementation, the more strongly
19 it argues -- well, perhaps I don't want to put it that
20 way -- the better able you are to optimize the project
21 construction schedule around capturing the most value.

22 COMMISSIONER BALBIS: And also would you agree that
23 it would make carbon producing generation more expensive
24 so therefore nuclear is more cost effective?

25 THE WITNESS: It would. It would. And the change

1 here from last year is that even at this point last year
2 there was more comprehensive carbon legislation moving
3 through the Legislature in Washington. A year later,
4 particularly in this lead-up to the election, there
5 really is no motion on that, other than some rulemaking
6 at the EPA, which I think is not trivial, but not at the
7 heart of the matter.

8 COMMISSIONER BALBIS: Okay. And then shifting to
9 the state, state legislation and policy, you mention in
10 your testimony that there's been several or numerous
11 attempts to repeat the nuclear cost recovery clause.
12 Are you aware that some of the criticisms on the nuclear
13 cost recovery clause are the fact that the nuclear
14 plants may never be built?

15 THE WITNESS: I am. That has been a criticism from
16 the outset, yes.

17 COMMISSIONER BALBIS: So wouldn't delaying the
18 project add additional uncertainty as to whether or not
19 the plants will ever be built?

20 THE WITNESS: It could, yes.

21 COMMISSIONER BALBIS: Okay, that's all I had on the
22 enterprise risks. And just real quick, on comparing the
23 nuclear plant to traditional fossil fuels, I think a gas
24 plant, I think Mr. Moyle compared it to a combined cycle
25 plant. And there's obviously the opportunity for

1 parties to halt the permitting process of a nuclear
2 plant and challenge it. And would you agree that even
3 with a combined cycle plant that is perhaps -- or is
4 cheaper up-front costs -- can still be challenged by
5 parties?

6 THE WITNESS: Oh, absolutely, yes, sir.

7 COMMISSIONER BALBIS: Okay, that's all I had.
8 Thank you.

9 CHAIRMAN BRISE: Commissioner Brown?

10 COMMISSIONER BROWN: Thank you. I just have one
11 question, and it's kind of a different version of what
12 Commissioner Balbis previously asked you regarding
13 Progress's current trajectory pushing Levy out to 2024,
14 2025. How did Progress determine that pushing out Levy
15 by three years was the best alternative? Was there a
16 shorter time frame that was evaluated?

17 THE WITNESS: Yes, we evaluated continuing the
18 project on its then current schedule, which was '21, '22
19 in service. We evaluated various delays, including the
20 three-year delay, and as we do every year, we evaluate,
21 based on the feasibility, should we continue the
22 project, is there a reason that we ought -- that it
23 would be prudent to stop the project.

24 And these are subjective, to a large extent, so we
25 do quantitative assessment, the CPVRR. But the way we

1 reach the conclusion, really, is looking at those
2 enterprise risks and our detailed understanding of the,
3 you know, Federal, the state legislative landscape, and
4 what's happening in the industry. And so this is a
5 judgment that on balance the best course of action was
6 to move the schedule three years to 2024, 2025.

7 COMMISSIONER BROWN: I understand, I understand all
8 that, I just wanted to understand why you chose the
9 three years versus, say, one year; to allow, I guess,
10 more flexibility on the part of Progress?

11 THE WITNESS: No. You know, our -- I want to give
12 a short answer.

13 COMMISSIONER BROWN: You can give a long one.

14 THE WITNESS: You know, we were aware -- there were
15 certain things pushing out the COL absent the waste
16 confidence. We were still confident we would be getting
17 it in '13. There were some issues, including, you know,
18 working through the Fukushima responses, which we've got
19 a clear path on, that we felt would push the license out
20 for some period of time. We were aware that this waste
21 confidence issue was being challenged in court and we
22 needed to look at that.

23 As we looked at what has changed in the last year,
24 in terms of the Florida economy and what trajectory a
25 real recovery might look like here in Florida, and

1 perhaps most significantly looking at the impact of
2 shale gas on gas price, the over-supply of gas that
3 currently exists, gas capacity that currently exists in
4 a down economy, and how long might it take for that to
5 rationalize itself -- and we believed it would -- all
6 these things led us to say let's -- the best course
7 here is a three-year delay, realizing that we have the
8 alternative to reaccelerate that schedule in a window if
9 circumstances change.

10 COMMISSIONER BROWN: Okay, thank you.

11 CHAIRMAN BRISE: Commissioners, any further
12 questions? All right, seeing none, redirect?

13 MR. WALLS: No redirect.

14 CHAIRMAN BRISE: All right, let's deal with the
15 exhibits.

16 MR. WALLS: Mr. Lyash has no exhibits.

17 CHAIRMAN BRISE: All right, very good.

18 MR. WALLS: We would ask that Mr. Lyash be excused
19 from the proceeding, as he has no rebuttal testimony.

20 CHAIRMAN BRISE: All right, Mr. Lyash, you are
21 excused.

22 THE WITNESS: Thank you, Mr. Chairman. Thank you,
23 Commissioners.

24 CHAIRMAN BRISE: All right, thank you. We are
25 going to go ahead and move out of order and go to the

1 Staff witnesses, and so if Ms. Bennett can --

2 MS. BENNETT: Thank you. I would call William
3 Coston and Jerry Hollinsein to the stand. This is a
4 panel of witnesses.

5 Thereupon,

6 WILLIAM COSTON

7 JERRY HALLENSTEIN

8 were called on behalf of Florida Public Service Commission
9 Staff, having been previously duly sworn, testified as
10 follows:

11 DIRECT EXAMINATION

12 BY MS. BENNETT:

13 Q Good afternoon, gentlemen.

14 A (By Mr. Hallenstein) Good afternoon.

15 A (By Mr. Coston) Good afternoon.

16 Q Have you previously been sworn in?

17 A (By Mr. Coston) Yes.

18 A (By Mr. Hallenstein) Yes.

19 Q Let's start with, would you state your name, each
20 one of you state your name and your business address.

21 A (By Mr. Coston) Yes, my name is William Coston.
22 My business address is 2540 Shumard Oak Boulevard,
23 Tallahassee, Florida, 32301.

24 A (By Mr. Hallenstein) My name is Jerry Hallenstein.
25 My business address is 2540 Shumard Oak Boulevard,

1 Tallahassee, Florida, 32301.

2 Q And would you state by whom you are employed and
3 in what capacity.

4 A (By Mr. Coston) I'm employed by the Florida
5 Public Service Commission as a Government Analyst II.

6 A (By Mr. Hallenstein) I am also employed by the
7 Florida Public Service Commission as a Government Analyst II.

8 Q And, gentlemen, have you jointly prefiled
9 testimony consisting of four pages in this case as it related
10 to Progress Energy Florida?

11 A (By Mr. Coston) Yes.

12 A (By Mr. Hallenstein) Yes.

13 Q If I were to ask you those same questions today as
14 were in your prefiled testimony, would your answers be the
15 same?

16 A (By Mr. Coston) Yes.

17 A (By Mr. Hallenstein) Yes.

18 MS. BENNETT: Mr. Chairman, at this time we ask
19 that the joint prefiled testimony of Mr. William Coston
20 and Mr. Jerry Hallenstein -- Hallenstein be entered into
21 the record as though read.

22 CHAIRMAN BRISE: All right, we will enter the joint
23 direct testimony of Mr. Coston and Mr. Hallenstein into
24 the record as though read.

25 (Whereupon, the prefiled testimony was inserted.)

1 **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2 **COMMISSION STAFF**

3 **DIRECT JOINT TESTIMONY OF**

4 **WILLIAM COSTON AND JERRY HALLENSTEIN**

5 **DOCKET NO. 120009-EI**

6 **JUNE 19, 2012**

7

8 **Q. Mr. Coston, please state your name and business address.**

9 A. My name is William Coston. My business address is 2540 Shumard Oak Boulevard,
10 Tallahassee, Florida 32399-0850.

11 **Q. By whom are you employed?**

12 A. I am employed by the Florida Public Service Commission (FPSC or Commission) as a
13 Government Analyst II, within the Office of Auditing and Performance Analysis.

14 **Q. What are your current duties and responsibilities?**

15 A. I perform audits and investigations of Commission-regulated utilities, focusing on the
16 effectiveness of management and company practices, adherence to company procedures, and
17 the adequacy of internal controls. Mr. Hallenstein and I jointly conducted the 2012 audit of
18 Progress Energy Florida, Inc.'s (PEF) project management internal controls for the Extended
19 Power Uprate (EPU) project at the Crystal River Unit 3 and Levy Nuclear Project.

20 **Q. Please describe your educational and relevant experience.**

21 A. I earned Bachelor of Arts and Master of Public Administration degrees from Valdosta
22 State University. I have worked for the Commission for nine years conducting operations
23 audits and investigations of regulated utilities. Prior to my employment with the Commission,
24 I worked for six years at Bank of America in the Global Corporate and Investment Banking
25 division.

1 **Q. Have you filed testimony in any other dockets before the Commission?**

2 A. Yes. I filed similar testimony in Docket No. 090009-EI, 100009-EI, and 110009-EI.
3 This testimony addressed the audits of PEF's project management internal controls for the
4 nuclear plant uprate at the Crystal River Unit 3 and the Levy Nuclear Project for the years
5 2009 through 2011. Additionally, in 2005 I filed testimony in Docket No. 050078-EI. The
6 testimony addressed an audit of distribution electric service quality for PEF's vegetation
7 management, lightning protection, and pole inspection processes.

8 **Q. Mr. Hallenstein, please state your name and business address.**

9 A. My name is Jerry Hallenstein. My business address is 2540 Shumard Oak Boulevard,
10 Tallahassee, Florida 32399-0850.

11 **Q. By whom are you employed?**

12 A. I am employed by the FPSC as a Government Analyst II, within the Office of Auditing
13 and Performance Analysis.

14 **Q. What are your current duties and responsibilities?**

15 A. I perform audits and investigations of Commission-regulated utilities, focusing on the
16 effectiveness of management and company practices, adherence to company procedures, and
17 the adequacy of internal controls. Mr. Coston and I jointly conducted the 2012 audit of PEF's
18 project management internal controls for the nuclear plant uprate at the Crystal River Unit 3
19 and new construction underway at the Levy site.

20 **Q. Please describe your educational and relevant experience.**

21 A. I earned a Bachelor of Science in Finance from Florida State University in 1985. I
22 have worked for the Commission for twenty-two years conducting operations audits and
23 investigations of regulated utilities. Prior to my employment with the Commission, I worked
24 for five years at Ben Johnson Associates, a consulting firm that specializes in providing
25 economic and research services to state regulatory commissions.

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Q. Have you filed testimony in any other dockets before the Commission?

A. Yes. I filed testimony in Docket 981488-TI, with an audit I conducted regarding the billing and sales practices of Accutel Communications, a reseller of telecommunications services.

Q. Please describe the purpose of your testimony in this docket.

A. Our testimony presents the attached audit report entitled *Review of Progress Energy Florida, Inc.'s Project Management Internal Controls for Nuclear Plant Uprate and Construction Projects* (Exhibit CH-1). This audit was requested by the Commission's Division of Economic Regulation to assist with the evaluations of nuclear cost recovery filings. The report describes key project events and contract activities completed during mid-2011 through April 2012 for the Crystal River 3 Uprate project and the Levy Nuclear Project. The report also presents descriptions of the current project management internal controls employed by PEF.

Q. Please summarize the areas examined by your review.

A. The Office of Auditing and Performance Analysis conducted an audit of the internal controls and management oversight of the nuclear projects underway at PEF. This is an ongoing annual review that examines the organizations, processes, and controls being used by the company to execute the Extended Power Uprate of Unit 3 at the Crystal River Energy Complex and the construction of Levy Nuclear Plant Unit 1 and Unit 2. The previous reviews were filed in the 2008, 2009, 2010, and 2011 Nuclear Cost Recovery Clause dockets before the Commission.

The primary objective of this audit was to document key project developments, along with the organization, management, internal controls, and oversight that PEF has in place or plans to employ for these projects. The internal controls examined were related to the

1 following key areas of project activity: planning, management and organization, cost and
2 schedule controls, contractor selection and management, and auditing and quality assurance.

3 **Q. Are you sponsoring any exhibits?**

4 A. Yes, our audit report is attached as Exhibit CH-1. The audit report's conclusions are
5 summarized in the Executive Summary chapter for both the Extended Power Uprate project
6 and the Levy Nuclear Project.

7 **Q. Does this conclude your testimony?**

8 A. Yes.

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1 BY MS. BENNETT:

2 Q And, gentlemen, did you have one exhibit attached
3 to your testimony as it relates to Progress Energy, Florida,
4 which is the Project Management Internal Controls Audit
5 relating to Progress Energy Florida's nuclear plant uprate
6 and construction projects?

7 A (By Mr. Coston) Yes.

8 A (By Mr. Hallenstein) Yes.

9 Q Do you have any changes or corrections to that
10 exhibit?

11 A (By Mr. Coston) No.

12 A (By Mr. Hallenstein) No.

13 MS. BENNETT: Mr. Chairman, I'd ask that Exhibit
14 CH-1, which is marked as Number 25 on the comprehensive
15 exhibit list, be identified as such.

16 CHAIRMAN BRISE: Okay, we've identified it.

17 MS. BENNETT: Thank you.

18 BY MS. BENNETT:

19 Q Have you prepared a summary for today's hearing?

20 A (By Mr. Coston) Yes, we have.

21 Q Would you please present that summary.

22 A (By Mr. Coston) Yes. Good afternoon,
23 Commissioners. Our testimony presents a management audit
24 review of the project management internal controls that
25 Progress Energy Florida uses in managing its CR3 extended

1 power uprate project and the construction of its new -- new
2 Levy Nuclear Units.

3 To develop our conclusions for our review, our
4 office, at the directive of the Commission Technical Staff,
5 has annually conducted an independent assessment of the
6 internal controls used by the company for the project
7 management and its methodology.

8 The primary focus of our review was to document
9 and assess the key project management developments for both
10 projects since the 2011 Nuclear Cost Recovery Hearing.
11 Specifically, our review examines company project controls in
12 the following areas: Project planning, management and
13 organizational structure, cost and scheduling, contractor
14 selection and oversight, internal and external auditing and
15 quality assurance.

16 Our team conducted interviews with key company
17 project management personnel for both projects. In addition,
18 we issued extensive document and data requests related to
19 project management and oversight, project development, and
20 project implementation.

21 Items our team reviewed and evaluated include
22 management reports, contracts, scope change control
23 documents, invoices, quality assessments, and audit reports.
24 These documents and interview responses form the basis of our
25 overall assessment of the status and effectiveness of project

1 management controls that the company employed for the two
2 projects.

3 Based upon our review, we have no specific
4 recommendations concerning the company's project management
5 internal controls employed by both projects for the current
6 period. This concludes our summary and we're available for
7 any questions.

8 MS. BENNETT: We would make the witnesses available
9 for cross examination.

10 CHAIRMAN BRISE: All right. Office of Public
11 Counsel?

12 MR. REHWINKEL: I have three questions,
13 Mr. Chairman.

14 CHAIRMAN BRISE: Sure.

15 CROSS EXAMINATION

16 BY MR. REHWINKEL:

17 Q Good evening -- afternoon.

18 A (By Mr. Hallenstein) Good afternoon.

19 Q To the panel, did you evaluate 2011 CR3 Uprate
20 costs in light of the delay caused for the CR3 delaminations
21 in March and July of 2011?

22 A (By Mr. Coston) No, our particular scope looks at
23 the project management process that the company has employed
24 for these -- for that project specifically.

25 Q Okay. So accordingly, I would expect you to say

1 that you also did not make any judgment about whether any
2 delay in the uprate project was due to the CR3 delamination
3 evaluation and the repair or retired decision-making?

4 A No.

5 Q So the answer is correct, that the answer is no?

6 A Correct. Thank you.

7 Q And finally, I take it from your first answer that
8 such an analysis was not within the scope of your audit?

9 A That would be correct, yes.

10 MR. REHWINKEL: Thank you. Thank you,
11 Mr. Chairman. That's all I have.

12 CHAIRMAN BRISE: All right. Mr. Brew?

13 MR. BREW: Thank you, Mr. Chairman.

14 CROSS EXAMINATION

15 BY MR. BREW:

16 Q Good afternoon, gentlemen. Mr. Coston and I have
17 talked before, but is it Hallenstein or Hallenstein?

18 A (By Mr. Hallenstein) It's Hallenstein, but my wife
19 calls me worse.

20 Q I'm not going to go there at all. This is going
21 to jump around a little bit. In your testimony on page
22 three, line 11, there's the statement that the report
23 describes key project events and contract activities
24 completed during mid 2011 through April, 2012 for the uprate
25 project. Do you see that?

1 A (By Mr. Coston) If I could have you repeat that
2 line to make sure --

3 Q Page three of your testimony, lines 11 and 12, the
4 sentence that begins the report describes.

5 A (By Mr. Coston) Yes, I see that.

6 Q Okay. So that period that's described in your
7 report, throughout that entire period the unit has been out
8 subject to the most recent containment delamination, is that
9 right?

10 A (By Mr. Coston) Yes.

11 Q Okay. Did you include in your study of key
12 project events the status of insurance recovery through NEIL?

13 A No, we did not. Again, our scope looks at the
14 project management internal controls. And the project
15 management process is a very defined process within the
16 organization. The events that revolve around the
17 delamination issue and the operational viability of the plant
18 would fall outside of that project management scope.

19 Q They would fall outside the scope of your review.
20 So along the same lines, the strategic decision as to whether
21 or not to attempt to repair the unit also falls out beyond
22 the scope of your review?

23 A Yes, it would.

24 Q Okay. Did the scope of your review include how
25 the company was performing planning for the uprate in light

1 of the delays in the decision whether to repair the unit or
2 not?

3 A Yes. Our review, when we looked at the project
4 management process that the company has in place, a directive
5 has been given by the business unit or the management team
6 that is directing the project's initiative. We look at what
7 the project team was informed, how they were informed, and
8 what the going-forward tasks they were given during this
9 interim period, and we did evaluate that.

10 We did not evaluate the decision process or the
11 decision process that the business unit made in determining
12 in light of the outage, extended outage.

13 Q So decisions relating to this -- more simply
14 stated, the decisions relating to their actual decisions fall
15 outside the scope of your review; decisions relating to
16 following their own established process for making decisions
17 is what you reviewed?

18 A Yes, as well as the project team taking the
19 initiative or what the business unit has directed them to go
20 and get moving on a going-forward basis. We looked at that.

21 Q All right. And finally, the other issues relating
22 to delay in the decision such as Duke performing an
23 independent study of the repair or retire decision, is that
24 also beyond the scope of your analysis?

25 A Yes, that would be outside of the scope.

1 Q If I could refer you to your actual report, page
2 six begins the heading 1.4.2 Crystal River 3 extended power
3 uprate.

4 A Okay.

5 Q Now, you describe the changes in the cost estimate
6 of the project from 461 million to 617 million at the bottom
7 of page six, right?

8 A Yes.

9 Q Okay. Does your analysis form any conclusion as
10 to the reasonableness of the current cost estimate?

11 A Our analysis looks at how the company developed
12 the additional cost estimates based on what requirements
13 created that cost, how the company identified it, how the
14 company embedded those issues, as well as the approval
15 process that was necessary for them to be included in the
16 overall project, additional project scope that was
17 identified.

18 Q But if I were to ask you do you think 617 million
19 is a good number, your answer would be that's beyond the
20 scope of my analysis?

21 A Correct, that would be outside of the scope.

22 Q If I could refer you farther on to page 31 of that
23 report. Are you there?

24 A Yes.

25 Q On the bottom of page 30 you have a heading Risk

1 Evaluation Performed. Do you see that?

2 A Yes.

3 Q And on 31, there's the second paragraph talks
4 about the other high risk concern is the potential for the
5 containment repair being completed ahead of schedule. Do you
6 see that?

7 A I do.

8 Q In the context of -- you're referring here to risk
9 assessments performed by Progress, right?

10 A By the Progress -- by the Progress project
11 management team, yes.

12 Q Okay. It's not a risk assessment that you
13 performed, right?

14 A Correct.

15 Q Okay. And this risk assessment assumed the
16 repairs of the unit being accomplished over what, a 35-month
17 repair -- repair period?

18 A Within 2014, I believe, is the time frame they
19 were given, so looking at 2011 now, that sounds roughly
20 accurate, yes.

21 Q Okay. Based on what you know or do you have any
22 opinion as to whether or not the repair would be
23 realistically achievable any time before the end of 2014?

24 A We were not looking at making an assessment on
25 what the repair timeline is. This is looking at what the

1 company determines -- was looking at when it was determining
2 what the moving forward schedule -- moving the schedule
3 forward within the EPU project and how that may tie into the
4 current extended power outage repair timeline.

5 Q So when they're talking about this element of the
6 risk matrix, the company was only looking at, for planning
7 purposes, whether or not they would finish the uprate before
8 it became a critical path item on the overall outage?

9 A Correct. It was a scheduling issue.

10 Q Did the company's risk analysis consider at all
11 the risk that the unit not be repaired?

12 A Within the project management risk analysis that
13 we looked at, that was not a factor. I'm not saying the
14 company wasn't looking on it as a business decision but
15 within the project management process that was not a
16 particular line item.

17 Q So within the context of the scope of the review
18 you did --

19 A Correct.

20 Q -- that was not considered.

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

22 CHAIRMAN BRISE: FIPUG?

23 MR. MOYLE: No question.

24 CHAIRMAN BRISE: All right. FEA?

25 LT. COL. FIKE: No questions, Mr. Chairman.

1 CHAIRMAN BRISE: SACE?

2 MR. WHITLOCK: No questions, Mr. Chairman. Thank
3 you.

4 CHAIRMAN BRISE: All right. FRF?

5 MR. LaVIA: No questions, Mr. Chairman.

6 CHAIRMAN BRISE: Progress?

7 MR. WALLS: No questions.

8 CHAIRMAN BRISE: Commissioners?

9 COMMISSIONER BALBIS: Well, fine, I'll ask a
10 question, then. I do have one question for the Staff
11 that I was going to pass on, but I'll ask it. In
12 Section 2.2.4 you discuss PEF's Levy risk review
13 meetings for COLA and near-term non-COLA work. If I can
14 get a little more clarification. You discuss that they
15 hold these monthly meetings and then you jump, on page
16 17, that to mitigate near-term risk the LNP project
17 management extended the project suspension, et cetera,
18 et cetera. Did you audit the decision-making process in
19 general, or for that specific decision?

20 WITNESS HALLENSTEIN: The answer is yes, we audited
21 the process in general, the decision-making process in
22 general, not for that specific decision.

23 COMMISSIONER BALBIS: Were there any other
24 decisions made that you're aware of as a result of those
25 monthly risk assessment meetings?

1 WITNESS COSTON: Yeah, the risk assessment process
2 that the Levy project management team uses is with these
3 monthly meetings they update the risk registry or look
4 at and they identify what may be a new risk based on
5 where they are at that point in time in the process,
6 whether it be on an issue with the COLA or non-COLA
7 issue.

8 They go in there, and based on our understanding
9 and our discussions with the team, is that they vet out
10 whether that is an actual risk, and, if so, then they
11 include it onto the process. And then we followed the
12 process on how they choose to identify and mitigate or
13 create contingencies for that risk.

14 When we look at the risk matrix, we look at how
15 the company has assigned that risk to a particular
16 individual within the company or in the project team and
17 how they are working to resolve that to their
18 expectations and their process standards to feel
19 comfortable that they can move forward with that, move
20 forward with the project based on than risk rating.

21 COMMISSIONER BALBIS: Okay, then a real quick
22 question on the last page of your report, Appendix B,
23 you have the non-COLA risk matrix, which again you said
24 they're updated in the monthly risk meetings. And just
25 so I understand it -- and I know that it's confidential,

1 but the bottom table, the total risk exposure, does that
2 mean that if all of those risk factors occur that that
3 is the dollar impact, total dollar impact?

4 WITNESS COSTON: Yes, the company assigns, based
5 when they do the risk assessments and look at these risk
6 meetings on a monthly level, they assign what they
7 believe would be a cost estimate or a cost factor to
8 each of those risks, if the risk was triggered. And
9 these are the amounts that the company has internally
10 assigned to those risks, if each of them were triggered
11 in a way and they had to respond to them.

12 COMMISSIONER BALBIS: Okay. And then any risk
13 mitigation strategy would be to minimize that total
14 dollar amount cost?

15 WITNESS COSTON: Correct. Minimize or reduce the
16 ability of that risk to actually be triggered.

17 COMMISSIONER BALBIS: But that total risk exposure
18 is the maximum amount? I mean, any mitigation would be
19 less than that, correct?

20 WITNESS COSTON: Correct, based on their estimates.

21 COMMISSIONER BALBIS: Okay, that's all I have.

22 Thank you.

23 CHAIRMAN BRISE: Thank you, Commissioner Balbis.

24 Redirect?

25 MS. BENNETT: No redirect. We would ask that if

1 it's appropriate Exhibit Number 25 be entered into the
2 record.

3 CHAIRMAN BRISE: Okay, at this time we'll enter
4 Exhibit Number 25 into the record, seeing no objections.
5 (Exhibit 25 admitted in evidence.)

6 MS. BENNETT: And Mr. Chairman, may these
7 witnesses be excused?

8 CHAIRMAN BRISE: Sure. Gentlemen, you may be
9 excused. Thank you.

10 MS. BENNETT: Thank you for taking them out of
11 order.

12 CHAIRMAN BRISE: Okay, at this time we'll go back
13 to Progress.

14 MR. WALLS: Progress would call Mr. Franke, Jon
15 Franke. Before Mr. Franke proceeds, just a point of
16 clarification, I believe, with OPC, and to put on the
17 record here is that it's my understanding that
18 Mr. Jacobs is not going to take the stand and we're
19 going to enter his direct testimony, so we would be
20 entering Mr. Franke's rebuttal testimony at this time,
21 as well.

22 MR. REHWINKEL: That is correct.

23 CHAIRMAN BRISE: Okay.

24 Thereupon,

25 JON FRANKE

1 was called as a witness on behalf of Progress Energy Florida,
2 Inc., having been previously duly sworn, testified as
3 follows:

4 DIRECT EXAMINATION

5 BY MR. WALLS:

6 Q Mr. Franke, will you please introduce yourself to
7 the Commission and provide your business address.

8 A Yes, my name is John Franke. My business address
9 is 15760 West Power Line Street, Crystal River, Florida,
10 34428.

11 Q And have you already been sworn as a witness?

12 A Yes, I have.

13 Q Who did you work for and what was your position at
14 the time of your prefiled direct testimony and rebuttal
15 testimony in this proceeding?

16 A At the time of my testimony I was the Site
17 Vice-President for Crystal River 3 Nuclear Plant working for
18 Progress Energy Florida.

19 Q Has your title changed since your merger with Duke
20 Energy?

21 A No, it has not.

22 Q So have your job responsibilities with respect to
23 the Crystal River Unit 3 uprate project stayed the same or
24 have they changed since the merger?

25 A They have remained the same.

1 Q And have you prefiled direct testimony on March 1,
2 2012 and April 30, 2012 and rebuttal testimony on July 9th,
3 2012 in this proceeding?

4 A Yes, I have.

5 Q And do you have a copy of your testimony with you?

6 A I do.

7 Q Okay. Do you have any changes to make to your
8 testimony?

9 A I have none.

10 Q Okay. And so if I asked you the same questions
11 asked in your prefiled testimony today, would you give the
12 same answers?

13 A I would provide the same responses.

14 MR. WALLS: We request that the March 1, 2012,
15 April 30, 2012 and July 9, 2012 rebuttal testimony be
16 introduced or moved into evidence as if it was read in
17 the record today.

18 CHAIRMAN BRISE: Okay, we will move into the record
19 Mr. Franke's direct and rebuttal testimony into the
20 record as though read.

21 (Whereupon, the direct and rebuttal testimony was
22 inserted.)

23

24

25

IN RE: NUCLEAR COST RECOVERY CLAUSE**BY PROGRESS ENERGY FLORIDA, INC.****FPSC DOCKET NO. 120009-EI****DIRECT TESTIMONY OF JON FRANKE**1 **I. INTRODUCTION AND QUALIFICATIONS**2 **Q. Please state your name and business address.**3 A. My name is Jon Franke. My business address is Crystal River Nuclear Plant,
4 15760 West Power Line Street, Crystal River, Florida 34428.

5

6 **Q. By whom are you employed and in what capacity?**7 A. I am employed by Progress Energy Florida, Inc. ("PEF" or the "Company") in the
8 Nuclear Generation Group and serve as Vice President – Crystal River Nuclear
9 Plant.

10

11 **Q. What are your responsibilities as the Vice President at the Crystal River
12 Nuclear Plant?**13 A. As Vice President – Crystal River Nuclear Plant, I am responsible for the safe
14 operation of the nuclear generating station. The Plant General Manager,
15 Engineering Manager and Training sections report to me either directly or
16 indirectly. Additionally, I have responsibilities in oversight of major project
17 activities at the station. Through my management team I have more than 400
18 employees that perform the daily work required to operate and maintain the
19 station and provide engineering, training, and other support to the station.

1 **Q. Please summarize your educational background and work experience.**

2 A. I have a Bachelor's degree in Mechanical Engineering from the United States
3 Naval Academy at Annapolis. I have a graduate degree in the same field from the
4 University of Maryland and a Masters of Business Administration from the
5 University of North Carolina at Wilmington.

6 I have over 22 years of experience in nuclear operations. I received
7 training by the U.S. Navy as a nuclear officer and oversaw the operation and
8 maintenance of a nuclear aircraft carrier propulsion plant during my service.
9 Following my service in the Navy, I was hired by Carolina Power and Light and
10 have been with the company through the formation of Progress Energy. My early
11 assignments involved engineering and operations, including oversight of the daily
12 operation of the Brunswick nuclear plant as a Nuclear Regulatory Commission
13 ("NRC") licensed Senior Reactor Operator. I was the Engineering Manager of
14 that station for three years prior to assignment to Crystal River as the Plant
15 General Manager in 2002. In April of 2009, I was promoted to my current
16 position.

17
18 **II. PURPOSE AND SUMMARY OF TESTIMONY**

19 **Q. What is the purpose of your direct testimony?**

20 A. My direct testimony supports the Company's request for cost recovery pursuant to
21 the nuclear cost recovery rule for costs incurred in 2011 for the Crystal River 3
22 ("CR3") Extended Power Uprate ("EPU") project ("CR3 Uprate") and the
23 Company's request for a prudence determination of the costs incurred for the CR3
24 Uprate project in 2011.

1 I will also provide testimony regarding PEF's 2011 project management,
2 contracting, and oversight controls policies and procedures that are designed to
3 manage project costs and schedule and explain why they are reasonable and
4 prudent.

5
6 **Q. Do you have any exhibits to your testimony?**

7 A. No. I am however sponsoring Schedules T-6A, T-6B, T-7, T-7A and T-7B and
8 co-sponsoring the cost portions of Schedules T-4, T-4A, and T-6 and Appendix D
9 of the Nuclear Filing Requirements ("NFRs") for the 2011 CR3 Uprate project
10 costs, which are included as part of Exhibit No. __ (WG-2) to Will Garrett's
11 testimony. Schedule T-4 reflects Capacity Cost Recovery Clause ("CCRC")
12 recoverable Operations and Maintenance ("O&M") expenditures for the 2011
13 period. Schedules T-4A reflect CCRC recoverable O&M expenditure variance
14 explanations for the 2011 period. Schedule T-6.3 reflects the construction
15 expenditures for the project by category. Schedules T-6A.3 reflect descriptions
16 of the major cost categories of the expenditures and Schedules T-6B.3 reflect
17 explanations for the significant variances between these expenditures and
18 previously filed estimates for 2011. Schedules T-7 are lists of the contracts
19 executed in excess of \$1.0 million for 2011. Schedules T-7A reflect details
20 pertaining to the contracts executed in excess of \$1.0 million for 2011. Schedules
21 T-7B reflect contracts executed in excess of \$250,000, but less than \$1.0 million
22 for 2011. All of these schedules are true and accurate.

1 **Q. Please summarize your testimony.**

2 A. PEF requests a prudence determination and approval of the recovery of its 2011
3 actual CR3 Uprate project costs. PEF incurred CR3 Uprate project costs in 2011
4 in preparation for Phase 3, the EPU phase of the project. The majority of these
5 costs were incurred for necessary engineering analyses for the engineering change
6 packages for the Phase 3 work, for long lead equipment payments, and for related
7 licensing work on the Company's EPU License Amendment Request ("LAR") to
8 the NRC, and associated project management work. PEF took appropriate steps
9 under its project management, contracting, and oversight policies and procedures
10 to ensure that the 2011 CR3 Uprate project costs were reasonable and prudent,
11 and that all of these costs were necessary for completion of the CR3 Uprate
12 project. Accordingly, the Commission should approve PEF's 2011 CR3 Uprate
13 project costs as reasonable and prudent pursuant to the nuclear cost recovery rule.
14

15 **III. STATUS OF CR3 UPRATE PROJECT.**

16 **Q. Please explain the status of the CR3 Uprate project.**

17 A. The CR3 Uprate project is a three-phase project involving the engineering,
18 design, equipment procurement, and equipment installation necessary to generate
19 an additional, estimated 180 MWe of efficient nuclear power at the Company's
20 existing nuclear unit. The work necessary for this project was divided into three
21 phases to be performed during separate, planned re-fueling outages at CR3. The
22 first phase of the work was successfully completed during the 2007 CR3 refueling
23 outage and it was brought online in January, 2008, providing an additional 12
24 MWe of nuclear energy generation. The second phase of the work, primarily

1 Balance of Plant (“BOP”) work, was performed during the 2009 CR3 16R
2 refueling outage and was successfully installed. When CR3 returns to service the
3 BOP phase work will yield an additional 4 MWe nuclear energy production and
4 support the final EPU phase. PEF is currently performing the engineering and
5 design analyses, licensing, and material procurement necessary to complete the
6 third and final phase of the CR3 Uprate, the EPU phase. Upon completion of the
7 EPU work and NRC approval of the LAR for the power uprate, the Company will
8 be able to increase the power generated at CR3 by an additional 164 MWe.
9

10 **IV. ACTUAL COSTS INCURRED IN 2011 FOR THE CR3 UPRATE
PROJECT.**

1 **Q. What costs did PEF incur for the CR3 Uprate project in 2011?**

2 A. PEF incurred construction costs related to the last phase of the CR3 Uprate
3 project in 2011. The total capital expenditures for 2011, gross of joint owner
4 billing and exclusive of carrying cost, were \$49.0 million. These costs cover (1)
5 license application, (2) project management, (3) permitting, (4) on-site
6 construction facilities, (5) power block engineering, procurement and related
7 construction, and (6) non-power block engineering, procurement, and related
8 construction. Schedule T-6 in Exhibit No. ____ (WG-2) to Mr. Garrett’s testimony
9 further details these costs.
10
11
12

1 **Q. Please describe the total License Application costs incurred and**
2 **explain why the Company incurred them.**

3 A. The License Application costs reflected on the T-6.3 Schedule were \$2.8 million.
4 These costs were incurred for activities related to the finalizing and submittal of
5 the EPU LAR to the NRC.

6 PEF submitted the EPU LAR to the NRC on June 15, 2011. The next step
7 in the NRC review process is referred to as Acceptance Review. During the
8 Acceptance Review process, the NRC technical branches reviewed the submittal
9 to confirm that adequate information was available to complete their review
10 without passing judgment on approval. The NRC completed its Acceptance
11 Review on November 21, 2011. Throughout 2011, PEF worked with the NRC to
12 address Requests for Additional Information ("RAIs") to support NRC submittal
13 acceptance. Feedback from the NRC staff and management during this phase of
14 the review was very positive. PEF is confident that the NRC will approve the
15 EPU LAR in time to support restart from the current extended outage.

16
17 **Q. Please describe the total Project Management costs incurred and**
18 **explain why the Company incurred them.**

19 A. The Company incurred Project Management costs of \$3.8 million. The
20 Company's Project Management costs include the following Project Management
21 activities for the CR3 Uprate project in 2011:

22 (1) project administration, including project instructions, staffing, roles and
23 responsibilities, and interface with accounting, finance, and senior
24 management;

1 (2) contract administration, including status and review of project requisitions,
2 purchase orders, and invoices, contract compliance, and contract expense
3 reviews;

4 (3) project controls, including schedule maintenance and milestones, cost
5 estimation, tracking and reporting, risk management, and work scope control;

6 (4) project management, including project plans, project governance and
7 oversight, task plans, task monitoring plans, lessons learned, and task item
8 completions; and

9 (5) overall management of CR3 Uprate licensing and LAR work.

10 Each activity was conducted under the Company's project management and
11 oversight control policies and procedures I will discuss in more detail below.

12
13 **Q. Please describe the total Permitting costs incurred and explain why the**
14 **Company incurred them.**

15 A. Permitting costs incurred were \$19,650 for permitting needs for 2011. These
16 costs were incurred for revisions to the EPU LAR environmental report.

17
18 **Q. Please describe the total On-Site Construction Facilities costs incurred**
19 **and explain why the Company incurred them.**

20 A. On-Site Construction Facilities costs incurred were \$37,791. These costs were
21 incurred for erection of tent storage for components and tools, temporary lavatory
22 facilities, and rental costs for trailers housing CR3 Uprate project personnel.

23

1 **Q. Please describe the total costs incurred for the Power Block**
2 **Engineering, Procurement and related construction cost items and**
3 **explain why the Company incurred them.**

4 A. The Company incurred \$42.4 million for Power Block Engineering, Procurement,
5 and related construction cost items. The majority of the costs incurred in this
6 category in 2011 were associated with the preparation of design changes for the
7 Phase 3 scope and for procurement of long lead time equipment.

8 Engineering developed the Engineering Change (“EC”) packages for the
9 EPU Phase 3 to various levels of design completion in 2011. Overall to date
10 design completion is estimated at 70 percent. Engineering did not reach 100
11 percent completion in 2011 as previously estimated because of a slow down and
12 reprioritization of work based on the containment repair schedule impacts on EPU
13 installation schedule and plant in-service dates. Phase 3 ECs completed and
14 approved by management in 2011 included:

- 15 ○ EC 68886 – Add Feedwater Heat Exchangers (“FWHE”) 1 (De-aerator
16 Bypass Line)
- 17 ○ EC 79352 – High Pressure Injection Modification
- 18 ○ EC 74873 – Safety Related Motor Operated Valves Specification
- 19 ○ EC 73351 – Feedwater Booster Pump & Feedwater Valve-14/15 Change
20 Out Specification
- 21 ○ EC 73932 – Low Pressure Injection (“LPI”) Crosstie Installation
22 Specification
- 23 ○ EC 73907 – Atmospheric Dump Valve Specification
- 24 ○ EC 78022 – Main Feedwater Pump Specification

- 1 ○ EC 80348 – FWHE 3A/B Feedwater Heater Replacement Specification
- 2 ○ EC 77337 – Inadequate Core Cooling Mitigation System (“ICCMS”)
- 3 Specification
- 4 ○ EC 80137 – ICCMS Core Exit Thermocouple Conduit & Cable Routing
- 5 ○ EC 73794 – Low Pressure Turbine (“LPT”) Implementation
- 6 ○ EC 74980 – Replace (2) LPTs
- 7 ○ EC 73917 – Replace FWHE 2A/2B
- 8 ○ EC 74526 – Replace Condensate Pump/Motor/Head/Valves/Recirculation
- 9 (“CDP”) 1A/1B
- 10 ○ EC 74980 – Replace High Pressure Turbine (“HPT”)
- 11 ○ EC 75004 – Reconcile/Adjust Replacement Once Through Steam
- 12 Generator (“ROTSG”) (ROTSG Orifice Plate)
- 13 ○ EC 75659 – Add Make Up Tank (“MUT”) Injection Line Bypass 1
- 14 ○ EC 76095 – Modify Safety Related Main Steam (“SR MS”)
- 15 Supports/Restraints
- 16 ○ EC76339 – Heavy Haul Path Evaluation
- 17 ○ EC 76344 – Add Vibration (Pipe Vibration Monitoring System)
- 18 ○ EC 77901 – Modify Turbine Building for FWHE 2A/2B Removal

19 In addition, contract payments were made for major components including the
20 Feedwater Heaters 3A/3B and 2A/2B, the Analog Actuation and Control System,
21 Atmospheric Dump Control Valves, Condensate Motors, Booster Pumps, and the
22 In-Core Detector Assemblies. These 2011 Power Block Engineering and
23 Procurement costs were necessary for the implementation of the CR3 Uprate
24 work.

1 **Q. Please describe the total costs incurred for the Non-Power Block**
2 **Engineering, Procurement and related construction cost items and explain**
3 **why the Company incurred them.**

4 A. These costs total \$40,457. The majority of the costs incurred in this category in
5 2011 were associated with transport, storage, and maintenance of the Point of
6 Discharge (“POD”) helper cooling tower parts. As a result of pending and
7 emerging environmental regulations that could impact the fossil units at Crystal
8 River, and due to the schedule shift from the extended 16R outage, the POD
9 portion of the EPU project remained on hold until such time that the impact of
10 these changes can be properly assessed and recommendations presented to senior
11 management.

12
13 **Q. Please explain how the approval of the Motion for Deferral in Docket No.**
14 **110009-EI in the 2011 NCRC proceeding affects your testimony regarding**
15 **true-up of the 2011 CR3 Uprate costs.**

16 A. On August 10, 2011, the Commission approved PEF’s Motion for Deferral of
17 2011 and 2012 projected CR3 Uprate construction expenditures and deferred
18 review of PEF’s 2011 costs to this docket. As a result of this ruling, PEF filed
19 revised NFR AE schedules – attached to Mr. Thomas G. Foster’s revised August
20 12, 2011, testimony as Exhibit No. ____ (TGF-4). PEF had previously filed NFR
21 AE Schedules on May 2, 2011 reflecting its best available estimate at the time for
22 actual/estimated 2011 CR3 Uprate costs. As noted in my May 2, 2011 testimony
23 in Docket No. 110009-EI, these schedules were prepared prior to the March 14,
24 2011 delamination at CR3.

1 In preparing my current testimony the variances described below are based
2 on PEF's actual expenditures for 2011 compared to the AE Schedules attached to
3 Mr. Foster's May 2, 2011 testimony, which reflected actual/estimated 2011 CR3
4 Uprate costs prior to the March 2011 delamination.

5
6 **Q. How did actual capital expenditures for January 2011 through December
7 2011 compare to PEF's actual/estimated costs for 2011?**

8 A. PEF's actual capital expenditures for the CR3 Uprate project in 2011 were lower
9 than PEF's actual/estimated costs for 2011 by \$45.2 million. This variance is
10 primarily due to the extended outage at CR3 and the Company's decision to
11 postpone CR3 Uprate project construction work. I will explain the reasons for the
12 major (more than \$1.0 million) variances below:

13 **License Application:**

14 The 2011 License Application capital expenditures on the T-6 Schedule
15 were \$2.8 million with a total estimate of \$1.2 million, resulting in a
16 variance of \$1.6 million. This variance is primarily due to AREVA
17 engineering support costs associated with PEF responses to NRC RAIs for
18 the EPU LAR being budgeted in engineering but invoiced to licensing.

19
20 **Project Management:**

21 Project Management capital expenditures were \$3.8 million. The original
22 estimate was \$8.5 million, resulting in a variance of (\$4.7 million). This
23 variance is due to reallocation of project management resources based on

1 the deferral of construction activities for Phase 3 of the CR3 Uprate
2 project because of the extended CR3 outage.

3
4 **Power Block Engineering, Procurement and related construction**

5 **costs:**

6 Power Block Engineering, Procurement and related construction costs
7 capital expenditures were \$42.3 million for 2011. The original estimate
8 was \$76.5 million, resulting in a variance of (\$34.2 million). This variance
9 is due to the Company's decision to defer construction activities on the
10 CR3 Uprate project because of the extended CR3 outage and to align such
11 activities with the containment repair estimated schedule. Approximately
12 50 percent of the variance to budget is attributed to deferral of
13 equipment/material payments; approximately 25 percent of the variance to
14 budget is attributed to under-runs in Engineering, Project Management,
15 Health Physics, and Administrative support; and approximately 25 percent
16 of the variance to budget is attributed to deferring 2011 contingency funds.

17
18 **Non-Power Block Engineering, Procurement, and related**

19 **construction cost items:**

20 Non-Power Block capital expenditures were \$40,457. The original
21 estimate was \$7.7 million, resulting in a variance of (approximated \$7.7
22 million). This variance is driven by deferral of the POD/Cooling Tower
23 construction work, which is a result of pending and emerging
24 environmental regulations that could impact the fossil units at Crystal

1 River, and the schedule shift from the extended 16R outage. The POD
2 construction portion of the EPU project remained on hold in 2011 until
3 such time that the impact of these changes can be properly assessed and
4 recommendations presented to senior management.

5
6 **Q. Did PEF incur O&M costs in 2011 for the CR3 Uprate project?**

7 A. Yes. PEF incurred necessary O&M costs to support the CR3 Uprate project work
8 in 2011. These O&M costs are identified and included in Schedule T-4 in Exhibit
9 No. ____ (WG-2) to Mr. Garrett's testimony.

10
11 **Q. How did actual O&M expenditures for January 2011 through December
12 2011 compare with PEF's actual/estimated O&M expenditures for 2011?**

13 A. Schedule T-4A, Line 15, on Exhibit No. ____ (WG-2) to Mr. Garrett's testimony
14 shows that total O&M costs were \$0.5 million or \$18,000 less than estimated.
15 Schedule T-4A shows the variance explanations for the O&M costs categories.
16 There were no major cost variances.

17
18 **Q. Were all of PEF's 2011 CR3 Uprate project costs reasonably and prudently
19 incurred?**

20 A. Yes. PEF reasonably and prudently incurred the 2011 CR3 Uprate project costs.
21 These costs were necessary for the continuation of work for the EPU phase. All
22 of PEF's 2011 CR3 Uprate project costs were reasonably and prudently incurred.

1 V. **ALL COSTS INCLUDED FOR THE CR3 UPRATE ARE**
2 **“SEPARATE AND APART FROM” THOSE COSTS NECESSARY**
3 **TO RELIABLY OPERATE CR3 DURING ITS REMAINING LIFE**

1 Q. **Are the CR3 Uprate project costs included in this NCRC docket for recovery**
2 **separate and apart from those that the Company would have incurred to**
3 **operate CR3 during the extended life of the plant?**

4 A. Yes, PEF has only included for recovery in this proceeding those costs that were
5 incurred solely for the CR3 Uprate project. In other words, the Company only
6 included project costs that would not have been incurred but for the CR3 Uprate
7 project.

8
9 VI. **PROJECT MANAGEMENT AND COST CONTROL OVERSIGHT.**

10 Q. **What project management and cost control oversight policies and**
11 **procedures does PEF utilize for its capital projects?**

12 A. The Company has several project management and cost oversight control policies
13 and procedures that it employs for all of its capital projects on a fleet-wide basis.
14 These are the same Company-wide capital project policies and procedures that are
15 applicable to the Levy Nuclear Project (“LNP”) and that have been approved as
16 reasonable and prudent in previous years NCRC proceedings. PEF continually
17 reviews these policies, procedures, and controls and issues new procedures as
18 necessary based on changing business conditions, organizational changes, and
19 project schedules.

1 **Q. Were the CR3 Uprate project Management and Cost Control Oversight**
2 **policies and procedures the same in 2011 as they were for 2009 and 2010?**

3 A. Yes, they are essentially the same. There have been no substantial changes to the
4 project management and cost oversight controls since the process was described
5 most recently in my direct testimony in Docket No. 110009-EI.

6
7 **Q. Can you please provide an overview of the Company's 2011 project**
8 **management and cost oversight policies and procedures?**

9 A. Yes. The CR3 Uprate project is being undertaken by the Company consistent
10 with its Project Management Manual, which the Company has used to manage
11 capital projects since early in this decade. Additionally, because the CR3 Uprate
12 project is a major capital project for the Company, the project must comply with
13 the Company's Major Capital Projects – Integrated Project Plan (“IPP”)
14 procedure, which provides guidance regarding evaluation and funding
15 authorization for major projects. The CR3 Uprate is also being undertaken by the
16 Company consistent with the project standards established and implemented by
17 Progress Energy's Project Management Center of Excellence organization
18 (“PMCoE”). These standards are based on principles from the internationally
19 recognized Project Management Institute Project Management Body of
20 Knowledge and establish a standardized project management approach that spans
21 tools, templates and processes; training and qualification programs; and adoption
22 of best practices.

23 The CR3 Uprate project was also approved in accordance with the
24 Company's Project Evaluation and Authorization Process. This evaluation and

1 project authorization process has been in place at the Company for many years.
2 The CR3 Uprate project is subject to the Progress Energy Project Governance
3 Policy, which also has been in place for many years. The Company also utilizes
4 several specific project management and cost oversight Nuclear Generation
5 Group (“NGG”) and Corporate procedures.

6
7 **Q. Have PEF’s project management and cost oversight controls substantially**
8 **changed between 2010 and 2011?**

9 A. No, however the Company continuously reviews and revises policies and
10 procedures based on changing conditions, lessons learned, and best industry
11 practices and makes changes as necessary and appropriate. PEF revised more
12 than 75 of its policies and procedures in 2011, and created 13 new policies and
13 procedures since April of 2011. In addition, in late first quarter of 2011, Project
14 Management Controls implemented three revised cost reports that have provided
15 project management a more detailed view of project cost information. The
16 reports include a Variance Report by Project and Work Breakdown Structure
17 (“WBS”), a Contract Summary Report, and a Labor Report.

18
19 **Q. What policies or procedures are in place to assess and mitigate project risks?**

20 A. The Company routinely assesses various project risks and assigns each risk with a
21 probability of occurrence and level of importance in terms of effect on project
22 schedule and cost using its CR3 Uprate Risk Register. The risk register facilitates
23 monitoring and controlling risk by providing a tool to document risk probability,
24 impact, response plans, ownership, triggers, and expected monetary value. It also

1 provides the ability to document risk mitigation opportunities for the project. In
2 addition monthly risk management meetings are held and risk management
3 reports are generated that are the basis for the continuous updates to the overall
4 CR3 Uprate Risk Register.

5
6 **Q. Are employees involved in the CR3 Uprate Project trained in the Company's**
7 **project management and cost control policies and procedures?**

8 A. Yes, they are. PEF's project management team for the CR3 Uprate project has
9 been trained in these Company policies. There are also formal Project Manager
10 qualification requirements for projects of various sizes as well as for other roles
11 within the Project Team (Designated Representative, Field Lead, etc.).

12
13 **Q. What policies and procedures does the Company utilize to ensure that its**
14 **selection and management of outside vendors is reasonable and prudent?**

15 A. First, a requisition is created in the Passport Contracts module for the purchase of
16 services. The requisition is reviewed by the appropriate Contract Specialist in
17 Corporate Services, or field personnel on the CR3 Uprate project, to ensure
18 sufficient data has been provided to process the contract requisition. The Contract
19 Specialist prepares the appropriate contract document from pre-approved contract
20 templates in accordance with the requirements stated on the contract requisition.

21 The contract requisition then goes through the bidding or finalization
22 process. Once the contract is ready to be executed, it is approved online by the
23 appropriate levels of the approval matrix pursuant to the Approval Level Policy
24 and a contract is created. Contract invoices are received by the CR3 Uprate

1 project managers. The invoices are validated by the project managers and
2 Payment Authorizations approving payment of the contract invoices are entered
3 and approved in the Contracts module of the Passport system.

4 When selecting vendors for the CR3 Uprate project, PEF utilizes bidding
5 procedures through a Request For Proposal ("RFP") process when possible for the
6 particular services or materials needed to ensure that the chosen vendors provide
7 the best value for PEF's customers. When an RFP cannot be used, PEF ensures
8 that the contracts with the sole source vendors contain reasonable and prudent
9 contract terms with adequate pricing provisions (including fixed price and/or firm
10 price, escalated according to indexes, where possible). When deciding to use a
11 sole source vendor, PEF must provide a sole source justification for not doing an
12 RFP for the particular work.

13 In addition, CR3 EPU contractor oversight and management, including
14 external vendors, has been a continuous project focus in an effort to improve
15 schedule adherence, vendor deliverables, and process efficiencies. Policies and
16 procedures for contractors are revised and updated on an ongoing basis to include
17 lessons learned. For 2011, changes included (1) establishment and
18 implementation of new EPU Organization and EPU Engineering Charts; (2) the
19 addition of scheduling resources; and (3) establishing quarterly management
20 review meetings to discuss scope and resources for vendors.

21
22
23

1 Q. **Does the Company verify that the Company's project management and cost**
2 **control policies and procedures are followed?**

3 A. Yes, it does. PEF uses internal audits to verify that its program management and
4 oversight controls are being implemented and are effective in practice. Quality
5 assurance reviews and audits of external vendors are also conducted.

6 On March 23, 2011, the Florida Nuclear Plant Cost Recovery audit was
7 completed and issued. This audit involved testing a sample of invoices for
8 compliance with the Nuclear Plant Cost Recovery Rule related to the CR3 Uprate
9 project. The overall audit was effective and no specific observations or
10 recommendations were identified or resulted from the audit.

11 In addition, the Nuclear Oversight Organization ("NOS") conducted an
12 assessment of the Nuclear Upgrades Section (across the NGG fleet) during the
13 period April 5, 2011 through May 26, 2011. This was a multi-site assessment
14 which included the EPU project. This assessment has been completed and overall
15 assessment was needs improvement, but generally solid performance. The review
16 team noted two findings for the CR3 Uprate project. These findings related to
17 adverse condition and quality assurance documentation and reporting. These
18 finding have been resolved and closed.

19 Several contractor and quality assurance evaluations were also performed
20 in 2011 including at the Sciencetech facility and at the Siemens regional and
21 international facilities and a NUPIC Joint Utility Audit of Energetech – Curtiss
22 Wright Flow Control Corporation at its California facility. The results of the
23 Siemens facilities reviews were satisfactory with no open items. The Sciencetech
24 audit concluded Sciencetech had an effective quality assurance program and

1 identified minor variant conditions which were corrected through the vendor's
2 internal processes. The NUPIC audit concluded Enertech had an effective quality
3 assurance program and issued three finding that were administrative in nature.
4

5 **Q. Has the Commission previously determined that these CR3 Uprate project**
6 **management and cost oversight controls were reasonable and prudent?**

7 A. Yes. In Order No. PSC-09-0783-FOF-EI, issued Nov. 19, 2009 and Order No.
8 PSC-11-0547-FOF-EI, issued Nov. 23, 2011, the Commission determined that the
9 CR3 Uprate project management and cost oversight controls were reasonable and
10 prudent for 2008, 2009, and 2010 respectively. As I discussed above, the
11 Company's 2011 CR3 Uprate project management and cost oversight controls are
12 substantially the same as they were in 2008, 2009, and 2010.
13

14 **Q. Are the Company's project management and cost control policies and**
15 **procedures on the CR3 Uprate project reasonable and prudent?**

16 A. Yes, they are. These project management policies and procedures reflect the
17 collective experience and knowledge of the Company across the fleet. These
18 policies and procedures have also been tested by the Company on other capital
19 projects. Any lessons learned from those projects have been incorporated in the
20 current policies and procedures. In addition, as I discussed, PEF's policies and
21 procedures are reviewed and revised on a continuous basis as necessary and have
22 been approved as reasonable and prudent by the Commission. We believe,
23 therefore, that our project management policies and procedures are consistent

1 with best practices for capital project management in the industry and are
2 reasonable and prudent.

3

4 **Q. Does this conclude your testimony?**

5 A. Yes, it does.

IN RE: NUCLEAR COST RECOVERY CLAUSE
BY PROGRESS ENERGY FLORIDA, INC.
FPSC DOCKET NO. 120009-EI

DIRECT TESTIMONY OF JON FRANKE

1 **I. INTRODUCTION AND QUALIFICATIONS.**

2 **Q. Please state your name and business address.**

3 A. My name is Jon Franke. My business address is 15760 W. Powerline St., Crystal
4 River, FL 34442.

5
6 **Q. By whom are you employed and in what capacity?**

7 A. I am employed by Progress Energy Florida, Inc. ("PEF" or the "Company") in the
8 Nuclear Generation Group and serve as Vice President – Crystal River Nuclear
9 Plant.

10
11 **Q. What are your job responsibilities?**

12 A. As Vice President I am responsible for the safe operation of the nuclear
13 generating station. The Plant General Manager, Site Support Services and
14 Training sections report to me. Additionally, I have responsibilities in oversight
15 of major project activities at the station. Through my management team I have
16 more than 400 employees that perform the daily work required to operate and

1 maintain the station and provide engineering, training, and other support to the
2 station.

3
4 **Q. Please summarize your educational background and work experience.**

5 A. I have a Bachelor's degree in Mechanical Engineering from the United States
6 Naval Academy at Annapolis. I have a graduate degree in the same field from
7 the University of Maryland and a Masters of Business Administration from the
8 University of North Carolina at Wilmington.

9 I have over 25 years of experience in nuclear operations. I received
10 training by the U.S. Navy as a nuclear officer and oversaw the operation and
11 maintenance of a nuclear aircraft carrier propulsion plant during my service.
12 Following my service in the Navy I was hired by Carolina Power and Light and
13 have been with the Company through the formation of Progress Energy. My
14 early assignments involved engineering and operations, including oversight of the
15 daily operation of the Brunswick nuclear plant as a U.S. Nuclear Regulatory
16 Commission ("NRC") licensed Senior Reactor Operator. I was the Engineering
17 Manager of that station for three years prior to assignment to Crystal River as the
18 Plant General Manager in 2002. In April 2009, I was promoted to my current
19 position.

20
21
22
23

1 **II. PURPOSE AND SUMMARY OF TESTIMONY.**

2 **Q. What is the purpose of your direct testimony?**

3 A. The purpose of my direct testimony is to support the Company's request for cost
4 recovery pursuant to the Nuclear Cost Recovery Rule for the replacement and
5 modification of equipment at the Crystal River 3 ("CR3") nuclear power plant in
6 connection with Phase 3, the Extended Power Uprate ("EPU") for the CR3 Uprate
7 project ("CR3 Uprate"). My testimony supports the Company's actual/estimated
8 and projected costs for 2012 and 2013, respectively, and explains why these CR3
9 Uprate costs are reasonable. Finally, my testimony explains why the CR3 Uprate
10 project is feasible, pursuant to Rule 25-6.0423(5)(c)5, Florida Administrative
11 Code ("F.A.C.").

12
13 **Q. Have you previously filed testimony in this docket?**

14 A. Yes, I filed testimony on March 1, 2012 in support of the actual costs incurred in
15 2011 for the CR3 Uprate project.

16
17 **Q. Do you have any exhibits to your testimony?**

18 A. Yes, I am sponsoring the following exhibits to my testimony:

- 19 ● Exhibit No. ___ (JF-1), NRC acceptance review letter for the EPU License
20 Amendment Request ("LAR") for the CR 3 Uprate project;
- 21 ● Exhibit No. ___ (JF-2), Integrated Project Plan ("IPP") Interim Approval
22 3A (Short Form) for the CR3 Uprate project;

- 1 ● Exhibit No. ___ (JF-3), a description of the engineering scope changes for
- 2 the EPU phase work and a schedule identifying the phased work scope to
- 3 successfully implement the power uprate for the CR3 Uprate project;
- 4 ● Exhibit No. ___ (JF-4), the Company's updated cumulative present value
- 5 revenue requirements ("CPVRR") analysis for the CR3 Uprate project;
- 6 and
- 7 ● Exhibit No. ___ (JF-5), February 2012 EPU Options Update.

8 Also, I am co-sponsoring portions of Schedules AE-4, AE-4A, AE-6.3 and
9 sponsoring Schedules AE-6A.3 through AE-7B and Appendix B of the Nuclear
10 Filing Requirements ("NFRs"), included as part of Exhibit No. ___ (TGF-4) to Mr.
11 Thomas G. Foster's testimony. I will also be co-sponsoring portions of Schedules
12 P-4 and P-6.3; sponsoring Schedules P-6A.3 through P-7B of Exhibit No. ___
13 (TGF-5) to Mr. Foster's testimony; co-sponsoring Schedules TOR-4 and TOR-6;
14 and sponsoring TOR-6A and TOR-7 of Exhibit No. _____(TGF-6) to Mr.
15 Foster's testimony. A description of these schedules follows:

- 16 ● Schedule AE-4 reflects Capacity Cost Recovery Clause ("CCRC")
- 17 recoverable Operations and Maintenance ("O&M") expenditures for the
- 18 period.
- 19 ● Schedule AE-4A reflects CCRC recoverable O&M expenditure variance
- 20 explanations for the period.
- 21 ● Schedule AE-6 reflects actual/estimated monthly expenditures for
- 22 preconstruction and construction costs for the period.
- 23 ● Schedule AE-6A reflects descriptions of the major tasks.

- 1 • Schedule AE-6B reflects annual variance explanations.
- 2 • Schedule AE-7 reflects contracts executed in excess of \$1.0 million.
- 3 • Schedule AE-7A reflects details pertaining to the contracts executed in excess
- 4 of \$1.0 million.
- 5 • Schedule AE-7B reflects contracts executed in excess of \$250,000, yet less
- 6 than \$1.0 million.
- 7 • Appendix B reflects the reconciliation of the beginning construction work in
- 8 progress (“CWIP”) balance for those assets placed into rate base that are not
- 9 yet in service as detailed on AE-2.3.
- 10 • Schedule P-4 reflects CCRC recoverable O&M expenditures for the period.
- 11 • Schedule P-6 reflects projected monthly expenditures for preconstruction and
- 12 construction costs for the period.
- 13 • Schedule P-6A reflects descriptions of the major tasks.
- 14 • Schedule P-7 reflects contracts executed in excess of \$1.0 million.
- 15 • Schedule P-7A reflects details pertaining to the contracts executed in excess
- 16 of \$1.0 million.
- 17 • Schedule P-7B reflects contracts executed in excess of \$250,000, yet less than
- 18 \$1.0 million.
- 19 • Schedule TOR-6 reflects actual to date and projected annual expenditures for
- 20 preconstruction and construction costs for the duration of the project.
- 21 • Schedule TOR-6A reflects descriptions of the major tasks.
- 22 • Schedule TOR-7 reflects initial project milestones in terms of costs, budget
- 23 levels, initiation dates, and completion dates.

1 These exhibits, schedules, and appendices are true and accurate.

2

3 **Q. Please summarize your testimony.**

4 A. PEF is committed to completion of the EPU phase of the CR3 Uprate project for
5 the benefit of the Company and its customers. The current project plan is to
6 complete the EPU phase during the current, extended CR3 16R outage. The
7 Company performed a quantitative and qualitative feasibility analysis of
8 completing the EPU phase of the CR3 Uprate project. Completion of the EPU
9 phase is feasible from a technical and regulatory perspective. Completion of the
10 EPU phase of the CR3 Uprate project is also economically feasible. The EPU
11 phase of the CR3 Uprate project will provide PEF and its customers substantial
12 operational and carbon cost compliance savings. PEF's customers will benefit
13 from additional fuel savings and potential carbon cost savings from completion of
14 the EPU phase of the CR3 Uprate project when CR3 returns to commercial
15 service.

16 The Company is providing the Florida Public Service Commission ("PSC"
17 or the "Commission") with its 2012 actual/estimated and 2013 projected CR3
18 Uprate project costs with this filing in accordance with the Commission's nuclear
19 cost recovery rule. The 2012 actual/estimated and 2013 projected CR3 Uprate
20 project costs reflect the current plan to implement the EPU phase of the CR3
21 Uprate project in the current, extended CR3 re-fueling outage and reflect the best
22 available information the Company currently has with respect to the CR3 Uprate

1 project costs. These costs are reasonable, subject to true-up under the
2 Commission's rule next year.

3 The CR3 Uprate project is still in the best interests of PEF and its
4 customers. It provides PEF and its customers additional carbon-free, fuel savings
5 from clean nuclear energy generation while improving the Company's fuel
6 diversity and reducing the Company's reliance on fossil fuels to generate
7 electricity for PEF's customers. The current, 2012 and 2013 CR3 Uprate project
8 costs to achieve these benefits are reasonable. For this reason, the Company
9 requests that the Commission determine that PEF is entitled to recover its prudent
10 and reasonable CR3 Uprate project costs.

11
12 **III. 2012 ACTUAL/ESTIMATED AND 2013 PROJECTED PERIOD COSTS.**

13 **A. CR3 Uprate Project Status.**

14 **Q. Does the Company plan to complete the CR3 Uprate project?**

15 A. Yes, PEF currently plans to repair the CR3 containment building and complete
16 the EPU phase of the CR3 Uprate project.

17
18 **Q. What is the current CR3 Uprate project schedule?**

19 A. PEF plans to complete the EPU phase of the CR3 Uprate project during the
20 current, extended CR3 16R re-fueling outage. Under this schedule, PEF plans to
21 start EPU construction in June 2013 and complete implementation of the EPU in
22 June 2014 with an expected return of CR3 to commercial service in November
23 2014 and the EPU expected in service in December 2014. The Company's

1 actual/estimated 2012 and projected 2013 CR3 Uprate costs are based on the
2 Company's current schedule to complete the EPU phase during the CR3 16R
3 extended re-fueling outage.
4

5 **Q. Is the Company's current schedule consistent with the Company's plan last**
6 **year to complete the CR3 Uprate project?**

7 A. Yes. In early 2011, the Company planned to complete the EPU phase in the next
8 CR3 re-fueling outage. That next CR3 re-fueling outage, R17, was planned for
9 Spring 2013 with the expected return of CR3 to commercial service in 2011 upon
10 completion of the repairs to the CR3 containment building. The Company had re-
11 scheduled the CR3 Uprate project work in late 2010 and early 2011 to meet this
12 project plan. Accordingly, the Company already planned to perform EPU phase
13 construction work in 2013 when the second delamination occurred in March
14 2011. As a result of that event, the EPU project management team evaluated the
15 EPU phase work and schedule to provide the Company the flexibility to continue
16 to meet this EPU implementation schedule if that proved to be the prudent course
17 of action. The extended CR3 R16 re-fueling outage further provided the
18 Company the opportunity to gain schedule and cost efficiencies because the EPU
19 phase work in 2013 no longer had to be completed during the limited timeframe
20 of a typical re-fueling outage, but instead could be implemented over the course
21 of the year. The current EPU phase work schedule and costs reflect these
22 efficiencies.
23

1 **Q. Is the Company's current EPU phase schedule consistent with the**
2 **Company's current repair plan for the CR3 containment building?**

3 A. Yes. The Company's current CR3 Uprate project schedule aligns completion of
4 the EPU phase of the CR3 Uprate project with the current plan to repair the CR3
5 containment building. The Company currently plans to repair the CR3
6 containment building and return CR3 to commercial service in November 2014.

7

8 **Q. Has the Company commenced repairs to the CR3 containment building?**

9 A. No, not at this time. Last year, based on an initial review and analysis, the
10 Company determined that the CR3 containment building should be repaired,
11 selected a repair option, and developed a preliminary cost estimate for the repair.
12 The Company moved forward systematically with additional, detailed engineering
13 analyses and designs to develop a final repair plan. The engineering design
14 process of the final CR3 containment building repair plan is still under way. The
15 Company expects to complete that process later this year. A number of factors
16 might affect the current CR3 containment building repair plan, the estimated
17 November 2014 commercial in-service date, or the estimated repair costs,
18 including the ultimate work scope, engineering designs, testing, weather, and
19 regulatory reviews, among other potential developments. Currently, however, the
20 Company intends to repair the CR3 containment building and complete the EPU
21 phase of the CR3 Uprate project.

22

1 **Q. Why is the Company proceeding with work on the EPU phase of the Uprate**
2 **project when the Company has not yet commenced repairs of the CR3**
3 **containment building?**

4 A. Completion of the CR3 Uprate project during the current extended, CR3 re-
5 fueling outage is in the best interests of PEF and its customers. Completion of the
6 EPU phase of the CR3 Uprate project in the current CR3 re-fueling outage
7 provides fuel savings benefits to PEF's customers. To obtain these benefits the
8 Company must continue with EPU phase work in 2012 and 2013 to complete the
9 CR3 Uprate project when CR3 returns to commercial service under the current
10 plan to repair the CR3 containment building. As I explained above, the Company
11 currently plans to repair CR3, absent some unforeseen risk, design, engineering,
12 or licensing impediment to repairing the CR3 containment building, and return
13 CR3 to commercial service in November 2014.

14 The Company has, however, developed an alternative plan to complete the
15 EPU phase of the CR3 Uprate project in the next planned CR3 re-fueling outage,
16 in the event that the Company's current plan to repair the CR3 containment
17 building is delayed or unforeseen risks or other impediments require the Company
18 to complete the EPU phase in the CR3 R17 re-fueling outage. As I explain later,
19 the Company evaluated this alternative project plan in its economic feasibility
20 analysis and determined that it is cost-effective for the Company and its
21 customers. Current project costs in 2012 are virtually identical whether the
22 Company performs the EPU phase work in the current outage or in the next
23 planned re-fueling outage. As a result, PEF has maximum flexibility this year to

1 continue with the EPU phase without adding additional work scope or cost prior
2 to the CR3 repair plan being finalized this year as currently expected.
3

4 **B. EPU Phase Work in 2012 and 2013.**

5 **Q. What does the Company's EPU phase work plan include in 2012 and 2013?**

6 A. The EPU phase work plan includes: (1) engineering design work for the EPU
7 phase; (2) engineering and licensing support work for the EPU LAR review by
8 the NRC; and (3) payments for Long Lead time Equipment ("LLE") items for the
9 EPU phase of the CR3 Uprate project. The EPU phase work plan further includes
10 project management of these EPU phase work activities in 2012 and 2013.

11 Schedule AE-6.3 of Mr. Foster's Exhibit No. ___ (TGF-4) contains the total
12 2012 actual/estimated construction costs for these EPU phase work activities in
13 the following categories: (1) License Application costs estimated at \$2.8 million;
14 (2) Power Block Engineering, Procurement, and related construction costs
15 estimated at \$45.4 million; (3) Non-Power Block Engineering, Procurement and
16 related construction costs estimated to be \$0.2 million; and (4) Project
17 Management costs estimated at \$3.2 million.

18 Schedule P-6.3 of Mr. Foster's Exhibit No. ___ (TGF-5) reflects the 2013
19 projected construction costs for these EPU phase work activities in the following
20 categories: (1) License Application costs estimated at \$2.4 million; (2) Power
21 Block Engineering, Procurement, and related construction costs estimated at
22 \$101.5 million; (3) Non-Power Block Engineering, Procurement and related
23 construction costs estimated at \$0.1 million; (4) On-Site Construction Facilities

1 costs estimated at approximately \$0.6 million; and (5) Project Management costs
2 estimated to be \$5.7 million.

3
4 **Q. How did PEF estimate the 2012 and 2013 License Application costs for the**
5 **CR3 Uprate project?**

6 A. PEF developed the License Application cost estimates using utility industry
7 standard cost estimation practices, with the best available information at this time,
8 including its engineering judgment and experience, and the incorporation of
9 “lessons learned” on its EPU LAR and other utility LARs, in its estimates of the
10 cost to work with the NRC during the EPU LAR review process at the NRC. The
11 License Application costs for 2012 and 2013 reasonably reflect the cost of the
12 work necessary to obtain NRC approval of the EPU LAR.

13
14 **Q. What is the status of the EPU LAR?**

15 A. PEF submitted the EPU LAR to the NRC on June 15, 2011. The next step in the
16 NRC review process is referred to as Acceptance Review. During the Acceptance
17 Review process, the NRC technical branches reviewed the submittal to confirm
18 that adequate information was available to complete their review of the EPU
19 LAR. The NRC completed its Acceptance Review on November 21, 2011 and
20 determined that the EPU LAR satisfied the Acceptance Review. See the NRC
21 acceptance review letter for the EPU LAR for the CR 3 Uprate project attached as
22 Exhibit No. ___ (JF-1) to my testimony.

1 The NRC is now reviewing the EPU LAR for LAR approval. For 2012
2 and 2013, the Company's License Application costs include the work necessary to
3 support the NRC's review of the EPU LAR. The NRC has indicated that up to
4 eighteen (18) technical branches will be actively involved in the review. The
5 NRC approval review process involves Requests for Additional Information
6 ("RAIs") from the NRC technical branches to obtain information necessary for
7 the NRC review and approval of the EPU LAR. PEF is working with the NRC to
8 address RAIs. To date, most of these branches have completed their review
9 sufficiently to request some level of additional information from PEF and PEF has
10 responded to more than half of the branches. Remaining RAIs from the NRC
11 branches cover some of the more technically complex areas of the review. PEF
12 has scheduled a pre-review workshop with the NRC to discuss some of the
13 distinctive features of the CR3 plant, its safety analyses, and EPU impacts. PEF
14 expects to work on the responses to the remaining RAIs from the NRC branches
15 throughout 2012 and into 2013. PEF's Licensing Application costs for 2012 and
16 2013 reflect the Company's engineering and licensing work to respond to the
17 NRC RAIs for the NRC technical branch review of the EPU LAR.

18
19 **Q. Does PEF expect the NRC to approve the EPU LAR for the CR3 Uprate?**

20 A. Yes. Feedback from NRC staff and management during the NRC review of the
21 EPU LAR is very positive. PEF is confident that the NRC will approve the EPU
22 LAR in time to support re-start of CR3 from the current extended 16R outage as

1 currently planned. Based on the feedback from NRC with respect to the NRC
2 review schedule, PEF believes the NRC will approve the EPU LAR in 2013.

3
4 **Q. Please describe the Power Block Engineering, Procurement and related**
5 **construction cost activities for the CR3 Uprate project in 2012 and 2013.**

6 A. The Power Block Engineering, Procurement, and related construction activities
7 for the CR3 Uprate project include continued engineering design work to reach an
8 optimal design completion percentage in time for implementation of the
9 engineering change ("EC") packages for the EPU phase work and continued
10 progress payments based on pre-existing contractual commitments for the LLE
11 necessary for the EPU phase of the CR3 Uprate project.

12 The EC packages contain the detailed engineering design instructions for
13 the EPU modifications for implementation or installation by the construction
14 contractor for the EPU phase work. The EPU EC packages are approximately 70
15 percent complete. The remaining work to complete the EC packages for the EPU
16 modifications will be completed in 2012 and 2013. PEF also expects to award the
17 EPU phase construction contract early in 2013 under the current EPU phase
18 schedule. Under that schedule, in 2013 PEF will begin to mobilize construction
19 resources, perform constructability reviews, receive equipment and materials,
20 begin pre-fabrication activities, and continue to perform vendor oversight for the
21 EPU phase work.

22 PEF will continue to make necessary progress payments on the LLE
23 necessary for the power uprate in 2012 and 2013. Last year, PEF reviewed each

1 contract and change order for EPU phase work and no contract or change order
2 was executed without senior management or project management approval.

3 Approval for new and continued payments on contracts and change orders was
4 based on the determination that the contract or change order was reasonable and
5 necessary to complete the EPU phase work during the current CR3 outage. PEF
6 accordingly continued payments on the critical path LLE items to implement the
7 EPU phase in the current extended CR3 R16 re-fueling outage. Most of these
8 LLE progress payments for 2012 and 2013 reflect pre-existing contractual
9 commitments. Deferral of these payments cannot be accomplished without
10 cancellation or suspension of contracts, which would result in penalties and an
11 uncertain future regarding LLE contract renewals to meet the current EPU phase
12 work schedule. As a result, PEF must continue with LLE progress payments in
13 2012 and 2013 to complete the EPU phase work during the current extended CR3
14 R16 re-fueling outage.

15
16 **Q. Are the Power Block Engineering, Procurement and related construction**
17 **costs in 2012 and 2013 reasonable?**

18 A. Yes. As I explained, this work scope is necessary to implement the EPU phase of
19 the CR3 Uprate project and achieve the power uprate when CR3 is returned to
20 service under the current Company plan to repair CR3 and return it to commercial
21 service by November 2014. PEF estimated its 2012 and projected its 2013 power
22 block engineering, procurement, and related construction item costs using actual
23 contract figures and project schedule milestones under its current EPU phase

1 work plan and schedule. Actual contractual payment amounts and payment
2 schedule terms are used for the cost estimates and projections and, therefore, the
3 2012 and 2013 power block engineering, procurement, and related construction
4 item cost projections are reasonable.

5

6 **Q. Please describe the Non-Power Block Engineering, Procurement and related**
7 **construction cost activities for the CR3 Uprate project in 2012 and 2013.**

8 A. These activities are for the Point of Discharge (“POD”) cooling tower for the CR3
9 Uprate project. Construction of an additional cooling tower is necessary to
10 mitigate the additional heat generated at CR3 power uprate conditions in the site
11 cooling water discharge canal. The additional cooling tower maintains the
12 cooling water temperature below the permitted maximum temperature at the point
13 of return to the Gulf of Mexico.

14 The work necessary to permit, design, engineer, and procure and
15 manufacture equipment and material for the additional cooling tower was placed
16 on hold as a result of the extended CR3 outage. The POD work was suspended to
17 provide PEF time to evaluate the need for this work under new and evolving
18 environmental requirements affecting the Company’s generation resource options
19 and plans. These environmental regulations may impact operation of the fossil
20 units at Crystal River, and therefore, impact the need for the additional cooling
21 tower to mitigate the additional heat generated by the CR3 power uprate. The
22 extended CR3 outage provides additional time for the Company to evaluate these
23 environmental regulations, some which have only been issued this year. Under

1 the current schedule for the EPU phase work, PEF does not need to commence the
2 POD construction work until April 2014 in order to complete the POD work by
3 April 2015 prior to the first summer of CR3 operation at power uprate conditions.
4 As a result, PEF has additional time to evaluate the evolving environmental
5 regulatory requirements and their impact on the Company's generation operations
6 before commencing with POD construction work for the EPU phase of the CR3
7 Uprate project.

8 The cost estimates for the POD work in 2012 and 2013 are for reasonable
9 storage costs for equipment associated with the POD cooling tower. PEF
10 estimates that it will incur approximately \$0.2 million and \$0.1 million in 2012
11 and 2013 respectively, for these non-power block engineering, procurement and
12 related construction activities, as reflected in the NFR schedules attached to Mr.
13 Foster's testimony.

14
15 **Q. What On-Site Construction Facilities work will be done in 2012 and 2013 for**
16 **the CR3 Uprate project?**

17 A. These are primarily 2013 costs to install temporary equipment storage and
18 personnel staging facilities for the additional construction personnel in
19 preparation for the EPU phase construction work. PEF developed these on-site
20 construction facilities cost estimates on a reasonable engineering basis, using the
21 best available information and PEF's experience with other construction projects,
22 including completion of phase two of the CR3 Uprate project, consistent with
23 utility industry and PEF practice. These costs are therefore reasonable.

1 **Q. Can you explain the Project Management work in 2012 and 2013 for the CR3**
2 **Uprate project?**

3 A. Yes. PEF will continue to incur costs to manage the CR3 Uprate project through
4 the successful completion of the EPU phase of the project. Project management
5 costs, accordingly, are on-going as we continue to prepare for the EPU phase
6 work under the current EPU phase work plan and schedule. PEF's project
7 management costs include the activities conducted pursuant to our project
8 management and cost control oversight policies and procedures necessary to
9 support, supervise, and manage the EPU phase of the CR3 Uprate project. These
10 project management and cost control policies and procedures were generally
11 described in my March 1, 2012 testimony, and in prior testimony in prior nuclear
12 cost recovery clause proceedings.

13 As I have explained before, consistent with these project management and
14 cost control policies and procedures, the Company's project management work
15 consists of : (1) project administration, including project instructions, staffing,
16 roles, and responsibilities, and interface with accounting, finance, and senior
17 management; (2) contract administration, including status and review of project
18 requisitions, purchase orders, and invoices, contract compliance, and contract
19 expense reviews; (3) project controls, including schedule maintenance and
20 milestones, cost estimation, tracking and reporting, risk management, and work
21 scope control; (4) project management, including project plans, project
22 governance and oversight, task plans, task monitoring plans, lessons learned, and
23 task item completions; (5) project training, including the uprate project training

1 program, training of personnel in accordance with the training program, and
2 maintaining training records; and (6) management of the CR3 Uprate licensing
3 work. These activities are necessary to ensure that the CR3 Uprate project work
4 scope, schedule, and cost to implement the work scope achieve the CR3 Uprate
5 project objectives.

6 Consistent with our cost estimation methodologies and past practice on the
7 CR3 Uprate project, the CR3 Uprate project management cost estimates for 2012
8 and 2013 were developed using the best available information to the Company on
9 the scope of the project management activities, our experience and “lessons
10 learned” from managing the Uprate and other projects, knowledge gained from
11 the industry, and PEF best management practices. As a result, PEF project
12 management costs for 2012 and 2013 are reasonable.

13
14 **Q. Are the actual/estimated 2012 and projected 2013 costs for the CR3 Uprate**
15 **project separate and apart from costs that the Company would have**
16 **incurred to operate CR3 during the extended life of the plant?**

17 A. Yes, they are. PEF only includes for recovery in this proceeding those costs that
18 were incurred or that will be incurred solely for the CR3 Uprate project. No costs
19 are included in the CR3 Uprate project that are needed to continue the operation
20 of the plant for an additional twenty (20) years at power levels prior to the power
21 uprate as a result of the CR3 Uprate project.

1 **IV. TRUE UP TO ORIGINAL COST FILING FOR 2012.**

2 **Q. Has the Company filed schedules with the information necessary to true up**
3 **the original estimates to the actual costs incurred for the CR3 Uprate**
4 **project?**

5 A. Yes, these schedules are provided in Exhibit No. ____ (TGF-6) to Mr. Foster's
6 testimony, Schedules TOR-1 through TOR-7.

7
8 **Q. What is the current total project cost estimate, compared to the original**
9 **estimate for the CR3 Uprate project?**

10 A. The total current CR3 Uprate project cost estimate, exclusive of Allowance for
11 Funds Used During Construction ("AFUDC") and including fully loaded costs, is
12 \$617 million (\$556 million is applicable to the CR3 Uprate and included in the
13 NFR schedules in this nuclear cost recovery clause ("NCRC") proceeding). The
14 current CR3 Uprate project cost estimate remains unchanged from last year and is
15 included on Schedule TOR-7 in Exhibit No. ____ (TGF-6) to Mr. Foster's
16 testimony.

17 As I have explained before, this estimate cannot be directly compared to
18 the original estimate provided in the need determination proceeding because the
19 estimate in the need proceeding reflected the estimated direct project costs and not
20 the full "Financial View" or fully loaded project costs. The original CR3 Uprate
21 project cost estimate inclusive of the indirect costs is \$439.3 million as presented
22 in Schedule TOR-7. The total project cost approved through IPP Revision 3 for
23 the CR3 Uprate project was \$479.4 million, of which \$418.6 million was driven

1 by the CR3 Uprate project. In August 2011, IPP Revision 3A (Short Form) was
2 executed to reflect the total financial view budget estimate of \$617 million, an
3 increase of \$138 million for the CR3 Uprate project, based on the current EPU
4 phase work schedule for completion of the CR3 Uprate project during the current
5 extended CR3 R16 re-fueling outage. See IPP Interim Approval 3A (Short Form)
6 for the CR3 Uprate project attached as Exhibit No. ____ (JF-2) to my testimony.
7

8 **Q. How was the current total project cost estimate for the CR3 Uprate project**
9 **developed?**

10 A. The current CR3 Uprate project cost estimate was developed as part of a rigorous
11 analysis last year of the Uprate project needs and costs. It includes EPU phase
12 construction costs based on an estimate from an independent construction
13 contractor, additional ECs for the EPU work necessary to accomplish the full
14 power uprate that are now 70 percent design complete, and the estimates of our
15 CR3 Uprate project management team consistent with PEF's project management
16 and cost control policies and procedures and the Association for the Advancement
17 of Cost Engineering ("AACE") cost estimation guidelines. The current status of
18 the CR3 Uprate project supports an AACE Class 2 estimate, which is accurate
19 between -15 percent and +20 percent, as reflected in the contingency in the
20 current CR3 Uprate total project cost estimate. The current total CR3 Uprate
21 project cost estimate represents the results of the rigorous cost analysis and review
22 that is required to prepare an IPP revision for management approval. The current

1 CR3 Uprate project cost estimate therefore represents the best information
2 regarding the CR3 Uprate project costs that is available to the Company.
3

4 **Q. Why have the CR3 Uprate project costs increased from IPP Revision 3 to the**
5 **Company's current total project cost estimate reflected in IPP Revision 3A?**

6 A. The CR3 Uprate project costs have primarily increased as a result of an increase
7 in the scope of and assessment of the work necessary to successfully implement
8 the full 180 MWe power uprate in the EPU phase of the project work as the EPU
9 phase work has naturally progressed. The increased work scope required for the
10 power uprate is described in the EC packages for material and equipment
11 modifications to the plant. Some of these ECs represent new work scope, some
12 represent revised work scope, and some represent the separation of work scope
13 into its own EC package. A description of these EC packages is included in
14 Exhibit No. ___ (JF-3) to my testimony. The increased scope of EPU phase work
15 represented by some of these ECs and the further assessment of the EPU phase
16 work as the EPU phase naturally progressed led to increases in the engineering,
17 procurement, construction, and project management costs for the Uprate project
18 with the largest increases in the engineering and construction costs for the project.
19

20 **Q. What are the reasons for the increased work scope and assessment for the**
21 **EPU phase of the Uprate project?**

22 A. The main reason for the increased work scope and assessment of the EPU phase
23 of the Uprate project was the natural progression of design, engineering, and

1 construction work for this three-phased project. The most efficient means of
2 performing this work was to focus design and engineering work on each phase of
3 work in the order that the phased work was planned. As a result, the completion
4 of the design and engineering work for the EPU phase naturally followed the
5 completion and implementation of the work for phases one and two of the Uprate
6 project. Consequently, the full scope and assessment of the EPU phase work was
7 not known and could not be known earlier in the project when the design and
8 engineering work was focused on completing phases one and two to timely
9 construct and install the material and equipment in those phases during the first
10 two CR3 re-fueling outages when Uprate project work was performed. While
11 design, engineering, and procurement work commenced for all three phases after
12 the need for the project was approved by the Commission, the emphasis of the
13 design, engineering, procurement, and construction work was on each phase of
14 the work in the order that each phase of the Uprate project work was performed.

15
16 **Q. Why did the Uprate project plan divide the work into three phases in**
17 **separate CR3 re-fueling outages?**

18 A. This was the CR3 Uprate project plan. It consisted of three phases of
19 modification and efficiency enhancements to the CR3 plant over the course of
20 three separate CR3 re-fueling outages to ultimately increase the power output of
21 CR3 by 180 MWe to about 1,080 MWe. Because the entire CR3 Uprate project
22 work could not be performed during a single re-fueling outage the project was
23 divided into work phases during distinct, successive CR3 re-fueling outages. This

1 plan took advantage of the period of time that CR3 was off-line for re-fueling and
2 maintenance so PEF did not have to take CR3 off-line to perform the CR3 Uprate
3 work. The three-phased Uprate project work plan in successive CR3 re-fueling
4 outages, therefore, benefitted customers by maximizing the fuel savings benefits
5 to customers.

6 PEF has successfully implemented the Uprate project plan. PEF
7 completed the first phase during the R15 CR3 re-fueling outage that led to a 12
8 MWe increase in the CR3 power output commencing in 2008. The second phase
9 was installed during the R16 CR3 re-fueling outage in 2009. The current EPU
10 phase work plan calls for installation of the final phase during the current,
11 extended R16 re-fueling outage. When the EPU phase work is complete and CR3
12 returns to commercial service, customers will receive the fuel savings benefits
13 from an additional 164 MWe in CR3's power output. Consequently, PEF can still
14 complete the CR3 Uprate project when CR3 is off-line as originally planned to
15 maximize the fuel savings from the power uprate for PEF's customers.

16
17 **Q. What EPU phase work increased as PEF focused on the EPU phase?**

18 A. The development of more detailed engineering design information for the EPU
19 modifications led to increased costs and the identification of necessary changes to
20 EPU modifications. An example is the replacement of booster feed pumps 1A
21 and 1B and the motors with larger feed pumps and motors to increase the head
22 and flow to support the full power uprate. This modification was always a part of
23 the EPU scope for the Uprate project, see the schedule in Exhibit No. ___ (JF-3)

1 to my testimony, however, as a result of the detailed engineering design work in
2 preparation for the final EPU phase work, PEF determined that complete
3 replacement of the pump assembly, including a new oil skid that the pump and
4 motor will sit on, was a necessary change to meet the technical performance
5 objectives associated with the full power uprate. See EC74527 described in
6 Exhibit No. ___ (JF-3) to my testimony.

7 Additionally, the evaluation of system responses and interactions as PEF
8 progressed with more detailed engineering design work for the EPU modifications
9 required additional or enhanced EC modifications that increased the EPU work
10 scope and cost. An example is the Condensate System Modifications in EC74526
11 described in Exhibit No. ___ (JF-3) to my testimony. These modifications also
12 were always part of the EPU phase, however, the original work scope included
13 variable speed digital control for the condensate pumps. As detailed engineering
14 work modeled the system response and interaction to these modifications at the
15 full power uprate, PEF determined that a change from variable speed digital
16 controls to constant speed direct drive pumps with flow control, recirculation
17 valves, and piping was necessary to support an adequate flow and discharge
18 pressure at full power uprate conditions. See Exhibit No. ____ (JF-3) to my
19 testimony.

20
21 **Q. Were there other reasons the EPU phase work scope and cost increases?**

22 A. Yes. Another reason for the EPU phase work scope and cost increases were
23 changing NRC regulatory requirements. Compliance with the NRC's evolving

1 requirements for the EPU LAR increased the engineering and licensing costs that
2 PEF has incurred beyond what PEF expected to incur for NRC acceptance review
3 and approval. Evolving NRC regulatory requirements also increased the EPU
4 work scope and costs. The principal example is EC76340, representing over ten
5 percent of the total project cost increase, which is summarized in Exhibit No. ____
6 (JF-3) to my testimony.

7 Another reason for the increases in the EPU phase costs is that necessary
8 modifications were identified after the Company had the opportunity to evaluate
9 field inspection data obtained during the shutdown of CR3 during the current
10 outage. During re-fueling outages, when CR3 is completely shut down, the
11 Company conducts extensive inspections of all material and equipment and
12 performs maintenance. Data is collected and evaluated regarding the material
13 condition of equipment during these inspections.

14 This inspection and evaluation process during the current extended R16
15 re-fueling outage resulted in the identification of additional, necessary EPU
16 modifications to achieve the power uprate. These EPU modifications were
17 assessed, implementation options were considered, and, once an option was
18 selected, the design and engineering work was performed for the modification.
19 An example is EC73917 for the feed water heat exchangers ("FWHE") 2A and
20 2B. PEF originally planned to re-rate FWHE 2A and 2B for the EPU phase work,
21 but as a result of the internal inspections and dimensional validations of these
22 pieces of equipment during the current CR3 outage, PEF determined that FWHE
23 2A and 2B cannot be re-rated and need to be replaced for the plant to achieve

1 power uprate conditions. See EC73917 described in Exhibit No. ___ (JF-3) to my
2 testimony.

3 Another example is EC80138, which describes the work scope increase to
4 replace FWHE 3A and 3B. PEF originally planned to keep FWHE 3A and 3B
5 even though the scoping study indicated they were outside industry operating
6 recommendations because the FWHE 3A and 3B issues could be addressed under
7 a monitoring and inspection plan. During the current outage inspections, PEF
8 discovered that there were a number of degraded and plugged tubes in FWHE 3A
9 and 3B. PEF performed a detailed engineering evaluation of these FWHE at
10 power uprate conditions and determined that FWHE 3A and 3B cannot meet
11 efficiency and performance requirements necessary for full uprate conditions
12 although FWHE 3A and 3B can meet efficiency and performance requirements at
13 current power output conditions. As a result, PEF decided to replace FWHE 3A
14 and 3B. This scope increase change in EC80138 is also described in Exhibit No.
15 ___ (JF-3) to my testimony.

16
17 **Q. Was all of this additional work scope necessary for the EPU phase of the**
18 **Uprate project?**

19 A. Yes. All the additional work scope identified in the ECs described in Exhibit No.
20 ___ (JF-3) is necessary for PEF to complete the EPU phase work and achieve the
21 full 180 MWe power uprate. This additional work scope was not added to the
22 EPU phase until the Company had fully vetted the need for the work for the
23 power uprate and determined that it was essential to achieve the technical

1 objectives that must be satisfied in order to implement the full power uprate.
2 However, the scope of work for the EPU phase has not always increased. Since
3 the original scope of the EPU phase work was conceptually identified in the
4 feasibility study for the CR3 Uprate project, work scope also has been refined, re-
5 defined, and eliminated from the EPU phase of the project.

6 To illustrate this point, three of the ECs described in Exhibit No. ____ (JF-
7 3) were always considered part of the EPU work and were identified as additional
8 work scope simply because they were separated from other EPU work into
9 distinct EC packages as the Company completes the ECs for implementation of
10 the EPU phase. These ECs are the vibration monitoring system (EC76344), the
11 heavy haul path requirements for transporting EPU phase components to storage
12 locations on site (EC76339), and the overall EPU design margin work for
13 common engineering analyses, safety analyses, and engineering calculations not
14 covered by existing EPU modifications or associated LAR documents (EC71193).
15 Other ECs for additional work scope represent revisions to previous EPU work
16 scope. These ECs include the feed water booster pumps and motors (EC74527),
17 the condensate pump, motor, valves and recirculation pipe work (EC74526), and
18 the low pressure injection cross tie and hot leg injection modification (EC73934)
19 described in Exhibit No. ____ (JF-3). The work scope for these ECs simply
20 changed and increased over time. See Exhibit No. ____ (JF-3) to my testimony.

21 EPU phase work scope has also been eliminated as the detailed
22 engineering analyses for the EPU modifications progressed. Several
23 modifications that were initially included or included at one point in the EPU

1 phase work scope were determined to be unnecessary to achieve the technical
2 objectives that must be met to implement the power uprate. The remaining EPU
3 work scope and cost are needed to achieve the technical objectives necessary to
4 obtain the full 180 MWe power uprate.

5
6 **V. RULE 25-6.0423(5)(c)5, F.A.C.: LONG-TERM FEASIBILITY OF**
7 **COMPLETING THE CR3 UPRATE PROJECT.**

8 **Q. Did the Company evaluate the feasibility of completing the CR3 Uprate**
9 **project?**

10 A. Yes. The Company performed both a qualitative and quantitative analysis to
11 determine if the CR3 Uprate project remains feasible. The qualitative analysis of
12 the CR3 Uprate project feasibility included a qualitative review of the technical
13 and regulatory capability of completing the EPU phase work. This qualitative
14 analysis is consistent with the Company's CR3 Uprate project qualitative
15 feasibility analysis that was approved as reasonable by the Commission in Order
16 No. PSC-11-0095-FOF-EI. A CPVRR analysis was performed for the
17 quantitative feasibility analysis. This analysis included updated fuel, load, and
18 carbon costs, and was performed in a manner consistent with the Company's
19 quantitative feasibility analysis for the Levy Nuclear Project ("LNP") and the
20 Company's prior CPVRR analyses for the CR3 Uprate project that were
21 previously reviewed and approved by the Commission in prior NCRC
22 proceedings.

23

1 **Q. Is completion of the CR3 Uprate technically feasible?**

2 A. Yes. The first two phases of the CR3 Uprate project were successfully completed
3 when all equipment and other modifications were installed in a timely manner
4 with no significant issues. The testing of Phase 2 equipment will be completed
5 once the plant returns to service. There is no reason the EPU phase cannot be
6 successfully completed too. The EPU phase includes the installation or
7 implementation of more than twenty-five (25) ECs, including major components
8 such as the Low Pressure and High Pressure Turbines, significant engineering
9 work, and, under the current work plan, installation of a POD cooling tower.
10 PEF's ongoing technical analysis and reviews confirm that the EPU phase work
11 can be successfully completed and the full power uprate achieved. There are no
12 technical impediments to implementation of the full power uprate. Consequently,
13 PEF is confident the EPU phase work can be successfully completed to achieve
14 the full power uprate and obtain for PEF and its customers the fuel-savings
15 benefits of the full 180 MWe increase when CR3 returns to commercial service.

16
17 **Q. Is the CR3 Uprate project feasible from a regulatory perspective?**

18 A. Yes. All licenses and permits for the CR3 Uprate project can be obtained. There
19 is no reason to believe that the necessary licenses and permits for the EPU phase
20 work will not be obtained. The EPU phase requires a number of permits and
21 license changes to support operation at the higher power level. These include
22 environmental permitting for the currently proposed cooling tower and an EPU
23 LAR from the NRC. The environmental permit approvals can be obtained well in

1 advance of the implementation of the proposed POD cooling tower should PEF
2 determine that it is still necessary after PEF completes its evaluation of the impact
3 of new and proposed environmental regulations on this work. There is no
4 indication that the necessary permits for the POD cooling tower cannot be
5 obtained. The required environmental permits or permit modifications for the
6 POD cooling tower are similar to previously obtained permits and permit
7 modifications that PEF has successfully obtained. PEF fully expects to receive
8 the necessary environmental permits or permit modifications for the cooling
9 towers if PEF determines that completion of the POD work is necessary for the
10 EPU project.

11 As I explained earlier, the EPU LAR for the CR3 Uprate project can be
12 obtained from the NRC. The EPU LAR was submitted and accepted by the NRC
13 for review in 2011. The NRC has indicated a review period of approximately two
14 years for the EPU LAR. This licensing review is currently underway. PEF does
15 not anticipate any significant impediments to receipt of the EPU LAR well in
16 advance of implementation of the power uprate. PEF expects that the NRC will
17 approve its EPU LAR for the full power uprate.

18
19 **Q. What was the result of the Company's economic feasibility analysis of the**
20 **CR3 Uprate project?**

21 A. The updated, quantitative CPVRR analysis demonstrates that the CR3 Uprate
22 project is economically feasible. There are substantial fuel savings for PEF's

1 customers if the EPU phase of the CR3 Uprate project is completed. The results
2 of this economic analysis are included in Exhibit No. ____ (JF-4) to my testimony.

3 The Company's economic analysis is based on the current, expected EPU
4 schedule with the commencement of construction in June 2013, the completion of
5 construction in June 2014, and the placement of the EPU in service in December
6 2014. Under this current EPU phase work plan, the EPU phase work is performed
7 in parallel with the current, planned repair to the CR3 containment building with
8 the planned return of CR3 to commercial service in November 2014. The current
9 EPU phase plan (including current project costs) was evaluated in the updated
10 CPVRR analysis against a project cancellation option assuming no further work
11 on the CR3 Uprate project beyond the work already completed in the first two
12 phases of the project. In the event of project cancellation, the system planning
13 models replaced the additional MWe generation from the power uprate as a result
14 of the EPU phase work with additional, natural-gas fired generation available to
15 the Company. The economic feasibility evaluation further considered the benefits
16 of the EPU phase of the CR3 Uprate project with and without carbon cost benefits
17 as a result of future, potential climate control or greenhouse gas ("GHG")
18 emission legislation or regulation.

19 As shown in Exhibit No. ____ (JF-4) to my testimony, the CPVRR
20 economic evaluation, the current EPU phase plan is economically beneficial to
21 PEF and its customers based on fuel savings alone. Nominal fuel savings without
22 carbon cost benefits are \$1.21 billion and the net present value of the total savings
23 is \$361 million. When carbon cost benefits are included in the analysis, the

1 economic benefits of completion of the EPU phase during the current extended
2 CR3 re-fueling outage naturally improves. Nominal fuel savings with carbon cost
3 benefits are \$1.26 billion and the net present value of the total savings including
4 carbon costs is \$650 million. See Exhibit No. ___ (JF-4) to my testimony.

5 This economic analysis demonstrates that the EPU phase of the CR3
6 Uprate project is economically feasible when the costs of the project are
7 compared to the fuel savings benefits on a net present value basis. The updated
8 CPVRR analysis demonstrates that the fuel savings benefits exceed the costs to
9 complete the project on a net present value basis. When the carbon cost
10 compliance estimates are included in the economic analysis, the EPU phase of the
11 CR3 Uprate project is even more beneficial on a net present value basis to PEF
12 and its customers.

13
14 **Q. Did the Company evaluate any other options in its economic analysis of the**
15 **feasibility of completing the EPU phase of the CR3 Uprate project?**

16 A. Yes. As I discussed above, the Company evaluated an alternative schedule for
17 completion of the EPU phase of the CR3 Uprate project. Under this alternative
18 schedule, completion of the EPU phase of the CR3 Uprate project is deferred to
19 the next planned CR3 re-fueling outage after the CR3 containment building is
20 repaired and CR3 returns to commercial service. The next CR3 re-fueling outage,
21 R17, will be approximately two years after plant start-up. Completion of the EPU
22 phase of the CR3 Uprate project in the next planned CR3 re-fueling outage is also
23 economically feasible.

1 As demonstrated in Exhibit No. ____ (JF-4) to my testimony, completion
2 of the EPU phase in the R17 CR3 re-fueling outage is economically beneficial to
3 PEF and its customers. Nominal fuel savings without carbon cost benefits are
4 \$1.09 billion and the net present value of the total savings is \$260 million. When
5 carbon cost benefits are included in the analysis, the economic benefits to PEF
6 and its customers improve. Nominal fuel savings with carbon cost benefits are
7 \$1.14 billion and the net present value of the total savings including carbon costs
8 is \$513 million. See Exhibit No. ____ (JF-4) to my testimony. There are
9 substantial economic benefits to PEF and its customers if the EPU phase of the
10 CR3 Uprate project is completed in the CR3 R17 re-fueling outage.

11
12 **Q. Why did the Company evaluate an alternative schedule for completion of the**
13 **EPU phase of the CR3 Uprate project?**

14 A. The Company prepared and evaluated an alternative schedule to place the EPU
15 phase work in service because it provides the Company project management
16 flexibility to implement the EPU phase of the CR3 Uprate project. In the event
17 the Company's current plan to repair the CR3 containment building is delayed or
18 unforeseen risks or other impediments require the Company to repair the CR3
19 containment building prior to or ahead of the commencement of the EPU phase
20 work, the Company has an alternative schedule to implement the EPU phase work
21 in the next planned CR3 re-fueling outage and the Company has determined that
22 the alternative EPU phase schedule is economically beneficial to PEF and its
23 customers.

1 **Q. If completion of the EPU phase in the next planned CR3 re-fueling outage is**
2 **economically feasible why is the Company's current plan to implement the**
3 **EPU phase in the current CR3 extended outage?**

4 A. Completion of the EPU phase of the CR3 Uprate project in the current CR3
5 extended re-fueling outage is more beneficial to PEF and its customers. The
6 current 2012 actual/estimated costs for the EPU phase work are the same if the
7 EPU phase work is completed in this re-fueling outage or in the next re-fueling
8 outage because of pre-existing LLE contractual payment commitments and the
9 current, on-going NRC review of the EPU LAR. The EPU phase costs
10 necessarily increase if the construction work is deferred to the next CR3 re-
11 fueling outage and some of the fuel savings benefits to customers are also lost if
12 the EPU power uprate is not placed in service until the next refueling outage. As
13 a result, the fuel savings benefits are greater and commence earlier for PEF's
14 customers if the EPU phase work is completed in the current re-fueling outage
15 and the EPU power uprate is placed in service in December 2014 as opposed to in
16 the next re-fueling outage. Overall, completion of the EPU phase of the CR3
17 Uprate project in the current extended CR3 re-fueling outage is more beneficial to
18 PEF's customers. See Exhibit No. __ (JF-5) to my testimony providing the EPU
19 project management's evaluation of the costs and benefits of completing the EPU
20 phase of the CR3 Uprate project in the current, extended CR3 re-fueling outage or
21 the next planned CR3 re-fueling outage.

22

1 **Q. Did the Company update its fuel, environmental emission, and load forecasts**
2 **in the quantitative analysis of the feasibility of completing the EPU phase of**
3 **the CR3 Uprate project?**

4 A. Yes. The Company performed its updated CPVRR analysis in the same manner
5 that it performed the CPVRR analysis for the LNP with respect to the fuel,
6 environmental emissions, carbon cost compliance, and load forecast estimates.
7 PEF used updated fuel, environmental, carbon dioxide compliance cost, and load
8 estimates consistent with the updated forecasts used in the LNP quantitative
9 economic analysis in the economic feasibility analysis for the Uprate project. The
10 Company further updated its financial forecasts for the economic feasibility
11 analysis for the EPU phase of the CR3 Uprate project.

12
13 **Q. Last year, the Commission granted PEF's Motion that deferred to this year's**
14 **docket the review of the long-term feasibility of completing the CR3 Uprate**
15 **project. Does that decision affect the Commission's review of the Company's**
16 **current feasibility analysis?**

17 A. No. The Commission granted PEF's Motion for Deferral because the Company
18 expected to update the feasibility analysis filed with the Company's May
19 testimony in the 2011 NCRC docket. The Company has now updated that
20 analysis. My testimony provides the Commission the Company's updated
21 analysis of the long-term feasibility of completing the CR3 Uprate project.
22 Additionally, as this Commission has previously recognized, feasibility is a
23 forward-looking determination. See Order PSC-11-0547-FOF-EI, Docket No.

1 110009-EI, 2011 WL 5904236, *23, 30, 54, 78 (Fla. P.S.C. Nov. 23, 2011). The
2 Company's prior feasibility analysis filed in the 2011 NCRC docket, therefore,
3 has no bearing on the Commission's review of PEF's updated analysis of the
4 feasibility of completing the CR3 Uprate project in this proceeding.

5
6 **VI. PROJECT MANAGEMENT AND COST CONTROL OVERSIGHT.**

7 **Q. Has the Company implemented any additional project management and cost**
8 **control oversight mechanisms for the CR3 Uprate project since the testimony**
9 **you filed on March 1, 2012?**

10 A. The Company has not implemented any additional project management or cost
11 control oversight policies or procedures for the CR3 Uprate since the discussion
12 of these procedures in my March 1, 2012 testimony. The Company continues to
13 utilize the Company policies and procedures described in my March 1, 2012
14 testimony to ensure that costs for the CR3 Uprate project are reasonably and
15 prudently incurred.

16
17 **Q. Are these the same policies and procedures that the Commission has**
18 **previously reviewed for the CR3 Uprate project?**

19 A. Yes. As I explained in my March 1, 2012 testimony, the Commission has
20 previously determined that the CR3 Uprate project management and cost
21 oversight controls were reasonably and prudent. The Company's current CR3
22 Uprate project management and cost oversight controls policies and procedures

1 are substantially the same as the policies and procedures reviewed and previously
2 determined to be reasonable and prudent by the Commission.

3
4 **Q. Are these CR3 Uprate project management and cost controls policies and**
5 **procedures consistent with best practices in the industry?**

6 A. Yes. We believe that our CR3 Uprate project management and cost oversight
7 policies and procedures are consistent with best practices for capital project
8 management in the industry. PEF has employed these project management
9 policies and procedures to successfully implement two phases of the CR3 Uprate
10 project, during two separate plant re-fueling outages, and completed the work
11 scope necessary for the first two phases of the CR3 Uprate project. We believe
12 the project management, contracting, and cost control policies and procedures that
13 we have implemented for the CR3 Uprate project are reasonable and prudent and
14 consistent with industry best practices.

15
16 **VII. CONCLUSION.**

17 **Q. Is completion of the EPU phase of the CR3 Uprate project in the best**
18 **interests of the Company and its customers?**

19 A. Yes, we continue to believe that completion of the EPU phase of the CR3 Uprate
20 project is in the Company's and customers' best interests. Our updated analysis
21 of the feasibility of completing the EPU phase demonstrates that the EPU phase
22 of the project remains feasible and that it will be economically beneficial to PEF
23 and its customers whether it is completed as currently planned in the current CR3

1 re-fueling outage or in the next CR3 planned re-fueling outage. The completion
2 of the EPU phase of the CR3 Uprate project will provide PEF and its customers
3 additional carbon-free, clean nuclear energy generation from the lowest cost fuel
4 source available to the Company, it will add to the Company's fuel diversity, and
5 it reduces the Company's reliance on fossil fuels, especially from foreign sources,
6 for energy generation. Implementation of the EPU phase of the CR3 Uprate
7 project remains an important element of Progress Energy's Balanced Solution.
8 As a result, the Company is committed at this time to completion of the EPU
9 phase of the CR3 Uprate project.

10

11 **Q. Does this conclude your testimony?**

12 A. Yes, it does.

IN RE: NUCLEAR COST RECOVERY CLAUSE**BY PROGRESS ENERGY FLORIDA****FPSC DOCKET NO. 120009-EI****REBUTTAL TESTIMONY OF JON FRANKE**1 **I. INTRODUCTION.**2 **Q. Please state your name and business address.**3 A. My name is Jon Franke. My business address is Crystal River Nuclear Plant, 15760 W.
4 Powerline St., Crystal River, FL 34442.

5

6 **Q. By whom are you employed and in what capacity?**7 A. I am employed by Progress Energy Florida, Inc. ("PEF" or the "Company") in the
8 Nuclear Generation Group and serve as Vice President – Crystal River Nuclear Plant
9 ("CR3").

10

11 **Q. Have you previously filed direct testimony in this docket?**

12 A. Yes, I filed direct testimony on March 1, 2012 and April 30, 2012.

13

14 **Q. Have you reviewed the intervenor testimony filed in this docket?**15 A. Yes, I have reviewed the testimony of William R. Jacobs, Jr., Ph.D. ("Jacobs") regarding
16 the CR3 Extended Power Uprate ("EPU") project ("CR3 Uprate") filed on behalf of the
17 Office of Public Counsel ("OPC"). I also reviewed the direct joint testimony of Mr.
18 William Coston and Mr. Jerry Hallenstein ("Audit Staff" witnesses), filed on behalf of

1 the Florida Public Service Commission (“FPSC” or the “Commission”), including
2 portions of the June 2012 Review of Progress Energy Florida, Inc.’s Project Management
3 Internal Controls for Nuclear Plant Uprate and Construction Projects, PA-11-11-004,
4 identified as Exhibit No. ___ (CH-1) to the Audit Staff witnesses’ testimony (“Audit
5 Report”), with respect to the CR3 Uprate project.
6

7 **II. PURPOSE AND SUMMARY OF REBUTTAL TESTIMONY.**

8 **Q. What is the purpose of your rebuttal testimony?**

9 A. The purpose of my rebuttal testimony is to respond to the recommendations in OPC
10 witness Jacobs’ testimony concerning the CR3 Uprate project. Audit Staff includes no
11 findings with respect to the CR3 Uprate project in their Audit Report.
12

13 **Q. Please provide a brief summary of your rebuttal testimony.**

14 A. I will first address the issues to be decided by the Commission in this proceeding and
15 explain the Company’s testimony and exhibits addressing these issues that are
16 uncontested by any witness in this proceeding. In particular, no witness has filed
17 testimony in this proceeding disputing the prudence of any specific cost incurred by PEF
18 on the CR3 Uprate project in 2011 or the reasonableness of any specific actual/estimated
19 or projected cost that PEF has incurred or expects to incur on the CR3 Uprate project in
20 2012 and 2013. Further, no witness has filed testimony in this proceeding contesting
21 PEF’s analysis of the long-term feasibility of completing the CR3 Uprate project.
22 Finally, no witness has filed testimony in this proceeding disputing the prudence of PEF’s
23 CR3 Uprate project management, contracting, accounting, and cost oversight controls.

1 Jacobs recommends that PEF continue the CR3 Uprate project on a different
2 schedule, in his view, to minimize CR3 Uprate project costs until the CR3 containment
3 repair is nearing completion and licensing approval. Jacobs' recommendation will
4 increase, not decrease, the total cost of the project and increase the risk that
5 implementation of the EPU work will delay the return of CR3 to commercial service. As
6 a result, Jacobs' recommendation increases the costs and reduces the benefits of the
7 project to PEF and its customers and should be rejected.

8
9 **Q. Do you have any exhibits to your rebuttal testimony?**

10 A. Yes. I am sponsoring the following exhibits to my rebuttal testimony:

- 11 ● Exhibit No. ____ (JF-6), a chart summarizing the PEF projected 2013 CR3 Uprate project
12 costs for the following EPU work: (i) license application; (ii) Long Lead Equipment
13 ("LLE") procurement, contractual progress payments and related vendor contract
14 management and quality control; and (iii) design engineering and related project
15 management work; and
- 16 ● Exhibit No. ____ (JF-7), the Company's CR3 Uprate project schedule for completion of
17 the EPU work.

18 These exhibits were prepared by the Company at my direction and under my control and
19 they are true and correct.

1 **III. PEF EVIDENCE UNCONTESTED BY TESTIMONY IN THIS PROCEEDING.**

2 **Q. What issues will the Commission decide in this 2012 proceeding?**

3 A. My understanding is that the Commission will determine, pursuant to Section 366.93,
4 Florida Statutes, and Rule 25-6.0423, F.A.C., (1) the prudence of PEF's actual 2011 costs
5 for the CR3 Uprate project; (2) the prudence of PEF's project management, contracting,
6 accounting, and cost oversight controls for 2011 for the CR3 Uprate project; (3) the
7 reasonableness of PEF's actual/estimated 2012 costs for the CR3 Uprate project; (4) the
8 reasonableness of PEF's projected 2013 costs for the CR3 Uprate project; and (5)
9 approval of PEF's analysis of the feasibility of completing the CR3 Uprate project
10 pursuant to Rule 25-6.0423(5)(c)5, F.A.C.

11 I further understand that the parties have agreed that the Commission should
12 address additional issues related to the prudence of our CR3 Uprate project management
13 decisions in 2011, and the reasonableness of our decisions in 2012, as a result of the
14 evaluation by the Company of the repair of the CR3 Containment Building leading up to
15 a final decision by the Company with respect to that repair. These additional issues
16 further address the prudence of our CR3 Uprate 2011 actual costs and the reasonableness
17 of our CR3 Uprate actual/estimated 2012 and projected 2013 costs.

18
19 **Q. Have any witnesses asserted in testimony that PEF's actual CR3 Uprate project
20 costs for 2011 are not prudent?**

21 A. No, they have not. Intervenor OPC witness Jacobs specifically says in his testimony that
22 he was asked by OPC to conduct a review and evaluation of PEF's requests for authority
23 to collect historical costs associated with the CR3 Uprate project. (Jacobs Test., P. 3, L.

17-21). Nowhere in his testimony, however, does Jacobs identify any historical 2011 CR3 Uprate project cost that PEF seeks to collect that he finds was imprudently incurred. Audit Staff witnesses reviewed the adequacy of the internal controls and management oversight of the CR3 Uprate project to assist the Commission in its assessment of the Company's cost recovery requests for the CR3 Uprate project. See Audit Staff Test., Exhibit No. ___ (CH-1) at page 1 of 44. Audit Staff witnesses include no findings with respect to the CR3 Uprate project in their Audit Report. No other intervenors presented testimony in this docket regarding the CR3 Uprate project.

10 **Q. Does Jacobs assert that the 2011 CR3 Uprate project management, contracting,**
11 **accounting, and cost oversight controls are unreasonable or imprudent?**

12 A. No he does not. Jacobs states that he was not asked to focus his efforts in that area in this
13 docket. (Jacobs Test., P. 5, L. 1-5). He therefore offers no opinion regarding the
14 prudence of PEF's 2011 CR3 Uprate project management, contracting, accounting, and
15 cost oversight controls.

17 **Q. Do the Audit Staff witnesses assert that the 2011 CR3 Uprate project management,**
18 **contracting, accounting, and cost oversight controls are unreasonable or**
19 **imprudent?**

20 A. No they do not. Audit Staff witnesses state that they "monitored and evaluated the [PEF]
21 project controls in the areas of contract administration, process management and
22 oversight, risk assessment, and organization structure." (Audit Staff Test., Exhibit No.
23 ___ (CH-1) at page 13 of 44). They further state that they "reviewed [PEF's]

1 management reports and negotiated contracts to confirm [PEF's] compliance with its
2 internal procedures." Id. They confirmed "[PEF] continues to monitor and update its
3 project management process and procedures throughout this project." Id. They
4 concluded that there were "[n]o variances in [PEF's] compliance to its EPU procedures []
5 identified during this review period." Id. There were no findings related to PEF's 2011
6 CR3 Uprate project management, contracting, accounting, and cost oversight controls in
7 the Audit Report.

8
9 **Q. Does Jacobs assert in his testimony that PEF's actual/estimated 2012 and projected**
10 **2013 costs for the CR3 Uprate project are unreasonable?**

11 A. No. Jacobs does not identify any specific actual/estimated 2012 or projected 2013 CR3
12 Uprate project cost that he thinks is unreasonable. Again, OPC witness Jacobs says he
13 was asked by OPC to conduct a review and evaluation of PEF's requests for authority to
14 collect projected costs associated with the CR3 Uprate project. (Jacobs Test., P. 3, L. 17-
15 21). Jacobs, however, nowhere identifies any specific actual/estimated 2012 or projected
16 2013 CR3 Uprate project cost that he claims is unreasonable either because it is not
17 necessary for the CR3 Uprate project or because it is unreasonable in the amount
18 estimated based on the work and/or material involved for the CR3 Uprate project.

19
20 **Q. Do any witnesses assert that PEF has not demonstrated the long-term feasibility of**
21 **completing the CR3 Uprate project pursuant to Rule 25-6.0423(5)(c)(5), F.A.C.?**

22 A. No they do not. Audit Staff witnesses conclude that, "[PEF's] current feasibility analysis
23 supports the economic viability of the project." (Audit Staff Test., Exhibit No. ____ (CH-

1) , page 42 of 44). And, as I explained above, there are no Audit Staff findings with respect to the CR3 Uprate project. Id. Jacobs does not specifically address the feasibility of the CR3 Uprate project in his testimony. Jacobs, however, nowhere asserts in his testimony that PEF should have cancelled the CR3 Uprate project in 2011 or that PEF should cancel the project now. He agrees that, for the EPU project to continue, “engineering and licensing work must continue and long-lead equipment items must be procured” and presumably paid for (Jacobs Test., P. 12, L. 5-7), and he only argues for the deferral or avoidance of “EPU construction work” until the “success of the repair and NRC acceptance of that repair is assured.” (Jacobs Test., P. 12, L. 10-13). Based on these statements and his recommendation, Jacobs apparently believes the CR3 Uprate project is feasible and should be completed, albeit on a different schedule than currently planned by the Company.

14 **IV. OPC WITNESS JACOBS’ RECOMMENDATIONS SHOULD BE REJECTED**
15 **BECAUSE THEY ARE NOT BASED ON ANY EVIDENCE THAT PEF’S**
16 **PROJECTED COSTS ARE UNREASONABLE AND THEY WOULD INCREASE,**
17 **NOT DECREASE, THE TOTAL PROJECT COST TO PEF’S CUSTOMERS.**

18
19 **Q. Can you explain what OPC witness Jacobs recommends in his testimony?**

20 **A.** Yes. My understanding of his testimony is that Jacobs generally claims PEF should not
21 recover “avoidable or deferrable” EPU costs that have not already been incurred or
22 committed to for the project. Rather, he claims these costs should be avoided or deferred
23 “until late in the containment repair process when the success of the repair and NRC
24 acceptance of that repair is assured.” (Jacobs Test., P. 12, L. 10-13). In his view, these
25 avoidable or deferrable costs are construction contract costs that can be performed during
26 an “outage lasting a few months” and, accordingly, he necessarily proposes that PEF

1 revise its current schedule for the completion of the EPU work during the current CR3
2 R16 outage to place the EPU construction work at the end of the current outage. (Jacobs
3 Test., P. 12, L. 10-17). He claims that, as a result of his recommendation,
4 “approximately \$186,000,000 of planned expenditures of the customers’ money will not
5 be spent,” according to him, “more than two years early.” (Jacobs Test., P. 12, L. 13-20).
6 Based on this recommendation, Jacobs claims that, if PEF “decides to incur avoidable or
7 deferrable [EPU] expenditures,” the Commission should withhold any determination of
8 reasonableness and put PEF on notice “that any EPU money spent in 2013 will be held
9 subject to refund until PEF makes an official decision to repair the building and to begin
10 that repair in earnest.” (Jacobs Test., P. 13, L. 1-6).

11
12 **Q. What is the reason Jacobs provides for his recommendations?**

13 **A.** Jacobs’ reason for his recommendations is that PEF should “minimize all expenditures
14 related to the CR3 EPU project.” (Jacobs Test., P. 5, L. 10-11). Jacobs does not testify
15 that the CR3 Uprate project should be cancelled or that EPU work should stop. Indeed,
16 Jacobs agrees that engineering and licensing work, and LLE procurement, must move
17 ahead to continue the EPU project. (Jacobs Test., P. 12, L. 5-6). He argues that “[o]nly
18 absolutely necessary expenditures should be incurred” prior to the decision to repair or
19 retire CR3. (Jacobs Test., P. 11, L. 17-20). Jacobs allows, then, for the recovery by PEF
20 of necessary expenditures in 2012 and 2013 for the EPU work on the CR3 Uprate project.
21
22
23

1 **Q. Do you agree with Jacobs' recommendations?**

2 A. No. First, Jacobs is simply incorrect that the Company will spend \$186 million on the
3 CR3 Uprate project at this time and that this entire projected amount represents avoidable
4 or deferrable construction work. Second, Jacobs' recommendations are not based on any
5 evidence that PEF's actual/estimated 2012 or projected 2013 costs are unreasonable
6 because they are unnecessary for the EPU work or inaccurate or incorrect in amount
7 because of something PEF did or did not do that it should have done. Finally, Jacobs'
8 recommendations, if accepted by the Commission, will actually increase, not minimize,
9 the cost of the EPU work to PEF's customers and may further delay implementation of
10 the EPU phase of the CR3 Uprate project, thereby delaying receipt of fuel savings
11 benefits to PEF's customers.

12
13 **Q. Will PEF spend \$186 million on the EPU work in 2012 and 2013?**

14 A. No. PEF is not requesting \$186 million for the CR3 Uprate project in this docket. Jacobs
15 obtains the \$186 million number from Schedule TOR-6 of Exhibit No. __ (TGF-6) to Mr.
16 Thomas G. Foster's testimony in this docket. (Jacobs Test., P. 8, L. 1-4, n. 1). This \$186
17 million represents the projected future spend on the EPU phase of the CR3 Uprate project
18 in 2013, 2014, and 2015. PEF is not seeking recovery of carrying costs and other,
19 recoverable costs under the nuclear cost recovery statute and rule for the projected 2014
20 and 2015 EPU costs in this docket. These 2014 and 2015 projected EPU costs will be the
21 subject of requests for cost recovery in subsequent dockets, and subject to subsequent
22 Commission reviews to determine if these costs are first reasonable, and then prudent, for
23 the CR3 Uprate project. Accordingly, there is no reason for the Commission to review

1 the projected CR3 Uprate 2014 and 2015 costs (an estimated \$75.8 million) at this time
2 because PEF is not requesting recovery for these costs in this docket. Only \$110 million
3 of the \$186 million is at issue in this docket because this is the projected 2013 costs for
4 the EPU work on the CR3 Uprate project.

5
6 **Q. Are the projected \$110 million costs for the CR3 Uprate project in 2013 reasonable?**

7 A. Yes. As I explained, in my direct testimony filed in this docket on April 30, 2012, these
8 costs are necessary for the EPU scope of work required to implement the power uprate.
9 This work includes continued engineering and licensing support for the EPU LAR that
10 was submitted to the NRC in June 2011 and accepted for review by the NRC in
11 November 2011. I explain the general scope of this licensing work in my April 30, 2012
12 direct testimony. This work will continue through 2013 when NRC approval of the EPU
13 LAR is expected. Further EPU work in 2013 includes design engineering finalization of
14 the engineering change ("EC") packages for the EPU, continued payments and vendor
15 oversight for LLE for the EPU, and the commencement of construction activities
16 including starting mobilization of construction resources, the performance of
17 constructability reviews, the receipt, storage, and organization of equipment and
18 materials, the commencement of pre-fabrication activities, and continued vendor
19 oversight. This work is also explained in my April 30, 2012 testimony. This EPU work
20 is necessary in 2013 to perform the EPU construction work from June 2013 to June 2014
21 to install, test, and implement the power uprate when CR3 is currently expected to return
22 to service.

1 The projected 2013 EPU costs include (1) an estimated \$2.4 million in license
2 application costs to obtain NRC approval of the EPU LAR in 2013; (2) \$14.2 million for
3 LLE procurement and contractual progress payments in 2013, and related vendor quality
4 assessment, contract management, oversight, and LLE handling and storage; and (3) \$7.8
5 million for design engineering work and related project management in 2013. See
6 Exhibit No. ___ (JF-6) to my rebuttal testimony. Jacobs agrees that all of these projected
7 2013 EPU costs must be incurred to continue the CR3 Uprate project. (Jacobs Test., P.
8 12, L. 5-6). In addition to these 2013 EPU costs, related project management costs in the
9 amount of \$5.7 million are projected in 2013. These costs represent \$30.1 million of the
10 projected \$110 million 2013 EPU costs.

11 Of the remaining \$79 million in projected 2013 EPU costs, Jacobs does not
12 identify any specific CR3 Uprate project cost that he claims PEF can avoid in 2013 or
13 defer beyond 2013 and still implement the power uprate during the current CR3 outage.
14 Jacobs nowhere testifies that any of the work that is encompassed by the remaining \$79
15 million in projected 2013 costs is unnecessary in 2013. Jacobs simply assumes that these
16 remaining 2013 EPU costs represent “construction costs” that can be avoided or deferred
17 in 2013. In other words, Jacobs assumes that, because EPU installation work could be
18 performed in an “outage lasting a few months,” PEF should defer EPU construction
19 activities and costs to “late” in the containment building repair process. (Jacobs Test., P.
20 12, L. 9-13). Jacobs fails to address in his testimony the impact his recommended
21 “schedule” would have on the CR3 Uprate project in terms of the effect on the total
22 project cost and the Company’s ability to complete the power uprate during the current
23 outage.

1 **Q. Has PEF taken steps to minimize the CR3 Uprate project costs?**

2 A. Yes, PEF has done exactly what Jacobs says PEF should do and minimized the CR3
3 Uprate costs to ensure that only those costs necessary for the EPU work on the CR3
4 Uprate project have been and will be incurred until a final decision to repair CR3 is
5 made. In 2011, prior to the March 14, 2011 delamination, PEF was proceeding with a
6 project plan and CR3 Uprate project schedule to complete the EPU work in a then-
7 planned 2013 CR3 re-fueling outage. PEF obviously, then, had incurred and committed
8 to incur EPU costs in the first quarter of 2011, prior to and immediately after the mid-
9 March 2011 delamination, that were not amenable to revision as a result of this event.
10 Subsequent to this delamination event, however, PEF evaluated the EPU phase work and
11 determined that the reasonable course of action was to take steps to preserve the option of
12 completing the CR3 Uprate work in the current CR3 outage without unnecessarily
13 incurring costs for the CR3 Uprate project. This decision is confirmed by the Company's
14 current evaluation of the feasibility of the CR3 Uprate project described at pages 29-36 of
15 my April 30, 2012 direct testimony. Jacobs apparently agrees with PEF that this was a
16 reasonable approach because he does not dispute the Company's determination that the
17 CR3 Uprate project is feasible and he also proposes continuation of the CR3 Uprate
18 project to complete the EPU phase work during the current CR3 outage, albeit on a more
19 compressed time frame than the Company's current CR3 Uprate project schedule.

20 To develop the current CR3 Uprate project schedule, PEF evaluated the EPU
21 phase work to identify what work was critical to proceed with to maintain a schedule to
22 complete the EPU during the current CR3 outage and what work was not on this critical
23 path. Based on this evaluation, PEF slowed down and postponed work on the EPU phase

1 in 2011 and 2012 to minimize the CR3 Uprate project costs while preserving the
2 Company's ability to complete the EPU work during the current CR3 outage and
3 implement the power uprate when CR3 returns to service.

4 For example, no EPU phase work has been or is being accelerated, all overtime
5 work has been postponed, and only regular work hours are permitted on EPU work that
6 PEF has determined needs to be done to maintain the current CR3 Uprate project
7 schedule. PEF also delayed the selection of a construction contractor for the EPU phase.
8 PEF individually evaluated each contract and change order for the EPU phase work
9 before execution. For contracts or change orders below \$100,000, the EPU phase project
10 manager performed this evaluation; for contracts or change orders at or above \$100,000,
11 the project manager conducted this evaluation and made recommendations with respect
12 to execution of the contract or change order that were reviewed by the manager of
13 nuclear projects and senior management. No contract or change order at or above
14 \$100,000 for the EPU phase work was executed without senior management approval.
15 That approval was not granted unless there was a demonstration that the work under the
16 contract or change order was reasonable and necessary to preserve the Company's ability
17 to complete the EPU work on the current CR3 Uprate project schedule. This type of
18 evaluation was conducted for each item of work for the EPU phase of the CR3 Uprate
19 project.
20
21
22

1 **Q. Have the Company's efforts to minimize the CR3 uprate costs in 2011 and 2012**
2 **actually resulted in the avoidance or deferral of costs to a later time period?**

3 A. Yes. As I explain in my March 1, 2012 direct testimony, PEF was able to reallocate
4 project management resources and reduce project management expenditures for the CR3
5 Uprate project by \$4.7 million in 2011. PEF's 2011 Power Block Engineering,
6 Procurement, and related construction costs were reduced by \$34.2 million. (See Direct
7 Test. of Jon Franke, dated March 1, 2012, pp. 12-13). Likewise, PEF's efforts to
8 minimize CR3 Uprate project costs in 2012 resulted in reductions of \$4.4 million in
9 project management costs, and \$14.8 million in Power Block Engineering, Procurement,
10 and related construction costs, compared to the estimate for these 2012 costs in 2011.
11 (See Exhibit No. ____ (TGF-4), p. 16 of 50, to the April 30, 2012 Direct Testimony of
12 Thomas G. Foster). PEF has reasonably minimized CR3 Uprate project costs in 2011 and
13 2012 while preserving its ability to complete the EPU phase of the CR3 Uprate project
14 during the current outage.

15
16 **Q. Can PEF minimize CR3 Uprate project costs further by adopting Jacobs'**
17 **recommendation to defer all EPU construction work to the end of the current CR3**
18 **outage?**

19 A. No. In fact, Jacob's recommendation that PEF defer all construction work until the end
20 of the current CR3 outage would increase, not minimize, the cost to perform the EPU
21 work. PEF currently plans to complete the EPU phase work during the current CR3
22 outage between June 2013 and June 2014. Jacobs recommends performing all of this
23 work in an unspecified "few months" late in the CR3 containment building repair

1 process. (Jacobs Test., P. 12, L. 10-13). Deferring EPU construction work until the end
2 of the current CR3 outage and anticipated CR3 repair work requires PEF to completely
3 re-order the current EPU phase work schedule. All efficiencies that PEF gained by
4 carefully planning to perform this work over the one-year construction period in the
5 current EPU work schedule will be lost. Additional contractor labor will be needed,
6 additional on-site facilities will be required to house these additional contractors,
7 extended shifts and overtime will be necessary for current employees and contractor
8 employees, and additional project management and quality assessment will be needed to
9 manage the additional contractors and shifts working around-the-clock to perform the
10 work in a "few months" rather than a year. Coordination efforts will increase and added
11 internal and contractor project management will be required. All of these factors, among
12 others that necessarily flow from taking work planned for one year and performing it in a
13 compressed time period, will increase the cost of the EPU work and, thus, increase the
14 total CR3 Uprate project cost.

15 In addition, PEF has a detailed work schedule in place to perform this work under
16 the current plan. I have attached as Exhibit No. ____ (JF-7) to my testimony a copy of the
17 current EPU Level II schedule. This schedule includes the careful order of the
18 installation of the EC work necessary for the EPU from the current date through June
19 2014 to implement the power uprate by the anticipated return of CR3 to service from the
20 current outage. Behind each milestone entry for each EC that makes up the EPU work is
21 a detailed work scope and time frame for that work scope ensuring the timely completion
22 of the milestone under this current EPU work schedule. This detailed work scope and
23 time frame for ECs involving contractor resources and material is premised on

1 established contractual obligations and timelines. To move away from this detailed work
2 schedule and implement another one in a much shorter time frame, as Jacobs suggests,
3 will require PEF to invest substantial manpower and time to re-baseline the EC work and
4 re-build the EPU construction and implementation schedule in a compressed time frame.
5 This work alone will increase the costs of the project.

6 To re-baseline the EC work and re-build the EPU work schedule PEF also will
7 have to re-negotiate existing contracts for this work at an additional cost to PEF. The
8 cost of the work will escalate upon deferral and compression of the time frame to perform
9 the work and PEF will likely incur cancellation costs and other damages under the
10 existing contracts. Additionally, it may not be possible for PEF to re-negotiate some
11 contracts to implement the EPU work schedule Jacobs recommends. For example, the
12 current contracts with Siemens for installation of the low and high pressure turbines are
13 based on the limited availability of Siemens resources for this work. Siemens resources
14 may not be available for the installation of the low and high pressure turbines in the time
15 frame Jacobs recommends for completion of the EPU work. PEF will also place itself in
16 a position of weakness in negotiations with potential construction contractors because
17 these contractors will know that the EPU phase work must be performed in a limited
18 time-frame in order to implement the power uprate upon the anticipated return of CR3 to
19 service. For all of these reasons, Jacobs' recommendation will increase, not decrease, the
20 total cost of the project for PEF's customers.
21

1 **Q. Are there other drawbacks to Jacobs' recommendation to defer the EPU**
2 **construction work to a "few months" at the end of the anticipated repair schedule**
3 **for CR3?**

4 A. Yes. Deferral of all EPU construction work until the end of the current CR3 outage and
5 anticipated CR3 repair work further places the EPU work on the critical path to return
6 CR3 to service and impairs the Company's ability to timely complete the EPU work in
7 order to implement the power uprate when CR3 does return to service. This increases the
8 risk that unexpected delays in the EPU work or increases in the time necessary to perform
9 the work will extend the current outage and delay the return of CR3 to commercial
10 service. For example, risks inherent in compressing a construction schedule include
11 industrial safety, quality control, and the time available to appropriately address unknown
12 changes that are part of any construction project. The current implementation schedule
13 also provides PEF additional time to perform post-modification testing prior to start-up
14 testing for the power uprate. This schedule enables PEF to identify any equipment or
15 performance issues in time to correct them before the anticipated return of CR3 to
16 commercial service. That time would not be available to PEF under the EPU
17 construction schedule that Jacobs recommends. As a result, implementation of the EPU
18 phase work in a "few months" at the end of the anticipated CR3 repair schedule increases
19 the risks that the EPU implementation may delay the return of CR3 to commercial service
20 and, therefore, delay the fuel savings benefits from the return of CR3 to commercial
21 service, and at the power uprate, to PEF and its customers.

22 Implementation during the extended CR3 16R outage provides PEF the
23 opportunity to gain schedule and costs efficiencies and reduce risk because the EPU

1 phase work no longer has to be completed during the limited timeframe of a typical re-
2 fueling outage, but instead can be implemented over the course of the year. The current
3 EPU phase work schedule and costs reflect these efficiencies. If Jacobs'
4 recommendation to defer construction activities and costs was implemented, PEF and its
5 customers would lose the time and cost efficiencies gained under the current
6 implementation schedule, the total project cost would increase, and there would be an
7 increased risk that the return of CR3 to commercial service and the receipt of the
8 resulting fuel-savings benefits would be delayed to the added detriment to PEF and its
9 customers.

10
11 **V. JACOBS' OTHER "CONCERNS" REGARDING THE EPU ARE**
12 **UNSUPPORTED BY ANY EVIDENCE AND IRRELEVANT TO THE ISSUES**
13 **BEFORE THE COMMISSION.**

14
15 **Q. Jacobs states his "concern" that the CR3 Uprate total project costs have increased**
16 **since the original estimate, and that they may continue to increase, do you agree that**
17 **this is an appropriate "concern" for the project?**

18 **A.** No. First, the reasons for these total project cost increases were explained in my
19 testimony in prior dockets and in my current April 30, 2012 direct testimony in this
20 docket. As I explain, these cost increases are the result of additional engineering
21 changes, additional project scope, and licensing expenses necessary to implement the full
22 power uprate. Jacobs nowhere disputes these reasons for the increases in the CR3 Uprate
23 total project costs. Additionally, the mere fact that the total project cost has changed,
24 with both increases and decreases in project scope, was addressed by the Commission in
25 the 2010 nuclear cost recovery clause docket. The Commission concluded that the mere

1 fact that the total project cost increased (and may continue to increase) is relevant to the
2 utility's detailed feasibility analysis for the project, stating that "we believe that concerns
3 regarding changes in estimated total project costs are best addressed in the project
4 feasibility analysis issue where changes can be reviewed on an annual basis." See Order
5 PSC-11-0095-FOF-EI, Docket No. 10000-09, p. 14. Jacobs does not challenge the long-
6 term feasibility of the CR3 Uprate project. Accordingly, while Jacobs may be concerned
7 simply because the total project cost has increased, regardless of the reasons for the
8 increase or the continuing feasibility of the project, there is no reason based on the
9 uncontradicted evidence explaining the cost increases and the continuing feasibility of the
10 CR3 Uprate project for the Commission to be concerned about the mere increase in total
11 project cost.

12
13 **Q. Jacobs is also concerned that there will be "difficulty" in achieving regulatory**
14 **approval by the NRC of the EPU LAR. Do you agree with this concern?**

15 A. No. Jacobs' concern is unsupported by any evidence that it will in fact be "difficult" for
16 PEF to obtain NRC approval of the EPU LAR. Jacobs refers only to the statement in the
17 NRC acceptance letter, Exhibit No. __ (JF-1) to my April 30, 2012 direct testimony,
18 indicating that NRC review of the EPU LAR may take longer than one year and
19 "possibly" up to two years to support his concern that it will be "difficult" to obtain NRC
20 approval of the EPU LAR. The NRC does not say in this letter that it will be "difficult"
21 for PEF to obtain EPU LAR approval, that it will in fact take two years to complete the
22 NRC review, or that the reason it may take up to two years to complete the EPU LAR
23 review is because of any difficulty with the EPU LAR. The NRC letter, therefore, does

1 not mean that there is or will be difficulty in obtaining EPU LAR approval. In fact,
2 feedback from the NRC reviewers during the Request for Additional Information
3 (“RAI”) process to date has been positive and the review has continued without delay.
4 While this is a first-of-its kind EPU LAR application, PEF continues to work closely with
5 the NRC on the EPU LAR, and the NRC has not identified any difficulty in review and
6 approval of PEF’s EPU LAR. PEF fully expects to obtain EPU LAR approval. There is
7 no evidence to date that the NRC will not approve the EPU LAR.
8

9 **VI. CONCLUSION.**

10 **Q. Can you summarize your response to the intervenor testimony with respect to the**
11 **issues before the Commission in this docket regarding the CR3 Uprate project?**

12 A. Yes. PEF has demonstrated that its 2011 CR3 Uprate project costs were prudently
13 incurred and that PEF is entitled to recover them from customers. Jacobs does not
14 dispute this evidence. PEF has demonstrated that its 2012 CR3 Uprate project
15 actual/estimated costs are reasonable. Jacobs does not dispute this evidence. PEF has
16 further demonstrated that the CR3 Uprate project is feasible. Jacobs does not address
17 feasibility and, therefore, does not dispute this evidence. In fact, he must believe the CR3
18 Uprate project remains feasible because he does not opine that PEF should cancel the
19 project and he in fact testifies PEF should continue with the project, albeit on a different
20 schedule than the Company’s current schedule. PEF has also demonstrated that its 2013
21 projected costs are reasonable. Jacobs nowhere testifies that any specific cost that PEF
22 expects to incur in 2013 on the CR3 Uprate project is unreasonable. He recommends
23 only that the Commission defer an unspecified amount of EPU construction-related costs

1 to some period near the end of the CR3 containment building repair. He presents no
2 evidence to dispute PEF's testimony that it has prudently managed the CR3 Uprate
3 project and has minimized all costs it found reasonable to do so while still preserving the
4 benefits of the project for PEF and its customers on an efficient implementation schedule.
5 Indeed, Jacobs' recommendations to defer and then accelerate EPU construction would
6 increase the costs of the project and result in increased risk for the Uprate project. There
7 is, therefore, no basis for the Commission to accept Jacobs' recommendations and the
8 Commission should approve PEF's 2013 projected costs as reasonable.

9
10 **Q. Does this conclude your rebuttal testimony?**

11 **A.** Yes, it does.

1 BY MR. WALLS:

2 Q And Mr. Franke, do you have a summary of all of
3 your testimony for the Commission?

4 A I do.

5 Q Will you provide that at this time?

6 A Certainly. My March 1st, 2012 direct testimony
7 supports the prudence of the company's 2011 actual costs
8 incurred for the Crystal River Unit 3 uprate project. These
9 costs were prudently incurred and the company is therefore
10 entitled to recover them. My testimony also supports the
11 reasonableness and prudence of the company's project
12 management, contracting and cost oversight controls.

13 My April 30th, 2012 direct testimony and exhibits
14 support the reasonableness of the company's 2012 actual and
15 estimated and 2013 projected costs for the CR3 Uprate project
16 and presents the company's long-term feasibility analysis for
17 the CR3 Uprate project.

18 Based on the Commission's granting Progress Energy
19 Florida's motion for deferral of a determination on the
20 reasonableness of 2012 and 2013 CR3 Uprate costs and
21 feasibility, my understanding is that these issues are
22 deferred until the 2013 NCRC proceedings.

23 I am available to answer any questions you may
24 have regarding the company's actual 2011 costs and the
25 company's management of the uprate project in 2011. Thank

1 you.

2 MR. WALLS: We tender Mr. Franke for cross
3 examination.

4 CHAIRMAN BRISE: All right. Mr. Moyle?

5 MR. MOYLE: Thank you, Mr. Chairman.

6 CROSS EXAMINATION

7 BY MR. MOYLE:

8 Q Just so we're clear and we don't talk past each
9 other, it's my understanding that the monies that you all are
10 seeking, asking this Commission to award to you, relate only
11 to 2011 costs; is that your understanding?

12 A Yes, today we're seeking prudence and recovery of
13 2011 cost. The 2013 and 2012 proceeding have been deferred.

14 Q Okay, so I'm not going to ask questions about
15 those, and if I happen to stray into those, please tell me
16 so, okay?

17 A Yes, sir.

18 Q Okay. And the amount of money you're asking this
19 Commission to find is prudent is how much?

20 A Let me refer. I believe the total figure is right
21 around \$49 million for 2011 costs.

22 Q And I guess maybe you can help me understand. You
23 do say 49, I think, on page five, line four. But then in
24 your position statement in the order you say -- this is again
25 on issue --

1 A I'm assuming you're referring to my March
2 testimony?

3 Q Yes, sir, March 1, 2012, on line four, page five,
4 you say you're asking for 49 million, right?

5 A Yes, under paragraph four, that's correct.

6 Q But in the position statement, issue 15, you asked
7 for 49 million for capital costs, approximately half a
8 million for O&M costs, and then carrying costs of north of 16
9 million, is that right?

10 A Yes, sir, and the number on line four of page five
11 of my testimony is in reference to capital costs, only. You
12 are correct, the other O&M and carrying costs associated with
13 2011 would be at issue today, as well.

14 Q Okay. So you would agree that's north of 66
15 million, give or take, that you're asking?

16 A Short of doing the math, yes, sir.

17 Q Okay. And I'm going to ask you some questions
18 about the uprate project and also the CR3 status. And you
19 had a second delamination event that occurred in 2011, the
20 year for which you're seeking cost recovery, correct?

21 A That is correct.

22 Q And when did that occur?

23 A I'm not certain which delamination event you're
24 referring to, but I believe you're referring to March 14th of
25 2011 during the retensioning of the containment building

1 following our initial repair.

2 Q Okay. And there was a previous delamination
3 event, as well, correct?

4 A I'm not certain which one you're speaking to, but
5 we repaired a delamination that occurred in 2009 and were
6 repairing -- recovering the unit in March of 2011 when a
7 second delamination occurred.

8 Q Okay. Has there been a third?

9 A Yes, sir, there was one in July 26th of 2011, as
10 well.

11 Q All right, and as we sit here today there has not
12 been a decision as to whether to repair Crystal River 3,
13 correct?

14 A I don't agree with the way you've worded that.
15 Our current position is we will be repairing Crystal River 3.
16 We are proceeding with --

17 Q Let me just rephrase it. Did you review the
18 testimony or did you follow the testimony when the CEO of
19 Duke Energy appeared in front of this Commission a few weeks
20 ago?

21 A No, sir, I have not reviewed his testimony.

22 Q Okay. So if I represented to you that he said
23 they were considering whether to repair or retire the Crystal
24 River 3 and that that was an issue that the Board would
25 ultimately have to consider, would you disagree with that

1 representation?

2 A Your question was had we decided to repair the
3 unit yet or not. I would say that the decision right now
4 is to repair the unit. Now, as with all projects of this
5 complexity and cost, we have an ongoing process by which
6 we're going to review that decision going forward.

7 Certainly over the last year we have developed
8 extensive engineering knowledge of what that repair will
9 technically look like, the cost and schedule of that repair.
10 And subject to review of that information, it's my
11 understanding the Board of Directors will make a final
12 determination to proceed with the current path, which is to
13 repair the unit, or to retire it at a future date.

14 Q Maybe we're talking past each other. You know,
15 I don't want to play words games. But isn't it correct that
16 the ultimate decision whether to repair or retire this unit
17 rests with the Board of Directors?

18 A Yes, sir.

19 Q And isn't it also true that the Board of Directors
20 has not yet considered whether to repair or retire the
21 Crystal River plant?

22 A I would say that they will be gathering the
23 additional information. We are working on today to make a
24 decision whether to repair or retire the plant in the future.
25 As of right now, our path is to retire.

1 Q Mr. Chairman, if I can get a yes or a no -- your
2 answer was we're gathering information, we're going to be
3 presenting it to them. It's assumed that since you're
4 gathering information that -- my question was, isn't it true
5 that the Board has not yet acted to decide whether to repair
6 or retire the Crystal River 3 unit?

7 A I'm not trying to -- I apologize if it appears I'm
8 trying to dance around your question. I'm sincerely not. As
9 part of Progress Energy, last year the Board of Directors was
10 appraised of our decision to repair the unit in June of 2011.
11 That decision has not changed.

12 Now, we know that since June of 2011 we have
13 learned a lot more about what that repair will require, both
14 technically, and the risks associated with that work, as well
15 as other quantifiable and non-quantifiable issues surrounding
16 this repair. And I am also aware that this issue will go up
17 to the new Duke Board of Directors in the future for a
18 continuation on that decision to repair or retire the unit.

19 So I guess what I'm trying to say is I'm trying to
20 fully answer your question, but I believe that's the best way
21 to answer it.

22 Q Okay. Well, you've injected a lot more into the
23 response that we, I guess, need to explore. The Board of
24 Directors that you're referring to was the Board of Directors
25 of Progress Energy Florida, correct?

1 A Yes, sir.

2 Q Okay. The Board of Directors of Progress Energy
3 Florida no longer exists, correct?

4 A That's correct, sir.

5 Q And as you sit here today, the Board that has
6 operational control, responsibility, oversight of Progress
7 Energy Florida is a newly constituted Board that I think is
8 known essentially as Duke's Board, correct?

9 A Yes, sir, it has members from the former Progress
10 Energy Board, as well, but it is the new Duke Energy Board of
11 Directors.

12 Q Okay, and to call it, just for shorthand, the new
13 Duke Energy Board of Directors --

14 A Yes, sir.

15 Q -- as we sit here today, the new Duke Energy Board
16 of Directors has not made a decision to repair the Crystal
17 River 3 plant, correct?

18 A I would say the most accurate way to describe that
19 is they have not made a decision to change the current path
20 with Crystal River 3. They will make a final decision on
21 repair or retirement in the future.

22 Q So is it your testimony that the current
23 assumption is that the Crystal River 3 unit is going to be
24 repaired and that people should basically take the position
25 of the company as we're going to repair the Crystal River 3

1 plant --

2 A Right now --

3 Q -- absent a change?

4 A Right now our decision is to repair the unit and
5 that that decision will be reviewed in the future with the
6 Board of Directors.

7 Q Do you know if you've made a filing with the SEC
8 to indicate that the decision has been made to repair the
9 Crystal River 3 unit?

10 A I believe our filings with the SEC have indicated
11 we would be repairing the unit and that that decision would
12 be reviewed with the Board of Directors in the future.

13 Q Do you know the purpose of the review with the
14 Duke Board of the decision?

15 A Certainly. There are several purposes. First,
16 the Duke Board of Directors were not as familiar with the
17 issues, both technically and otherwise, revolving around a
18 potential Crystal River 3 repair. So the first purpose was
19 to inform them of the facts surrounding the questions.

20 Second, we have to remember that today we know
21 much more about the repair than we did when the initial
22 determination was made by the previous Board of Directors.
23 So it's also -- the purpose is also to review with the
24 current Board of Directors the additional facts that we are
25 aware of.

1 Q Have you been asked for your recommendation as to
2 whether to repair or retire the plant?

3 A No, sir, not directly.

4 Q You would agree there's a distinct possibility
5 that the Duke Board, when being fully advised as to the
6 Crystal River 3 situation, that they could decide to retire
7 the plant, correct?

8 A Yes, sir, that is one option.

9 Q And you've been here throughout the proceeding
10 this morning, correct?

11 A Yes, sir.

12 Q And you've heard the discussion about qualitative
13 risk and quantitative risk?

14 A Yes, sir.

15 Q Okay. And just briefly, what -- explain your
16 understanding of the distinction between a qualitative risk
17 and a quantitative risk.

18 A Well, I mean, it's fairly obvious. A qualitative
19 risk is one that a number can be placed against, and it may
20 represent a financial risk associated with a decision. A
21 qualitative risk is one that may not have a number applied to
22 it, but may have just as much significance.

23 An example might be net present value to the
24 customer would be qualifiable risk and a quantifiable risk
25 are things like fuel diversity, impact on our community,

1 other items like that that would be qualifiable.

2 Q So with respect to the availability of NEIL
3 insurance proceeds, as we sit here today, do you know whether
4 the NEIL insurance proceeds will be available to assist with
5 the repair of the Crystal River 3 unit?

6 MR. WALLS: I'd like to object to this line of
7 questioning. This is way afield of his testimony.
8 We've given Mr. Moyle some latitude, given the
9 delaminations happened in 2011, to address questions,
10 but this is way beyond the project management and
11 decisions made in '11 with respect to the uprate
12 project.

13 CHAIRMAN BRISE: Mr. Moyle?

14 MR. MOYLE: Well, I think in terms of what I had
15 mentioned in my opening statement, that the qualitative
16 risk vis-a-vis this and Levy are worth exploring, that,
17 you know, it's worth exploring NEIL to the extent they
18 have the burden of showing that the project is feasible
19 and moving forward and there are a lot of uncertainties
20 out there, such as insurance. I think that's something
21 that can be explored or should be explored.

22 MR. WALLS: We're here on the uprate project.
23 There is a completely separate docket for the
24 delamination phase two and phase three to come down the
25 path later on, when the time is right, to address those

1 decisions, and that is the place to address those
2 questions.

3 MR. MOYLE: But I think we've already had testimony
4 that the uprate doesn't work unless you get the Crystal
5 River 3 unit repaired. I mean, it's wholly dependent on
6 the repair of the Crystal River 3 unit, so I don't think
7 you can divorce them as cleanly as counsel for Progress
8 would suggest.

9 CHAIRMAN BRISE: Okay. Mary Anne, any thoughts?

10 MS. HELTON: Maybe if Mr. Moyle could help us point
11 to what issue is being addressed here. As I understand
12 the whole process, the delamination issues are being
13 addressed in the other docket.

14 BY MR. MOYLE:

15 Q Let me come at it another way. So it is true that
16 you're seeking money today associated with the uprate
17 project, correct?

18 A Yes, sir.

19 Q Okay. But the uprate project is not effective --
20 won't do anything to the extent that the Crystal River 3 unit
21 is not repaired, correct?

22 A Without repair of the unit and return to service,
23 the uprate project would not be placed in service.

24 Q So if there is a decision that is made to retire
25 the unit, wouldn't it follow that all of the money spent on

1 the uprate will not produce measurable benefits for the
2 ratepayers?

3 A Yes, sir.

4 Q And I think we've talked about whether a decision
5 has been made, you know, on the repair-retire decision. I
6 guess what I was trying to do is to have a quick conversation
7 about NEIL proceeds and ascertain whether there's any
8 certainty, you know, on those as a relevant point of inquiry,
9 as well.

10 CHAIRMAN BRISE: No, you'll move on beyond that.

11 BY MR. MOYLE:

12 Q Do you have an understanding as to who has the
13 burden of proof to prove that this is a viable feasible
14 uprate project?

15 A I believe that's a question for my lawyers. As
16 I understand the statute we are -- we submit information
17 associated with feasibility every year and that specific
18 point has been deferred in these proceedings.

19 Q Okay. I'm just asking you in your layman's
20 understanding with respect to the project being feasible.
21 Do you have an understanding whether it's your burden or
22 whether the consumers have to show that the project is not
23 feasible?

24 MR. WALLS: Asked and answered.

25 MR. MOYLE: If he doesn't know, he doesn't know.

1 CHAIRMAN BRISE: Yeah, restate your question.

2 BY MR. MOYLE:

3 Q Do you have an understanding -- you've testified
4 in a number of PSC proceedings.

5 A Yes, sir.

6 Q Do you have an understanding as to who has the
7 burden of proof to show that the uprate project is feasible?

8 A I believe my answer remains the same. The statute
9 requires that the company submit feasibility annually and
10 that the feasibility of this project has been deferred in the
11 current hearings.

12 Q So you can't answer that yes or no?

13 A I'm not a lawyer. I'm not sure what the phrase
14 burden of proof means.

15 Q Okay. Let me refer you to page 18 of your
16 testimony.

17 A Yes, sir.

18 Q On page 18, line 21, you say that the contract
19 requisition then goes through the bidding or finalization
20 process. And am I -- am I correct that with respect to
21 contracts that you either have sole source contracts or
22 competitively bid them for work related to the uprate?

23 A Yes, sir.

24 Q Okay. And out of the capital dollars that are
25 being requested, the 50 million, approximately, do you know

1 how much of that was secured or procured through a sole
2 source?

3 A That information is available. I don't have it
4 ready at my fingers right now, but each of the contracts in
5 my -- that are presented -- significant contracts in my
6 testimony indicate rather a sole source or a bid process was
7 used so the math could be done to come up with those numbers.

8 Q Okay. And with respect to the March 14th delam
9 event.

10 A Yes, sir.

11 Q After that took place, did you all huddle and say,
12 my goodness, this is the second delam that we've had, does it
13 make sense to continue charging ahead with our uprate project
14 that is dependent on the Crystal River 3 being repaired? You
15 know, I'm saying that in a colloquial fashion, but I assume
16 you all got together and had a meeting or two meetings to
17 discuss that, is that correct?

18 A Yes.

19 Q And out of the 50 million in capital costs, do you
20 know how much of that 50 million was incurred following the
21 March 14th delam event?

22 A I don't have it down to the day, but I know that
23 approximately 31 million was incurred between April and
24 December.

25 Q So a majority was incurred after the delam event?

1 A Yes, but it represented a significant slowing of
2 expenditures as expected and planned for 2011.

3 Q But you still -- you didn't put things on hold and
4 say, you know, stop, we've had another delam, let's not spend
5 any further money after that March event, correct?

6 A A more accurate description is provided in my
7 testimony. We did put a significant slowdown in expenditures
8 and controls in place to control spending going forward due
9 to the uncertainty as well as due to the longer timeline now
10 allowed by a longer extended outage in order to accomplish
11 the extended power uprate work.

12 So, for example, I believe last year, prior to
13 the delamination, our estimated expenditures in 2011 was just
14 over -- well, I think the right comparison is about 94
15 million in 2011, and we ended up spending only 49, and the
16 reason was because of that conscious effort to slow down
17 certain pieces of the project and move forward on others.

18 Q Okay. And I'm not faulting you for the decision
19 to slow down. I guess where I'm inquiring is, you know, did
20 you put on the brakes fast enough and hard enough, really.
21 And I wanted to spend a couple of minutes asking you about
22 certain components of that.

23 A Certainly.

24 Q And it is true that after the March delam event
25 you continued to spend money on license application

1 activities, correct?

2 A That's exactly correct.

3 Q Okay. And you also continued to spend money on
4 project management expenses?

5 A On some project management expenses. Others were
6 deferred or slowed down.

7 Q Okay. And again, I'm just wanting to know that
8 it was not a complete shut down. The permitting -- you
9 continued to spend money on permitting, correct?

10 A That's correct.

11 Q You continued to spend money on on-site
12 construction activities, correct?

13 A A small amount, yes, sir.

14 Q And you continued to spend money on non-power
15 block engineering, correct?

16 A Yes.

17 Q And you continued to spend money on non-power
18 block procurement?

19 A Yes.

20 Q And you continued to spend money on related
21 construction to the non-power block engineering and
22 procurement, correct?

23 A There was very little construction cost expended
24 following the delamination, but I believe there may be some.
25 If you look in the details there would be some there.

1 Q And to the extent that an ultimate decision is
2 made not to move forward with this repair, all of those
3 monies will have been, in effect, classified as -- you know,
4 the common term is throwing good money after bad; you would
5 agree with that, correct?

6 A No, no.

7 MR. MOYLE: Okay. I don't -- you may view the
8 world differently than I. That's okay. Thank you,
9 that's all I have.

10 CHAIRMAN BRISE: At this time we'll go ahead and
11 take our afternoon break, and give our court reporter
12 some rest there. So we will reconvene at 3:20.

13 (Brief recess)

14 CHAIRMAN BRISE: We're going to get ready to
15 reconvene. We were getting ready for cross by OPC.
16 Mr. Rehwinkel.

17 MR. REHWINKEL: Thank you, Mr. Chairman. And
18 before I begin my cross examination, several preliminary
19 items. First of all, I have discussed with counsel for
20 Progress and to some degree talked to them about the
21 scope of my questions. I am going to be asking
22 questions of the witness in all three sets of testimony.

23 The scope of my inquiry is about the actual cost
24 for final prudence determination and cost recovery from
25 customers in 2013 under the NCRC. The issues related to

1 the April 30th and the July testimonies relate to the
2 process that the 2011 costs were evaluated against, and
3 I just wanted to state that as a preliminary matter.

4 I have also passed out a confidential exhibit that
5 relates to contracts sponsored by Mr. Franke and relates
6 to that decision making. I have not provided copies to
7 the two parties that are not signatories to the
8 nondisclosure agreement with the company. And I have
9 discussed with the company that the witness should avoid
10 verbalizing certain information in of the agreements. I
11 think he's well schooled in these contracts, but
12 nevertheless, I am going to proceed cautiously in this
13 area.

14 CROSS EXAMINATION

15 BY MR. REHWINKEL:

16 Q So with no further ado, good afternoon,
17 Mr. Franke.

18 CHAIRMAN BRISE: Before you move forward, that is
19 the understanding?

20 MR. WALLS: Yes, Commissioner.

21 CHAIRMAN BRISE: Okay.

22 BY MR. REHWINKEL:

23 Q I would like to turn you first to your March 1st
24 testimony, if I could.

25 A Yes, sir.

1 Q And on page three, lines 18 and 19, you discuss
2 Schedule T-7 for contracts in excess of a million dollars for
3 2011, do you see that?

4 A Yes, sir.

5 Q Okay. And we'll come back to that -- to that
6 later. As I understand -- if I could get you to turn to
7 page -- well, first of all, Mr. Moyle asked you a question
8 that I just thought I should ask a clarifying question about.
9 He took you through some numbers and got you to agree,
10 subject to check, that they equated to about \$66 million, do
11 you recall that?

12 A I believe 66 sounds like the amount reduced in
13 2011 from the original budget. Is that the figure you're
14 asking about?

15 Q Well, I was talking about the 49 million --

16 A Oh, okay. Yes, sir.

17 Q -- plus some carrying costs. Do you recall that?

18 A Yes, sir. Yes, sir. Now I understand.

19 Q Just to be clear for the record, the company is
20 asking for \$40 million in revenue requirements to recover in
21 2013; is that your understanding?

22 A That -- subject to check, that sounds correct.

23 Q Okay. And the \$49.6 million is the capital
24 additions that you reference, correct?

25 A That is correct.

1 Q And those dollars, that \$49 million, if the
2 Commission agrees with the company, those dollars will be
3 given a final prudence approval, correct?

4 A That is correct.

5 Q And those dollars then will be recovered from
6 customers when they are added to the plant-in-service
7 accounts in the rate base and recovered as a part of the base
8 rates, is that your understanding?

9 A That's my understanding.

10 Q Okay. So there's not a \$49.6 million capital
11 addition recovery other than the carrying costs associated
12 with those?

13 A That's correct. I was answering the questions
14 relative to his question about capital expenses, is how I
15 read his question, sir.

16 Q Okay. I just didn't want there to be a headline
17 that there was a \$66 million request from customers.

18 A I was asking in terms of the expenses, not the
19 revenue requirements.

20 Q Perfect. I understand. Thank you. So isn't it
21 true that the -- if I take you to page 12 of your March 1
22 testimony and direct you generally to lines six through 12,
23 that the \$49 million number that Mr. Moyle asked you about
24 earlier is the resulting balance after reducing your capital
25 expenditures by \$45.2 million from the prior estimate?

1 A Yes, sir, that's correct.

2 Q Okay. Now, Mr. Moyle asked you about your license
3 application costs, do you recall that? And I want to ask you
4 some follow-up questions along that line. I believe that
5 your testimony shows that you had \$2.8 million of LAR or
6 license application renewal -- is it license application --

7 A Request.

8 Q -- request, or LAR dollars in 2011, is that right?

9 A That is correct, 2.8 million were applied in 2011.

10 Q Okay. And just so I understand what your
11 testimony states here on page 12, you describe a variance of
12 \$1.2 million and you say that it is because the AREVA
13 engineering support costs were budgeted to engineering but
14 invoiced to licensing. Do you see that?

15 A That's correct.

16 Q Is that saying that it was actually -- should have
17 been always licensing and it just happened to be budgeted the
18 wrong way? Is that right?

19 A I think that's correct. Remember that some of
20 these engineering costs, specifically the AREVA costs, it's
21 almost -- it's challenging to know which bucket to put it in
22 because they both support engineering and the license
23 application. But in this case this was a reflection of some
24 that had been budgeted to engineering but got applied to the
25 licensing portion in this budget year.

1 Q Okay. What I'm asking about this is would you
2 accept, subject to check, that for 2012 the amount was 2.8
3 million for LAR costs?

4 A I would agree, subject to check.

5 Q And for 2013 it was 2.4 million?

6 A I would agree, subject to check.

7 Q I say was. It was projected to be that amount.

8 A Yes, sir.

9 Q So is there something about the LAR process that
10 it's in that 2.4 to 2.8 million dollar region regardless, or
11 does it just happen to work out that way? Can you tell me
12 why they're kind a of steady state number?

13 A These were based on our best projections at the
14 time that the filings were made. Obviously the licensing
15 work is one difficult to know exactly what the costs are
16 because essentially it's the amount of money required to
17 initially do the analysis, but then once we get into the
18 review process with the NRC, it's how much costs are required
19 to respond to questions we haven't -- we haven't received
20 yet.

21 So it's -- of course it's difficult to know how
22 much it will cost to answer a question you don't know what
23 the question is yet. So these numbers tend to be a little
24 uncertain because we're not certain how much detail the NRC
25 may ask for, although we do our best to prescribe how much it

1 should cost, and these are our best estimates.

2 Q Okay. Just so I understand -- and I'm not trying
3 to replot old ground, but for 2011, were the license
4 application costs, regardless of how they were budgeted or
5 invoiced, were they a million six, or were they 2.8 million?

6 A They were 2.8 million.

7 Q Okay. Now, is there anything to your knowledge
8 about the LAR costs that would allow them to be avoidable or
9 deferrable in any way?

10 A Once the work is done then it needs to be paid
11 for, be it either by the NRC or by our vendors for doing the
12 engineering work in support of that licensing work.

13 Q When you say by the NRC, you're talking about
14 payments to them for the work?

15 A Yes, sir, we pay them for their review of this
16 license application.

17 Q Okay. Okay. Can you tell me, on page 13, if you
18 can turn there, about what you mean on lines 15 and 16 when
19 you talk about 25 percent of the variance -- and here you're
20 talking about the Power Block Engineering, procurement and
21 related construction costs. Twenty-five percent of that
22 variance to budget is attributed to deferring 2011
23 contingency funds. Can you tell me what that means?

24 A Well, I think what it means is, we tried to detail
25 why the money was spent -- was below our projection and

1 obviously there are contingency funds assigned to specific
2 activities like, for example, construction. You have a
3 budget for the construction phase of a particular engineering
4 product and there's an amount of contingency that is applied
5 to that portion.

6 In this case, for example -- and obviously, you
7 know, there's a lot of different places where this would
8 apply. But a typical example for this would be a
9 construction activity that we had earlier in the year
10 envisioned occurring in 2012 not occurring. The contingency
11 funds associated with that construction activity would move
12 with the construction activity as we delayed that work.

13 Q Okay. So my question is along these lines. I'm
14 looking on line eight. There's a variance of \$34.2 million.
15 Do you see that?

16 A Yes, sir.

17 Q So roughly eight million or so would be 25 percent
18 of that 34, right?

19 A That's correct.

20 Q So customers would probably want to know, given
21 the state of the containment building and the repair, why
22 there would be any contingency they would be asking to pay
23 for. So is contingency part of what is being asked for
24 recovery, or are you saying because you spent 46.8 million,
25 there was no contingency, it's just what you spent?

1 A The 49 is what we spent. It does not include
2 contingency money. But as we project future costs, we
3 include contingencies so that the actual values notified
4 ahead of time better match what the actual spend is after the
5 work is completed. Does that make sense?

6 Q Okay. So if you proceed with the project -- and
7 this is kind of more of a process issue as I'm trying to
8 understand how you go through and whittle down costs to the
9 absolute minimum and still keep your project on schedule and
10 keep the repair viable.

11 What steps do you take to minimize contingency
12 with respect to what customers are being asked to pay for,
13 whether it's an actual estimate or even in the projected
14 categories?

15 A Well, the way I understand the way the customers
16 will be paying, they'll only pay what is actually spent. So
17 for the purposes of future budgets we identify contingency
18 funds to address unknown aspects of the project and be able
19 to pay for those in future years.

20 In this case we're only asking for prudence on
21 2011 actual costs, and the only place where 2011 actual costs
22 may have -- they may have represented a contingency fund
23 before we got to that problem and that money would have
24 actually been spent, I assume, in 2011.

25 Q Okay. Let's go to your April 30th testimony.

1 Just so I understand, on page ten, near the bottom of the
2 page, lines 21 through 23 -- and when I ask you questions
3 about 2012 and 2013, I'm trying to understand your process.
4 I'm not going to ask you -- my question isn't intended to go
5 to you explaining the prudence or the reasonableness of any
6 costs for 2012 and 2013.

7 But would you be able to explicate here for the
8 benefit of the Commission what you mean by the statement that
9 starts with current project costs in 2012 are virtually
10 identical? Do you see that?

11 A Yes.

12 Q And I'm asking you that in the context of what we
13 heard earlier in the day where delay adds costs in the form
14 of carrying costs.

15 A I do believe that delay can add cost, but I
16 believe when we wrote this statement here we felt that there
17 was enough contingency available in this project, as we
18 described earlier, that it may not represent a significant
19 increase in this specific project due to the nature of the
20 work that remained in this project.

21 Q Okay. On page 12 of your testimony, carrying
22 through to the top of page 14, you discuss the status of the
23 LAR, the L-A-R. For purposes of your evaluation of the
24 feasibility of this project on an ongoing basis, has the
25 status of the LAR changed any since you filed your testimony?

1 A Only that the LAR has continued to move forward
2 with the NRC. We've had both meetings with them to talk
3 through technical issues associated with that licensed
4 application, as well as received numerous sets of requests
5 for information from the Staff, and answered those requests.

6 I believe, as each month goes by, we gain
7 continued confidence in the ability to complete the licensed
8 application with the NRC.

9 Q Okay. So on the top of page 14 you state that the
10 company believes that NRC will approve the EPU LAR in 2013.

11 A Yes, sir.

12 Q Is that -- is there an early, middle, late of the
13 year estimate that you have?

14 A The last information I received was that they --
15 we have heard and responded to 17 of the 18 technical
16 branches' questions. We're anticipating the last branch to
17 be submitting their questions very soon, and that the NRC
18 should be writing up their response if they continue to find
19 our application acceptable this fall, and that we may be in
20 hearings in early next year.

21 Q Why are you expecting a hearing?

22 A It's part of the process. This is just an ACRS
23 committee hearing. These aren't public hearings.

24 Q Okay. So you don't have any Atomic Safety and
25 Licensing Board contentions?

1 A No contentions, no, but those boards will hear the
2 application.

3 Q So if -- we talked earlier about \$2.8 million
4 of LAR costs -- I'm sorry, 2.4 million in 2013. Are you
5 expecting that these costs -- you would incur somewhere in
6 the same neighborhood in 2013, even though you expect to get
7 your LAR in 2013?

8 A That's what we believe right now, but obviously,
9 again, like I said, licensing costs are difficult to predict
10 because they're based on, you know, uncertainty as to how
11 many questions and what type of typical questions will be
12 needed to be responded to.

13 Q Okay, and just one last LAR question. Is it the
14 company's position that LAR-related costs really are not
15 going to vary regardless of whether you slow down or curtail
16 other type of work; it's pretty much a fixed cost with
17 respect to pursuing the project?

18 A Yes, sir, we believe that the LAR costs will be
19 the same whether we sped the project up or slowed it down.
20 But once it is in the process it's important to continue the
21 licensing application through its end, and that's what we're
22 doing.

23 Q Okay. Now, with respect to your testimony
24 starting on line 12 through 21, on page 14 of your April 30th
25 testimony, this is where you talk about awarding the EPU

1 phase construction contract in 2013 under your current
2 schedule. Do you see that?

3 A Yes, sir, I do.

4 Q Okay. Is there any cost that the company incurs
5 to have the ability to award that contract to a vendor or has
6 this gone out to bid yet?

7 A No, it has not gone out to bid, although we have
8 spoken with a number of firms about the scope of work to try
9 to -- we've used those discussions to create the budgets that
10 you've seen, to create the cost estimates that we've seen for
11 the construction phases, so we haven't actually bid the
12 project, but we have let vendors look at the scope of work so
13 that we could best estimate our construction costs.

14 Q And is it 100 percent that you will bid this work
15 out?

16 A No. Well, we will -- when we -- if and when the
17 decision to continue with the EPU project is made, yes, we
18 will bid it. If your question is will we bid the project,
19 absolutely. But we will delay signing a construction
20 contract until we have the best understanding of a repair
21 schedule for the containment as well as that final decision
22 on retirement or repair of the facility.

23 Q Okay. So to the extent -- let's say that for
24 whatever reason in the future the company decides not to
25 pursue the EPU, for whatever reason. Costs associated with

1 the construction contract are entirely avoidable. You don't
2 have any up-front costs or reservation or retainer costs or
3 anything like that because you haven't bid it out, right?

4 A It's always difficult to state an absolute. Some
5 construction costs would still occur, but I would say the
6 vast majority of construction costs would be retrievable.

7 Q Okay. Retrievable in the sense that if they were
8 projected it would never occur, then?

9 A They would never be spent. They would never be
10 spent.

11 Q Okay. Let's look at the bottom of 14, continuing
12 on to page 15. And this is something I want to spend a
13 little bit of time with you on. On lines 22 and 23 you talk
14 about necessary progress payments on the LLE. That's long
15 lead equipment, right?

16 A Yes, sir.

17 Q For the uprate in 2012 and 2013. But you
18 reference reviewing this process in 2011, right?

19 A That's correct.

20 Q Okay. So did you use the same kind of review
21 process to evaluate or seek to curtail long lead equipment
22 progress payments in 2011 or were any of those costs subject
23 to this type of analysis?

24 A Oh, absolutely, they were. They were reviewed
25 under a review process prior to completing to any additional

1 long lead costs.

2 Q Okay. Were there long lead equipment costs that
3 you were able to avoid or mitigate in the procurement process
4 with respect to 2011, once the March delamination occurred?

5 A There were some that were delayed after the March,
6 2011. Most of our long lead contracts, based on the original
7 schedule, had already -- had already been executed and the
8 majority of the work on fabrication on most of those long
9 lead items had occurred. But, for example, there was a
10 request to purchase two new feed water heaters as a scope
11 addition that was -- that came forward in the first quarter
12 of 2012, or soon after the delamination in March of 2011.

13 The decision to commit to that purchase was
14 delayed until the schedule indicated we needed to go ahead
15 and let that contract in order to support our strategy of
16 being capable of executing the extended power uprate during
17 the current outage.

18 Q Okay. So in that example those costs would have
19 been deferred from recovery in '11 but would be subject to
20 recovery in a later period?

21 A Yes, that's correct. And we have executed those
22 contracts now and that did push the money into years after
23 2011. So that's an example where we used that to process.

24 Q Okay. So that \$45.2 million number that we talked
25 about in your March testimony --

1 A Yes, sir.

2 Q -- on page 12, some of those dollars weren't
3 necessarily avoided completely, they would be -- they would
4 have been deferred and encumbered in the sense that you were
5 legally obligated to pay for them, but at a later time?

6 A That is correct. There is a subset of that money
7 that was delayed to future years but we are still encumbered
8 on. Some of them are dollars that by choosing not to execute
9 a contract in 2011, should the project ever be cancelled,
10 would never be spent. So there are dollars in both those
11 categories in that 45 million.

12 Q Do you have any idea, of that 45.2 million, what
13 the breakdown would be?

14 A You know, it would be challenging to come up with
15 an accurate figure, because every contract is written a
16 little bit different.

17 Q Okay. Tell me again about -- let's go back to
18 page 14 of your April 30th testimony and let's talk about
19 these progress payments. Just talk about them for a second.
20 What do they represent? Do they represent payments that you
21 are obligated to make under the contract if you are going to
22 take delivery of certain LLE items?

23 A Yes. Typically a manufacturing contract would
24 require committing to pay funds based off of the work
25 accomplished at the factory, for example. So if the LP

1 turbines were already manufactured, and the manufacturing was
2 complete, that contract would require a certain amount of
3 obligation by the company, based on that manufacturing point.
4 But the total contract may not be paid until delivery, for
5 example. So it all depends on the way the contract is
6 written and the milestone payments and payment against work
7 already achieved.

8 Q Okay. So if I go down and look on page 15, lines
9 seven through nine, there's the sentence that says most of
10 the LLE Progress payments for 2012 and 2013 reflect
11 preexisting contractual commitments.

12 A That's correct.

13 Q And was that same statement true with respect to
14 2011?

15 A Yes, that is principally true, in general. And
16 why I say -- remember our original plan was to execute the
17 last phase in '11 and then as the project moved we did delay
18 some of those into 2012. So by the nature of long lead
19 equipment purchases, they have to be ordered and committed to
20 prior to, obviously, the outage in which they're going to be
21 installed. So in general that is accurate.

22 Q Okay. And I understand -- I'm asking you about
23 what's on 15, really, with respect to what happened in '11.
24 So when I look at lines nine through 12, there were payments,
25 it says deferral of these payments -- and that refers to long

1 lead equipment progress payments, correct?

2 A Yes, sir.

3 Q Deferral of these payments cannot be accomplished
4 without cancellation or suspension of contracts, which would
5 result in penalties and an uncertain future regarding LLE
6 contract renewals to meet the current EPU work phase work
7 schedule.

8 Is it your testimony that what you did in '11 was
9 to analyze your progress payments that were coming due under
10 your contracts and made a cost benefit analysis about whether
11 to make the payments or to engage in whatever penalties or
12 uncertainties would inure to not making the payments, i.e.,
13 having to review the contract?

14 A I would agree with the way you've described it,
15 but it wasn't simply a cost benefit analysis. And as
16 explained in my testimony, we established a policy that we
17 wanted to be able to execute the extended power uprate during
18 this current outage as an option, so in some cases long lead
19 item procurement needed to proceed in order to be able to
20 maintain the option of execution during that outage. Does
21 that make sense?

22 So in some cases it was purely a, listen, we've
23 already paid for that component, all we're talking about left
24 is the delivery cost associated with receiving it; it makes
25 sense to go ahead and pay that delivery cost, from a cost

1 benefit analysis.

2 In other cases, specific long lead items might be
3 ordered or we'll continue a contract for a long lead item in
4 order to support our stated decision, which was to maintain
5 viability of execution of the project during this outage.

6 Q I think -- I think with respect to a question from
7 Mr. Moyle and in relation to that \$49.6 million that you
8 actually spent in '11 --

9 A Yes, sir.

10 Q -- I think you said something -- maybe it was 31
11 million was spent after -- say from April to December, is
12 that right?

13 A Yeah, I believe so. There's a schedule that shows
14 our month-by-month payments, and I believe the total is
15 around \$31 million spent in April to December.

16 Q Is that schedule in the -- in your -- is it an
17 exhibit to your testimony?

18 A It's an exhibit to, I believe, Mr. Garrett's
19 testimony that I helped sponsor. And it's -- I'm probably
20 going to get caught up in -- the figures can be found in the
21 schedule, I believe. I'm looking at -- I'm looking at
22 Schedule T-2.3, which is in Mr. Garrett's testimony, page 5
23 of 36.

24 And I know I'm going to get outside my expertise
25 relative to what category of capital expense this is, but if

1 you look at line one, this is a very close approximation.
2 It's construction cost, plant additions to the period, and it
3 shows month by month the expenditures. And I believe the
4 figures could be calculated from there.

5 Q Okay. So you're talking about the amounts?

6 A Yes, sir. It gives a reflection of how much was
7 spent month by month.

8 Q Okay.

9 A Now, we didn't cut it off on March 14th, but by
10 the end of the month the figures are available.

11 Q Okay. So of that \$31 million, do you have any
12 familiarity with what percentage of that was based on long
13 lead equipment obligations that you were legally required to
14 make under preexisting contractual commitments?

15 A I'd have to go back and go through each contract
16 to know a certain number, but I have been given a figure of
17 approximately 16 million of the 31 million.

18 Q Okay. So would it be fair to say that for the
19 balance of that, the other, say -- the other half, 15 million
20 or so, would those have been engineering activities required
21 to support the minimal construction path activities that you
22 were -- that you had decided to undertake?

23 A That would be a good example. It would also
24 include licensing activities associated with that same path.
25 So as I detailed in my testimony, in general, after the March

1 delamination, we continued with expenditures in the following
2 areas. One was the long lead items we've now had a
3 discussion concerning; engineering activities in order to
4 finalize the engineering plan for execution of the remaining
5 phase of the extended power uprate; the licensing activities
6 associated with achieving the NRC approval for that work.

7 And then there's some other costs, like facility
8 costs, that were necessitated, for example, for receipt of
9 those long lead items, some, obviously, construction
10 facilities to store those things, items, properly.

11 But in essence only those activities which were
12 required to maintain the ability to execute during the
13 current shut down were approved and moved forward, and we
14 did continue moving forward with all the licensing and
15 engineering work.

16 Q Okay. On pages 16 and 17 you talk about the POD
17 tower, the point of discharge tower.

18 A Yes, sir.

19 Q Do you see that? Were any of these costs -- these
20 meaning relating to the POD tower -- were any of those
21 deferred out of 2011?

22 A I'd have to go back and look. I believe most of
23 the 2011 POD costs had already been deferred for other
24 reasons. Principally the only costs right now we have in
25 this area have to do with storage and maintenance of the

1 current components so that should that project be cancelled
2 we have salvage value on that equipment.

3 Q Is it possible that you -- depending on what
4 happens with the EPA rules and Crystal River 1 and 2, that
5 you may not have to implement that aspect of the project at
6 all?

7 A That is correct.

8 Q Finally, in your April 30th testimony, if I could
9 get you to look on page 20, on lines 12 -- on line 12 there's
10 the \$617 million figure. Do you see that?

11 A Yes, sir.

12 Q And I think that was also the number last year.

13 A Yes, sir, it has not changed.

14 Q Okay. At the time you wrote the testimony it was
15 617. Is that subject to change as we are in this hearing
16 today?

17 A No, that's still the figure that we currently
18 have.

19 Q Okay. We heard some discussion, again, about
20 delay can cause costs to go up. Will this number change if
21 the project is delayed beyond the existing estimate of in
22 service, I think, what, in early '14? No, I'm sorry, early
23 '15, right?

24 A I think the best way to resolve this kind of goes
25 as follows, Mr. Rehwinkel. When this 617 number was derived,

1 there was a certain amount of contingency booked at that time
2 based on the uncertainty in engineering and uncertainty in
3 construction costs associated with these last phases of the
4 project. And the project manager has continued to monitor
5 that total project cost as the delays have occurred and as
6 we've learned more about the project.

7 Now, remember that this is a -- there's a lot of,
8 you know, moving balls in this juggling act. One, the number
9 may have been based off of a short, compressed schedule
10 during an R-17 outage where costs to install are much higher
11 due to overtime costs and requirements for much more
12 personnel to implement over a shorter time frame.

13 Okay, now we're envisioning construction over a
14 longer period of time to reduce those costs, so that would
15 cause the project costs to go down. Additionally, since that
16 may be executed later in time, while we have less man hours
17 to implement the project, less overtime hours to implement
18 the project, there's going to be a cost increase due to it
19 being done later in time.

20 So it's my understanding the project manager
21 believes that this figure, with this contingency, still
22 represents the best known cost for the total project.

23 Q Okay, I sort of lied. Now let's talk about JF-5.
24 I meant to ask you one question about that.

25 A Yes, sir.

1 Q On page five of six of your JF-5 -- can I get you
2 to turn to that?

3 A Yes, sir.

4 Q And we see that through the end of 2011 you show
5 total project costs, it looks like, of 333.6 million. Do you
6 see that?

7 A Yes, sir.

8 Q Okay. And then there's a number of 20 million,
9 which is, I guess, if you cancelled sometime like today you'd
10 have additional costs throughout '12 to give you a total of
11 353.3 million. You could get out of the project for this
12 amount of money, is that right?

13 A Well, that was the estimate at the time of this
14 presentation. Obviously this presentation was made over a
15 year-and-a-half ago, I think, now. So these numbers, for
16 example, have changed. For example, the 2012 estimate, this
17 was canceling at --

18 Q February of '12?

19 A Right, before the delamination occurred, even,
20 so --

21 Q I'm looking on page one. It says February of '12.

22 A I'm sorry, I got the wrong year. So it is
23 February of '12.

24 Q All right.

25 A So there's a couple things that have changed.

1 First of all, I think the costs through 2011, actually, if
2 it was not -- well, okay, so it is 333.6. I know there's
3 another figure in Mr. Garrett's number which I think relates
4 to what portion is under NCRC, and what may be under other
5 cost recovery mechanisms. But I believe the number for our
6 purposes is actually 318 million, as shown in Mr. Garrett's
7 figures. And the 2012 estimate here would have been for
8 canceling it in February. So obviously, as we spend money
9 each month, that figure changes.

10 Q Okay. So it will be whatever the actuals are
11 after February through today?

12 A It's -- not exactly. And the reason for it,
13 obviously, to get out of some contracts there would be some
14 continued payments associated with some contracts that have
15 ongoing work, and it would depend on the terms and conditions
16 of those individual contracts.

17 Q Okay. Let's go to your July 9th testimony. And I
18 want to take you to pages 12 through 15.

19 A Yes, sir.

20 Q And this, on lines seven through nine, you talk
21 about incurred and committed EPU costs in the first quarter
22 of 2011, and those costs were not amenable to revision as a
23 result of this event.

24 A That's correct.

25 Q Can you give me just a little more explication

1 about what those are? Is that everything but the \$31 million
2 that you talked about?

3 A Well, some of them -- some of these monies are
4 included in the 31 million. So I believe -- you're referring
5 to lines five through seven, starting with in 2011, prior to
6 the March 14th delaminations?

7 Q Well, actually, talking about the first quarter of
8 2011 costs in lines seven through nine.

9 A Yes, sir.

10 Q Okay.

11 A So some of that -- some of these costs -- this
12 is discussing the fact that prior to the delamination the
13 company had committed to expenditures that were -- we were
14 not able to get out of, and as a result those costs would
15 continue going forward.

16 Q Okay. On line 20, you state that to develop the
17 current CR3 Uprate project schedule, PEF evaluated the EPU
18 phase work to identify what work was critical to proceed with
19 to maintain a schedule to complete the EPU, et cetera. Do
20 you see that?

21 A Yes, sir.

22 Q Okay. When was this evaluation done that you
23 describe here?

24 A It was done immediately after the delamination,
25 later in the month of March. And then, again, we looked back

1 and sat down and continued to discuss this concept of
2 continuing moving forward with those critical tasks only that
3 maintain the option and delaying and deferring all other
4 costs. So it was done immediately after the delamination and
5 then going forward it was applied to each decision as we
6 moved forward.

7 Q Okay. And then so you describe on page 13, lines
8 four through nine, and actually continuing on, but the bulk
9 of what your analysis is, you say, no EPU phase work has been
10 or is being accelerated, all overtime work has been
11 postponed, only working regular hours on EPU. And, again, we
12 talk about delaying the selection of the contractor. Do you
13 see that?

14 A Yes, sir.

15 Q And individually evaluated each contract and
16 change order.

17 A Yes, sir.

18 Q So this is -- this is a process that's ongoing, it
19 doesn't just revolve around testimony deadlines or hearing
20 schedules, you do this --

21 A Absolutely.

22 Q -- year round?

23 A Absolutely.

24 Q Okay. And is this process -- is this protocol
25 still in place?

1 A Absolutely.

2 Q What do you mean by EPU phase work? Can you tell
3 me what that means?

4 A I believe they're just referring to the third
5 phase of EPU.

6 Q Okay. Okay. So it's the extended uprate phase,
7 the third --

8 A Right.

9 MR. REHWINKEL: Okay. All right. Mr. Chairman,
10 at this time I would like to take up the confidential
11 exhibit.

12 CHAIRMAN BRISE: Sure.

13 MR. REHWINKEL: And let me -- this exhibit probably
14 needs a number.

15 CHAIRMAN BRISE: Sure. We're at 127.

16 MR. REHWINKEL: And for a short title you can call
17 it 2011 through 2013 T Schedules.

18 CHAIRMAN BRISE: Okay.

19 (Exhibit 127 marked for identification.)

20 MR. REHWINKEL: And this is a confidential
21 document. Let me describe for the Commission what
22 I have done. What Progress does each year for both
23 aspects of the NCRC, whether it's Levy or CR3, is
24 they're required to give you certain information about
25 contracts over a certain threshold amount. They keep

1 certain of the information confidential for business
2 reasons.

3 I have taken selected contract items and I have
4 put a hand-numbered, randomly assigned letter, and I
5 would -- so my purpose is for this document to go into
6 the record, it would be kind of a key, to get from the
7 discussion to the confidential information without
8 revealing the confidential information.

9 So it's important whether the witness is answering
10 questions or others are answering questions about it
11 that there be no reference to the information that's in
12 here, especially associating information that is in the
13 public record with the letter.

14 So I am going to be focusing mostly on the amounts
15 in Column G, for example, that are expended in the
16 current year.

17 BY Mr. REHWINKEL:

18 Q So with that explanation, Mr. Franke, are you
19 familiar with this document?

20 A Yes, I am. I have had a chance to look it over.

21 Q Okay. And these schedules, whether they're for
22 '11, '12 or '13, are ones that you are a sponsor of, correct?

23 A That's correct.

24 Q Okay. I just want to ask you a few questions
25 about certain of these contracts, and I would ask you to err

1 on the side of not disclosing information unless you're
2 absolutely certain that it's -- the way you talk about it is
3 not confidential if you verbalize it.

4 A I understand.

5 Q But if you see Item E -- and I'm not going to
6 refer to where on the page it is, it's just an item that's on
7 this page.

8 A Which page are you referring to?

9 Q Let's go to the first one. This would be the
10 estimated, the AE schedule. These are amounts that you would
11 have estimated in 2011.

12 A So this is Schedule AE-7?

13 Q Yes, for 2011.

14 A Yes, sir.

15 Q If I look in column G, I see a certain amount, and
16 if I turn over three pages to T-7 for 2011, I see an amount
17 that's different and materially lower for the same Item E.
18 Do you see that, in column G? Am I doing this right?

19 Q Yes, I am -- your E was a little difficult to find
20 on T-7, but --

21 A Okay. You see a group of E, I and B?

22 A I found the same one, yes, sir.

23 Q Okay. Yeah, I didn't write a very good E there.

24 A So as I -- you're referring to two number. On the
25 AE-7 filed in 2011, there was an amount in column G that was

1 the amount projected to be expended in 2011, the year --
2 during the hearings or during the filings in support of 2011
3 hearings.

4 Q Correct.

5 A Okay. And then on the T-7 schedule, they're
6 referring to column G, this is the amount actually expended
7 in 2011, filed the next year.

8 Q Right. For that contract, right?

9 A Yes, sir.

10 Q This is one of the -- well, can you tell me the
11 difference in the amount, roughly?

12 A It looks like it's just less than \$4 million.

13 Q Okay. And is that difference -- is that part
14 of the slowdown and expenditures as a result of the
15 delamination?

16 A Yes, this specifically was some engineering work
17 that did not need to proceed at the same pace and so that
18 work was slowed down and not as much work was applied in this
19 case.

20 Q Okay. And if I look at item I -- do you see item
21 I, back on the AE schedule?

22 A Yes, I do.

23 Q Okay. Now, as I look in column G and then do the
24 same comparison to I -- and I, in this case, on the T
25 Schedule for 2011, is right next to E, is it not?

1 A That is correct. That is correct.

2 Q And it looks to me that there is more expended in
3 2011, actually, than was estimated.

4 A Yeah, it looks like if I do the math, in round
5 numbers, approximately 800,000 more expended for that line
6 item for item I than had originally been estimated in 2011.

7 Q Now, why would that happen in the context of what
8 was going on, if you can tell without revealing confidential
9 information?

10 A I don't think it -- yeah, I think this
11 specifically was there were scope -- early in 2011 there were
12 scope additions identified that required additional work in
13 this particular area in order to meet that need that we
14 described earlier, which was maintain the ability to execute
15 during the current outage.

16 So there was scope additions which required
17 engineering work that would be charged to this particular
18 contract that were identified in 2011. Those scope additions
19 met the requirement we discussed relative to being required
20 to be completed to maintain the option of executing the
21 extended power uprate.

22 Q Now, without reading out loud, even though it's
23 not confidential, the work description over in the far
24 column, does anything about that work description tell you
25 whether this -- what phase of the project this related to?

1 A I know it's phase three.

2 Q Okay. And if I can get you to look at item H.

3 A Yes, sir.

4 Q And if I compared column G for item H to column G
5 for item H in the actuals, again, it looks like there was --
6 it's not a significant amount, but there was an increase in
7 what was spent versus projected, is that right?

8 A This is item H?

9 Q Yes.

10 A Yes, there's a small increase, on the order of
11 about \$350,000, it looks like --

12 Q Okay.

13 A -- between the two line items.

14 Q Do you have any information about why that would
15 have been --

16 A I believe that was --

17 Q -- in the other direction?

18 A Yeah, I know that this particular line item was
19 some late scope additions, so I suspect it was a refinement
20 of the actual costs between 2011 and then earlier in the year
21 than when they were actually procured at the end. I know
22 there were some scope changes on this specific line item.
23 And those scope changes are included in other -- in one of my
24 attachments to my March testimony.

25 Q Okay. So -- but generally, if I compared these

1 items in this -- the contracts from AE of '11 to final '11 --

2 A Yes, sir.

3 Q -- they generally would be reduced compared to the
4 estimate?

5 A Yeah, this is -- this is -- I would say it's best
6 described as a subset of that reduction in expenditures that
7 we discussed earlier between the approximately \$94 million
8 and the actual money expended in 2011.

9 These contracts and the changes between the
10 estimated during 2011 and the actual by the end of the year
11 is a subset of that reduction in expense in 2011.

12 Q Okay, thank you. Let me go -- let me take you now
13 to the 2012 and 2013 contract amounts. And I just want to
14 ask you, if we look again at item E --

15 A Yes, sir.

16 Q -- do you see that for -- actually, I think, what
17 I have done, I have put these backwards. So the last page is
18 '12, so if you could go to the last page, that's the 2012
19 one.

20 A I believe that you're talking about the P-7
21 schedule?

22 Q I may have -- mine may be out of order. I'm
23 looking -- I'm trying to look at AE-7 for 2012 which in mine
24 is the last page. Do you see that one? All these are on one
25 page instead of two pages.

1 A Hold on.

2 Q You see the very last page? It's in smaller
3 print.

4 A Yes, this is an AE-7 schedule docketed this year.

5 Q Okay, this is for 2012.

6 A Page 17 of 50?

7 Q Yes, sir.

8 A Okay. Yes, sir.

9 Q Okay. So if we look at item B, you see an amount
10 in column G. Do you see that?

11 A Yes.

12 Q And if you go back to the page 15 of 47 for 2013,
13 on the P-7 schedule -- this is all projected -- you see
14 another amount next to the dollar sign. Do you see that?

15 A Are you talking about column F?

16 Q In column G.

17 A Column G.

18 Q That's a number.

19 A Yes.

20 Q Okay. If you compare those two numbers, does it
21 tell you anything about what is going on? Is it because the
22 work was being deferred or was there another reason why there
23 was a difference in the number in '13 versus '12, if you can
24 say?

25 A Let me make sure I understand. You're asking

1 about the difference between a projected expended in 2013 --

2 Q Right.

3 A -- on the P-7 schedule --

4 Q Correct.

5 A -- versus the amount projected expended in 2012?

6 Q Correct. I understand these are not -- this is
7 not a true-up, these are just different amounts in different
8 years, right?

9 A Yes. I guess -- I'm not trying to -- I'm not
10 trying to be smart. I don't understand the relationship
11 you're seeking between a 2012 estimate and a 2013 estimate.

12 Q I guess my question is, is there a reason why
13 there's a difference directionally in 2013 that you would
14 spend under this contract, which is the same contract, you
15 know, for --

16 A I think it's more a reflection of that the
17 majority of this work is expected to be completed in 2012.

18 Q Okay.

19 A So the number in 2013 is -- I guess it can't be
20 proprietary, but the number is zero, on the P Schedule that
21 we're anticipating in 2013. But that's because we believe
22 that scope of work would be completed in 2012.

23 Q Okay, that's what I wanted to know, whether the
24 work was being done or was there any --

25 A Well, to your point, there may be some money move

1 into 2013 as this work is slowed down.

2 Q Okay.

3 A So when we filed this testimony, it was envisioned
4 that this work would be completed in 2012. There may be some
5 of that scope of work and how it reflects specifically to
6 costs, it would be difficult to project today, as I sit here,
7 but there might be some of that work that was deferred that
8 ends up going into 2013. So we may have some money expended
9 in 2013 on this contract, but that would be due to the
10 slowdown.

11 Q Okay. So if that happened, that deferral wouldn't
12 represent a cost to the customers in the sense that you just
13 wouldn't incur it in 2012, you would incur it in 2013 --

14 A That's correct.

15 Q -- there wouldn't be any carrying costs, because
16 it would be trued up because you didn't expend it, et cetera?

17 A That's exactly correct. This particular contract
18 is one that's principally time and material, so it's man
19 hours expended. So as the man hours expend, we are required
20 to pay them. The slowdown allows that expense to be delayed.

21 Q Okay. And now, item B, if I could get you to stay
22 on 2012.

23 A Yes.

24 Q Okay. Item B, you see a certain amount --

25 A Yes.

1 Q -- in column G for item B, and then the
2 corresponding item B for 2013, you see an amount that's
3 materially different.

4 A Yes, there's a -- you're referring to 2012, item
5 bravo, B.

6 Q Right.

7 A There is a number and the number is not
8 necessarily proprietary. It's 3.9 million. And then in 2013
9 right now is a \$10 million number.

10 Q Okay.

11 A Relative to this specific contract to, I believe,
12 the questions you're asking, that 10 million principally is
13 construction and installation costs, the vast majority of it
14 is. So in this case the decision to implement that
15 construction can be deferred until later. We do not have a
16 current committed contract to do that construction activity
17 and so if it's not actually performed then the work would not
18 have to -- would not cause any expenses and therefore they
19 would not go to the customers under the clause.

20 MR. MOYLE: Mr. Chairman, my -- I just need a
21 little help. My impression was all the '12 and '13
22 costs were being deferred and being delayed, and, you
23 know, I refrained from interposing this objection but
24 all this seems to be '12 and '13, you know, information,
25 and the document speaks for itself if the document is

1 coming in. I'm not sure of the relevancy of the '11
2 cost.

3 CHAIRMAN BRISE: Mr. Rehwinkel?

4 MR. REHWINKEL: I don't think -- do I have a
5 respond to an objection from Mr. Moyle?

6 MR. MOYLE: I'll object to relevancy grounds. It's
7 not relevant based on the issues that are in play.

8 MR. REHWINKEL: I am probing the process that the
9 company is going through. And part of my method is to
10 understand if they are applying it consistently and if
11 there is items that can be deferred or avoided. And
12 this is more of an exercise in how the company makes its
13 decision, rather than these specific costs. I have one
14 more question on this particular item here.

15 CHAIRMAN BRISE: Go right ahead, Mr. Rehwinkel.

16 MR. WALLS: We have no objection to Mr. Rehwinkel's
17 line of questions.

18 BY MR. REHWINKEL:

19 Q Mr. Franke, is it possible that these items in --
20 these dollars in item B can be avoided in entirety or --

21 A Yes, just --

22 Q I'm just saying, if you don't complete the
23 project, could these be avoided entirely?

24 A Yes, sir. In fact, the specific line item you're
25 on now, line bravo, there's approximately a \$10 million

1 expense associated with construction activities, that, for
2 example, right now is shown in this particular schedule is in
3 2013.

4 We are in the process right now, under the
5 policies we described, of evaluating would this be
6 implemented in 2013. While that decision has not been made,
7 it is likely this particular construction activity would be
8 delayed so that money would not be expended in 2013 under the
9 policies we've described. And should the project be
10 cancelled, there would be no charge ever -- you know, no
11 invoice ever received, no cost experienced, and this
12 particular cost of 10 million would be vastly reduced.

13 There would be some very minor costs associated
14 with some materials that may have already been manufactured
15 for this activity, but it would be small in nature to the
16 total price.

17 Q Okay, thank you. And let's -- I would like to ask
18 you about one further contract, and this would be item D, as
19 in David. And I ask you to go to the last page, the 2012
20 AE-7.

21 A Yes, sir.

22 Q You see an amount in column G, and then if you go
23 back to the prior page for 2013, there's a column G amount.
24 These are numbers that are materially different. I think
25 I've deposed you ad nauseam about this particular item that's

1 the subject of this contract here.

2 A Yes, sir, we spent a lot of time on this one last
3 year.

4 Q Are these costs avoidable in entirety, or are you
5 legally encumbered on these?

6 A These particular costs, the vast majority we're
7 encumbered upon. This particular contract required
8 manufacture of components that had to be tested in order to
9 achieve our licensed application and those components are all
10 but manufactured, going into testing now, so most of this
11 money we are encumbered to expend.

12 Q Okay. So these are just -- the examples I've gone
13 through are different types of analyses that you're going
14 through. Some of them are time and materials, you can avoid
15 them entirely. Some are maybe more hard assets that you may
16 be able to defer or avoid entirely some of those costs. And
17 then some of them, you've bought them?

18 A Yes, sir. And I would say, also, some of the ones
19 we've bought, there may be some salvage value to receive the
20 components and then dealing with them on the back end, should
21 the project ever be cancelled.

22 Q Now, if you have a salvage value on an item,
23 especially a hard asset, that would ultimately be trued up at
24 some point down the road?

25 A That's my understanding, yes, sir.

1 Q Okay. The last line of inquiry, if I could,
2 Mr. Chairman, is in your Exhibit JF-7. This is in your Level
3 II Schedule. This document is all public record, correct?

4 A I'm trying to find my JF-7.

5 Q Oh, I'm sorry. It's part of your rebuttal
6 testimony.

7 A There we go. Yes, sir.

8 Q Okay, this is all public, even though it's a nice
9 color document, it's public, right?

10 A Yes, sir.

11 Q Okay. As I understand this, if I look in the far
12 left-hand side of this document, if I see something that's in
13 black and I look at the key, it's something that's in
14 progress, is that right, at the time that this schedule was
15 attached to your testimony?

16 A That would be correct.

17 Q Like if I go to the second page, you have an
18 engineering project related to overall margin, and that's
19 kind of a licensing basis sort of analysis you have to do,
20 right?

21 A Yes. So if you have a color copy, the black --
22 the transition from black to blue on these lines represent
23 the date the report was made. So to the left represents work
24 accomplished on this project. To the right in the blue lines
25 would represent the work on the schedule that has not been

1 achieved on this particular line item.

2 Q Okay. So if we see stuff on the right that's in
3 the light blue, what does hammock mean in the context of this
4 document?

5 A Hammock is a scheduling term which means a group
6 of work that has a common -- a common purpose. For example,
7 in this case, the example you just gave, there's an
8 engineering hammock, which means -- a scheduler calls it a
9 hammock. It's a -- there's a lot of little bitty activities
10 underneath that hammock, so they all are inside that same
11 window of start and this hammock just represents the timeline
12 to complete the engineering work.

13 Q Okay. So most of the things -- like if I look at
14 this item on the second page of this exhibit, which is page 2
15 of 14, you've got that one, and if I turn to page 4 of 14,
16 the hammock down there at the bottom for the low pressure
17 injection cross tie --

18 A Yes, sir.

19 Q -- work order planning process, that's an
20 engineering process that's been underway for a while.

21 A In this case, it's actually turning that
22 engineering product into work constructions.

23 Q Okay. So you're basically taking engineering and
24 putting it into your WBS or your work schedule so it can be
25 done when the time comes for that?

1 A Yes, it's turning the engineering design into
2 actual instructions on how to do the welding, what to bolt
3 up where. It's the package that a craftsman would use to
4 install the component, as opposed to the engineering work
5 that supports that instruction.

6 Q Okay. And then if we go to page seven, you've got
7 a black for item in progress related to the makeup tank
8 bypass line?

9 A Yes, sir.

10 Q And then the next page, inadequate core cooling,
11 this is one of the instrumentation items that was part of the
12 scope change from the beginning of the project?

13 A That is correct.

14 Q Okay. And then the next page, your low pressure
15 turbine monitoring system, this is -- again, are you putting
16 the engineering into work order?

17 A Yes, this is work order planning for that
18 particular engineering work.

19 Q Okay. And there's an item down here, fiber optics
20 work order planning process.

21 A I see the pipe vibration monitoring.

22 Q Yes. Okay.

23 A Yes.

24 Q So am I correct, if I look at this Level II
25 Schedule, a lot of the work, the engineering work, has been

1 done, you're kind of waiting to actually install a lot of
2 this equipment, the equipment has been ordered, a lot of the
3 costs have already been incurred, and what will be remaining
4 will be either some final equipment costs and some final
5 engineering and then the construction contract costs. Is
6 that essentially what's left to be done?

7 A Yes, sir, for most projects the engineering is
8 well along, almost complete. In many of the projects we're
9 turning that engineering work into work instructions. It's a
10 necessary step in the process, not the major cost component
11 of the process. But to your point, it's the construction
12 activities where most of the remaining dollars would be
13 expended and they have yet to be started.

14 MR. REHWINKEL: Okay, thank you, Mr. Franke.

15 Mr. Chairman, those are all the questions I have. Thank
16 you.

17 CHAIRMAN BRISE: Thank you. Mr. Brew?

18 MR. BREW: Thank you, Mr. Chairman.

19 CROSS EXAMINATION

20 BY MR. BREW:

21 Q Good afternoon, Mr. Franke. Could I refer you to
22 the Exhibit 127 that Mr. Rehwinkel just showed you, the last
23 page, the AE-7.

24 A Yes, sir.

25 Q If you can actually read column G, you've got

1 better eyes than mine.

2 A I'm using my cheating glasses.

3 Q I just wanted to spend a brief time going through
4 my understanding of the 2011 events, if I may.

5 A Certainly.

6 Q Now, according to your testimony you've been in
7 your current position since April of 2009?

8 A That is correct.

9 Q And you filed testimony last year relating to the
10 Crystal River unit items, including the uprate?

11 A That's correct.

12 Q Okay. And you also have responsibility relating
13 to the containment repair?

14 A I'm site vice-president for the plant. The repair
15 project going forward is not being accomplished underneath
16 me, but obviously I'm informed of those -- of that project.

17 Q Fine. So you're aware of what's going on with
18 that and you have been all along?

19 A Yes, sir.

20 Q Okay. So in January of 2011 the company was
21 attempting to complete the repair from the 2009 delamination?

22 A Correct.

23 Q And you were planning to do the phase three of the
24 uprate and refueling 17?

25 A That's correct.

1 Q Okay. And then in March 14 we had the later
2 delamination.

3 A That's correct.

4 Q And then you said shortly after that the company
5 made a decision to go forward with the EPU sufficiently to
6 preserve the option of doing it during the current extended
7 outage?

8 A Yes. You may remember there was a time frame
9 between March and June where we did our first review of
10 should the company proceed with the intent to repair the
11 building or not, or should we proceed with our retirement at
12 that time.

13 We studied a number of options, both what
14 retirement would look like as well as various ways to conduct
15 a repair. And in June of 2011 we moved forward with the
16 intent that remains today to repair Crystal River 3. And so
17 our decision relative to EPU was informed of that intent to
18 repair the unit.

19 Q That's actually the time frame I wanted to spend a
20 little bit of time on. So we had the delamination in mid
21 March?

22 A Yes, sir.

23 Q And sometime, I believe, the company gave the
24 Commission a briefing in mid June to describe the status of
25 the CR3 repair, something thereabouts. And during that time

1 frame the company made a parallel decision to move forward
2 with the EPU sufficient to preserve the option of going
3 forward in this outage?

4 A Yes, sir. I would say that we looked at what we
5 needed to do in the interim and we did not want to do
6 anything that would challenge the ability to execute the
7 extended power uprate, and then we validated that after the
8 June decision as the right strategy going forward.

9 Q But in the meantime, in May, you filed testimony
10 regarding the 2011 actual and estimateds and the feasibility
11 of the EPU project, right?

12 A Yes, sir.

13 Q Okay. And claiming that moving forward with the
14 EPU was still feasible and economic?

15 A That's correct.

16 Q And then in June the company -- during this time
17 frame the company had brought in other vendors to examine
18 potential repair options and possibilities, is that right?
19 You assembled a variety of options for potential repair?

20 A That's right. We contracted with a specific
21 engineering firm to help us with reviewing potential repair
22 options for the building in late March and they worked with
23 us until June.

24 Q Until June. So that work was underway in May when
25 you filed your 2011 actual estimated and feasibility

1 estimates?

2 A That's correct.

3 Q And then in mid June you moved forward and filed
4 your LAR request with the NRC?

5 A That's correct.

6 Q Okay. And about that same time is when you
7 revealed the repair options that you were considering for the
8 containment structure?

9 A Yes, sir.

10 Q Okay. So at the time that you made those filings
11 last year to go forward with EPU, was that with full
12 knowledge that there may be a risk that the unit would not be
13 repaired?

14 A Yes. I mean, that risk was known.

15 Q Okay. And the filing of the LAR request kicked
16 off the NRC's process that you described earlier in terms of
17 their questions and submittals regarding that application, is
18 that right?

19 A Yes and no. Their process requires a review of
20 the licensed application for acceptability, so they do a
21 review of the application before they go into their formal
22 review process just to say that the application is acceptable
23 for review. And they actually spent several months doing
24 that.

25 Q So -- but the June filing kicked that process off,

1 which led to them making a determination in November to
2 accept the filing?

3 A That's correct.

4 Q Okay. And then the process continued from there
5 in terms of additional questions that you have pending today?

6 A Yes, sir.

7 Q Okay. Do you know, has Duke decided today, if you
8 know, whether or not the containment repair is technically
9 feasible?

10 A We are working through that decision now. We
11 certainly know that it is possible to repair the building but
12 we're looking at the repair options and other scopes relative
13 to a repair to understand -- to answer your question,
14 relative to its technical feasibility and the risks
15 associated with a specific method of repairing the building.

16 Q Okay. So my question was, has Duke determined
17 whether it is technically feasible to do the containment
18 repair?

19 A The best answer to that is there's nothing that is
20 impossible. The question is what's the right scope of work
21 and what is the right option to use as the repair scenario to
22 evaluate its technical feasibility and the risks associated
23 with that work.

24 Q Okay. So is the answer to my question not yet,
25 they have not made a final determination yet?

1 A I would say we're currently in the process of
2 reviewing all technical aspects of a repair, including
3 feasibility of the chosen repair method, the associated risks
4 associated with various repair methods, in order to come to a
5 best understanding of which repair would be used to compare
6 against a retirement scenario for a decision to be made by
7 the Board of Directors later.

8 Q And so the next step of my question would be in
9 terms of economic feasibility, as part of that -- the Duke
10 Board is still looking at whether it's economic to do the
11 repair as part of that analysis of your chosen options and
12 the risks associated with it?

13 A And that's why it's challenging to answer your
14 question. You know, can it technically be repaired, yes, but
15 part of that feasibility would be economic and other
16 qualitative and quantitative factors that have to be weighed
17 in. We're in the process of working through those full
18 understandings now, and that information would be provided to
19 our Board of Directors and they'll make a determination on
20 the final decision to repair.

21 Q Okay. And that final decision has not been made
22 as of today?

23 A That's correct.

24 Q Does the tentative repair plan still assume
25 roughly 35 months to accomplish?

1 A I believe our latest published schedule is 30
2 months.

3 Q Okay, 30 months. So that hasn't changed?

4 A Not yet, sir, no.

5 Q If it does change, would that affect the timetable
6 for doing the EPU?

7 A Yes, sir.

8 MR. BREW: It would? That's all I have. Thank
9 you.

10 CHAIRMAN BRISE: Thank you. FEA?

11 LT. COL. FIKE: No questions, Mr. Chairman.

12 CHAIRMAN BRISE: All right. SACE?

13 MR. WHITLOCK: I just have one quick question,
14 Mr. Chairman.

15 CHAIRMAN BRISE: Sure.

16 CROSS EXAMINATION

17 BY MR. WHITLOCK:

18 Q Good afternoon, Mr. Franke.

19 A Good afternoon.

20 Q Evening, I guess. Exhibit 127, these contracts,
21 do you have any knowledge as to whether any of these
22 contracts have force majeure provisions, acts of God
23 provisions in them?

24 A You know, I don't know the details, but it would
25 be standard to have some force majeure provisions in them,

1 yes.

2 Q Okay. In all -- most, if not all of the
3 contracts?

4 A Yes.

5 MR. WHITLOCK: Okay, thank you.

6 CHAIRMAN BRISE: Mr. Wright?

7 MR. WRIGHT: No questions, Mr. Chairman. Thank
8 you.

9 CHAIRMAN BRISE: Okay. Staff?

10 MR. LAWSON: No questions.

11 CHAIRMAN BRISE: Commissioners? Okay, redirect.

12 MR. WALLS: Yes, briefly.

13 REDIRECT EXAMINATION

14 BY MR. WALLS:

15 Q Mr. Franke, you may recall Mr. Moyle asked you
16 several questions on whether the company has decided to
17 repair CR3. Do you recall that?

18 A Yes, sir.

19 Q Does the company have the present intent to repair
20 the unit and put the uprate into service?

21 A Yes, our present intent is to repair the unit and
22 place the uprate in service.

23 Q Is it possible that despite this present intent
24 the company may ultimately choose not to repair the plant?

25 A Yes, it is possible that we would come to a

1 decision that we would not repair the plant.

2 Q And the company has not and still must make that
3 final decision?

4 A That's correct.

5 MR. WALLS: No further questions.

6 CHAIRMAN BRISE: All right, let's deal with
7 exhibits.

8 MR. WALLS: Yes, we would move into evidence
9 witness Exhibits JF-1 through JF-5 for his direct
10 testimony, which are Exhibits 17 through 21 of the
11 comprehensive exhibit list.

12 CHAIRMAN BRISE: Okay, 17 through 21.

13 MR. WALLS: And then Exhibits JF-6 and 7, which are
14 Exhibits 31 and 32 in the comprehensive Staff exhibit
15 list.

16 CHAIRMAN BRISE: Okay. If there are no objections,
17 we will move Exhibits 17 through 21 and Exhibits 31 and
18 32 into the record at this time.

19 (Exhibits 17 through 21 and 31 and 32 admitted in
20 evidence.)

21 MR. REHWINKEL: Public Counsel moves Exhibit 127.

22 CHAIRMAN BRISE: Okay, we will move Exhibit 127
23 into the record at this time, seeing no objections.

24 (Exhibit 127 admitted in evidence.)

25 MR. WALLS: I believe that concludes our case.

1 CHAIRMAN BRISE: All right. So that concludes
2 Progress's case. Mr. Franke, you are excused.

3 MR. REHWINKEL: Mr. Chairman, the exhibit that I
4 passed out, the Commissioners' copies and the Staff
5 copies need to be collected and returned. Thank you.
6 The witness can keep his.

7 CHAIRMAN BRISE: All right, thank you, Progress.
8 Now I think we move into OPC?

9 MR. REHWINKEL: Yes. Mr. Chairman, pursuant to
10 agreement with the parties, Public Counsel would ask
11 that the testimony of Dr. William Jacobs and the
12 associated Exhibits 22 through 24 on the Staff's list be
13 moved into the record.

14 CHAIRMAN BRISE: Okay, we will move the testimony
15 of Dr. Jacobs into the record and the Exhibits 22
16 through 24, seeing no objections. Okay, seeing no
17 objections, we will move those in the record.
18 (Exhibits 22, 23 and 24 admitted in evidence.)
19 (Whereupon, the direct testimony was inserted.)
20
21
22
23
24
25

1 Evaluation Program, performed operating plant evaluations and assisted in the
2 development of the Outage Management Evaluation Program. Since joining GDS
3 Associates, Inc. in 1986, I have participated in rate case and litigation support
4 activities related to power plant construction, operation and decommissioning. I have
5 evaluated nuclear power plant outages at numerous nuclear plants throughout the
6 United States. I was on the management committee of Plum Point Unit 1, a 650
7 MWe coal fired power plant in operation near Osceola, Arkansas. As a member of
8 the management committee, I assisted in providing oversight of the Engineering,
9 Procurement and Construction ("EPC") contractor for this project. I am currently the
10 Georgia Public Service Commission's (GPSC) Independent Construction Monitor for
11 Georgia Power Vogtle 3 and 4 nuclear project. As the Independent Construction
12 Monitor, I assist the GPSC Commissioners and Staff in providing regulatory
13 oversight of the project. My monitoring activities include regular meetings with
14 project management personnel and regular visits to the Vogtle plant site to monitor
15 construction activities and assess the project schedule and budget. My resume is
16 included as Exhibit WRJ(PEF)-1.

17

18 **Q. WERE YOU ASSISTED BY OTHER GDS PERSONNEL IN THIS EFFORT?**

19 A. Yes I was. The GDS team involved in the review and evaluation of the requests for
20 authorization to recover costs consisted of me and Mr. James P. McGaughy, Jr., a
21 former nuclear utility executive with over 37 years of experience. The resume of Mr.
22 McGaughy is attached to this testimony as Exhibit WRJ(PEF)-2. I have reviewed the
23 work of Mr. McGaughy and am familiar with his input and have incorporated and
24 adopted it as my own.

1 **Q. WHAT IS THE NATURE OF YOUR BUSINESS?**

2 A. GDS Associates, Inc. ("GDS") is an engineering and consulting firm with offices in
3 Marietta, Georgia; Austin, Texas; Corpus Christi, Texas; Manchester, New
4 Hampshire; Madison, Wisconsin; and Auburn, Alabama. GDS provides a variety of
5 services to the electric utility industry including power supply planning, generation
6 support services, rates and regulatory consulting, financial analysis, load forecasting
7 and statistical services. Generation support services provided by GDS include fossil
8 and nuclear plant monitoring, plant ownership feasibility studies, plant management
9 audits, production cost modeling and expert testimony on matters relating to plant
10 management, construction, licensing and performance issues in technical litigation
11 and regulatory proceedings.

12

13 **Q. WHOM ARE YOU REPRESENTING IN THIS PROCEEDING?**

14 A. I am representing the Florida Office of Public Counsel ("OPC") who represents the
15 ratepayers of Progress Energy Florida ("PEF" or "Company").

16

17 **Q. WHAT WAS YOUR ASSIGNMENT IN THIS PROCEEDING?**

18 A. I was asked to assist the OPC to conduct a review and evaluation of requests by PEF
19 for authority to collect historical and projected costs associated with the Extended
20 Power Uprate ("EPU") project being pursued at Crystal River Unit 3 ("CR3") through
21 the capacity cost recovery clause.

1 Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THIS COMMISSION?

2 A. Yes. I testified on behalf of the OPC in the previous Nuclear Cost Recovery Clause
3 (“NCRC”) proceedings in Docket Nos. 080009-EI, 090009-EI, 100009-EI and
4 110009-EI.

5

6 Q. PLEASE SUMMARIZE PEF’S REQUEST FOR COST RECOVERY FOR
7 THE CR3 EPU PROJECT IN THIS DOCKET UNDER THE NUCLEAR COST
8 RECOVERY CLAUSE.

9 A. The total estimated revenue requirements for the CR3 EPU project are \$17.8 million
10 for 2012 with projected total revenue requirements of \$37.3 million in 2013.

11

12 II. METHODOLOGY

13 Q. PLEASE DESCRIBE THE METHODOLOGY THAT YOU USED TO
14 REVIEW AND EVALUATE THE REQUESTS FOR AUTHORIZATION TO
15 COLLECT COSTS SUBMITTED BY PEF UNDER THE NUCLEAR COST
16 RECOVERY CLAUSE.

17 A. I first reviewed the Company’s filings in this docket and assisted in the issuance of
18 interrogatories and requests for production of documents. To evaluate the issues
19 related to project schedule and cost, I reviewed internal documents, status reports and
20 correspondence with regulatory authorities. I reviewed responses to discovery
21 requests and issued additional discovery requests as needed.

22

23 Q. WERE YOU ASKED BY THE OPC TO MAKE ANY ASSESMENT OF, OR
24 PROVIDE ANY JUDGEMENT ABOUT, THE ADEQUACY OF PEF’S
25 PROJECT MANAGEMENT AND COST CONTROLS?

1 A. No. Due to the circumstances of this docket this year, I was not asked to focus my
2 efforts in that area. So I offer no opinions as to the adequacy of these efforts.
3 However, the absence of any testimony on my part concerning the adequacy of PEF's
4 project management and cost controls should not be construed as evidence supporting
5 a finding that PEF's project management and cost controls were adequate.

6

7 **III. SUMMARY OF RECOMMENDATIONS**

8 **Q. PLEASE SUMMARIZE YOUR RECOMMENDATIONS REGARDING THE**
9 **CRYSTAL RIVER 3 EPU PROJECT?**

10 A. The Commission should ensure that PEF minimize all expenditures related to the
11 CR3 EPU project. I recommend that the avoidable or deferrable remaining EPU
12 construction work not be contracted for or performed until late in the containment
13 repair process when the success of the repair and NRC acceptance of that repair is
14 assured. In addition, the Commission should require that PEF provides timely
15 updates on the status of the containment repair decision and update its EPU project
16 plan, even if it requires supplemental testimony.

17

18 **IV. THE CRYSTAL RIVER 3 EPU PROJECT**

19 **Q. PLEASE PROVIDE A BRIEF UPDATE OF THE STATUS OF THE CR3 EPU**
20 **PROJECT.**

21 A. The scope of the CR3 EPU project remains as I have described in my prior testimony.
22 However, the schedule has been severely impacted primarily by the damaged CR3
23 containment building. The EPU project that was planned for completion in 2011 will
24 not likely be ready to provide energy to customers until 2015 at the earliest.

1 If the project is completed and the License Amendment Request (“LAR”) is
2 approved, it will increase the output of CR3 by 180 MWe by increasing reactor power
3 and thereby increasing steam output. Additional output is provided by increasing the
4 size and efficiency of the plants turbine-generator and by increasing the accuracy of
5 plant instrumentation. The project was originally conceived to be carried out in three
6 phases. Phase 1, completed in 2007, improved the accuracy of plant measurements of
7 plant parameters and allowed output to be increased about 12 MWe. Phase 2 was
8 scheduled to be completed in 2009 and Phase 3 in 2011. Phase 2 consisted of
9 replacing the turbine-generator and other non-nuclear portions of the plant. As
10 originally planned, this would have increased plant output by 28 MWe immediately,
11 and allowed for the increased steam flow to be provided by Phase 3. Two highly
12 significant events occurred in 2009 that prevented Phase 2 from being completed
13 according to schedule.

- 14 1. The new turbines failed testing in Germany and had to be modified.
- 15 2. The reactor containment building suffered a delamination in October 2009
16 while PEF was cutting a hole in the building to facilitate removing and
17 replacing steam generators. Since that time, PEF’s primary efforts have been
18 to repair the damaged containment building.

19 As a result of the delamination, there is continued uncertainty surrounding when
20 Phases 2 and 3 of the EPU project will be completed. Progress Energy CEO William
21 Johnson has stated that the Company has yet to make a final decision whether to
22 attempt another repair of the building. The Company has publically stated that it will
23 take approximately 30 months to effectuate a repair based on current information.
24 Since commencement of containment building repairs will likely not begin any earlier
25 than the latter part of this year, if at all, based on publically known information and

1 my judgment, the remaining two phases of the EPU project will likely not be placed
2 in service until 2015 at the earliest – if they can be and are implemented during the
3 current extended outage.

4 When the project was initially proposed to the Commission in 2006, according
5 to the testimony of PEF Witness Javier Portuondo in Docket Nos. 060642-EI and
6 070052-EI, the total cost of the EPU project at-the-plant-site was estimated to be less
7 than \$300 million, not including transmission. The Company at the time included
8 \$89 million in transmission costs in the original EPU project cost estimate. As
9 shown in TOR-7, sponsored by PEF Witness Daniel Roderick in Docket No. 080009-
10 EI, Progress performed a transmission study and determined that the transmission
11 costs initially included were no longer necessary for the EPU project. Since 2006,
12 Generation Plant costs increased from approximately \$250 million to over \$489
13 million, and the NCRC-recoverable Total Uprate Project Cost (without transmission)
14 increased from \$293 million to over \$556 million. See Table 1 in Exhibit ____
15 (WRJ(PEF)-3) entitled CR3 EPU Cost Estimates 2006-2012. Table I was created
16 from publically available documents in Docket Nos. 060642-EI, and 070052-EI, and
17 the Company's TOR-7 (True-up to original, Schedule 7) filed in Docket Nos.
18 080009-EI, 090009-EI, 100009-EI, 110009-EI, and 120009-EI. As one can see in
19 Table 1, most of the significant EPU project cost increases have taken place since
20 2010.

21 As shown in Exhibit TGF-6, Schedule TOR-6, from 2006 through 2011,
22 Progress has actually spent over \$318 million on the EPU project, and plans to spend
23 \$51.5 million in 2012 (Actual/Estimated) and another \$110.2 million in 2013
24 (Projected). If Progress spends according to its currently filing, by the end of 2013,
25 Progress will have spent nearly \$480 million on the EPU project, none of which can

1 be used and useful due to the extended outage. To complete the project, according to
2 TOR-6, Progress must spend in 2013 to 2015 another \$186 million.¹ Based on past
3 experience, we can expect further and significant cost increases until the project is
4 completed.

5
6 **Q. MR. FRANKE STATES IN HIS TESTIMONY THAT THE INITIAL COST OF**
7 **THE PROJECT WAS PROJECTED TO BE \$439,300,000. IS THAT**
8 **CORRECT?**

9 A. First of all I do not concur that the “original” cost of the project presented to the
10 Commission was \$439.3 million. When the project was first proposed to the
11 Commission for a need determination in 2006, the estimate was \$382 million and not
12 \$439.3 million. Mr. Franke’s characterization of the initial project estimate is
13 misleading because it includes a 15% “indirect cost” adder which the Company
14 included in the Total Project Cost in 2008 when it initially filed for recovery through
15 the NCRC. According to the TOR-7, filed in Docket No. 080009-EI, the adder was
16 first included in Total Project Cost to make “initial milestones” amount comparable to
17 the “revised milestone” amounts. Therefore, a more accurate starting point for the
18 original total project cost estimate would be \$382 million. In my judgment, an even
19 more accurate starting point for comparing original to current project cost estimate
20 would be to deduct unnecessary transmission cost that the Company removed from
21 the uprate project in early 2008.

22 By the time the Company filed its first request for recovery in the NCRC
23 docket, transmission and its associated costs were no longer part of the overall uprate
24 project according to TOR-7 filed in 2008, and not necessary for the inside-the-plant

¹ \$110.2 million in 2013 + \$64.5 million in 2014 + \$11.3 million in 2015 = \$186 million.

1 project. If the \$102.4 million in transmission cost is deducted from Mr. Frank's
2 \$439.3 million "original" total project cost estimate included in the current filings, the
3 comparable original total project estimate (without transmission) would be \$337
4 million. If the adder is excluded from the 2006 and 2007 costs initially presented to
5 the Commission, then on a truly comparable basis Mr. Franke's "original" total
6 project estimate (less transmission costs) would be \$293 million instead of \$439.3
7 million.

8 For a comparison of estimated uprate costs from 2006 to 2012, please refer to
9 Table 1 of Exhibit ___(WRJ(PEF)-3). This table illustrates how various components
10 of the CR3 EPU Project have increased over time. It includes a category called
11 "Total Uprate Project Cost (without Transmission)" that illustrates how the Total
12 Project Cost has increased from \$239 million in 2006 to over \$556 million in 2012
13 and offers a clear view of the true nature of the project's cost escalation.

14
15 **Q. WHAT ARE YOUR CONCERNS REGARDING THE CR3 EPU PROJECT?**

16 A. My concerns focus upon the significant increases in cost over the original cost
17 estimate experienced by the project to date and the difficulty in achieving regulatory
18 approval by the NRC of the power uprate.

19 The cost increases I described above have largely been caused by increased
20 scope and licensing issues as pointed out by PEF Witness Franke. Mr. Franke states
21 in his April 30, 2012 testimony at line 17 of page 21 that the Company's current
22 estimate "...is accurate between -15 and +20%..." However, the history of this
23 project reveals that Mr. Franke's upper limit of +20% will be more likely. On page
24 23 of his testimony, Mr. Franke admits now that "... the full scope and assessment of

1 the EPU phase work was not known and could not be known earlier..." until the
2 design work was complete.

3 Mr. Franke admits that engineering design work is *now* only 70% complete,
4 the NRC is only six months into what may be a 24-month review of the LAR, and the
5 construction contracts have not been awarded at this time. This means there are still a
6 lot of unknowns out there which can still drive the final cost upwards. It is important
7 to point out that 70% of engineering design work complete does not mean that the
8 project is 70% complete. It does mean that at least 30% of the anticipated scope of
9 the design has not been done. Also to be done is new design, known as "emergent
10 work" and work that will come out of new requirements that inevitably are the result
11 of the NRC's review of the requested license amendment (or NRC permission to
12 operate at increased power). Oftentimes, much of a project's new costs become
13 evident while performing the last 30% of the engineering design work. For example,
14 for FPL's EPU project, which is supposed to complete in less than a year from now,
15 project cost estimates have gone up enormously in the past year alone as the project
16 engineering approached substantial completion.

17 As examples of heretofore unknown EPU project cost drivers, Mr. Franke
18 highlighted a number of expensive project revisions. Project scope and engineering
19 changes that had not been originally contemplated and have now been determined to
20 be necessary include new feedwater heaters, condensate system modifications,
21 ICCMS (instrumentation) and new booster feed pumps. The original estimate
22 obviously did not include enough contingency for Commission understanding and
23 evaluation for reasonableness or prudence.

24 Regarding NRC licensing concerns, I pointed out in my 2010 testimony that
25 the CR3 uprate (originally Phase 3) of 140 MWe for the nuclear reactor itself is by far

1 the largest ever requested to be approved for a U.S. pressurized water reactor (PWR).
2 To be able to operate at this increased reactor power level, an amendment to the
3 operating license is required. PEF had originally planned to file the CR3 EPU LAR
4 in 2009. PEF finally submitted the LAR in June 2011. The NRC, in their acceptance
5 letter (Franke Exhibit JF-1) for the LAR, stated that, while a normal uprate review
6 would take one year, this review will take up to two years. The NRC required an
7 extended review because it is a "...first-of-a-kind application for a Babcock and
8 Wilcox..." plant and because of some new, unreviewed safety systems that are made
9 necessary by this design. The NRC also stated that they may delay their review
10 depending on the schedule of when and if the containment will be repaired. This
11 intense and delayed NRC review can only lead to increased project scope and cost.

12
13 **Q. WHAT DO YOU RECOMMEND REGARDING FUTURE EXPENDITURES**
14 **FOR THE CR3 EPU PROJECT?**

15 A. I recommend that the avoidable or deferrable remaining EPU construction work not
16 be contracted for or performed until late in the containment repair process when the
17 success of the repair and NRC acceptance of that repair is assured. Only absolutely
18 necessary expenditures should be incurred because any expenditures will be wasted if
19 the decision is made to retire CR3 rather than repair the containment building and
20 return the plant to service.

21
22 **Q. HAVE YOU IDENTIFIED ANY PLANNED EXPENDITURES THAT**
23 **SHOULD BE DEFERRED UNTIL THE CONTAINMENT REPAIR**
24 **DECISION HAS BEEN MADE?**

1 A. Yes. There are approximately \$186,000,000 of planned expenditures remaining to
2 complete the EPU project plus the possible additional +20% that Mr. Franke has
3 estimated. These expenditures are for project management, onsite construction
4 facilities, power block engineering and construction, and non-power block
5 engineering and construction. If the EPU project is to continue at all, engineering and
6 licensing work must continue and long-lead equipment items must be procured. The
7 bulk of the remaining money will be spent on construction contracts for turbine-
8 generator replacement, new nuclear safety systems, feedwater heaters, condensate
9 pumps and other equipment. This work can be done during an outage lasting a few
10 months. Since the containment repair will take several years, I recommend that the
11 avoidable or deferrable remaining EPU construction work not be contracted for or
12 performed until late in the containment repair process when the success of the repair
13 and NRC acceptance of that repair is assured. If the Company places the avoidable or
14 deferrable remaining EPU construction work on hold as per my recommendation and
15 the unit is not successfully returned to service or a decision is made to retire the plant,
16 a large portion of the approximately \$186,000,000 of planned expenditures of the
17 customers' money will not be spent. Based on the present uncertainty surrounding
18 the return to service date for CR3 and until the decision to proceed in earnest with the
19 repair is made, there is certainly no need to spend this large sum of money more than
20 two years early.

21

22 **Q. WHAT NOTICE SHOULD THE COMMISSION PROVIDE THE COMPANY**
23 **REGARDING THESE DEFERRED EPU EXPENDITURES YOU ARE**
24 **RECOMMENDING?**

1 A. If the Company decides to incur avoidable or deferrable expenditures on the EPU in
2 the face of the uncertainty surrounding the return of CR3 to service prior to 2015, the
3 Commission should withhold any determination of reasonableness for expending this
4 money in 2012 and 2013, and put the Company on notice that any EPU money spent
5 in 2013 will be held subject to refund until PEF makes an official decision to repair
6 the building and to begin that repair in earnest.

7

8 **Q. DO YOU HAVE ANY ADDITIONAL RECOMMENDATIONS REGARDING**
9 **THE CR3 EPU PROJECT?**

10 A. Yes, I recommend that the Company update the Commission regarding the status of
11 the containment repair plan and schedule in a timely manner and not wait until the
12 required NCRC filing dates. If a decision to repair or retire is made before the 2012
13 NCRC hearing, the Company should file supplemental testimony, notifying the
14 Commission of this decision. If the decision is made after the NCRC hearing but
15 before the Commission votes on the 2013 factor, the Company should make the
16 appropriate filing in this docket to inform the Commission.

17

18 **V. THE LEVY NUCLEAR PROJECT**

19 **Q. DO YOU HAVE ANY COMMENTS REGARDING THE LEVY NUCLEAR**
20 **PROJECT?**

21 A. No, I do not. Due to the settlement involving the Levy Nuclear Project, I have been
22 asked to limit the scope of my review to the CR3 EPU project.

23

24 **Q. DOES THAT CONCLUDE YOUR TESTIMONY?**

25 A. Yes it does.

1 MR. REHWINKEL: Thank you.

2 CHAIRMAN BRISE: Staff?

3 MR. LAWSON: We would ask at this time that the
4 testimony of Jeffrey Small and the associated exhibits
5 numbered for identification as 26 and 27 on the
6 comprehensive exhibit list all be moved into the record
7 at this time.

8 CHAIRMAN BRISE: Okay, the testimony of Jeffrey
9 Small, and you said the Exhibits 26 -- would you repeat
10 the exhibit numbers for me, please?

11 MR. LAWSON: 26 and 27, sir.

12 CHAIRMAN BRISE: 26 and 27. Okay, we will move the
13 testimony of Mr. Jeffrey Small into the record, seeing
14 no objections, as well as Exhibits 26 and 27.

15 (Exhibits 26 and 27 admitted in evidence.)

16 (Whereupon, the direct testimony was inserted.)

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1 **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2 **COMMISSION STAFF**

3 **DIRECT TESTIMONY OF JEFFERY A. SMALL**

4 **DOCKET NO. 120009-EI**

5 **JUNE 19, 2012**

6 **Q. Please state your name and business address.**

7 A. My name is Jeffery A. Small and my business address is 4950 West Kennedy Blvd,
8 Tampa, Florida, 33609.

9 **Q. By whom are you presently employed and in what capacity?**

10 A. I am employed by the Florida Public Service Commission as a Professional
11 Accountant Specialist in the Office of Auditing and Performance Analysis.

12 **Q. How long have you been employed by the Commission?**

13 A. I have been employed by the Florida Public Service Commission (FPSC) since January
14 1994.

15 **Q. Briefly review your educational and professional background.**

16 A. I have a Bachelor of Science degree in Accounting from the University of South
17 Florida. I am also a Certified Public Accountant licensed in the State of Florida and I am a
18 member of the American and Florida Institutes of Certified Public Accountants.

19 **Q. Please describe your current responsibilities.**

20 A. Currently, I am a Professional Accountant Specialist with the responsibilities of
21 planning and directing the most complex investigative audits. Some of my past audits include
22 cross-subsidization issues, anti-competitive behavior, and predatory pricing. I am also
23 responsible for creating audit work programs to meet a specific audit purpose and integrating
24 EDP applications into these programs.

25 **Q. Have you presented expert testimony before this Commission or any other**

1 **regulatory agency?**

2 **A.** Yes. I have provided testimony in the Progress Energy Florida, Inc., (PEF) Nuclear
3 Cost Recovery Clause filings, Docket Nos. 080009-EI, 090009-EI, 100009-EI and 110009-EI.
4 I have also testified in the Southern States Utilities, Inc. rate case, Docket No. 950495-WS, the
5 transfer application of Cypress Lakes Utilities, Inc., Docket No. 971220-WS, and the Utilities,
6 Inc. of Florida rate case, Docket No. 020071-WS.

7 **Q. What is the purpose of your testimony today?**

8 **A.** The purpose of my testimony is to sponsor two staff audit reports of PEF which
9 address the Utility's application for nuclear cost recovery in 2011. The first audit report was
10 issued May 9, 2012, and addressed the pre-construction and construction cost as of December
11 31, 2011, for Levy County Nuclear Units 1 & 2. This audit report is filed with my testimony
12 and is identified as Exhibit JAS-1. The second audit report was issued May 9, 2012, and
13 addressed the 2011 power uprate costs for the Crystal River Unit 3 nuclear power plant. This
14 audit report is filed with my testimony and is identified as Exhibit JAS-2.

15 **Q. Were these audits prepared by you or under your direction?**

16 **A.** Yes, these audits were prepared by me or under my direction.

17 **Q. Please describe the work you performed in these audits.**

18 For the first audit report, to address the pre-construction and construction costs as of
19 December 31, 2011, for Levy County Nuclear Units 1 & 2:

- 20 • We reconciled the Company's filing to its general ledger and verified that the costs
21 incurred were posted to the proper accounts.
- 22 • We reconciled and recalculated a sample of the monthly revenue requirement accruals
23 displayed on Schedule T-1 to the supporting schedules in the Company's 2011 NCRC
24 filing.
- 25 • We reconciled the monthly preconstruction, and construction carrying cost balances

- 1 displayed on Schedules T-2.2, and T-2.3, respectively, to the supporting schedules in the
2 Company's 2011 NCRC filing. We recalculated the schedules and reconciled the
3 Allowance for Funds Used During Construction (AFUDC) rates applied by the Company
4 to the rates approved in Order No. PSC-05-0945-S-EI, in Docket No. 050078-EI, issued
5 September 28, 2005.
- 6 • We reconciled the monthly preconstruction deferred tax carrying cost accruals displayed
7 on Schedule T-3A.2 to the supporting schedules in the Company's 2011 NCRC filing. We
8 recalculated a sample of the monthly carrying cost balances for deferred tax assets based
9 on the equity and debt components established in Order No. PSC-05-0945-S-EI.
 - 10 • We recalculated a sample of the monthly recoverable O&M expenditures displayed on
11 Schedule T-4 of the Company's 2011 NCRC filing. We sampled and verified the O&M
12 cost accruals and traced the invoiced amounts to supporting documentation. We verified a
13 sample of salary expense accruals and recalculated the respective overhead burdens the
14 Company applied.
 - 15 • We recalculated a sample of monthly jurisdictional nuclear construction accruals displayed
16 on Schedules T-6.2, and T-6.3, respectively, of the Company's 2011 NCRC filing. We
17 sampled and verified the generation cost accruals and traced the invoiced amounts to
18 supporting documentation. We verified a sample of salary expense accruals and
19 recalculated a sample of the respective overhead burdens that the Company applied.
- 20 For the second audit report, to address the uprate cost as of December 31, 2011, for Crystal
21 River Unit 3,
- 22 • We reconciled the Company's filing to its general ledger and verified that the costs
23 incurred were posted to the proper accounts.
 - 24 • We reconciled and recalculated a sample of the monthly revenue requirement accruals
25 displayed on Schedule T-1 to the supporting schedules in the Company's 2011 NCRC

1 filing.

- 2 • We reconciled the monthly construction carrying cost balances displayed on Schedule T-
3 2.3 to the supporting schedules in the Company's 2011 NCRC filing. We recalculated the
4 schedule and reconciled the Allowance for Funds Used During Construction (AFUDC)
5 rates applied by the Company to the rates approved in Order No. PSC-05-0945-S-EI.
- 6 • We reconciled the monthly construction deferred tax carrying cost accruals displayed on
7 Schedule T-3A.3 to the supporting schedules in the Company's 2011 NCRC filing. We
8 recalculated a sample of the monthly carrying cost balances for deferred tax assets based
9 on the equity and debt components established in Order No. PSC-05-0945-S-EI.
- 10 • We reconciled and recalculated a sample of the monthly CPI accruals displayed on
11 Schedule T-3B.3 to the supporting schedules in the Company's 2011 NCRC filing. We
12 recalculated the Company's CPI rate and reconciled the component balances to the
13 Company's general ledger.
- 14 • We recalculated a sample of the monthly recoverable O&M expenditures displayed on
15 Schedule T-4 of the Company's 2011 NCRC filing. We sampled and verified the O&M
16 cost expenditures and traced the invoiced amounts to supporting documentation. We
17 verified a sample of salary expense accruals and recalculated the respective overhead
18 burdens the Company applied.
- 19 • We recalculated a sample of monthly jurisdictional nuclear construction accruals displayed
20 on Schedule T-6.3 of the Company's 2011 NCRC filing. We sampled and verified the
21 capital cost expenditures and traced the invoiced amounts to supporting documentation.
22 We verified a sample of salary expense accruals and recalculated the respective overhead
23 burdens that the Company applied.

24 **Q. Were there any audit findings in the audit report, JAS-1, which addresses the**
25 **2011 pre-construction and construction cost for Levy County Nuclear Units 1 & 2.**

1 A. No

2 **Q. Were there any audit findings in the audit report, JAS-2, which addresses the**
3 **2011 power uprate costs for the Crystal River Unit 3 (CR3) nuclear power plant.**

4 A. Yes, Audit Finding No. 1 provides information on legal costs included as recoverable
5 O&M expenditures on Schedule T-4 of the filing that the Company states will be removed by
6 posting a journal adjustment in April 2012 that will reduce next years Schedule T-4 filing by
7 \$12,683 (\$11,716 jurisdictional).

8 **Q. Does this conclude your testimony?**

9 A. Yes, it does.

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1 MR. WALLS: And I believe that's all we have for
2 witnesses for Progress today.

3 CHAIRMAN BRISE: All right. Well, I think we have
4 come to the conclusion of Progress, issues associated
5 with Progress. Are there any other issues that we need
6 to deal with with respect to Progress?

7 MR. WALLS: Mr. Chair, may we be excused from the
8 FPL portion of the proceeding?

9 MR. REHWINKEL: FPL had to sit through theirs.

10 MR. BREW: PCS supports Progress's request.

11 CHAIRMAN BRISE: Yes, Progress, you may be excused.
12 Let me go through some dates for you. Hearing
13 transcripts will be available September 21st, 2012.
14 Briefs, October 1, 2012. Staff recommendation is
15 expected on November 7, 2012, and we will have a special
16 agenda on November 20, 2012.

17 All right, with that, I guess, Progress, you are
18 free to go.

19 It is 4:45. I suppose we'll probably get through
20 the preliminary matters for FPL this evening, and then
21 begin taking witnesses tomorrow morning.

22 All right, we'll take, I guess, five minutes or so
23 to give people an opportunity to switch out and move
24 their belongings and so forth so that we can move right
25 along. Okay, so we will reconvene at 4:50.

1 (Brief recess)

2 CHAIRMAN BRISE: Okay, all right, so this evening
3 what we're going to do, we're going to deal strictly
4 with preliminary matters. We will move into opening
5 statements tomorrow morning, and so forth. So I know
6 that there are some preliminary matters that we have to
7 deal with, so we want to go ahead and deal with those in
8 the next ten minutes or so.

9 MS. BENNETT: If I might, Mr. Chairman and
10 Commissioners, the first item, at the break we handed
11 out an exhibit that I would like to have marked for
12 identification as a partial stipulation for Issue 29.

13 CHAIRMAN BRISE: Sure. That will be 128.
14 (Exhibit 128 marked for identification.)

15 MS. BENNETT: 128, and we'd like to go ahead and
16 move that into the record and then we'd ask for a vote
17 on that partial stipulation.

18 CHAIRMAN BRISE: All right, we will move 128 into
19 the record, seeing no objections. And Commissioners,
20 Commissioner Edgar?

21 (Exhibit 128 admitted in evidence.)

22 COMMISSIONER EDGAR: Mr. Chairman, I move that we
23 approve the proposed stipulation for Issue 29 as
24 reflected in Exhibit 128.

25 CHAIRMAN BRISE: All right, it's been moved. Is

1 there a second?

2 COMMISSIONER BALBIS: I'll second for purposes of
3 discussion. I just have a question or two on it.

4 CHAIRMAN BRISE: Okay, it's been moved and
5 seconded. Discussion? Commissioner Balbis?

6 COMMISSIONER BALBIS: Thank you, Mr. Chairman.
7 I have a question for Staff on this. I believe witness
8 Reed that we did hear from last week dealt with a lot
9 of the issues associated with the stater (phonetic)
10 core work, and I just wanted to make sure that this
11 stipulation -- because the amount that's listed in here,
12 it's listed as confidential --

13 MS. BENNETT: Correct.

14 COMMISSIONER BALBIS: -- so I want to make sure
15 that the negotiation covers the additional cost
16 associated with the outage that audit staff stated in
17 their audit report.

18 MS. BENNETT: The confidential amount is --
19 technical staff did a review of the dollar amounts
20 associated with that, and keep in mind that it goes
21 through the nuclear cost recovery clause instead of
22 the fuel clause. And so because of the dollar amount
23 that -- the confidential dollar amount and the fact that
24 it bears AFUDC and actually lowers customer bills, we
25 believed that it was actually a better benefit for the

1 customers with this renegotiated contract amount.

2 COMMISSIONER BALBIS: Okay, thank you. That's all
3 I have.

4 CHAIRMAN BRISE: All right, thank you. It's been
5 moved and properly seconded. We've had good discussion.
6 Seeing no further discussion, all in favor say aye.

7 (Vote taken)

8 CHAIRMAN BRISE: All right, it's moved, so we have
9 approved this stipulation. Are there other issues that
10 we need to address?

11 MS. BENNETT: Yes, Mr. Chairman. I believe that
12 Winnie Powers was previously excused, but based on the
13 partial stipulation, it is my understanding that now, if
14 there are no other questions from Commissioners, that
15 Staff witnesses Fisher and Rich could also be excused.

16 CHAIRMAN BRISE: Okay, Commissioners, do we have
17 any further questions for witnesses Rich and Fisher?
18 Okay. Okay, no? Okay, seeing that there's no further
19 questions for them, then they can be excused.

20 MS. BENNETT: Thank you. For housekeeping
21 purposes, there are two rebuttal witnesses, Ferrer and
22 Diaz, and their testimony will not be admitted into the
23 record because of this partial stipulation.

24 CHAIRMAN BRISE: Okay, so then I guess we can
25 excuse Ferrer and Diaz from rebuttal testimony.

1 MS. BENNETT: And then one last preliminary matter
2 on Staff's behalf, and that is, we have some
3 interrogatories and production of documents that we
4 would like to be moved into the record. I understand
5 that parties do not have an objection, so we would like
6 Staff Exhibits 104, 105 and 106 moved into the record at
7 this time.

8 CHAIRMAN BRISE: 104, 105, and 106. Okay, we'll
9 move those into the record. Are there any objections?
10 All right, seeing no objections, we will move 104, 105
11 and 106 into the record.

12 (Exhibits 104, 105 and 106 admitted in evidence.)

13 MS. BENNETT: Thank you. And I believe that's all
14 the preliminary matters there are, unless the parties
15 had something.

16 CHAIRMAN BRISE: All right. Mr. Wright?

17 MR. WRIGHT: Thank you, Mr. Chairman, just a
18 question for clarity. Do I understand correctly that
19 the rebuttal testimonies of Mr. Ferrer and Mr. Diaz are
20 being withdrawn? Is that what it means when they're not
21 coming into the record?

22 MS. BENNETT: That's my understanding is that
23 Ferrer and Diaz's rebuttal testimony is going to be
24 withdrawn.

25 MR. ANDERSON: Or put another way, they will not be

1 submitted into the record as though read, so they'll not
2 be part of the record in this proceeding, that's
3 correct.

4 MR. WRIGHT: Thank you.

5 CHAIRMAN BRISE: In essence, they'll be withdrawn.
6 Okay. All right, so with that I think we're done with
7 our preliminary matters for this evening.

8 We expect to begin tomorrow morning at 9:30. Be
9 prepared to go to about 6:00 tomorrow evening. We will
10 take a break for lunch tomorrow at about noon, and you
11 all know about the two hour breaks in between there for
12 our court reporters. With that, we look forward to
13 seeing you tomorrow at 9:30. We stand at recess until
14 tomorrow.

15 (Whereupon, the hearing was recessed at 4:50 p.m. and
16 the transcript continues in sequence in Volume 5.)

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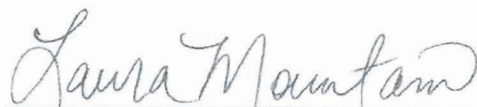
CERTIFICATE OF REPORTER

STATE OF FLORIDA)
COUNTY OF LEON)

I, LAURA MOUNTAIN, Court Reporter, do hereby
certify that I was authorized to and did
Stenographically report the foregoing proceedings;
and that the transcript is a true record of the
aforesaid proceedings.

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

Dated this 18th day of September, 2012.



LAURA MOUNTAIN, RPR
Post Office Box 13461
Tallahassee, Florida 32317