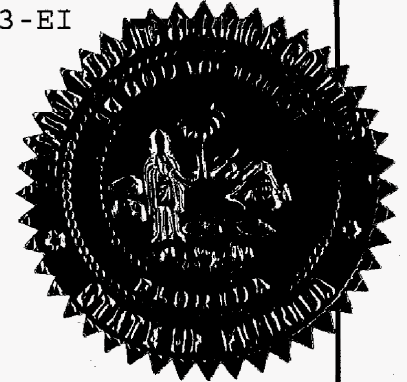


BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 020233-EI

In the Matter of

REVIEW OF GRIDFLORIDA
REGIONAL TRANSMISSION
ORGANIZATION (RTO)
PROPOSAL.



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PROCEEDINGS: WORKSHOP

BEFORE: CHAIRMAN BRAULIO L. BAEZ
COMMISSIONER J. TERRY DEASON
COMMISSIONER RUDOLPH "RUDY" BRADLEY
COMMISSIONER LISA POLAK EDGAR

DATE: Monday, May 23, 2005

TIME: Commenced at 9:30 a.m.
Concluded at 2:50 p.m.

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

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

1 IN ATTENDANCE:

2 JUDAH ROSE, KOJO OFORI-ATTA and CHRISTIAN MCCARTHY,
3 appearing on behalf of ICF.

4 WILLIAM "BUD" MILLER and ROBERT DAVIS, appearing on
5 behalf of Seminole Electric Cooperative.

6 ROBERT C. WILLIAMS, appearing on behalf of Florida
7 Municipal Power Agency.

8 JOSEPH A. REGNERY, appearing on behalf of Calpine.

9 P. G. "BUD" PARA, appearing on behalf of JEA.

10 GARY BRINKWORTH, appearing on behalf of Florida
11 Municipal Group.

12 JOHN W. MCWHIRTER, JR., ESQUIRE, appearing on behalf
13 of Florida Industrial Power Users Group.

14 MIKE NAEVE, appearing on behalf of the GridFlorida
15 Applicants.

16 GREG RAMON, appearing on behalf of Tampa Electric
17 Company.

18 NINA McLAUREN, appearing on behalf of Progress Energy
19 Florida.

20 BOB CROES, appearing on behalf of Florida Power &
21 Light Company.

22 BOB MACHUGA, appearing on behalf of the Federal
23 Energy Regulatory Commission.

24 JENNIFER BRUBAKER, ESQUIRE, appearing on behalf of
25 the Commission Staff.

P R O C E E D I N G S

1
2 CHAIRMAN BAEZ: Good morning. We'll call the
3 workshop to order. Counsel, will you read the notice.

4 MS. BRUBAKER: Pursuant to notice, this time and
5 place has been set aside for the purpose of conducting a
6 workshop in Docket 020233-EI. The purpose of the workshop is
7 set forth more fully in the notice.

8 CHAIRMAN BAEZ: Once again, good morning all. It's,
9 it's interesting to see an almost full room today. I wonder
10 what that's about.

11 As most of you know, we, we organized the workshop or
12 called the workshop in order to try and discuss and hear
13 comments from stakeholders on at least the preliminary draft of
14 the Cost Benefit Study on GridFlorida. We have a fairly
15 lengthy agenda, and I'm going to be turning it over to
16 Roberta Bass in a second.

17 I want to thank you all for coming. My understanding
18 is that, you know, the stakeholder process and the discussion
19 and issues offered have been fairly productive. I hope that
20 that continues. And all of your participation, all of you who
21 are going to be presenting today, we do appreciate that
22 participation and your showing up today.

23 With that, Commissioners, if you, if you don't have
24 any other comments, we can turn it over to Ms. Bass. And, Ms.
25 Bass, you can handle the emcee job for the morning, if you

1 would.

2 MS. BASS: Thank you, Chairman Baez.

3 I, too, would like to welcome everyone and to express
4 my appreciation to all the stakeholders for their participation
5 and their cooperation as we've gone through this very lengthy
6 process. And this isn't the end yet.

7 If you'll note on the agenda, and I did place copies
8 of it on the far side, there is -- I have one change to the
9 agenda. We will be adding after Florida Power & Light a
10 representative from the Florida Energy Regulatory Commission is
11 here -- Federal. I'm stuck in Florida. And he was very quick
12 to remind me it was federal.

13 CHAIRMAN BAEZ: For today they're all ours.

14 (Laughter.)

15 MS. BASS: Thank you. Bob Machuga is going to --
16 will be speaking afterwards.

17 And then under -- at 11:00 when FMPA is scheduled to
18 present, the first speaker -- there's just a change in the
19 order. The first speaker will be Bud Miller, the second
20 speaker will be Bob Davis, and then Bob Williams will speak as
21 the third speaker in place of Cindy Bogarod. Other than that,
22 there aren't any changes.

23 I would like to -- if you notice on the agenda, it is
24 a very, very tight agenda. We put a lot of information into a
25 short period of time. So I would please ask the speakers to be

1 mindful of the time as they are making their presentations. So
2 without anything further, I am going to turn it over to a
3 representative from ICF to start us off.

4 MR. ROSE: Roberta, thank you very much. Good
5 morning. It's a pleasure on behalf of ICF to be back here in
6 Florida.

7 My name is Judah Rose. That's spelled J-U-D-A-H.
8 And I'm here with the project manager of the study, Kojo
9 Ofori-Atta. Also here is Chris McCarthy, who, among other
10 things, led up our cost analysis. I want to acknowledge our
11 division leader Phil Mihlmester is here.

12 As you can see on Page 2 of our presentation, there
13 are six parts to our presentation. We're going to review the
14 objective and the scope, discuss the process. **As you can see,**
15 we've broken out the cost and benefits to a quantitative
16 benefit discussion, a qualitative benefit and cost discussion,
17 an RTO cost discussion, which is quantitative, and then we'll
18 have a summary of our results.

19 I wanted to emphasize that the stakeholder process
20 has been very open. We've been -- we've had the pleasure and
21 the honor to work with some very impressive people here in
22 Florida, they've been very helpful to us, they've been very
23 knowledgeable about the industry and from whom we've learned a
24 lot. So it's been a very positive experience in that respect.

25 As you can see, the objective of our study is to

1 estimate the cost and benefits of a GridFlorida greenfield RTO.
2 And one of the key things that will be throughout our
3 presentation is Day 1 versus Day 2 mode of operations.

4 The Day 1 is the operation mode that's most similar
5 to the current situation in Florida, except that there'll be a
6 single tariff and transmission provider. And, therefore,
7 you'll eliminate a thing, which we'll talk about, called
8 pancaking of transmission rates among other things.

9 The Day 2 is similar to Day 1, except for there's a
10 pool wide market for energy. And I did want to introduce the
11 first number for today, which is that the modeling of that
12 involves something on the order of 20 million electrical energy
13 prices per year, and the study is over a 12-year period. So it
14 gives you a sense of the complexity of some of the analysis of
15 that particular pool wide energy market.

16 When we look at the cost and benefits, we'll always
17 be either explicitly or implicitly comparing them to a base
18 case that's reflective of what's going on today in the industry
19 projected out over more than, more than a dozen years.

20 We have broken out the cost and benefits into three
21 categories. The first here is investment efficiency, which we
22 are going to be describing qualitatively.

23 As the Commissioners are well aware, this is one of
24 the fastest growing states in the country, and there's a lot of
25 investments that will have to be made over the next 12 years.

1 And just so you understand how we're coming at this, the
2 investments are fixed across the scenario. So the discussion
3 will be qualitative, in large part reflect the fact that
4 there's no established industry procedure to figure out how
5 your investments in plants, et cetera, and power plants would
6 change across the scenarios. So we'll be talking about
7 investment efficiency.

8 We'll also be talking about operational efficiency.
9 And everything -- and most of the presentation will actually
10 cover operational efficiency, about which the procedures for
11 analyzing that are more established. And so a lot of what
12 we'll be talking about falls in the category of dispatch or
13 power plant operations. We'll be using terms like unit
14 dispatch and unit commitment, and this is all related to the
15 quantitative assessment of those operations. And we'll also
16 look at the costs of a greenfield RTO under the various
17 different modes. These will be the direct costs that you'd see
18 in sort of a budget for the entity.

19 And then lastly, the stakeholders will be providing
20 estimates of costs and benefits of working with the RTO.

21 And so those are the categories, and I just, I'm sort
22 of priming up the pump of some of the ideas and nomenclature
23 we'll be using. And with that, I'll turn it over to our
24 project manager, Kojo Ofori-Atta.

25 MR. OFORI-ATTA: Thank you, Judah.

1 Good morning. And picking up from where Judah left
2 off, we -- and I'm on Slide Number 4, we examined three cases.
3 We have a base case which is reflective of today's market. Now
4 in this base case the characteristic features are the fact that
5 we have company operation. Each company basically looks at its
6 footprint. What I mean by that is they commit their units to
7 meet their, to serve their load. And we also -- in the base
8 case we have multiple transmission providers working with
9 different, I mean, separate, you know, transmission, open
10 access transmission tariffs, and we have pancaked transmission
11 rates. So these are the three key features of the base case:
12 One, company operation; two, pancaked transmission transactions
13 and, three, some market inefficiency.

14 Now when we migrate from that to a Day 1 case, the
15 features that remain again, company operation, which is also in
16 the base case, but we eliminate the pancaked transmission
17 transactions and we eliminate market inefficiencies associated
18 with transactions. So let me take it again because this is
19 very important; you'll be hearing it as we go through.

20 In the base case we have company operation, we have
21 pancaked transmission charges, and we have market
22 inefficiencies. These market inefficiencies are often
23 associated with transactions. So these are the three features.

24 When we go to Day 1, two of them go away. The
25 pancaked transmission transactions go away and the market

1 inefficiencies, which we associated with, we associated with
2 transactions, also go away. Then in Day 2 we eliminate the
3 company operation.

4 Now in the industry there are standard ways of
5 capturing these inefficiencies. For company operation we tried
6 using commitment hurdles. Then for the other two
7 inefficiencies, that's pancaked transmission transactions and
8 market inefficiencies, collectively, that combined, we are
9 capturing it using what we call dispatch hurdles. So I'll be
10 talking about two types of hurdles: Commitment hurdle and a
11 dispatch hurdle. Commitment hurdle capturing company operation
12 and dispatch hurdle capturing transaction inefficiencies. And
13 you can think about that as comprising two components: One,
14 pancaked transactions and, two, other market inefficiencies
15 associated with transactions.

16 So our three cases are the base case, the Day 1 case
17 and the delayed Day 2 case. Let me explain that. The base
18 case, we are looking at it over 13 years, 2004 through 2016. A
19 Day 1 case is also being looked at over 13 years. In the
20 delayed Day 2 case we have the first three years reflective of
21 a Day 1 scenario, followed by ten years of a Day 2 scenario
22 with pool wide markets.

23 Okay. With that I'll go over to Page Number 5. We
24 also looked at two scenarios, and this is very important.
25 These two scenarios have to deal with how resources, external

1 firm resources are treated in the marketplace. There's some
2 companies in Florida that own external resources in Georgia.
3 Now in their daily operation they commit these units to meet
4 their load. So in one of the scenarios, that's Scenario 2, we
5 allow them to commit these units to meet their load resources
6 in Florida. And in Scenario 1 we disallowed that. So we
7 looked at these two scenarios.

8 Now just fast-forwarding, Scenario 2, where we allow
9 them to commit these units to meet their resources in Florida,
10 which is what they do today, was the one that provided the most
11 benefits. And for brevity I'm trying -- I'm only going to
12 focus on Scenario 2 in my presentation.

13 So summarizing that on Page 6, I show the two
14 scenarios and the three cases that we looked at. And both of
15 these scenarios, results from both of these scenarios was
16 presented to stakeholders on April 27th. And just for the
17 purposes of this presentation we will focus only on what we
18 call the partial commitment and dispatch scenario.

19 This has been a stakeholder process. There has been
20 significant stakeholder involvement and input into everything
21 that we have done, and I'd like to just highlight some of the
22 things we've done over the period.

23 We've had six cost benefit work group meetings
24 covering various issues. The first was just a teleconference
25 and we basically introduced ourselves, defined the project

1 scope and laid down the communication and the data submission,
2 you know, procedures.

3 In the second meeting, it was solely -- the sole
4 purpose of the second meeting held in Tampa was to focus on the
5 modeling assumptions. A lot of assumptions go into deriving
6 these benefits like gas prices, like, you know, must-run,
7 there's something we call, you know, the units that must always
8 run to provide reliability, you know, and related assumptions,
9 environmental assumptions, you know, what environmental
10 allowance prices are we using. We provided this to
11 stakeholders to get their input, we got a lot of good questions
12 from that, and we had to revise some of these assumptions to
13 incorporate stakeholder input. And all the documents that we
14 produced, you know, as part of this process was posted on a
15 stakeholder website so stakeholders can at any time access
16 these documents.

17 The third cost benefit work group meeting was focused
18 on the study approach. We wanted to lay down our, lay out our
19 approach, how we're going to go about modeling details. There
20 were lots of questions, you know, there were lots of inputs
21 from stakeholders. And in some cases we had to reconsider some
22 of the stakeholder, you know, inputs and make, you know,
23 modifications to the study approach.

24 The fourth cost benefit work group meeting was held
25 in October also in Tampa, and we presented our model

1 calibration results. The key aspect of calibration results is
2 it captures the inefficiencies of today's market. So we
3 captured the company operation, and we also captured the
4 market, the transactional inefficiencies. So we made -- we
5 presented these results to stakeholders and it was very
6 detailed. You know, you'll find a binder, Commissioners,
7 you'll find a binder right by you. You know, and in that
8 binder you'll find some of the results that we presented to
9 stakeholders at that particular meeting, and you'll see that as
10 Exhibit 7 in your binder.

11 Also the fourth stakeholder -- the fourth cost
12 benefit work group meeting we walked stakeholders through the
13 kind of RTO structure we were going to model, and we also
14 talked about, you know, what would stakeholders -- talking
15 about the roles -- you know, before you cost, you cost an
16 organization, you want to first understand what are the roles
17 and responsibilities, what are the functions of this
18 organization, what is going to be its roles and
19 responsibilities? So as we go through this presentation, we'll
20 just show you some slides where -- the stakeholders are very
21 familiar with these slides. We show the RTO structure. We
22 also show the roles and responsibilities of the new RTO
23 organization and how it will work with existing control areas
24 today that will morph into what we call control zones. We will
25 talk about that. But we worked with stakeholders through that.

1 Then from that point on we distilled that information
2 into personnel, systems and facility requirements for Day 1 and
3 Day 2 operation.

4 We followed that with a fifth cost benefit work group
5 meeting in December where we presented preliminary RTO cost
6 estimates. It was a conference, teleconference call, and it
7 was heavily -- we got a lot of participation from stakeholders.
8 Our process throughout this exercise is always to release our
9 preliminary estimates, get stakeholder input, give
10 concentration to stakeholder questions and release our final
11 estimate incorporating these stakeholder comments. So at the
12 fifth work group meeting we presented the preliminary cost
13 estimates.

14 And at the sixth meeting what we did was we presented
15 the final RTO cost estimates and at the same time presented
16 what we called a preliminary RTO benefits estimates. And today
17 we are going to be presenting the final RTO benefits estimate
18 and the final RTO cost estimates.

19 I'm going to skip Slide Number 8 and go to
20 Slide Number 9. This study has been a long study and, as you
21 will agree with me, once you have an open process, there's
22 going to be lots of questions, you know. And I think it's,
23 it's been time well spent in my opinion. There are many
24 stakeholders here today who have been involved in other studies
25 and, in my opinion, I think this has been the most open, this

1 has been the most detailed. And there are a few things I would
2 like to talk about.

3 First of all, we modeled ten explicit years. I mean,
4 we explicitly modeled ten years. Most analysis will model
5 maybe just three representative years or will model maybe just
6 about four. You know, there are many other studies that have
7 been carried out. We were asked to look at ten years. So it
8 usually -- what it means is we increased, you know, model run
9 times.

10 Additionally, we modeled marginal transmission
11 losses. And by doing that, basically we are pricing
12 transmission losses on the margin especially in the Day
13 2 market. By doing that, in terms of time it increases your
14 computer run time by a factor of four. So in some sense that
15 is what it meant.

16 During our calibration exercise to pick up the
17 company operation, you know, and market inefficiencies, what we
18 did was we didn't calibrate to just coal resources. You know,
19 there have been studies where they've just calibrated to coal
20 resources. What we did was we said, look, coal resources will
21 dispatch anyway regardless of your condition, especially when
22 you don't have stringent environmental assumptions. So what we
23 did was we put in a little more effort to calibrate to make
24 sure that we're capturing other units, other mid merit units,
25 you know, to make sure that whatever we're doing, we're trying

1 to mimic what was going on in the market today. We calibrated
2 to 2003, and what we did was we made sure that the mid merit
3 units were dispatching at, you know, at or close to their 2003
4 levels. So that also took a little bit of effort, and we
5 thought that it was, again, time well spent, you know, to try
6 to get as accurate as we possibly could get.

7 I talked about two scenarios. Apart from looking at
8 Day 1 and Day 2, we also looked at two scenarios in this
9 process. And there were three explicit stakeholder comment
10 periods. In your, in your, in your binder you will find that.
11 We have responses to every single question. There were
12 detailed questions. You know, typically you were getting about
13 37 questions that you had to respond to. But, again, it was
14 all good.

15 So I'm going to move on to Slide Number 11 where we
16 show the annual benefits for both Day 1 and Day 2. But
17 generally this slide is supposed to show that RTO benefits are
18 largely driven by pool wide markets, you know, which is
19 basically the Day 2 operation where you have, you know, pool
20 wide markets. So you can see from this slide where we show
21 only 2007 to 2016 how the Day 2 benefits compare with Day 1.

22 Remember, Day 1, as Judah introduced it, is similar
23 to a base case, today's market. The difference is that you
24 eliminate pancaked transmission transactions and you have a
25 single transmission tariff and a single transmission provider.

1 So the small -- the short box you see there, the blue
2 are the Day 1 benefits, and the yellow box are the delayed Day
3 2 benefits.

4 So on an NPV basis for the entire period from 2004
5 through 2016 we realize about \$70 million in Day 1 benefits and
6 almost \$1 billion in Day 2 benefits, specifically \$968 million.

7 So moving on to Slide 13, we asked ourselves where
8 are these benefits coming from? You know, which units are
9 providing these benefits? And as you can see from just a
10 sampling of, you know, units in the marketplace, you see that
11 for the most part the benefits are being derived from the mid
12 merit units and the peaking units. And consistent with our
13 belief, coal plants and base load units will dispatch under any
14 market scenario. They will dispatch to their full
15 availability. So we shouldn't be expecting benefits from these
16 units. And, again, if benefits are going to come from units of
17 this kind, it's likely to be under stringent environmental
18 assumptions, you know, where you have maybe a carbon policy and
19 you have other policies.

20 So in our modeling we saw that these units were
21 really not changing their capacity at dispatch. They were
22 dispatching healthily in all the years, almost close to the
23 availabilities.

24 But as you can see over here, the units that were
25 providing benefits were either old combined cycle units or

1 oil/gas/steam units and peaking facilities.

2 Now you can tell from this chart also that the
3 dispatch between the Day 1 and the base case, you know,
4 although there was some difference, it wasn't as large as the
5 displacement between the base case and the delayed Day 2. So
6 this basically explains why the Day 2 benefits were much, much
7 larger than the Day 1 benefits.

8 I'll skip Slide Number 14. It's just another
9 sampling of units that changed their dispatch as we went across
10 the cases.

11 In the introduction Judah mentioned the fact that the
12 three primary sources of benefits are investment efficiency,
13 operational efficiency and also the costs and benefits of
14 stakeholders or market participants working with the RTO.

15 Investment efficiency was something that we treated
16 qualitatively. In performing the quantitative analysis,
17 stakeholders gave us their resource additions going forward.
18 And on Slide 15 what you see is that in Florida stakeholders
19 said that they were planning, by 2007 they were planning to add
20 about 5,800 megawatts of combined cycle capacity and a few
21 cogeneration facilities and very few gas turbine facilities
22 compared to the amount of combined cycle facilities that has
23 been added.

24 Now this is significant. One is if you add in this
25 amount of capacity, then it's likely going to -- if your demand

1 is not growing as fast, you're likely to offset, likely to
2 offset the imports that will be coming in from Georgia; some of
3 the imports, not all of it. But if you look at this chart,
4 you'll see that Southern is not adding as much capacity also.
5 Southern was saying basically by 2007 Southern will be adding
6 about a third of what Florida was going to be adding. But this
7 is what stakeholders gave us that this is what they think they
8 will be adding going forward and that's what we modeled.

9 Over the full period through 2016 basically we added
10 16,000 megawatts of combined cycle capacity, a few megawatts,
11 about 450 megawatts of coal capacity and a few gas turbine
12 facilities. Again, we added more capacity in the Florida area
13 than in Southern.

14 If you look at Slide Number 17, what we tried to
15 capture here was the general load growth that we expect, what
16 we modeled, which is the line graph that you see over there and
17 how it changes every year. Then from 2010 we looked at it on a
18 two-year basis. So this is the incremental load growth in
19 Florida expected from 2005 through 2016.

20 And the bars that you see on this chart is generation
21 from only the new facilities that stakeholders asked us to
22 model. What you can tell from this graph is that the new
23 facilities were generating more than demand growth. So, again,
24 what this means is that you are likely to offset generation
25 from either your peaking units, your existing peaking units in

1 Florida, or you are likely to -- and/or you could offset
2 imports coming from Georgia. And we saw this in our results.

3 If you look at the next slide, it shows you the
4 imports from Georgia as we go through time from 2004 through
5 2016. Now two key points here: Apart from the fact that we
6 added more capacity than demand growth naturally would depress
7 their level of imports, we also were modeling marginal
8 transmission losses and average transmission losses. Now this
9 is a little different from what goes on today.

10 Today many of the utilities have what we call
11 constant losses. Basically they have a loss factor of 3
12 percent and it changes from, you know, utility to utility.
13 What we realized when we were doing this study was that every
14 utility had a different way of treating losses and treating,
15 you know, its transmission tariffs. So we had to come and
16 harmonize some of these things.

17 So what we decided to do, you know, in consultation
18 with stakeholders was we will model average losses, which is a
19 little more punitive compared to what we call constant losses
20 for the Day 1 and the base case scenarios. Then we will model
21 what we call marginal losses for the Day 2 scenarios.

22 So what I mean by all this is that if we, if we
23 actually had a flat constant loss structure, perhaps the
24 imports will not decline as much. It would decline some, but
25 probably not as -- I don't know whether the word is

1 precipitously as we see on this graph. **But the fact that in**
2 measuring benefits we are looking at all this against the base
3 case, I don't think that affects the results by much.

4 With this we asked ourselves -- you know, after you
5 perform such an exercise you ask yourself, how reasonable are
6 these results? What we found was that almost \$1 billion in
7 Day 2 benefits, you know, sounds like reasonable in our
8 opinion. So we decided to take a closer look at the
9 Day 1 benefits, you know. **The Day 1 benefits, we've got about**
10 \$70 million. And we started asking ourselves some of the
11 common sense questions. Why are these benefits reasonable,
12 these Day 1 benefits? So I actually called up a few
13 stakeholders to ask them their opinion, and basically I think
14 we recognize that the majority of these benefits come from unit
15 commitment, company operation. Once we pull apart -- I mean,
16 once we stop company operation and we have pool wide unit
17 commitment and pool wide dispatch, this is where the benefits
18 are really going to come from.

19 And the Day 1 results basically reflect
20 traditional -- I'm sorry. I take that back. First of all,
21 there's very high connectivity, interconnectivity between
22 control areas in Florida. **Almost every control area is**
23 connected to the next control area. So there aren't that many
24 transactions that are wheeled through multiple systems. **So the**
25 effect of pancaked transmission charges is minimal. That is

1 one.

2 Contrast this with a scenario where you would
3 maybe -- if you have pancaked transmission charges in a market
4 like, say, PJM and you are moving power from, say, Chicago to
5 New Jersey, which is one market, then you're likely to cross
6 about six systems. In such a scenario then the impact of
7 pancaking is very, very significant.

8 Regardless, we saw that there's an impact, and we
9 think that the fact that there's so much connectivity right now
10 in today's market makes us believe that we shouldn't be
11 expecting a whole lot.

12 The other point also is that in terms of transaction
13 size it didn't appear, at least those who were paying pancaked
14 transmission rates in any form were dealing with very large
15 transaction sizes. So, again, that also gave us some amount of
16 comfort that what perhaps we were seeing was about right.

17 Then the last and final point was that most
18 transmission service providers in Florida or most of the
19 transmission service provided today in Florida is network
20 service. Many of the market participants pay a network
21 service. There are very few of them that pay point to point.
22 Network service -- you know, and basically most of these
23 utilities are paying the embedded costs of the transmission
24 service through the network service. So, again, the fact that
25 there aren't that many paying point to point underscores the

1 fact that, I mean, our belief that perhaps our Day 1
2 quantitative benefits are reasonable.

3 But we didn't just, you know, take it at that and
4 say, look, this is it. We decided, you know, on our own
5 nickel, on our own cost to try to look at sensitivities around
6 that. Because we, we are independent, we don't want to -- you
7 know, we know the positions of some of the stakeholders, you
8 know, who really want, we really think they want -- RTO is
9 what, you know, Florida should be looking at. So we said,
10 look, let's try and be fair to everybody. Let's try and see
11 whether really these Day 1 benefits, there are any variables
12 that we modeled that are very -- I mean, where the Day
13 1 benefits are sensitive to.

14 So on Slide Number 21 we started performing
15 sensitivities to these commitment and dispatch hurdles. And
16 what we did was -- what you see on this slide is that we told
17 ourselves that, okay, the dispatch hurdles that I talked about,
18 which is basically the transaction inefficiencies, what if we
19 almost doubled these dispatch hurdles? **And basically let me**
20 give you an example by what I mean.

21 In our original case, let's say there was a \$5 hurdle
22 between, say, Progress Energy and Florida Power & Light. Then
23 in this case what we did was we added about \$2 to \$3 saying
24 that, okay, what if we increased this; instead of \$5 we
25 increase it to \$7? And the numbers that you see on this chart

1 are actually in 2003 dollars. So if you look at in nominal
2 terms, you should be adding \$1. So we are talking about
3 increasing it to \$6 and \$8, you know. We don't think it's that
4 high, but, you know, we still performed the sensitivity. And
5 we saw that the Day 1 benefits double. So if we are
6 forecasting in the extreme scenario where these hurdles really
7 exist as much as \$8, then we are seeing that the
8 Day 1 benefits, you know, if we just make the rough, simple
9 approximation, the Day 1 benefits are going to increase from
10 about \$70 million to about \$150 million. So we looked at that.

11 Then we also tried to see whether these
12 Day 1 benefits are sensitive to the commitment hurdle. That's
13 on Slide Number 22. And, again, the commitment hurdle was
14 supposed to capture company operation and, recall, that company
15 operation still exists in Day 1. And if we have a base case
16 with company operation and the Day 1 case with company
17 operation, then we don't think that the benefits are going to
18 be that sensitive. And our results showed that there's a
19 slight -- you know, this graph doesn't do a lot of justice to
20 it. There's a slight, just a slight difference, order of
21 magnitude of about, I believe, about \$100,000 difference. But
22 it was very, very minimal over a 13-year period. So it is
23 largely unaffected basically by the company operation.

24 We also looked at the impact of the commitment
25 hurdle, company operation on the Day 2 benefits. We, in our

1 calibration, said that we needed a hurdle of about \$20 per
2 megawatt hour. But we said, what if we cut that in half? What
3 impact would it have on the Day 2 benefits? The Day 2 benefits
4 declined somewhat, as you can see in this chart, you know. On
5 an annual basis it was declining from, in this case, 2007 from
6 \$113 million to \$106 million.

7 So with that, we satisfied ourselves that we believe
8 that the commitment hurdles and the dispatch hurdles that we
9 derived were reasonable. But, again, we want to be the first
10 also to say -- to show, you know, which factors that drive, you
11 know, these benefits, you know. And if the -- or what factors
12 are sensitive to these Day 1 benefits and Day 2 benefits.

13 So with that, that concludes basically our
14 quantitative RTO benefits estimates and the work that we did
15 there.

16 But benefits don't end only with quantitative aspect.
17 We also looked at the qualitative RTO factors. And we
18 enumerate on Slide Number 25 the various categories of
19 qualitative benefits and costs. And what we did over here was
20 to try to, you know, put them in various categories. Basically
21 under Day 1 we wanted to capture which ones would be a cost and
22 which ones would be benefits. And similarly in Day 2 we
23 captured those ones that we believe will be a benefit and those
24 that will be costs.

25 Investment efficiency we think largely, would largely

1 be a benefit in both Day 1 and Day 2; probably a little more in
2 Day 2 because in Day 2 you have prices. So prices reflect
3 information and, therefore, with prices we think there'll be a
4 little more benefit in investments.

5 Our modeling reflects short-term transactions. We
6 usually don't capture long-term bilateral transactions, you
7 know, on an economic basis. So in some sense we think that if
8 we eliminate pancaked transmission transactions, it may enable
9 market participants to enter into long-term bilateral
10 transactions, which our models don't capture. So it's possible
11 that there could be additional Day 1 benefits, for instance, if
12 we have long-term bilateral transactions. But this is
13 something we are treating qualitatively. And, again, it will
14 also reflect the benefits in Day 2. So we captured that
15 benefit under the Day 1 column and also in the Day 2 column.

16 The next is elimination of contract path scheduling.
17 Some of this we captured in the quantitative analysis. But we
18 also believe that there are some other factors associated with
19 the fact that you have to, you know, schedule based on contract
20 path today. And we captured that also as a benefit in Day
21 1 and also in Day 2.

22 Transition risks, we think there may be transition
23 risks whether we go to a Day 1 or a Day 2, so we tried to
24 capture, you know, the costs associated with transitioning the
25 market to Day 1, you know, under the Day 1 column and also to

1 Day 2. We think it will be slightly more in Day 2 because you
2 have markets and you have all the hedging that has to be, you
3 know, done in markets. So we captured the -- we think it will
4 be a slightly more cost in Day 2 than Day 1. Regardless, you
5 know, in both cases we will still have costs.

6 Market transparency, we think it will be a benefit in
7 Day 1 and also Day 2, but we think it will be more in
8 Day 2 than in Day 1 because Day 2 will have prices.

9 Scope of the RTO, you know, organizational,
10 regulatory issues, we think RTOs may have some, sometimes have
11 additional functionality, you know, after they've been set up.
12 That was the evidence that we saw during this exercise. And we
13 think that there are potential, there could be potential costs
14 associated with that in Day 1 and Day 2 if that one is not
15 checked.

16 There are other factors also. Return on equity,
17 whether it's going to be a cost or a benefit depends on, you
18 know, the entity you're looking at. For transmission owners,
19 ***, if you form an RTO, you've got to have it over ten
20 (phonetic), so maybe it may be a benefit for a transmission
21 owner, but from a ratepayer perspective it probably may not.
22 So it's more of an unknown for us right now.

23 Inter-regional tariffs, market efficiency and
24 standards, you know, introduction of merchant power plants, we
25 think that all these three will be benefits in both Day 1 and

1 Day 2. So these are the qualitative benefits and costs that we
2 have captured so far.

3 With that, we will move over to RTO costing exercise.
4 And when we were asked to perform this study, we looked around
5 at all the previous studies that have been performed and asked
6 ourselves how did these -- were these studies performed on --
7 how did these studies look at RTO costing. And what we found
8 is that a lot of it was a top-down approach, you know.
9 Roughly, you know, some just looked at some of the existing
10 RTOs, you know, start-up costs. Some used some, you know,
11 energy-dollar-per-megawatt-hour estimates, you know. Some just
12 took what transmission owners provided them that what we think
13 is going to be this amount of money, you know, for, to set up
14 an RTO. So there were all kinds of top-down approaches.

15 So what we thought would be beneficial to all
16 stakeholders and to the industry was to try a bottom-up
17 approach where we itemize costs. So, again, this was a case
18 where we tried to work with stakeholders to, you know, go
19 through the procedures, and this is exactly what we did.

20 On Slide Number 28, the very first thing we started
21 with was what structure are we looking at? And you can tell
22 from this that, on Slide Number 29 that -- and stick with this.
23 I'm very familiar with this slide. The existing -- today's
24 control areas, and there are about 11 of them in Florida, will
25 become control zones working under the GridFlorida, the new

1 GridFlorida RTO. And we were asked to look at a greenfield
2 RTO, a wholly new RTO with wholly new facilities, you know, and
3 buildings, et cetera. So we showed stakeholders this chart
4 that this is the structure that we're going to be modeling.

5 So after that, then came the next level: What will
6 be the roles and responsibilities of this new RTO? What
7 responsibilities will be taken up by the control zones and what
8 will be taken up by the new body?

9 So with that, as you see on Slide Number 30, we
10 worked with stakeholders and identify who does what. In fact,
11 those days it was more like the title -- that was the title of
12 the slide, "Who does what between GridFlorida RTO and the
13 control zones?" And what you see here is when we show the
14 letter X, as in x-ray, it meant that that entity had exclusive
15 responsibility. And where we show the letters A and B, A had
16 the primary responsibility, with B providing supporting
17 functions. So we went through this, and you see from the next
18 slide, you know, that we identify each of these functions and
19 who would be doing what.

20 So from this the natural thing that we did was we
21 took this information and stakeholder input on this and went on
22 to the next step to identify personnel requirements, systems
23 requirements and facility requirements for both Day 1 and
24 Day 2.

25 So as you see on Slide Number 35, we identify the

1 personnel requirements, the system's requirements for
2 Day 1 operation, which -- and all this was, you know, discussed
3 as far back as October 2004 at the fourth cost benefit work
4 group meeting. So we identified these systems, then also
5 personnel facilities.

6 And as you can see on Slide Number 37, we showed the
7 physical facility requirements that we will need, you know, for
8 Day 1 and for Day 2. So Day 1, we show the requirements for,
9 the facility requirements for Day 1 and also for Day 2.

10 But one thing that we also did, which I haven't
11 talked about, is the architecture. We created what we call --
12 what would be the architecture of this new body, you know. So
13 if you look on Slide Number 34, you see all the various
14 operational functions that will be performed by this new RTO
15 body, which we call the architecture of the GridFlorida RTO
16 operation. This was, again, identified and delineated by Day
17 1 and Day 2 functions.

18 So after working with this, on Slide Number 38 we
19 identified the number of employees that will be required for
20 Day 1 operation by function. And I'm not enough expert in
21 drawing of structures, but we tried to put what we believed,
22 you know, was a reasonable org structure, you know, multi-level
23 (phonetic) organizational structure for the RTO for a
24 Day 1 organization, and identified under each of these
25 divisions the number of FTEs, full-time equivalents that may be

1 needed. This was shared with stakeholders in October, and it
2 was also provided to stakeholders in December when we released
3 the preliminary cost estimates and we opened it up for
4 comments. And comments were submitted to us in January where
5 there was some cases, you know, some stakeholders said, we
6 think we have, we probably have too many, you know, employees,
7 you know, for this function, and it should be, you know, this
8 much. Or in some cases they called us and they say, we think
9 we have fewer employees for this function and we think it
10 should be more. So on the next slide -- this is for Day 1.
11 And on the next slide, which is Slide 39, you see the number of
12 FTEs for Day 2.

13 So having done this and going through this process,
14 we were now equipped to start putting unit costs to each of
15 these: The systems, the personnel -- I mean, the systems, the
16 personnel and the facility requirements.

17 And with that, I'll turn it over to my colleague
18 Christian McCarthy, who basically did all the work in assigning
19 numbers to each of the line items.

20 MR. MCCARTHY: Thank you. Good morning. What we'll
21 do here for the next probably ten slides or so is walk you
22 through an estimate of, or a summary of the RTO, the proposed
23 GridFlorida RTO start-up and operating costs as we estimated.
24 If you also look -- later on if you want to look at the detail,
25 in Exhibit 9 is the line-by-line, in your binders is the

1 line-by-line cost estimate that backs up these numbers. So
2 there's quite a bit of detail provided there.

3 What we -- the way we approach this section, as Kojo
4 described, we had a long process leading up to actually
5 beginning the line-by-line estimate of the GridFlorida cost.
6 We determined that we would estimate the cost in five broad
7 categories: Three start-up cost categories, so we have our
8 Day 0 cost category, which is the kind of simplest and most
9 straightforward cost category. That will be all of the costs
10 expended to date on, for example, the ICF study and all the
11 things leading up to GridFlorida -- leading up to this point or
12 December, let's see, I believe December 31st of last year, and
13 all of the costs that are expected to be expended over the next
14 couple of years before leading up to the point where the final
15 decision to move forward or not with the GridFlorida RTO is
16 made. So those are our costs to Day 0. So the cost of when
17 the commitment to proceed with the RTO is made.

18 The second category is going to be Day 1 start-up
19 costs. These will be incremental to the Day 0 start-up costs
20 as we treat them, and these will include all of the major
21 system and employees' cost for getting the Day 1 market up and
22 operating. And similarly, we have an incremental set of costs
23 for Day 2, which will be all of the market structure,
24 additional employees, additional office space, et cetera,
25 that's required for operation of the much more complicated

1 Day 2 markets.

2 Similarly, in the operating costs, the two broad
3 categories there are Day 1 operating costs, which we look at
4 for a period, in the Day 1 case, a period of 16 years, I think.
5 And in the Day 2 case we have a ten-year period of -- I'm
6 sorry. We have a ten-year period of Day 2 operating costs.

7 So if you turn to Slide 41, this is the summary of
8 start-up costs that we developed. Overall we looked at a total
9 cost of \$223 million in start-up costs in 2004 dollars. All of
10 the estimates you'll see going forward here are in real 2004
11 dollars for simplicity. We looked at a total cost of
12 \$223 million in start-up costs to get to full Day 2 operation.
13 The largest piece of that is the, getting the organization off
14 the ground to Day 1 operations, \$110 million. And we'll go
15 through on the following slides a little bit what makes that
16 up. \$33 million of that is Day 0 costs, and then the remainder
17 is the Day 2 start-up costs.

18 So if we turn to Slide 42, the pie chart here, like I
19 said, this was the simple cost category, just two numbers
20 making this up. The current costs incurred, the \$19 million,
21 that estimate was provided to us by the applicants and
22 stakeholders, costs expended through the end of 2003; and then
23 a simple estimate of \$14.4 million to get us -- incremental
24 costs to get us to Day 0 from that point.

25 On Slide 43 we have a kind of high-level breakdown of

1 our Day 1 start-up cost estimates. The two largest pieces here
2 obviously are going to be the gray bar or the gray pie, the
3 salary and benefits costs for all of the employees to staff the
4 RTO during the 18-month ramp up period, as well as the
5 \$33.4 million, the blue bar, which is our systems cost. That
6 represents a new EMS system, office equipment, office set-up,
7 et cetera. During -- again, this is just for start-up costs.

8 If we turn to the Day 2 start-up cost estimates on
9 Slide 44, much heavier weighting here towards systems costs in
10 our estimate. So we were able to work with, we were able to
11 work with vendors as well as existing RTOs to estimate what are
12 the costs of getting up and running day-ahead markets,
13 real-time markets, FTR markets, which we've included in the
14 cost estimate, as well as backup control centers and emergency
15 recovery systems for all the markets. So we were able to work
16 with representatives of PJM and the other ISOs to develop
17 these.

18 COMMISSIONER EDGAR: Excuse me. May I? What is
19 corporate inception, the orange?

20 MR. MCCARTHY: The corporate inception, I'd have to
21 look back at my notes to see the exact line items included in
22 there, but those would include legal requirements for getting
23 the company set up. I'm sorry. I can turn to my binder in
24 just a minute. Initial recruiting.

25 So included under what we call corporate inception

1 for the Day 1 start-up costs, we had a total of \$16 million, I
2 believe. Those would include executive staff and board
3 recruiting, recruiting of non-executive staff, relocation
4 expenses, external legal fees, consultant fees, travel and
5 business expenses during inception, as well as audits during
6 the inception phase. And for the Day 2 cost estimate, that
7 would -- it looks like a very similar list, as well as system
8 procurement, contract management for the, for the new systems.
9 And I think -- and the detail there should be included on the
10 second and third or third and fourth sheet in Exhibit 9.

11 COMMISSIONER EDGAR: Thank you.

12 MR. McCARTHY: So once we completed our estimate of
13 the start-up costs, we wanted to turn to the available
14 literature, and the next few slides will show some of the
15 benchmarking work we did in order to understand whether, again,
16 this was a reasonable estimate.

17 The first piece of literature we had that was very
18 well timed with when we were just completing our study was the
19 FERC staff report on RTO costs. And so if you look at
20 Slide 45, we've got some bar charts here representing how we,
21 how our cost estimates compare with those. I think the key
22 sets -- a lot of information here. The key numbers to focus on
23 are going to be the third set of bars, the total cost to Day 1,
24 as well as the fifth set of bars. If we look at the total cost
25 to Day 1, we have in orange our estimate for the GridFlorida

1 start-up cost of about \$144 million. And then the following
2 two numbers are the estimates from the FERC staff report, which
3 are \$38 to \$117 million. That's the low and the high end of
4 the estimates presented there.

5 So the first thing we thought as we turned to look at
6 this was to -- obviously we're slightly higher than the FERC
7 estimates. We wanted to make sure that was reasonable and we
8 understood the difference there.

9 There's three or four factors driving that. The
10 first, obviously, is going to be the far left bar, the
11 Day 0 cost where we -- since this has been a relatively long
12 process and is not complete yet, our costs to Day 0 are
13 slightly higher than estimated in FERC for the RTOs that they
14 had studied.

15 Similarly, our costs to Day 1 are slightly higher.
16 We are modeling, again, a greenfield RTO, which is slightly
17 different than the survey, than those surveyed in the, the FERC
18 staff report. We also do include some additional market
19 functions in Day 1 that are not included in the FERC staff
20 report.

21 So once we were able to examine those specific line
22 items, we felt our estimate was reasonable. And, again,
23 looking to the far right at the Day 2 cost estimates, this gave
24 us further evidence that our estimates were reasonable and that
25 our total cost estimates to Day 2 were within the range, if

1 slightly on the high end, of the FERC staff report estimates.

2 CHAIRMAN BAEZ: Mr. McCarthy, quick question. You
3 mentioned -- you were pointing to the second group of bars, the
4 incremental costs to Day 1.

5 MR. McCARTHY: Yes.

6 CHAIRMAN BAEZ: And you mentioned something about a
7 greenfield. Is that implying that the FERC staff report was
8 not using a greenfield?

9 MR. McCARTHY: The FERC staff report looked at
10 several different RTOs. It was SPP, PJM and, I'm sorry, the
11 third was -- I'm not remembering off the top of my head -- and
12 New England. Each of those had some history of central
13 dispatch and central coordination; whereas, our greenfield RTO
14 is looking at a whole new system and a whole new structure. So
15 that would imply some additional costs.

16 CHAIRMAN BAEZ: Okay. Thank you.

17 MR. McCARTHY: So turning to Slide 46, we have our,
18 again, a pie chart representing the Day 2, I'm sorry, the
19 Day 1 operating costs by category. So we spent some time on
20 our start-up costs. We were able to look at the available
21 literature as well as talk with the stakeholders and applicants
22 and determined that we -- we felt they were reasonable and
23 within the expected range.

24 On the Day 1 operating costs chart here, again, we
25 see the largest category is going to be salary and benefit

1 costs of \$31 million on an annual basis for a representative
2 year, first year of operation here, excuse me, of \$30.9 million
3 for 194 new employees of the RTO.

4 The remaining categories, a significant cat is going
5 to be the \$5.5 million for systems operation, as well as
6 capital and interest expenses on an annual basis for
7 recapitalization of initial investment, as well as ongoing
8 investment needs in the green bar.

9 And on Slide 47 we have a similar chart for our
10 Day 2 operation. Again, any of the Day 2 numbers you see here
11 are going to be incremental to Day 1. So we have incremental
12 operating costs of \$50 million for Day 2 that is on top of the
13 \$61 million we have for Day 1 estimate you saw in the preceding
14 chart. Again, a large portion of the estimates here is
15 representative of salary and benefits cost for the incremental
16 employees needed, I believe it's 160 incremental employees
17 under Day 2 operation, to bring our total to 354, as well as
18 capital and interest expense. So we have to maintain and
19 replace existing capital throughout the life of the RTO.

20 And so, again, once we completed these estimates
21 and -- again, in Exhibit 9 there's a detailed line-by-line
22 estimate for the full 13-year study horizon of each of these.
23 Those are just summary numbers. Once we completed this, we
24 again wanted to analyze and understand whether these cost
25 estimates were reasonable.

1 I'll skip over Slide 48, which presents the kind of
2 price stream, the long-term stream over time of expected costs
3 in real and nominal dollars, and move right to Slide 49.
4 Again, we wanted to understand whether our cost estimates were
5 reasonable. And through talking with the, I believe it was the
6 fifth cost benefit work group meeting and the fourth cost
7 benefit work group meeting we determined to look specifically
8 at ISO New England and the New York ISO for detailed
9 comparisons and understanding whether our cost estimates were
10 reasonable because those are similar sized RTOs, if a little
11 bit smaller. The New York RTO is representing a single state,
12 which is similar to the GridFlorida. We felt those were the
13 best comparisons as opposed to the larger PJM and Midwest ISO
14 or the problematic California ISO. We didn't want to bias our
15 study there.

16 So the first thing we looked at was annual operating
17 costs for the three RTOs. And what we have here in orange on
18 the far left is the estimate for the GridFlorida RTO. This is
19 under Day 2 operation. So it's our first year of Day 2
20 operation, 2007; a cost estimate of \$85 million in operating
21 costs. That compares very well with the 2004 and 2005 for ISO
22 New England, which was slightly below that at \$78 and
23 \$82 million. The New York ISO at \$114 to \$108 were slightly
24 above, so we felt, again, there's more detail provided in some
25 of the further presentation material, but on a category

1 breakdown we felt that our estimates were reasonable. I would
2 just note that on the footnotes here, these exclude the capital
3 expenses, debt service and kind of one-time costs that might
4 have been reflected in any of these estimates, and the sources
5 are provided at the bottom here.

6 If we turn to Slide 50, this is the other kind of
7 benchmarking process we undertook or benchmarking exercise we
8 undertook during this process. As you saw on the preceding pie
9 charts, the largest single cost item in all of the, both the
10 start-up and the operating costs were going to be the salary
11 and benefits cost for the employees, the 354 through
12 Day 2. We wanted to look at the history of RTOs and examine
13 the available literature to understand whether, whether that
14 estimate was reasonable. So you've got quite a bit of
15 information here on Slide 50. You'll see the Day 1 and
16 Day 2 estimates for the GridFlorida presented in the dash
17 lines, and they're well within the range of history of
18 employees at the existing RTOs.

19 We did have quite a few comments on our employee
20 count. That was one of the, actually one of the updates we
21 made to our cost model coming out of the cost benefit work
22 group meeting. The fifth one, I believe, was to reanalyze that
23 and make sure we had a good, a good estimate. We did look at
24 the New York ISO and ISO New England in specific. If you look
25 on Slide 50, you'll notice about towards the middle the 2005

1 estimate for the New York ISO is slightly above our estimate
2 for the GridFlorida, as is, just to the right there, the ISO
3 New England 2005. Those being similar RTOs, we wanted to make
4 sure we understood why there was a difference there and make
5 sure we weren't overestimating the costs or underestimating the
6 costs for operations.

7 And, again, we had to return then to our first step
8 of the RTO cost estimate was to look at the roles and
9 responsibilities of each of the organizations to make sure we
10 were comparing apples to apples. Spent quite a bit of time, we
11 were able to get access to representatives of both ISOs through
12 the help of FERC representatives, and spent quite a bit of time
13 detailing the differences between the two. And what we found
14 was once we trued up the two organizations, we took out, for
15 example, past employees dealing with capacity markets in the
16 northeastern RTOs, which we're not modeling in the GridFlorida
17 RTO, we looked at special situations in the northeast versus
18 what we expect in GridFlorida, as well as line items that we
19 assumed as kind of outsource costs for simplicity's sake in the
20 modeling exercise versus items like market monitoring that are
21 done internally in some of the northeastern RTOs. We found
22 that our cost estimates, our employees estimates compared very
23 well.

24 If you turn to Slide 53, our estimate of 354
25 Day 2 employees for the GridFlorida RTO is right in between the

1 comparative New York and ISO New England adjusted numbers. And
2 the two preceding slides give the detail on how we kind of
3 adjusted those FTE counts in order to build that estimate. So
4 we did spend quite a bit of time benchmarking, looking at
5 existing RTOs, and through help of the FERC, FERC contacts
6 dealing with the existing RTOs to understand the comparison and
7 make sure our estimates are reasonable.

8 Slide 54 is the kind of bottom line of our cost
9 estimate. We're looking at -- the blue portion of the bars are
10 going to be the start-up costs that we saw on the first set of
11 pie charts. The orange piece is the net present value of the
12 operating costs over the study horizon. So in Day 1 that gets
13 you from 2004 to 2016. Day 2, that's the ten-year period we
14 modeled for Day 2. We look at a total of \$775 million for
15 Day 1, \$470 million for Day 2, for a \$1.25 billion estimate for
16 total net present value start-up operating costs for that time
17 horizon.

18 MR. ROSE: Okay. We're at the summary comments and
19 the conclusions. Before I get directly into the numbers, I
20 just wanted to give some perspective on what we've been talking
21 about and what we found. First of all, although we did not
22 look at all issues quantitatively, we certainly looked, I
23 think, at the biggest issues.

24 Over the period of time that we're examining Florida
25 should be paying approximately \$100 to \$130 billion for

1 variable costs, these operational costs. We're looking at a
2 lot of money, \$100 to \$130 billion roughly over the ten,
3 12-year period. And we looked at this with a fine-tooth comb,
4 I would sort of say. And I think Kojo didn't do justice to the
5 level of detail we did and, therefore, I don't think we even
6 had a chance to acknowledge the openness of the industry here
7 in Florida to our looking over their shoulders. When we talk
8 about a 2003 calibration, we're saying we have almost perfect
9 information ex post; let's see how well they did in terms of
10 their operations. That was necessary in order to do these
11 hurdles and then pull away the hurdles to see what would happen
12 if you could do better over time and how much money you would
13 save.

14 And just, just roughly to get a sense of it, the
15 dollars you'll see are large. We've talked about numbers that
16 are large. But the level of efficiency is sort of something on
17 the order of 95 percent plus or maybe even higher, closer to
18 98 percent plus. So as you go around the country, I think
19 there are examples in which maybe the industry's operations
20 don't do as well as Florida does. In this sort of, you know,
21 0 to 100 percent category where maybe there are coal plants
22 that should be operating that are not or merchant combined
23 cycles that are not, we haven't found that level of
24 inefficiency in this area.

25 I think that what we can say is, is that when you do

1 these type of look over your shoulders where you have sort of
2 perfect knowledge, you're never going to achieve perfection,
3 but I think we did see that and we do believe that there is
4 significant money still nonetheless, given the size of the
5 dollars that we're talking about, and to achieve the full
6 efficiencies, whether it's a net beneficial or not that's an
7 issue that's separate. It's -- you do have this issue of
8 whether 11 entities, without all the information that would be
9 available, could achieve all of the benefits. And then I think
10 the issue is weighed against sort of what are the costs of
11 achieving that.

12 So I think that's just to give some perspective again
13 of really what we did. And if nothing else came out of it, I
14 think the Commissioners can feel reassured that while there's
15 room for improvement, it's not like we've uncovered some major,
16 massive gross inefficiencies by way of perspective.

17 So turning to the last slide, we bring together -- as
18 you can see, the orange are the costs. So this is expressed in
19 net present value, so we've discounted all the dollars that
20 Chris was describing on the costs, and both of these for
21 Day 1 and Day 2 are greenfield facilities. **And as Chris**
22 indicated, some of the RTOs that have been created were not
23 greenfield because they had legacy assets that were deployed.

24 And the Day 2 is more expensive, it's about
25 \$1.3 billion, than the Day 1, which is around \$.8 billion, and

1 this is sort of the costs that you have.

2 The benefits that we have for the, that we've
3 estimated are on Day 2 around \$1 billion and in Day 1 about
4 \$71 million. So it's pretty clear that there's a large
5 discrepancy between the costs and the benefits on Day 1. And
6 in Day 2 that discrepancy is less, but still the costs are
7 larger than the benefits as we've estimated them.

8 This, of course, is the quantitative summation of our
9 analysis. It doesn't address some of the qualitative issues,
10 and there are obviously significant benefits. But the costs
11 are significant for the greenfield. And I think as laid out,
12 to the extent that we were looking at within the scope of these
13 issues, I think we did a lot of very detailed work together
14 with getting a lot of information with an industry that no one
15 likes to have them, have themselves looked over the shoulder,
16 but we found people to be very professional and very committed
17 to the process.

18 So with that, we would strongly encourage questions
19 because we actually, I think, beat our time limit by 17
20 minutes, and any questions will be answered as best we can.

21 CHAIRMAN BAEZ: Commissioners, questions?

22 COMMISSIONER DEASON: Mr. Chairman, I have just a
23 few.

24 CHAIRMAN BAEZ: Okay. Commissioner Deason.

25 COMMISSIONER DEASON: I'm looking at Page 25 of the

1 presentation wherein the slide describes qualitative benefits
2 and costs. The second item there is bilateral long-term
3 contracting. I believe you touched upon this in your
4 presentation.

5 I guess the question that I have, first of all, since
6 this is under the category of qualitative, there was no attempt
7 to put any type of, of dollar value associated with this in the
8 analysis; is that correct?

9 MR. OFORI-ATTA: Yes. That's correct.

10 COMMISSIONER DEASON: Okay. Well, how did -- so at
11 the very bottom, at the very last slide where we have the
12 comparison of the total benefits versus total cost, that
13 doesn't reflect any of the qualitative benefits such as
14 bilateral long-term contracting; correct?

15 MR. OFORI-ATTA: That's correct, sir.

16 COMMISSIONER DEASON: That would be the same for
17 investment efficiency as well?

18 MR. OFORI-ATTA: That's correct. All the items on
19 this slide are not reflected in that summary. That summary
20 actually reflects only the quantitative benefits and costs.

21 MR. ROSE: You know --

22 COMMISSIONER DEASON: So this is something this
23 Commission, we should consider, and the stakeholders should
24 consider what value we give to these qualitative benefits and
25 costs?

1 MR. ROSE: Yes. And I think, just by way of
2 perspective, in many cases there's no accepted procedure and
3 that -- as there was for the dispatch and the plant operations
4 to figure out how you would have a base case with
5 inefficiencies going forward, for example, in the case of
6 investment efficiency, or how would you, how would you address
7 the bilateral, so there was no quantitative way. So that does
8 require the decision-makers to give consideration to sort of
9 the qualitative issues, and we're not in any way minimizing the
10 qualitative issues.

11 To give you a sense of some of them, for example, in
12 the case of investment efficiency, on generation alone Florida
13 probably would have to invest over this period of time
14 something on the order of \$10 to \$15 billion, and, and each
15 year is spending something on the order of \$7 to \$10 billion in
16 variable costs. So, as I said, there was 100 to 120, so the
17 investment would be maybe something on the order of 10 percent
18 of the dollars being spent during that period of time. And the
19 question is can you approve the efficiency of that? And I
20 wanted to give you a flavor, if that's useful to you, as to
21 some of the issues there. Given the magnitude of that
22 investment, on the one hand you might, for example, on Day 2,
23 as I indicated in my opening remarks, have something on the
24 order of arguably 35 million prices a year, and that
25 information might help you site your facilities better because

1 you would know in each location what the prices are. And so
2 you'd end up with 350 million prices over that period of time.
3 So there's a lot of information that you would have that might
4 not only improve operations but also sort of investment. The
5 question is how much would it improve it? That gets into
6 issues of how good is the price information? How good are the
7 market monitors in dealing with, for example, market power
8 issues and getting the right signals in place? And also how
9 good is the process today? How do we judge the process today?
10 And I think it's difficult to, to answer the question of prices
11 versus administrative efficiency, and, and so those are the
12 type of issues that there's no easy answer for.

13 But I did want to say that we did look at most of the
14 costs that the industry is going to be incurring on the
15 wholesale side, you know, a factor of 10 to 1. On bilateral
16 long-term contracting the idea is theoretically if the basic
17 market, spot or cash market against which everything is derived
18 including bilateral long-term contracts is as efficient as
19 possible, they'll be as efficient and they'll be encouraged
20 through de-pancaking, et cetera. But how much would they be
21 encouraged? So, again, there's no easy methodology that we
22 could throw into place that would make your, your decisions
23 easier.

24 CHAIRMAN BAEZ: Commissioner Deason, can I interrupt
25 a moment and ask -- and you may have answered this question

1 already, Mr. Rose. But assuming for the moment that the, I
2 guess the qualitative benefits as identified, for instance, in
3 bilateral contracting would work to offset whatever, whatever
4 deficiencies between benefits and costs that you've identified
5 as, as part of the study, assuming that for the moment, is
6 there a way to appreciate the kind of scale of bilateral
7 contracting that would have to take place in order, in order to
8 begin offsetting those, those differences? Or is that not -- I
9 mean, I appreciate that quantifying it is nearly impossible.
10 But, but is there a way to bring it back to a notion of scale
11 to say, you know, in order to overcome what looks like about
12 \$300 million difference between the benefits that have been
13 quantified and the costs that have been quantified, you'd have
14 to have a market, a scale of market for bilateral contracts of
15 a certain size? I mean, is that a fair --

16 MR. ROSE: I think that I'm partial to numbers, so
17 let me -- there's two parameters that you'd have to look at.
18 One would be the size of the bilateral market and then the
19 efficiency improvement you'd have in the bilateral market. So,
20 for example, if we're talking roughly \$7 to \$10 billion a year
21 of this related to the variable costs and the power plant
22 operations, let's just say that 10 percent of it was traded
23 bilaterally, you'd be at \$70 to \$100 million. Let's say you
24 improve that by 50 percent -- I'm just pulling this totally out
25 of the air in response to your question -- you'd be looking at

1 \$35 to \$50 million of benefit. The net present value of that
2 would be about \$350 to \$500 million.

3 CHAIRMAN BAEZ: And is the, is the 10 percent
4 bilateral number a fair, you know, like an industry standard or
5 is there a percentage -- is that a standard percentage or
6 across the country? What would you base that, that percentage
7 on?

8 MR. ROSE: Well, you know, I think, I did sort of
9 pull that a little out of thin air. You know, the issue is
10 who's participating in the bilateral market. Who is there to
11 participate? To have a thick market you have to have buy and
12 sell side players. So, for example, if you had a market that
13 was, had retail access and merchant power plants, then you
14 might have an even larger number of bilaterals. On the other
15 hand, the state does have a fairly rich bilateral tradition
16 because we're represented here by munis, municipals and
17 cooperatives. The 11 control areas, I guess eight of them are
18 non-IOUs. So that is a significant area where there is
19 significant bilateral contracting even without the merchant and
20 the retail.

21 Given -- nonetheless, I don't know if 10 percent is
22 the right number. Where I really have the real trouble is how
23 much more efficient are we making them?

24 CHAIRMAN BAEZ: Well, and I, and I think I got that
25 implication. If, if whatever goes on in Florida today is

1 efficient at a very high percentage, then you get into the
2 questions of, well, how much, how much is a couple of points of
3 efficiency worth? And I, I got that from, from the
4 presentation or at least a suggestion of that.

5 I guess I'm trying to, I'm trying to simplify it in
6 my mind. This is all very, this is all very complex, and I
7 think you made a good point of, a good attempt to drive that
8 home. But if what we're boiled down to is trying to -- you
9 know, Commissioner Deason alluded to there's, there's
10 qualitative benefits that we should be considering. In my mind
11 I would be trying to say, well, okay, I can accept the fact
12 that you can't put a price tag on these because information
13 isn't available, it's not reliable and so on. But you fall
14 back into that logic of, well, if it were reliable and if it
15 were available. How, how -- you know, is there a, is there a
16 point at which the, the available market in Florida is too
17 small to make up a number even on, even on, even on a
18 qualitative basis, given everything you know of our market?

19 MR. ROSE: Right. Well, first of all, it is a fairly
20 large market, but it's not as huge. It's sort of in the mid,
21 middle range there. That is, we have these two huge markets,
22 PJM and MISO, and then everything else is sort of small. I
23 notice you guys have a lot of electoral votes as well as
24 electricity, so you're not that small. And, you know, I -- you
25 know, some of these issues are, really would require sort of

1 knowing everything about the Florida process. And we're
2 still -- we've learned a lot, but it gets into the issue of how
3 well and how comfortable are you with the process right now?

4 You know, we give you some flavor of that. That is,
5 you know, if you have all these prices, there's a lot of
6 transparency, a lot of information. And it -- but on the other
7 hand, you know, how good are the prices going to be given the
8 concentration in the market? Well, the market monitor may be
9 doing a great job. I'm not sure how to judge how well you feel
10 you're doing.

11 I would add one other point in this regard. In our
12 analysis we didn't find huge price differences within the
13 regions within Florida. So we didn't find a huge difference in
14 these locational prices, that \$35 million I described in Miami
15 versus Sarasota where my parents live or Ocala where they used
16 to live. And, you know, and so it wasn't like there was a huge
17 lack of transmission that we noticed from the, from that narrow
18 perspective of locational marginal prices. Perhaps even maybe
19 there's too much transmission that got billed related to
20 everyone having to connect to each other because of the
21 pancaking.

22 But these are anecdotes. And, again, I think to
23 really answer the question of, for example, some of these
24 qualitative issues, I think, is a question of how comfortable
25 you are with the processes that are already in place. And,

1 again, that was sort of beyond the scope of, of our analysis.

2 CHAIRMAN BAEZ: Thank you. Commissioner Deason, I'm
3 sorry I interrupted.

4 COMMISSIONER DEASON: That's quite all right.

5 Still looking at Page 25, I would notice that the
6 majority of these qualitative items are in the benefit
7 category. Two are in the cost category: One being transition
8 risks and the other being scope, organizational and regulatory
9 issues.

10 First of all, could you describe what you mean by
11 transition risk and the second cost category of scope,
12 organizational and regulatory?

13 MR. OFORI-ATTA: Usually when you change a market
14 structure there's a lot of education that has to go on, and
15 especially when you are introducing the whole idea of risks, I
16 mean, like congestion, hedging congestion. You know, there are
17 experiences in the marketplace where some entities didn't
18 fully, you know, grasp these new concepts and these new issues.
19 You know, one can think of it like, you know, maybe stock
20 market trading. You know, you need to understand some of these
21 things. If you have a locational marginal pricing market where
22 you have, like Judah was saying, multiple, you know, thousands
23 of prices and hedging congestion, those kinds of things,
24 there's some risks that, you know, those who have been used and
25 inured (phonetic) with the traditional processes of, you know,

1 operating may face as the market transitions.

2 COMMISSIONER DEASON: Are those risks that the
3 participants, individual participants would face, or is this
4 some risk that gets transferred to the end use customer?

5 MR. OFORI-ATTA: It is conceivable that, yes, the
6 market participants will be facing this risk. But I'm not -- I
7 don't know if my colleagues, you know, are familiar with that.
8 I don't know whether some of these risks are passed on to
9 consumers, you know, directly by any one of the entities in
10 Florida.

11 MR. ROSE: You know, to the extent that there's
12 municipals or co-ops, you might not have the ability to, if you
13 will, tag the shareholders for problems that occur. They may
14 just directly go through.

15 You know, I think that some of these risks are
16 mitigated by the control zone structure. We have sort of two
17 layers: You have GridFlorida and then you have the control
18 zones. And some of the risks on the operational side are being
19 mitigated by that level of added protection, and that's more of
20 an operational risk. There are things like, geez, maybe people
21 don't want to work in the new system and they retire and you
22 lose some talented people. This FTR thing where people are
23 having to function in a complicated system may make mistakes.
24 That happens and it's, you know, it's difficult to quantify
25 mistakes. We certainly put a fair amount of money in for

1 education and trying to bring people up to speed, and certainly
2 this process itself has been an education. But, you know,
3 change is, you know, risky as well as having opportunities, and
4 we just wanted to identify that, recognizing that we really
5 can't quantify that.

6 MR. OFORI-ATTA: Looking at your next question, you
7 know, scope, organizational, regulatory issues, what we found
8 when we released the preliminary RTO cost estimate in December
9 was that, you know, stakeholders, you know, some stakeholders
10 say that, you know, our estimates were too conservative. So
11 with the help of FERC, like Chris mentioned, we managed to get
12 access to the New England and the New York ISO. And what we
13 found was that, you know, there are significant, you know,
14 organizational functions that were being considered there that
15 we hadn't looked at, you know. Perhaps based on analytic, you
16 know, modeling of the costs, some of those functions -- in our
17 thinking at the time, we didn't think they were necessary.
18 But, you know, after looking at these organizations, we saw
19 that it's some amount of scope expansion for these
20 organizations. And that was the reason why we, we put on this
21 chart that should there be scope expansion for the new RTO, you
22 know, then --

23 COMMISSIONER DEASON: Do you mean that the, that the
24 RTO could not function with the way, effectively function with,
25 for example, the number of full-time equivalents that you're

1 projecting, and that there's a risk that perhaps more people
2 are needed, there's going to be more cost to actually fulfill
3 the requirements of the RTO? I'm trying to understand what you
4 mean by scope and organizational, regulatory issues.

5 MR. OFORI-ATTA: Right. If you look at this chart in
6 Slide Number 50, if you look at this chart -- let's take
7 New York ISO. It became an ISO in November of 2000 and they
8 started operations and it was functional. But with time they
9 added more functionality to the ISO, and you can see with an
10 increasing number of employees as time went on. And that is
11 basically what I'm referring to in the qualitative section that
12 should it be a case, I'm not saying this is going to be
13 representative of every single RTO out there, but should there
14 be a case where there aren't strong checks on these RTOs on the
15 cost side, there's the tendency to add additional
16 functionality. And that's what basically we were referring to
17 under scope issues.

18 COMMISSIONER DEASON: Thank you. That raises two
19 questions then.

20 MR. ROSE: If I could just add, in fairness on that
21 issue. There's certainly this, this tendency. The other
22 reason is but there's also a platform and you have some
23 optionality that, geez, maybe you want to deal with one entity
24 or you do want to increase the scope, that the Commissioners
25 want to increase the scope. So I did want to say that even

1 though we have it listed under costs, you know, it might be
2 easier to deal with one entity. And then if you have certain
3 issues that you want them to deal with, you have some sort of
4 more centralized functionality. But I think the reason why we
5 put it a little bit on the left side of the costs there on net
6 is the growth in FTEs.

7 COMMISSIONER DEASON: Well, the, the New York ISO, as
8 an example, and apparently there was an increase in FTEs, was
9 that because of added functionality or lack of efficiency on
10 the part of the organization as a whole or just growth in the
11 market?

12 MR. McCARTHY: We did look -- maybe I can't speak to
13 the New York ISO, but I'll speak to the PJM example because we
14 looked at that one in detail. That was the most significant
15 increase. There were a number of things driving that, both
16 expansion of geographic scope in the recent term for PJM, as
17 well as the addition of, addition and expansion of markets, the
18 addition of FTR markets, the addition of FTR options trading
19 and different functions that were being offered by the RTO and
20 what's exactly driving those new functions. We didn't analyze
21 whether those were functions being requested by participants or
22 regulatory bodies or offered by the RTO. So it was similar in
23 the New York ISO in the addition of markets in the near term,
24 but I didn't look at the specific time series there.

25 COMMISSIONER DEASON: There was reference in answer

1 to previous questions about the need for a check to be in place
2 to, I guess to, to make sure there's just not unbridled
3 increase in RTO budget without there being a need to do so.
4 Whose responsibility is that? Is that the board of directors,
5 is it the participants within the market, is it FERC, is it
6 this Commission, is it the Governor, the Legislature? Whose
7 responsibility is that?

8 MR. McCARTHY: I'm not, I'm not sure. I think
9 there's a growing -- there's been a growing body of literature
10 talking about the rising costs and the rising employee numbers
11 at various RTOs, and we've heard comments at -- I don't
12 remember the date, but there was a FERC presentation on that.
13 So FERC is taking notice of the budget expansion and looking
14 for accounting, uniform accounting practices across the RTOs.
15 So I don't know where the ultimate responsibility lies, but
16 over the past year and a half just as we've been doing the
17 study of the issue there's been a lot of, lot of literature and
18 a lot of comments on the issue. So it is rising.

19 COMMISSIONER DEASON: Well, within the internal
20 structure, I mean, you did a lot of detail work on the number
21 of full-time equivalents and had it all, you know, categorized
22 by function. There is a board of directors; correct?

23 MR. McCARTHY:
24 responsible for controlling costs. You know, as far as making
25 decisions on additional functions, you know, in our opinion we

1 didn't really look at the expansion of functions over time
2 because we didn't know how it would evolve. **We went through**
3 the process of determining what, what we thought the starting
4 functions would be. Then anything incremental to that would
5 have to be, I guess would have to be self-funded. So if you
6 wanted to add FTR trading, you would need a tariff on the FTRs
7 in order to fund that. If you wanted to -- or I'm sorry. If
8 you wanted a capacity market, that would have to be a
9 self-funded capacity market within our view.

10 MR. ROSE: I mean, we do have someone here from FERC.
11 I mean, it's a legal issue in my mind as to whose role is what.
12 It's just beyond my pay grade on that one.

13 But, you know, we did point out that there was this
14 FERC study on the cost. So it is an issue that we know it's on
15 their radar screen. And I would also sort of say that the RTOs
16 that we have here are in the context of these, these type of
17 modes of operation are relatively new, and I think that it's a
18 report issue that's still to be shaken out.

19 COMMISSIONER DEASON: Well, that's a good segue into
20 the next question I have. **You mentioned it being above your**
21 **pay grade.** I did a simple analysis, and maybe I'm
22 oversimplifying it, but the incremental cost of employee costs
23 for Day 1 is \$30.9 million, 194 full-time equivalents. It
24 works out to about \$160,000 per employee. Now I know that that
25 probably includes a lot of loadings. That's just not average

1 salary. That's, you know, a lot of costs associated with, you
2 know, personnel and other, you know, things that get added in
3 that an entity has to pay just in straight salary. But that
4 strikes me as quite high. I just -- what is your reading on
5 that?

6 MR. McCARTHY: Yeah. I think looking at it that way,
7 it does seem quite high. There's a number of things included
8 in there. That would include, you know, starting off salary as
9 well as benefits for all of the employees. Payroll taxes are
10 included in that category as well. So I believe --

11 COMMISSIONER DEASON: What is the average salary
12 then, excluding all the loadings? What is the average salary
13 of those incremental employees, 194? Do you have any --

14 MR. McCARTHY: I would need to check. I believe it's
15 in the \$60,000 to \$70,000 --

16 COMMISSIONER DEASON: That leaves a loading factor or
17 a factor of two and a half?

18 MR. McCARTHY: I can -- I'd be happy to pull the
19 details. Actually I can turn on my computer and pull the exact
20 details. I don't remember off the top of my head. I believe
21 it's a factor of 60, and then the -- maybe -- let's take a step
22 back and tell you how we developed the estimate, and then I can
23 pull out the actual numbers in detail.

24 We started off with Bureau of Labor statistics
25 estimates for utility employees within the southeast. So we

1 were able to pull those on average over, I believe it was the
2 past 10 to 15 years and look at the trajectory over time, how
3 they've been rising or falling in real dollars, and determine
4 on, I believe it was six different cost categories, you know,
5 starting with director down to management, electrical engineers
6 and computer programmers were the four categories I can think
7 of. I believe there were six all together. Administrative was
8 the fifth, and there was one other in there.

9 So we were able to look at the federally projected or
10 Federal Bureau of Labor statistics estimates for the southeast
11 region. We then also used Bureau of Labor statistics to
12 determine the loading factor on top of that. And I want to say
13 it was a ratio of 64 percent salary to 30 percent benefits on
14 top of that. So that increased the number from there.

15 Again, that was based on Bureau of Labor statistics.
16 And I -- it may actually be included in here. I'll take a
17 look. We did distribute that to some folks previously exactly
18 how we got --

19 COMMISSIONER DEASON: With that loading then you're
20 roughly talking about an average salary of something in the
21 neighborhood of \$120,000; is that correct?

22 MR. McCARTHY: Well, we then layered on top of that
23 payroll taxes and a couple of other categories.

24 COMMISSIONER DEASON: So that loading factor did not
25 include payroll taxes?

1 MR. McCARTHY: No. I'm sorry. I just don't have the
2 exact detail.

3 COMMISSIONER DEASON: Okay. Well, that -- I mean, we
4 can go to a different area of a question that I have then, and
5 I guess it's kind of related.

6 You made reference to the fact that, when you were
7 making comparisons between some FERC estimates on the total
8 cost, that the GridFlorida was a greenfield; whereas, under
9 some of the FERC estimates that there were some, there were
10 some carryover costs and legacy costs that were going to be, I
11 guess, were going to be used in some of these, some of their
12 estimates. Did I understand -- is that correct? Did I
13 understand that, or is that an incorrect assumption?

14 MR. McCARTHY: I think the, the key difference
15 between the, the RTO study -- I think of PJM and SPV
16 specifically that were studied in the FERC report versus the
17 GridFlorida RTO. The key difference is the kind of history of
18 working together and having central dispatch and central, at
19 least central coordination and central dispatch in the case of
20 PJM where the entities within those organizations were more
21 used to working together and had systems in place to work
22 together and to coordinate, coordinate internally, which are
23 not necessarily present within GridFlorida or within the
24 current Florida operations.

25 So, for example, there's not a control center

1 currently within Florida that's linked to each of the
2 generators that covers the entire state. I believe in PJM that
3 had always existed.

4 COMMISSIONER DEASON: But there is coordination
5 within peninsular Florida, is there not?

6 MR. McCARTHY: Oh, Certainly. Certainly. But the
7 dispatch coordination is handled on a company level rather than
8 a group-wide level.

9 COMMISSIONER DEASON: Okay. Well, then I guess that
10 leads to the next question. If, if this entire dispatch
11 function is going to be carried out by a third entity, are
12 there savings within the utilities that your study does not
13 capture? In other words, we don't want to be duplicating work.
14 And if it is captured, where is it captured? And if it's not
15 captured, why was it not captured?

16 MR. OFORI-ATTA: Actually that would take me back to,
17 I think, Slide Number 3, one of the very first things we talked
18 about.

19 Generally with these studies there are three main
20 categories of costs and benefits. We've talked about
21 investment efficiency, then operational efficiency. And I
22 think that what you're referring to is the third item, the
23 third bullet item, which is, you know, some savings or costs
24 from utility operations. This wasn't part of our work, and
25 it's something that I think Roberta asked, you know, along the

1 line, you know, and stakeholders are supposed to provide that.

2 COMMISSIONER DEASON: So that's not part of your
3 study, but it's something we will be, we will be getting
4 information on it.

5 MR. OFORI-ATTA: Right.

6 COMMISSIONER DEASON: I see Roberta nodding her head.
7 Very good.

8 And I guess the last question I have concerns the
9 Day 0 costs, which I, for lack of a better term, I just refer
10 to as sunk costs. Those are costs that have been incurred or
11 will be incurred before there is to be an RTO. Were those
12 costs figured into your slide on Page 56 as part of the cost
13 structure or were they ignored for that cost comparison?

14 MR. McCARTHY: Yes, they were included in the costs
15 there.

16 COMMISSIONER DEASON: But to the extent they're
17 already sunk, I know that they're quite small in comparison to
18 these numbers. I think we're in the neighborhood of
19 \$33 million of Day 0 costs. But if we're doing -- since those
20 costs are -- well, if you or any of your economists -- I've
21 always heard that sunk costs are sunk costs. And if you're
22 making a decision on doing something going forward, you don't
23 really calculate that into a cost benefit analysis. But I may
24 be wrong. I'd like your feedback on that.

25 MR. McCARTHY: I guess I'll retroactively wish I had

1 given the same introduction on the, on the five categories as I
2 had previously that the main reason we broke up those costs
3 specifically, and I mentioned this at the previous stakeholder
4 meetings, the main reason we separated the Day 0, the Day 1,
5 the Day 2 costs were for individuals to include or exclude them
6 from the, from the total as they see fit.

7 So currently included in the total are those
8 Day 0 costs, as well as some IDC and some incremental carrying
9 costs on those going forward. And they can be easily included
10 or excluded by the reader, and we'll definitely point that out
11 in the final report, I think.

12 MR. ROSE: We're not trying to minimize the economic
13 principles on costs. It's just a question of what's going to
14 happen to them and just being, everyone being aware of what
15 they are. And they're clearly separated and easy to pull out
16 and don't necessarily change the results in a major way.

17 COMMISSIONER DEASON: Yeah. Okay. Thank you.

18 That's all I have, Mr. Chairman.

19 CHAIRMAN BAEZ: Thank you, Commissioner.

20 Commissioner Bradley, you had questions?

21 COMMISSIONER BRADLEY: Just one question. On Page,
22 going back to Page 25, and maybe you all have already -- maybe
23 I just missed this.

24 Under "Other Factors" you don't have anything
25 inserted for ROE. Can you -- is that return on equity?

1 MR. OFORI-ATTA: The main reason why we don't have
2 anything for ROE was it was -- at the time of putting together
3 this slide and thinking about this problem, we recognized that
4 from a transmission owner's perspective it's a benefit because
5 you're getting a higher ROE. But then if you look at it from a
6 ratepayer's perspective as the source of all the dollars, then
7 it probably isn't -- it probably is a cost from a ratepayer's
8 perspective. So in the interim we said, you know, it's more of
9 an unknown. It's something that we intend to pick up with
10 stakeholders.

11 If we are looking at this whole study from a consumer
12 perspective, then probably it's a cost. But as of now we are
13 unsure, so we have just, you know, tagged it as unknown.

14 MR. ROSE: There is the issue of whether or not by
15 being in the RTO you get a higher ROE, and whether or not that
16 somehow is increasing the amount of investment in transmission
17 or other type of facilities and whether that is necessary.
18 That is, is there an inefficiency at the current ROE? And that
19 gets back to sort of this issue of investment efficiency, which
20 is -- again, we don't really have a procedure to measure the
21 extent to which you've got -- which the current system is
22 inefficient.

23 Again, we did not do a detailed study of whether or
24 not you have exactly the right transmission equipment for
25 reliability. We just noticed there wasn't any large, huge

1 decreases in the nodal prices that the model was generating
2 within GridFlorida, which would, if there were -- that is, if,
3 again, Miami was \$100 a megawatt hour and Ocala was \$20, then
4 that would sort of be a clue, not the only clue, but a clue
5 that there's something where you need more incentives on the
6 efficiency. But, again, we didn't, we didn't notice that.

7 COMMISSIONER BRADLEY: One follow-up. As it relates
8 to -- which regulatory agency do you envision as having
9 regulatory authority over the ROE? Is that FERC or would that
10 be a state commission? And I guess that -- my question -- I'm
11 dealing strictly with GridFlorida. I know that you have two
12 scenarios here. But --

13 MR. ROSE: I think what we're referring to here is to
14 the extent to which the Federal Energy Regulatory Commission
15 would be in charge of setting the rates or the costs that the
16 GridFlorida would have and the return on capital.

17 Again, that's a legal issue which is, again, not our
18 area of expertise as to, well, if FERC sets the rates but the
19 Commission doesn't allow it to get past the ratepayers, what
20 happens or, you know, what trumps the commerce (phonetic)
21 clause or, you know, some other, other legal issue.

22 CHAIRMAN BAEZ: Commissioner Edgar.

23 COMMISSIONER EDGAR: I don't want to slow us down too
24 much, but very, very briefly.

25 CHAIRMAN BAEZ: No, not at all.

1 COMMISSIONER EDGAR: If you could turn for me back to
2 Slide 13 -- yeah, 13 and 14. And when you were going over that
3 earlier in the presentation, you talked about which facilities
4 there were basically no benefits and then more benefits. Could
5 you go over that for me again briefly?

6 MR. OFORI-ATTA: Usually when you have modeled, you
7 have performed your modeling and you derive your benefits, you
8 want to try to take a look at which facilities are really
9 providing these benefits. And there's a more detailed example
10 shown to stakeholders, and this is just a simplified version
11 that we want to share with you.

12 We, we would have been concerned if coal plants, for
13 instance, were providing any of the benefits or nuclear units,
14 you know, and we didn't see any of that. So that gives us some
15 comfort that what we're doing is about right. And we usually
16 expect that the mid merit and the peaking units will be the
17 ones where we'll see displacement in their capacity factors.

18 So as you can tell from this table, this is just a
19 simplified table with some units showing, for instance, if you
20 look at this John R. Kelly unit on Slide Number 13, in the base
21 case it dispatches at 67 percent, you know, but -- and also in
22 the Day 1 case. But perhaps if we go to a Day 2, it's going to
23 be displaced by more efficient units, and its capacity factor
24 will be, you know, much lower. You know, so that in itself
25 tells us that we are getting some efficiency gains. And I

1 don't, I don't, I don't want to pick on just that unit, but,
2 you know, we showed all other units also that were shifting in
3 terms of -- were being displaced, you know, in a more efficient
4 Day 2 market.

5 COMMISSIONER EDGAR: Okay. Thank you.

6 MR. OFORI-ATTA: And just for the record also, we
7 provided stakeholders, and you have a copy in your, your
8 binder, with the capacity factors of all these units for each
9 single year modeled and for the base case Day 1 and the
10 Day 2 cases.

11 MR. ROSE: And just again to -- we're so involved in
12 the modeling, you know, that -- picking on John R. Kelly, when
13 it goes down, someone else's capacity factor is going up whose
14 heat rate might be a little bit better or whose pressure on the
15 transmission grid in terms of creating congestion is less or
16 whose loss factor, we talked a lot about loss -- well, it's a
17 long peninsula and you get losses as you go, as you try to move
18 the power. There's what they call thermal heating losses, et
19 cetera, on the transmission grid.

20 So, again, the way to read this is that there's
21 another table that shows someone else is going up. And then if
22 we looked at each of the 2000 locations, each of -- almost
23 9,000 hours a year, we could go back and try to figure out what
24 was involved in each one of those, those inefficiencies that we
25 identified. And it's, again, it's, it's not one where we found

1 highly efficient IPP merchant plants using advanced combined
2 cycle technology at 10 percent capacity factor when they should
3 have been at 50 percent. What you do see -- and we believe if
4 we did the similar study, and we could never do that type of
5 study in those areas, we would see that type of thing. Or,
6 again, if we would look in areas and we might find coal plants
7 that should be operated but people are not, those are the ones
8 where you start going from, you know, 95 to 98 percent
9 efficiency down to much lower economic efficiency.

10 And the modeling that we did, we talked about that
11 last time we were here and we'd love to talk about that, is
12 taking into account not only the cost of operating the
13 facilities, the fuel, the thermal efficiency of converting the
14 fuel to electricity, but also its effects on the transmission
15 grid, which is why it takes -- we have 32 computers running for
16 you just so that we can do one day. One year requires us --
17 and we did, what, 13 years. One year requires the machine to
18 operate for four days continuously. If you make a mistake,
19 it's very painful because then you have to go back in that
20 cycle. And what it's cranking through is for each unit what
21 its effect is on both the transmission in terms of how it
22 competes with the other units making sure you get the most
23 efficient, least cost, taking into account all those factors.

24 COMMISSIONER EDGAR: Okay. Thank you. And then if
25 we could just for a moment go back to those pie charts on 46

1 and 47. I want to make sure I understand what I'm looking at.

2 Commissioner Deason talked about the already expended
3 or the sunk costs. But for this Day 1 operating period, I
4 realize we're talking about 2004 dollars, but the \$61.9 million
5 is an annual budget for the RTO; is that what's displayed here
6 projected?

7 MR. McCARTHY: Yes. That would be for -- on
8 Slide 46, the 61.9, that would be the annual budget for the
9 first year of operation in our modeling framework. That was
10 2004. So it would be one year.

11 COMMISSIONER EDGAR: So does that include start-up
12 costs that would not be then in the following year?

13 MR. McCARTHY: That includes -- it does not include
14 the start-up costs. It does include interest expense on the
15 start-up costs. So we do have -- we assume that that -- what
16 the number is. But the previous pie chart of start-up costs,
17 we assume that's capitalized over a five-year period. Included
18 in the operating costs are going to be capital expenses for
19 that. But other than that, the two are not directly related.

20 COMMISSIONER EDGAR: Okay. And then the chart on
21 Page 47 or Slide 47 is just for the Day 2 operating period
22 annual budget that would be added to. So for those Day 2
23 years, annually it would be a budget of approximately
24 \$111 million; is that correct?

25 MR. McCARTHY: Correct. And if you -- on Slide 48

1 kind of the two are combined with a few other categories, are
2 combined Day 1 and Day 2. So the modeling framework we did was
3 2004 through 2016. The yellow -- the first three sets of bars
4 on the bottom represent the Day 1. The next three on top of
5 that represent the Day 2 and how they play out over time.

6 So this stream of numbers is what we then took a net
7 present value of to get the big orange bars you saw at the end
8 of the presentation, the \$775 and \$1,253 million, I think.

9 COMMISSIONER EDGAR: Okay. Thank you.

10 CHAIRMAN BAEZ: Commissioner Bradley, you had a
11 question?

12 COMMISSIONER BRADLEY: Yes. And I don't know if this
13 is outside of the scope of your study, but it's a concern that
14 comes to my mind.

15 Can you somewhat discuss restoration and maintenance
16 as a part of the operation, the cost of operating the RTO? And
17 I'm thinking about restoration and maintenance as it relates to
18 extraordinary weather events. Was that a consideration of your
19 study?

20 MR. OFORI-ATTA: No, it's not. Yes and no. I'm
21 sorry. No in the sense that we don't have an explicit line
22 item for that. But yes because we allowed sufficient staff,
23 you know, FTEs to account for those kinds of events.

24 MR. MCCARTHY: As far as the RTO operation, we did
25 include cost estimate -- included in the cost estimate would be

1 sufficient budget to allow for a fully functional backup
2 facility both in Day 1 and Day 2. So there would be an
3 operating EMS system similar to what all, to what the utilities
4 would do today. You would have an off-site online backup
5 system available that can take over immediately upon any sort
6 of weather event or power loss or whatever the event might be
7 for Day 1. So that means the EMS system as well as any of the
8 data that's needed in Day 1 for billing and for, for balancing,
9 and in Day 2 for all of the market operations. So we would
10 include that. And we would assume that that would be a
11 separate enough location that hopefully it won't be affected by
12 the same weather event, and that's able to come online
13 immediately. Yes. Both facilities would be treated as
14 hardened. So we did, we worked with FPL on looking at their --
15 I guess it's not that recent -- but their most recent facility
16 addition and making sure that they were, we had facilities
17 sufficient enough to withstand Florida-specific weather events.

18 MR. OFORI-ATTA: And we'll say that we didn't only
19 work with FPL on that. We toured the facilities of Progress as
20 well to try to see, you know, just in case there was something
21 that was peculiar with FPL. We also wanted to make sure that
22 we didn't just drive those peculiarities into the study.

23 But like Chris said, you know, we have a fully
24 functional backup control center which will help with
25 restoration. In terms of lines being down, we think that we

1 have sufficient FTEs to take care of that.

2 MS. BASS: Commissioner Bradley, if I could add
3 something to that. I think that if you were asking about the
4 control facilities and who would restore and maintain those,
5 that would be by GridFlorida. If you're talking about the
6 physical transmission lines, those would continue to be
7 restored and maintained by the utilities themselves. They're
8 not turning physical ownership of their transmission facilities
9 over to GridFlorida. They're only turning operational control
10 over. I just wanted to make sure that, that you understood
11 what the distinction was, and that any maintenance and
12 restoration will continue to be done by the individual
13 utilities that own the transmission lines. So poles and lines
14 stay with the company.

15 COMMISSIONER BRADLEY: Thank you.

16 CHAIRMAN BAEZ: Commissioners, if there's no other
17 questions, why don't we -- let's take a five-minute break and
18 we'll be back with further presentations.

19 (Recess taken.)

20 CHAIRMAN BAEZ: Go back on the record.

21 Ladies and gentlemen, we had, we had said -- as you
22 can tell by your agenda, this is a pretty ambitious moving
23 along of the issues for the day. As, as you can also tell, the
24 Commissioners had quite a few questions of ICF. And at the
25 risk of suspecting that the same may be the case for a lot of

1 the participants that are going to be making statements, I
2 think it's pretty evident that we're not going to finish by the
3 2:00 that was set forth in the agenda. As a result, I think in
4 order to allow us some time to be humans and what not, we are
5 going to -- what I plan on doing is at least taking the first
6 two presenters in this next segment, and we're going to go
7 ahead and break for about 45 minutes so we can give the
8 Eatz Cafe a little bit of business, if possible, and then
9 continue with the presentations. So don't feel -- I hope this
10 doesn't create any travel problems for those people that are
11 here, but I just, I've got to deal with the reality that 2:00
12 is just not doable from the length of the presentations and the
13 questions and the comments. So with that, I will get out of
14 our own way.

15 Ms. Bass, do you have something else to add?

16 MS. BASS: No.

17 CHAIRMAN BAEZ: No? Okay. We can go ahead and take

18 --

19 MR. ROSE: Excuse me, Commissioners.

20 CHAIRMAN BAEZ: Yes.

21 MR. ROSE: I just wanted to get back to the number
22 that you had asked us for.

23 CHAIRMAN BAEZ: Oh, okay.

24 MR. ROSE: Most of the people hiring in Day 2 have a
25 salary of \$75,000. But when you take in the average, it works

1 out to be like \$89,000. There's not as many, if you will,
2 administrative staff that are being added. They're there and
3 available on Day 1. So you had said \$150,000. When you take
4 \$89,000 times a multiple of around 1.6, you get close to
5 \$150,000 average.

6 CHAIRMAN BAEZ: Commissioner Deason, if you don't
7 have a follow-up on that, we can go ahead and take FMPA. Or I
8 guess there was a, there was an order change. So Mr. Miller is
9 going to go first.

10 MR. MILLER: Yes.

11 CHAIRMAN BAEZ: Okay.

12 MR. MILLER: Thank you, good morning. My name is
13 William Miller. I'm appearing on behalf of Seminole Electric
14 Cooperative. Also appearing on behalf of Seminole will be
15 Mr. Bob Davis of R. W. Beck, a firm that was retained by
16 Seminole and by FMPA in connection with the ICF study.
17 Mr. Davis will speak to certain technical issues regarding the
18 ICF presentation. Following Mr. Davis will be Mr. Bob Williams
19 on behalf of FMPA.

20 Seminole has been concerned since the inception of
21 the ICF phase of this proceeding that a great deal of time and
22 money would be spent in a largely applicant-driven exercise to
23 prove that a GridFlorida RTO flunks a cost benefit test, a test
24 that almost by definition cannot be passed without taking into
25 account the very qualitative benefits that this Commission

1 found in December 2001 warranted the formation of a GridFlorida
2 RTO. Not surprisingly, our low expectations regarding the ICF
3 study have been fulfilled.

4 Now Mr. Davis, on behalf of Seminole and FMPA, will
5 discuss that there has not been enough information provided to
6 date to make a reasonable assessment of the validity of the ICF
7 results, and that those results that have been provided reveal
8 important technical flaws in the ICF study, flaws which have
9 the effect of greatly overstating costs and understating
10 benefits.

11 My comments will address broader conceptual concerns
12 in the ICF study which render it of little value in determining
13 how best for this Commission to proceed. I should note at the
14 outset that my remarks are not intended in any way to belittle
15 the efforts of ICF, which has done what the applicants
16 instructed it to do. So when I say that the ICF study is
17 misguided or flawed, I am not being critical of ICF. Rather,
18 I'm expressing long-held concerns with the marching orders that
19 ICF received at the outset of this proceeding. And I'm
20 reiterating the view expressed by Seminole in this very room
21 when the ICF study was first announced by the applicants.
22 Seminole observed then that by not being able to quantify the
23 qualitative benefits that were determined by this Commission in
24 December 2001 to warrant the formation of a GridFlorida RTO,
25 that the study would be at best irrelevant and at worst

1 misleading.

2 Now aside from the point just made regarding the
3 failure to capture the qualitative benefits, the two main
4 concerns that Seminole has regarding the ICF study are, first,
5 that it did not study the correct cost structure of an RTO,
6 and, second, that the base case or starting point from which
7 the incremental benefits were computed did not reflect current
8 reality with the consequence of minimizing estimated benefits
9 of an RTO.

10 First, concerning the cost estimates for operating an
11 RTO, ICF studied how much a greenfield Day 1 and Day 2 RTO
12 would cost in Florida. Not surprisingly, the ICF study showed
13 that the costs, though not substantial on a megawatt hour
14 basis, would exceed the quantitative benefits. What ICF should
15 have studied was how much a GridFlorida transmission provider
16 performing certain fundamental transmission-related functions
17 would cost and what the expected quantitative and qualitative
18 benefits would be. I'm reluctant to call this paradigm a
19 Day 1 RTO because Day 1 implies Day 2, which Seminole from the
20 outset of this proceeding has maintained is undoable and
21 unrealistic due to the market power concerns in the state of
22 Florida.

23 Seminole believes that one of the many problems with
24 the ICF study is that by assuming a Day 2 RTO is coming, it
25 made erroneous assumptions regarding Day 1 and Day 2 needs and

1 costs. The second concerning quantitative benefits, there are
2 several main concerns.

3 ICF created a base case that was intended to mimic
4 today's cost of utility operations. Unfortunately, the base
5 case established by ICF does a poor job of reflecting actual
6 utility operating costs, instead modeling utility operations
7 that are much too efficient and economical vis-a-vis the real
8 world. Because quantitative benefits were derived from modeled
9 differences between this overly optimistic base case on the one
10 hand and the modeled RTO markets on the other, very low
11 benefits were computed by ICF. Benefits that Florida can
12 obtain from greater transmission access and more efficient
13 generation can only reasonably be estimated if the modeling of
14 today's markets reflect significant inefficiencies, which in
15 reality are present but in the ICF are absent.

16 Another important flaw on the benefits side of the
17 equation in the ICF study relate to the arbitrary and
18 artificial hurdle rates to make the ICF computer model
19 function. Mr. Davis will address those in more detail in his
20 presentation.

21 Returning to the cost side of the equation, what are
22 the key functions that a GridFlorida transmission provider
23 should perform? The answer is dictated by the need to have an
24 independent transmission provider in Florida providing
25 nondiscriminatory access to the transmission infrastructure so

1 that all players, be they vertically integrated utilities like
2 the applicants, be they independent generators like Calpine,
3 Reliant and others, or be they TDUs like Seminole and FMPA, are
4 able to compete in an active wholesale competitive market. To
5 achieve this, a GridFlorida transmission provider should
6 administer the OATT and the OASIS, it should conduct meaningful
7 regional transmission planning, it should eliminate pancaking,
8 it should do the ATC and TTC calculations and perform similar
9 essential transmission-related functions. It should also have
10 adequate stakeholder input on the board so that the board
11 remains cost conscious and focused on what will benefit retail
12 customers in Florida.

13 As a footnote, I would note that that is a change of
14 position by Seminole, which heretofore has argued very
15 strenuously for a completely independent board. But our
16 experience in looking elsewhere in the country in terms of
17 escalating costs has convinced us that having a board with more
18 stakeholder input will be beneficial in Florida in terms of
19 keeping track of what's happening in Florida, in terms of doing
20 what's right for Floridians and in terms of more meaningful
21 cost control.

22 Now what -- we've talked about what a good Florida
23 transmission provider should do. What should it not do? What
24 it should not do, in addition to windows, it should not do
25 markets. Let me repeat, it should not do markets. When I say

1 markets, what I mean is LNP and FTRs for congestion in
2 day-ahead and real-time markets. Even if the experience with
3 such Day 2 markets in other sections of the country were
4 positive, and, needless to say, the jury at best is still out
5 on that, such markets would not work in Florida given the
6 insurmountable market power concerns in this state.

7 Wholesale customers and retail consumers in Florida
8 will benefit greatly from a GridFlorida transmission provider
9 that performs the basic functions just described and works in
10 conjunction with the Florida Public Service Commission to
11 ensure that there's adequate generation and transmission in the
12 state and that costs are controlled. There's no doubt that to
13 perform these functions, the GridFlorida transmission provider
14 will require office space, but it will not require
15 97,000 square feet plus 25,000 square feet of redundant space
16 for a Day 1 RTO, which is what ICF has programmed into its
17 study. It will not need 194 full-time equivalent employees,
18 which is what ICF has programmed into its Day 1 RTO. We think
19 it can be done efficiently with a far, far smaller staff. And
20 it will need systems, but it will not need \$33 million of new
21 systems, which has been programmed by ICF into its study.

22 We believe that the systems can be acquired
23 economically by converting existing infrastructure and
24 outsourcing where possible, called by some a brownfield
25 approach. In short, we believe that when you move from the

1 GridFlorida Cadillac greenfield model presented by ICF to a
2 more efficient Honda model that is limited to scope and
3 inexpensive to run, the result will be one that greatly
4 benefits Florida electric consumers.

5 I'd like to conclude my remarks by referring to
6 certain findings by this Commission in its December 20, 2001,
7 order in this proceeding. Quote, as a policy matter, excuse
8 me, we support the formation of an RTO to facilitate the
9 development of a competitive wholesale energy market in
10 Florida. In the long-term the efficiencies and benefits
11 identified through our evidentiary hearing should put downward
12 pressure on transmission and wholesale generation rates and, in
13 turn, on retail rates.

14 Later you said, based upon the evidence in the
15 record, we find that the central benefit associated with each
16 utility's participation in an RTO is the facilitation of an
17 improved wholesale electricity market encouraging competition
18 among wholesale generators by removing transmission access
19 impediments and restrictions. Further, the record indicates
20 that an RTO will potentially improve the current peninsular
21 Florida transmission grid. The record indicates that
22 additional operational efficiencies among utilities and the
23 consolidation of planning and maintenance can be achieved by
24 participation in GridFlorida. We believe that the efficiencies
25 and benefits identified above will in the long-term put

1 downward pressure on transmission and wholesale generation
2 rates and, in turn, retail rates while maintaining or enhancing
3 quality and reliability of service.

4 In stating your clear preference for an ISO, the
5 Commission noted, quote, we believe a more cautious
6 transitional approach is prudent for peninsular Florida at this
7 time. An ISO would capture benefits associated with integrated
8 transmission planning, operations and pricing.

9 The Commission also determined to stick with physical
10 versus financial markets because of market power concerns
11 finding as follows: The GridFlorida companies have not
12 developed procedures to deal with localized market power on a
13 real-time basis.

14 And, again, in your September 3, 2002, order you
15 stated, the GridFlorida companies have not met the requirements
16 of our December 20 order to demonstrate that localized market
17 power has been adequately addressed.

18 In brief, Seminole believes that the Commission has
19 already signalled its agreement with Seminole regarding the
20 type of organization that is necessary and appropriate for
21 Florida retail consumers to enjoy the benefits of an open
22 access transmission system administered by GridFlorida ISO. We
23 urge the Commission to move swiftly to put such an organization
24 in place, keeping in mind that the ICF study fails to address,
25 much less undermine, what this Commission found to be

1 appropriate and in the public interest in December 2001.

2 Thank you very much. Mr. Davis is the next speaker,
3 but I'm happy to field any questions of a nontechnical nature.

4 CHAIRMAN BAEZ: Commissioners, do you have any
5 questions for Mr. Miller at this time?

6 Mr. Davis.

7 MR. DAVIS: Good morning, Mr. Chairman,
8 Commissioners.

9 CHAIRMAN BAEZ: Good morning.

10 MR. DAVIS: My name is Robert Davis. I'm a Senior
11 Director with R. W. Beck, Incorporated, an independent
12 engineering consulting firm retained jointly by Florida
13 Municipal Power Agency and Seminole Electric Co-op to provide a
14 technical review of the ICF cost benefit study.

15 We would like to take this opportunity to provide the
16 Commission an alternative interpretation of the results
17 presented thus far and identify several issues that we strongly
18 recommend that the Commission consider when forming your
19 decisions.

20 Before I start, I would like to acknowledge that ICF
21 has done a commendable job of managing a very large study
22 endeavor, including interpretation of problematic data sources,
23 difficult modeling requirements and managing diverse opinions
24 and feedback from many sources. While I do have issues with
25 several aspects of the study, the staff and representatives of

1 ICF have performed admirably during this study and deserve our
2 respect.

3 That being said, first I would like to -- excuse me.
4 There we go. That being said, first I would like to state that
5 during our review of the study we have made several attempts to
6 obtain information from ICF. However, even when our requests
7 are specifically structured to protect against the release of
8 confidential information, ICF has been extremely reluctant to
9 provide any substantive detail. To date, ICF has provided,
10 primarily provided stakeholders with only limited graphical
11 based results similar to those that the Commission has seen
12 today and general verbal and written discussions. Our decision
13 to draw attention to this issue is not motivated by sour
14 grapes. Quite the contrary. We are attempting to protect the
15 interest of our clients and the Florida ratepayers, and through
16 this process we hope to assist the Commission in making an
17 informed decision. Any independent review of the ICF study,
18 whether by us or by others, will require access to more
19 information than has currently been provided.

20 It should be noted that ICF has provided some useful
21 information and projections of modeled generating unit capacity
22 factors and RTO development and operating costs, although not
23 nearly in as much detail as we would have requested. We have
24 used this data along with other general information to develop
25 our findings presented here today. Based on our review, we

1 believe the study results are flawed. We find that benefits
2 are greatly understated and costs are overstated.

3 With regard to the quantitative benefits presented by
4 ICF, we have uncovered a significant bias in the model and the
5 reported results, which we will describe over the next three
6 slides.

7 ICF has established a base case model that produces
8 an overly efficient simulation of generation dispatch and
9 operating costs. The base case, the case from which all
10 incremental benefits are measured, produces model costs that
11 are significantly less than actual operating utility
12 operations. We have estimated the amount that the base case
13 underpredicts operating costs to be greater than \$2 billion
14 over the study period. Because this model calibration error is
15 many times larger than the benefits that ICF is reporting, the
16 reported benefits are unrealistic.

17 Another way to demonstrate the poor calibration of
18 the base case model is to compare model generating unit
19 capacity factors to actual history. ICF performed this study
20 for 2003. We looked at their projected results for 2004
21 compared to actual 2004 operations.

22 The chart in the Slide 4 demonstrates that there was
23 a significant serial bias in the way that generating units are
24 modeled. Contrary to the assertions made by ICF here today,
25 the low cost generating units have been modeled to have much

1 higher capacity factors than actual history indicates -- it's
2 not coming through very clear, but these are the items in the
3 top right-hand corner of the, of the graph -- while high cost
4 units have been modeled at much lower capacity factors than
5 actual history. The conclusion being that the simulation model
6 produces a base case dispatch that is too efficient, which
7 significantly understates RTO benefits. For clarification, if
8 the model was perfectly calibrated, model capacity factors
9 would lie along the vertical line on the chart -- diagonal
10 line. Excuse me.

11 ICF presented the results of its calibration analysis
12 at the October working group meeting. These results did show a
13 relatively good calibration of the model to history for 2003.
14 However, several changes were made to the model since the time
15 the calibration was performed, such as modeling of additional
16 generating units that were apparently missing from the
17 calibration, changes in hurdle rates, changes in losses and
18 wheeling, and changes in reliability-must-run units, to name a
19 few.

20 ICF has stated that they did not recalibrate the
21 model after making such changes, which has resulted in the
22 calibration error seen in the preceding exhibits. I will note
23 that ICF states that they have devoted significant effort to
24 developing a well benchmarked commitment hurdle. If this is
25 true, then significant increases in the dispatch hurdle rates

1 will be required to benchmark the study.

2 On the subject of hurdle rates, it is important for
3 the Commission to understand the significance of these
4 assumptions. First, all quantitative benefits produced by the
5 study are a direct result of the assumptions adopted for the
6 commitment and dispatch hurdle rates, which incorporate
7 pancaked wheeling charges. This issue is important enough to
8 reiterate: All quantitative benefits reported by ICF are
9 derived from the modeling of hurdle rates. Considering that
10 the quantitative results of this study depend so heavily on the
11 assumptions used for hurdle rates, it may be surprising for the
12 Commission to learn that hurdle rates are an artificial
13 modeling construct and no exact science exists for developing
14 these assumptions. Hurdle rates have only one purpose: To
15 introduce inefficiencies into a simulation model that otherwise
16 would produce results that are too efficient. And as we can
17 see from the preceding slides, the hurdle rates thus far
18 adopted by ICF were insufficient.

19 If the Commission will bear with me for a moment
20 longer, I'd like to expand the discussion of hurdle rates just
21 a bit further. Hurdle rates are artificial and cannot be
22 estimated or observed in actual utility practice. Instead,
23 they are a function of the data and algorithms of the
24 simulation model. As such, there is no such thing as a hurdle
25 rate that is too big or too small. A hurdle rate is whatever

1 it takes to cause the model, simulation model to produce the
2 benchmarked results.

3 However, benchmarking is not an exact science and
4 different analysts can profess similar accuracy, but produce
5 different study results. Hurdle rates are subject to the bias
6 of the analyst developing the assumptions. ICF in its response
7 to stakeholder comments admits itself that calibration is not a
8 perfect exercise.

9 Moreover, when more than one hurdle rate is modeled,
10 as was done for this study, being the dispatch and commitment
11 hurdles, there are an infinite number of possible solutions for
12 setting the relative weight that each hurdle rate contributes
13 to the analysis. This means that the apportioning of hurdle
14 rates between dispatch and commitment values and the
15 apportioning of different dispatching commitment hurdle rates
16 across the GridFlorida network is arbitrary. And as such,
17 Day 1 and Day 2 benefits cannot be reliably segregated. There
18 is no way to accurately determine what benefits are
19 attributable to a Day 1 market versus a Day 2 market. Perhaps
20 all potential benefits should be assigned to Day 1.

21 Furthermore, Day 2 benefits were modeled for this
22 study through the elimination of commitment hurdle rates, and,
23 as such, benefits that can be derived from more efficient
24 generation commitment are all assigned to Day 1 -- excuse me,
25 Day 2. However, improved access to transmission rights under a

1 Day 1 RTO should allow utilities to better manage both short-
2 and long-term firm transactions, which would result in more
3 efficient unit commitment decisions. These benefits are not
4 captured by the cost benefit model for the Day 1 analysis.

5 In their presentation today, ICF has stated that most
6 benefits of the RTO would be derived from changes in operation
7 of mid merit generating units. However, a review of statewide
8 generation diversity suggests that significant economic
9 opportunities exist throughout the entire supply stack and not
10 just for mid merit units.

11 Moreover, ICF's assertion that benefits are primarily
12 limited to changes in operation of mid merit units is further
13 evidence that the model is poorly benchmarked. Since low-cost
14 base loaded units have inaccurately been committed and
15 dispatched at levels approaching their maximum available
16 limits, few to no benefits remain to be extracted from these
17 units. In actual practice, these low-cost units are not fully
18 utilized, and potentially significant economic benefits can be
19 extracted through more efficient operation.

20 Our review of the data and general results presented
21 thus far indicates that several other crucial modeling
22 assumptions may be missing or have been overly simplified in
23 the model. While we recognize that simplifying assumptions are
24 a necessary evil when developing a generation simulation model,
25 our review indicates that many crucial assumptions may have

1 been omitted from the model. We have asked for corroborating
2 information from ICF regarding these issues, but our requests
3 have largely been ignored.

4 As previously mentioned, we have reviewed estimates
5 of RTO implementation and operating costs developed by ICF and
6 the applicants. Our review indicates that these estimates have
7 resulted in a significant overestimation of Day 1 costs. ICF
8 was tasked by the applicants to develop cost based on a
9 greenfield design, which does not leverage existing systems and
10 facilities. Further, the facility, systems and employee counts
11 developed by ICF and the applicants appear to represent a
12 Day 1 configuration that assumes transition ultimately to a Day
13 2 market. Given these factors, we estimate the Day 1 costs
14 could be at least 25 to 50 percent lower than the estimates
15 presented by ICF.

16 Given our concerns regarding the model and cost
17 estimates, we feel it is imperative to test the accuracy and
18 sensitivity of the cost benefit study to changes and
19 assumptions. As such, the stakeholders have requested that the
20 applicants direct ICF to evaluate certain sensitivity cases.
21 However, the applicants have generally refused to adopt the
22 recommended sensitivity cases. These cases include the
23 modeling of lower RTO costs through elimination of unnecessary
24 systems, facilities and staffing; higher fuel prices to more
25 accurately reflect recent and anticipated trends and to test

1 the sensitivity of the model to fuel price assumptions; and
2 recent changes in resource expansion plans for utilities in the
3 southeast to understand how sensitive the model and results are
4 to changes in resource plant.

5 So based on our findings, what can we conclude about
6 the quantitative analysis performed thus far? The base case is
7 too efficient, which has artificially lowered the modeled
8 benefits. The calibration error implicit in the model is
9 actually greater than the benefits being measured, which
10 renders the results of the model unusable. Cost estimates for
11 the Day 1 RTO are excessive and leveraging the existing systems
12 was not considered.

13 If the study cannot be relied upon, on what can the
14 Commission base its decisions today? As the Commission noted
15 in its December 2001 order, the Florida consumers are likely to
16 benefit from an RTO. Many of these benefits are difficult to
17 quantify and can only be defined in qualitative terms.
18 Qualitative benefits include an independent, consistent system
19 to compute ATC, improved access to transmission information and
20 services, elimination of pancaked charges, improvements in
21 generation operation, improved system reliability and planning
22 for transmission upgrades to reduce the costs of supplying
23 power to all Florida consumers. All of these benefits can be
24 obtained through the implementation of a Day 1 type market.

25 So what conclusions would we like the Commission to

1 take away from this presentation? First, the quantitative
2 study results presented to date do not provide information on
3 which, on which the Commission can base any decisions. Second,
4 when interpreting the study results, the Commission should
5 cautiously consider that benefits are principally derived from
6 two arbitrary modeling assumptions: Commitment and dispatch
7 hurdles. And, third, that qualitative benefits are
8 significant, and on their own are sufficient to support the
9 implementation of a Day 1 RTO.

10 I end my presentation today with the following
11 recommendations for the cost benefit study, should the
12 Commission and the applicants decide to proceed with the study
13 at this point.

14 ICF should remit all requested information to allow
15 for a comprehensive investigation of the study by stakeholders
16 and the Commission. ICF should work closely with the
17 stakeholders to recalibrate the base case prior to finalizing
18 the study or proceeding with any additional analysis. **And** ICF
19 should work with the stakeholders to develop and model the
20 recommended sensitivity cases. I would now be happy to
21 entertain any questions from the Commission.

22 CHAIRMAN BAEZ: Commissioners, questions of
23 Mr. Davis? No?

24 Mr. Davis, can you explain to me the recalibration
25 error? You, you cite to about two, it looks like \$2 billion.

MR. DAVIS: Correct.

2 CHAIRMAN BAEZ: Is that -- now where would you apply
3 that -- I guess that has one, that has costs, some costs going
4 up. And can you walk me through the effect that that has, if
5 it were to be corrected?

6 MR. DAVIS: Sure. And what we were trying, what we
7 were trying to do there, it's actually derivative of the
8 information that's presented on the next slide, on Slide 4.

9 What we see here is effectively that base case or
10 base loaded type resources are operating much too efficiently
11 at much too high of a capacity factor, while -- and this is
12 under the base case scenario -- while peaking type resources or
13 high cost units are operating at too low of a level compared to
14 actual history.

15 So what we're attempting to do here is say if these
16 units had operated more as they had in actual history, what
17 would be the difference in the results for the base case? And
18 what we've identified is on an annual basis about \$260 million,
19 the cost would be increased in Florida if the model had
20 captured this effect. So what we've done is capture that
21 \$260 million estimated over the entire ten-year study period to
22 figure out implicitly in the model what the error is that's
23 currently being modeled, and to also demonstrate in the
24 previous slide how that calibration error compares to the
25 actual benefits being computed, demonstrating that the

1 calibration error is much larger than the benefits that are
2 being calculated.

3 CHAIRMAN BAEZ: If, if -- and I thought I heard ICF
4 say that they had used actual capacity factors.

5 MR. DAVIS: For 2003, that's correct.

6 CHAIRMAN BAEZ: Which is what, which is what would
7 establish this, this calibration.

8 MR. DAVIS: That's what would have established their
9 original calibration, correct, as reported by them in 2003.

10 CHAIRMAN BAEZ: So then where, where is it, where is
11 it that the error occurs? If they're using, if they're using
12 actual data, how do you -- if it is actual, in fact, how do you
13 say, well, all of the sudden the base case is not realistic if
14 actual data is being used?

15 MR. DAVIS: A couple of different things. Because
16 the 2003 information had already been calibrated and it was
17 only run for the calibration case, there was no actual
18 rerunning of that calibration information once the model was
19 finalized, we had to review 2004 for the purposes of our
20 evaluation to investigate how well the model was being
21 calibrated currently after many changes to the model.

22 What you'll see in Slide Number 5 is our estimation
23 of what changes occurred to the model after the point in time
24 that ICF finalized their calibration to the point in time that
25 they actually ran the final base case. These are all changes

1 that would affect the underlying goodness of fit (phonetic) or
2 the calibration of the model, which, based upon information and
3 statements made by ICF, have not been adjusted for or the model
4 has not been recalibrated to take these into account.

5 CHAIRMAN BAEZ: Okay. Thank you.

6 MR. ROSE: Even though we're out of order, if at some
7 point you could allow us to respond to this, we'd appreciate
8 that.

9 CHAIRMAN BAEZ: You know, Mr. Rose, at the risk of --
10 I don't mean to shut you down, and that really isn't my intent,
11 but I think in order to keep it moving -- and I mean no
12 disrespect to either you or Mr. Davis. I want to try and keep
13 the dueling consultants at a, at a minimum, keep the
14 information flowing this way. And I hope, I hope you
15 understand. We're trying to take everything into
16 consideration, and I do appreciate your desire to defend it, to
17 defend your, your process. But if we get, if we get into this
18 back and forth, then it's going to become very unmanageable.
19 And I'm already a bad enough manager as it is.

20 MR. ROSE: I understand that.

21 CHAIRMAN BAEZ: I'll let you, I'll let you have a
22 minute to respond.

23 MR. ROSE: Okay. Okay. If you could just flip your
24 looseleaf notebook to Exhibit 5, Page 68 and 69, where we show
25 our calibration results, have an R squared of .99. That is

1 99 percent out of 100. I do think it's worth recognizing that
2 our calibration is quite good.

3 MR. OFORI-ATTA: What is important to recognize is
4 that consultants are very smart and sometimes the information
5 they present can be misleading.

6 If you look at my colleague Bob Davis's presentation,
7 he's looking at 2004, what we projected, versus 2004 actual in
8 the market. What we calibrated, just to clarify, was 2003
9 actual is what we used. What he's comparing -- we all know
10 what 2004 was like in Florida. We can count the number of
11 hurricanes, we can count the number of unit outages. In our
12 model maybe for the unit in actual 2004 -- we didn't calibrate
13 to 2004. In 2004 if a unit was out -- and many units were out
14 because of the hurricanes for a significant period of time. We
15 ran a modeling that -- we were modeling a projected unit, you
16 know, maybe modeling two weeks' outage for 2004. So I want to
17 just make sure that everybody is understanding the information
18 that has been presented by R. W. Beck on behalf of Seminole and
19 FMPA.

20 CHAIRMAN BAEZ: Your point, your point being that the
21 reason 2004 data wasn't used to, as, as part of the model or as
22 part of correcting the model is because 2004 could have
23 arguably fallen into an extraordinary year category.

24 MR. OFORI-ATTA: That's correct.

25 CHAIRMAN BAEZ: All right. And let me stop you right

1 there. Otherwise, we're -- Mr. Davis, take what was said and
2 --

3 MR. DAVIS: I would in general agree it was an
4 extraordinary year. Unfortunately, that's the only data we
5 really have to compare to for performing this evaluation. It's
6 obvious that, based upon statements made by ICF that
7 recalibration was never performed after many fundamental
8 changes were made to the model. So we were left with a very,
9 not only limited information, but also an improper year perhaps
10 to evaluate.

11 But if you look at Slide Number 4, what I think
12 you'll find is this isn't just a few units. This is a
13 pervasive issue. Most base load units are operating --

14 CHAIRMAN BAEZ: Mr. Davis, let me stop you. You're
15 pointing to a slide and now all of the sudden I have three
16 presentations. So which slide, which slide are we talking
17 about?

18 MR. DAVIS: It's Slide Number 4.

19 CHAIRMAN BAEZ: Your Slide Number 4. All right.

20 MR. DAVIS: My Slide Number 4. Yes.

21 CHAIRMAN BAEZ: Okay.

22 MR. DAVIS: This really isn't just a handful of
23 units. It really is a pervasive condition. And it also
24 indicates a very serial bias condition where base load units
25 are operating in one fashion, high cost units are mid-level and

1 peaking units are operating in another fashion.

2 So I would suggest that the argument that 2004 is an
3 improper year, while it contains some merit, is not an
4 explanatory statement for what we're seeing in the model.

5 CHAIRMAN BAEZ: Thank you. Commissioners, any other
6 questions of Mr. Davis? All right.

7 Next -- I've lost my agenda. Ms. Bass, can you --

8 MS. BASS: Yes. Bob Williams will be speaking on
9 behalf of FMPA.

10 CHAIRMAN BAEZ: Thank you.

11 MR. WILLIAMS: Good morning, Commissioners. I had
12 already changed mine -- since you said we were going to do two
13 people, I had changed mine to good afternoon. But -- well, it
14 is good afternoon.

15 My name is Robert Williams, and I'm here representing
16 FMPA and our positions on this. FMPA fully, is fully behind
17 and agrees with the comments that Bud Miller made, and we
18 support the concerns, of course, that our joint consultant, Bob
19 Davis, has just completed.

20 We continue to think that Florida consumers would
21 benefit from a basic RTO that independently performs RTO
22 functions such as nondiscriminatory transmission access,
23 elimination of pancaked rates and centralized planning and
24 expansion.

25 As Mr. Miller noted, these, these are benefits this

1 Commission has already found to exist in the 2001 order and
2 which were not quantified in the ICF study. As FMPA and
3 Seminole noted in our July 14th follow-up comments to the
4 June 30 workshop, it was reiterated.

5 The study results should come as no surprise given
6 its design flaws, as Mr. Davis pointed out. Thus, the study
7 results do not detract from the FPSC's finding that a basic RTO
8 would yield significant benefits for Florida consumers and
9 should not discourage the Commission from pressing forward on a
10 course towards implementing a basic RTO.

11 If the FPSC were to proceed in this direction, it
12 should clearly restrict the RTO by charter and express order
13 pursuant to grid bill authority from getting into a
14 Day 2 market function. Some in this room, of course, will
15 disagree with that, but we would prefer not to have a Day 2.
16 And the reason is the cost of a Day 2 market and the market
17 power problems.

18 But as the agenda requested in this workshop, we have
19 given thought to what measures, if any, this Commission should
20 consider implementing in lieu of an RTO that would allow
21 utilities to capture benefits resulting from a coordinated
22 transmission system.

23 First, let's dispose of "if any." Given this
24 Commission's past findings, doing nothing is not an option in
25 our opinion. At a minimum, the Commission must push forward to

1 accomplish the key objectives identified in its orders
2 regardless of the organization form. And we're open to any
3 organization form that we can work out.

4 As Mr. Miller highlighted, the Commission's
5 December 2001 order found based on record evidence that Florida
6 consumers would benefit in the form of improved wholesale
7 competition and lowered transmission and generation rates from
8 the numerous benefits of an RTO. A few -- not to try to
9 duplicate what Mr. Miller said; some of it's duplication.
10 Encouraging competition among wholesale generators by removing
11 transmission access impediments and restrictions, potentially
12 improve the current peninsular Florida transmission grid. The
13 record indicates that additional operational efficiencies among
14 utilities in the consolidation of planning and maintenance can
15 be achieved by participation in GridFlorida. Eliminate
16 pancaked rates, improve regional reliability and more efficient
17 allocation of transmission capacity, improved emergency
18 response, more efficient treatment of loop flows, and capturing
19 the benefits associated with integrated transmission planning,
20 operations and pricing.

21 Achieving these benefits without the basic RTO
22 structure may be challenging, but we see avenues for capturing
23 at least a significant portion of these benefits.

24 Integrated transmission planning. Build on the
25 FRCC's newly adopted transmission planning process, develop a

1 mechanism that comes closer to RTO planning protocols and has
2 the teeth to ensure that upgrades will save Florida consumers
3 money are made whether they are deemed reliability or economic
4 upgrades.

5 The FRCC process is a coordinated planning process,
6 not the single system planning process that was envisioned in
7 the GridFlorida planning protocols and which the Commission
8 found to be beneficial. For example, it is not clear that the
9 FRCC process will evaluate the cost-effectiveness on a
10 peninsula-wide basis of measures that would provide greater
11 access to lower cost supplies in Georgia by expanding the
12 Georgia ties or applying new technologies to existing ties.

13 Even if the planning process identifies that joint
14 upgrade with shared costs is more efficient in terms of both
15 dollars and impact than two separate ones, the FRCC process
16 provides no mechanism to force that to occur.

17 The process is largely toothless with the possible
18 exception of a situation where an upgrade is required to meet
19 reliability purposes. But even PJM conceded in recent
20 testimony, and PJM is one of the leading RTOs in the country,
21 that the focus on reliability upgrades is leading to a
22 minimalist grid, not the robust grid required to support
23 competition that the federal policy as well as this Commission
24 envisions. Thus, a mechanism needs to be in place that ensures
25 that cost-effective upgrades get made even if they go beyond

1 the bare minimum required to keep the lights on.

2 Along with that comes the responsibility of
3 integrated transmission pricing. And to be effective, a more
4 robust planning process should be accompanied by mechanisms to
5 share the cost with broad benefits beyond the local
6 transmission system in a fair and equitable manner.

7 GridFlorida had a region-wide cost allocation for all
8 new upgrades. We can debate whether that is the right answer
9 or whether the region-wide cost allocation is required for only
10 upgrades that meet certain criteria or whether joint ownership
11 or consortium ownership, another item suggested by PJM at the
12 FERC technical conference, can be a useful tool.

13 However, a highly integrated system like Florida, it
14 does not make sense to always place the full cost
15 responsibility on the system where the upgrade is made, nor is
16 participant funding the answer.

17 In the March 2004 pricing workshop applicants
18 proposed to restrict participant funding to limited
19 circumstances; that is, upgrades for generators wheeled out of
20 Florida or without a contract to serve load in Florida. And
21 there seemed to be general agreement that participant funding
22 should not be applied in a more broad manner in the state.

23 Elimination of pancaked rates in an RTO structure is
24 not a prerequisite for eliminating pancaked rates and the
25 resulting barriers to competitive markets and impediments to

1 efficient generation planning. Various concepts can be
2 explored such as joint rates to reduce balkanization within our
3 isolated peninsula.

4 In short, we believe the right answer remains in a
5 basic RTO. But even if the Commission does not want to take
6 that step, it should not close this docket. Instead, it should
7 set a course toward achieving at least a substantial part of
8 the benefits of a basic RTO through other measures. As a
9 follow-up to this conference, participants should be asked to
10 comment on the appropriate steps, and at a minimum the
11 Commission should establish a collaborative process with a work
12 plan and defined goals and time lines to see if we can make
13 progress in reducing costs and enhancing reliability for all
14 Florida ratepayers.

15 That's my comments. Thank you.

16 CHAIRMAN BAEZ: Questions, Commissioners?
17 Commissioner Deason.

18 COMMISSIONER DEASON: I just don't know how to take
19 your very last, your very last statement there. Are you
20 receding from the fact that there should be an RTO, that there
21 should just be a collaborative to try to discuss how to derive
22 efficiencies outside of an RTO?

23 MR. WILLIAMS: We're open to the potential that if
24 the Commission doesn't want to -- we would prefer a basic RTO.
25 We agree with Seminole that a Day 1 type RTO is what we ought

1 to do. But if we can't do that, we're open to trying to do the
2 best we can to get as close as we can to that idea, get as many
3 of the benefits of that element as we can.

4 COMMISSIONER DEASON: Okay.

5 CHAIRMAN BAEZ: Thank you.

6 MS. BASS: Okay. Our next speaker is with Calpine.
7 Joe Regnery.

8 MR. REGNERY: Good morning, Commissioners. My name
9 is Joe Regnery. I'm here representing Calpine and our
10 associated affiliates. I have the pleasure of speaking on
11 behalf of the stakeholder groups that are the independent
12 generators, as well as the power marketers. I get to be
13 blessed to speak on two stakeholder groups this morning.

14 To begin with, Calpine Corporation has participated
15 in this RTO development since, since 2000, and we, we would
16 like to discuss some general comments associated with the ICF
17 study and the results that have come out. We, as Calpine,
18 would be asking this Commission not to make a go or no-go
19 decision on GridFlorida based on what we perceive to be an
20 underdeveloped benefit assessment and an unnecessarily high
21 cost structure modeled by ICF. Instead, we'd ask that the
22 Commission seek more data from ICF in the form of a revised
23 model and additional sensitivities that address the issues in
24 our specific comments.

25 The specific comments I'd like to address are with

1 regard to the benefit study process and results and then on to
2 the cost study process and results. I'll start with the
3 benefit study.

4 Specifically, we would like there to be a sensitivity
5 around -- to be run without hurdle rates. And when I speak
6 with hurdle rates, I speak specifically with certain hurdle
7 rates, certain commitment hurdle rates for import capacity from
8 Georgia. The rationale for that concept of hurdle rates is to,
9 is to artificially create inefficiencies in the model as had
10 been discussed so that the model can reflect behaviors that
11 financial mathematical constructs of the model cannot capture.
12 These unexplainable behaviors have historically gone away or
13 been significantly reduced as transparency comes to the market,
14 and the range of benefits should be reflected. And we'd like
15 there to be sensitivities associated with hurdle rates to
16 capture that. And, in particular, we speak to the hurdle rates
17 associated with the commitment for import capacity from
18 Georgia.

19 The next point associated with the, the RTO benefits
20 side is the modeling of qualitative RTO benefits.
21 Sensitivities regarding the beneficial impacts of qualitative
22 benefits should be performed. The rationale would be all
23 parties have expressed and acknowledged the qualitative
24 benefits of the RTO. **People have expressed the inability** to in
25 a way capture those in a quantitative manner. **However,**

1 attempts to quantify these significant benefits -- and during
2 the course of the stakeholder process we raised the idea of
3 taking a probabilistic sensitivity approach to quantifying
4 these, these qualitative benefits. Our requests were not, were
5 not, were not responded to. And we would ask that given
6 further that these qualitative benefits do average the lower
7 cost of power on a cents per kWh basis, that ICF should be
8 directed to reflect these benefits probabilistically in
9 sensitivities that capture a fraction of a cent reductions in
10 average cost of power.

11 We have taken the effort to try and analyze the
12 capacity results and the impacts associated with the capacity
13 results on the benefits side, and we have come to an initial
14 conclusion, which we would like the, the experts to seek and to
15 model would be the sensitivities associated with reducing on a
16 fractional basis, on a cents per kilowatt hour basis the
17 results.

18 We have found that by going -- by having an impact of
19 simply reducing the cost of power on a cents per kWh basis by
20 less than five-tenths of a cent, five-tenths of a cent on a kWh
21 basis in our initial evaluation would show that it would bring
22 the cost benefit analysis from a negative position from a cost
23 benefit basis to a neutral position from a cost benefit basis.
24 And so we'd like to see these sensitivities run.

25 The, the -- one of the significant impacts of that

1 is, was a question that was asked this morning by Commissioner
2 Deason, and it stems from the aspect of long-term forward
3 contracts and biliteral contracts and the transparency
4 associated with those being qualitatively reflected rather than
5 quantitatively reflected.

6 Being that Florida is structured around the Power
7 Plant Siting Act for the expansion of new generation, often all
8 of the new generation that is added is added based upon
9 bilateral contracts, particularly in the context of IPPs as we
10 cannot build new generation unless we are doing it on a, on a
11 long-term forward basis to facilitate the demonstration of
12 need. And so to the extent there's transparency improvement
13 associated with going to an RTO, we feel that a significant
14 portion of the benefits will be reflected in the long-term
15 forward contract market as that is one of -- that is, for us,
16 the primary market within which we participate.

17 The next would be the modeling of announced coal
18 projects. We feel that there has been a model step change in
19 the way the ten-year site plans have aligned with respect to
20 fuel diversity in this state, and the current ICF study does
21 not reflect that. It reflects in its base case the 2003
22 numbers as the base and then the 2004 Ten-Year Site Plan's --
23 Ten-Year Site Plan announcements as the expansion plan.

24 But given that there have been a number of changes to
25 that expansion plan in the 2005 Ten-Year Site Plans that

1 incorporate the increase of solid fuel facilities, that there
2 should be a revision to the model to reflect the announced
3 number of solid fuel facilities.

4 Also we have recognized that there has been an
5 elimination of a significant amount of coal by wire import
6 under the UPS agreements that Florida Power & Light has as well
7 as Progress Energy has, and these also are not reflected in the
8 UPS study. They are continuing to reflect imports from the
9 Miller Coal Unit that will not exist after 2010. And so we
10 would ask that these, these adjustments be made to the base
11 model to be more reflective of what everyone is currently
12 planning as the, as the market structure.

13 The rationale for it again is that the announcements
14 of solid fuel facilities, revisions to the UPS agreements, the
15 support that this Commission has, has given to increase of
16 solid fuel facilities in the state as well as on an import
17 capacity and the major positive financial impact that such
18 facilities have on variable energy. This model is testing
19 variable energy. And when you change the fuel mix from what is
20 a base load capacity product from an intermediate capacity
21 product, you can see significant swings from our estimation
22 associated with the benefits and costs.

23 The other -- one of the other aspects of the study
24 that we would like to have reanalyzed from a sensitivity
25 perspective as well as a model improvement perspective is that

1 of the term of the analysis the benefits of the RTO are
2 long-term. They stem with a generation expectancy as well as a
3 transmission expansion expectancy; whereas, generation plants
4 range in 30-year life cycles and transmission, transmission
5 wires range in very similar life cycles or even greater. And
6 yet we are looking at a test study period that only examines a
7 period of 13 years.

8 Our rationale is that they should be extended. We
9 should go out to a period that, that exceeds 20 years or longer
10 to really analyze whether or not there should be a go or no-go
11 decision associated with the cost benefits of a GridFlorida
12 RTO.

13 We feel that in this scenario, if you go to a 20-year
14 or longer life cycle or study period, the benefits would
15 continue to accrue well beyond the study period and they would
16 far outweigh the costs.

17 Our specific comments with respect to the cost side
18 of the GridFlorida RTO center around the greenfield RTO nature.
19 A sensitivity reflecting the benefits of a brownfield RTO would
20 be more economically efficient. Our rationale is that a
21 greenfield RTO is economically irresponsible given the
22 significant infrastructure that is available and the lessons
23 that have been learned by other RTOs.

24 We have, we have 11 control areas that are
25 represented here today. Many of them are already operating the

1 infrastructure EMS systems that we're talking about embedding
2 in this greenfield RTO. Many of them have what would
3 constitute redundant employees if we were to go forward with
4 this RTO. We feel that there either has to be a net
5 recognition of the reduction of systems and staff at the
6 utility level on a cost benefit analysis basis for the full
7 impact of the RTO to be captured, or that those same
8 infrastructure and staff be utilized as a supportive role to
9 the RTO so that we do not have to go to an oversized or
10 overredundant RTO system.

11 ICF can meet the applicants and stakeholders to
12 establish a more cost-effective structure using a brownfield
13 RTO that capitalizes on existing infrastructure and personnel
14 rather than duplicating them while still maintaining
15 independence.

16 The next aspect that we feel has to be addressed in
17 the overall model, if there is going to be revisions to the
18 model, and any sensitivities that are done on the model reflect
19 capital recovery. Capital recovery should reflect a ten-year
20 capital recovery term, as suggested by the FERC representative.
21 It currently is reflecting a five-year recovery term.

22 Capital recovery term has a significant impact on the
23 model results and conclusions. Extending the term for capital
24 recovery is a quick model input change that can provide useful
25 information regarding the model results.

1 The FERC representative previously suggested this
2 change at our, at our April 2005 stakeholder meeting, and we
3 would support that analysis being done on a sensitivity basis.

4 The next aspect would be the recapitalization
5 assumptions. We would ask that a sensitivity reflecting a
6 reduced recapitalization amount be performed. Our rationale
7 for that is that recapitalization amounts and associated
8 interests appear to us to be excessive. Providing a
9 sensitivity regarding the amount of recapitalized equipment
10 would provide a useful information regarding the model results.
11 We think that is something that should be looked at.

12 The next aspect of the, the cost associated was
13 addressed by, again by Commissioner Deason in his early, in his
14 questions earlier this morning, and that is the elimination of
15 Day 0 costs. The model and any sensitivity should reflect the
16 elimination of Day 0 costs. Rationale: These are sunk
17 investigation and development costs. They exist whether or not
18 the RTO goes forward and should not be included.

19 In summary, Calpine continues to strongly support
20 GridFlorida as an RTO and recommends that the Commission not
21 decide on the prudence of GridFlorida until ICF revises its
22 model and runs the additional sensitivities that we have
23 outlined in our specific comments. I would, I would like to
24 once again reiterate that I do believe that ICF has done an
25 extremely, extremely good job in trying to model what is a very

1 complex system. I do believe that there are some fundamental
2 flaws in the assumptions, and most of our comments here today
3 go to sensitivities around the assumptions. Thank you.

4 CHAIRMAN BAEZ: Commissioners, questions of
5 Mr. Regnery?

6 Mr. Regnery, you, you've also raised the idea of a
7 brownfield alternative. And if I can steal something that -- I
8 don't want to put words in Mr. Williams' mouth, but he, he
9 spoke a lot about whatever the adequacy or the inadequacy of
10 the FRCC process is right now. In your concept of a brownfield
11 alternative, does -- how does -- how would the FRCC, whatever
12 exists now or whatever could be changed, how would that figure
13 into your, your, your concept of a brownfield alternative?

14 MR. REGNERY: I haven't given it much thought, to be
15 perfectly honest. But I can, I can, I can try and give my
16 off-of-the-cuff comments.

17 I am very impressed with what has transpired lately
18 with Mr. Wiley and the FRCC and his efforts to establish the
19 Transmission Planning Committee. I think that is a, that is a
20 step improvement from where we once were. I do believe it has
21 a long way to go. I believe they are adding permanent staff to
22 support those efforts. But the focus of FRCC being a
23 reliability focus and the focus of an RTO being an economic
24 focus, they don't necessarily coincide; they overlap, but they
25 don't necessarily coincide. So I believe from my perspective I

1 would see the FRCC's role as a support role to the planning
2 group at the, at the, at the GridFlorida RTO level, and I
3 believe as far as efforts to consolidate the overall ten-year
4 site plans and the transmission expansion plans that are being
5 conducted at the FRCC level in an effort to make conclusions
6 associated with reliability, that presents a great deal of
7 positive input that goes into the RTO's planning efforts
8 associated with planning it from an economic basis. Knowing
9 the fundamental basis of the reliability needs only allows you
10 to, to build an even better robust system from an economic
11 basis. And so I think it's a, I think it is a parallel, but a
12 very much supportive and needed role associated with FRCC.
13 And, again, I am complimentary to the steps that have gone on
14 to date and recently.

15 CHAIRMAN BAEZ: Thank you. Commissioners, any other
16 questions?

17 Thank you, Mr. Regnery.

18 MR. REGNERY: Thank you.

19 CHAIRMAN BAEZ: We are -- it's about 12:45, and I
20 think now is probably a good time to break for lunch. We're
21 going to do it for about 45 minutes and come back and reconvene
22 at 1:30, where we'll continue our presentations. Thank you.

23 (Lunch recess.)

24 CHAIRMAN BAEZ: Go back on the record. And I see
25 here where we left off with JEA.

1 MS. BASS: That's correct.

2 CHAIRMAN BAEZ: Mr. Para.

3 MR. PARA: Bud Para with JEA. JEA feels that ICF has
4 made reasonable assumptions and has created a reasonable model
5 for the GridFlorida cost benefit study. We've been working on
6 the study for a year now, and ICF has been very open to our
7 comments and our suggestions. They haven't taken all of our
8 suggestions, but they've been very open to hearing them. We've
9 had lots of meetings with ICF, and that's one of the reasons
10 why it's taken us so long and why this study is going to cost
11 us so much.

12 The stakeholders and applicants have made suggested
13 changes to the assumptions in the model, and even where those
14 are also reasonable, we don't think that they would change the
15 result. The result being that GridFlorida's costs will exceed
16 the benefits. And that's easy to see on ICF's last slide where
17 it shows a ten-to-one cost over benefits ratio for Day 1 and a
18 three-to-two cost over benefits ratio in Day 2. And on -- if
19 you look at the graph, the line never starts coming up, back up
20 towards zero. We're losing money as we go on through Day 2.
21 If I read that graph, those graphs correctly, it looks to me
22 like we would spend a total of about \$2 billion in cost in
23 order to gain about \$1 billion in benefits. And the costs are
24 much more certain and they're front-loaded than the benefits.

25 There was some discussion about the qualitative

1 benefits and risks, and I would suggest that they're as likely
2 to be, they're as likely to result in additional net cost as
3 they are to result in additional net benefits. And one example
4 I would give on that is on ICF's Slide Number 50 where they
5 show the, for each of the RTOs, existing RTOs they showed their
6 employee counts by year. And there you'll notice that for
7 every RTO in every year the employee count goes up. None of
8 them have flattened out. I think what we see there is that
9 it's very difficult to control the cost of an RTO, and we don't
10 know yet how much they're going to cost. The result, the costs
11 are exceeding benefits and an RTO is just not right for
12 Florida, at least not today.

13 JEA believes as we go forward that it would be
14 worthwhile for the Commission to encourage the stakeholders,
15 including the GridFlorida applicants, to get together to
16 identify any significant problems with the provision of
17 transmission service in Florida and to investigate alternative
18 ideas to improve the transmission system.

19 For example, as has been mentioned already, the
20 FRCC's transmission, coordinated transmission planning
21 initiative, that is one example of how we can work together to
22 improve the transmission in Florida without incurring the
23 substantial cost of an RTO. And that ends my comments.

24 CHAIRMAN BAEZ: Questions of Mr. Para?

25 COMMISSIONER DEASON: I have a question. You made

1 reference to, I believe it was Page 56 of the ICF presentation;
2 is that correct?

3 MR. PARA: Reference to the last slide where they
4 show the total costs and benefits.

5 COMMISSIONER DEASON: Yeah. I think you made the
6 reference that if, that if you -- that you interpret that to
7 mean that there's going to be some \$2 billion in costs and
8 about \$1 billion in benefits for a two-to-one ratio. Is
9 that -- did I understand you correctly?

10 MR. PARA: Yes, sir.

11 COMMISSIONER DEASON: Maybe we need clarification
12 because I didn't understand it that way.

13 MR. PARA: Well, I could be wrong. I see a roughly
14 \$775 million in costs for Day 1 and a little over \$1.2 billion
15 for costs in Day 2.

16 COMMISSIONER DEASON: And I may be wrong, but the way
17 I interpreted it was that the Day 2 costs included the
18 Day 1 and they were cumulative and it was a net present value.
19 So it wouldn't be a two-to-one ratio. It would be a ratio of
20 whatever \$1.25 billion is to \$968 million, whatever that ratio
21 is, but not two-to-one. Now I may be misinterpreting.

22 MR. PARA: I could be wrong. Could we ask --

23 MR. ROSE: The judges rule on behalf of Commissioner
24 Deason.

25 COMMISSIONER DEASON: That's always wise.

1 (Laughter.)

2 MR. PARA: That is wise.

3 So the, so the total cost through -- I took those to
4 be incremental costs and benefits.

5 MR. McCARTHY: No. The total cost for the 1.25
6 included Day 0, Day 1 and Day 2.

7 MR. PARA: I stand corrected. The benefits will
8 recover right about two-thirds of the cost. Still a bad deal.
9 Thank you.

10 CHAIRMAN BAEZ: Other questions for Mr. Para? Thank
11 you, sir.

12 MS. BASS: Okay. Our next speaker is representing
13 the Florida Municipal Group, Mr. Gary Brinkworth. And he's
14 down here at the end of this table.

15 MR. BRINKWORTH: Mr. Chairman, members of the
16 Commission, my name is Gary Brinkworth. I'm the Manager of
17 Strategic Planning for the City of Tallahassee's electric
18 utility. I'm appearing today on behalf of the Florida
19 Municipal Group or FMG, an ad hoc advocacy group formed by
20 Gainesville Regional Utilities, the Kissimmee Utility
21 Authority, Lakeland Electric and the City of Tallahassee to
22 better coordinate our participation in these GridFlorida
23 proceedings.

24 In reviewing the results of the cost benefit analysis
25 for GridFlorida, ICF appears to have studied what it was

1 commissioned to study. There was no directive that it look at
2 a brownfield RTO. The results of ICF's study speak for
3 themselves, considering the significant gap between the costs
4 and benefits contained in the study. The FMG is hard-pressed
5 to see how GridFlorida could become cost-effective either in
6 Day 1 or Day 2 mode. This result is not inconsistent with that
7 reached in the SEARUC study in 2003. In that study, SEARUC's
8 consultants determined that in the absence of a participant
9 funding mandate, a regional RTO in the southeastern US would
10 not be cost-effective.

11 Some of the stakeholders in this proceeding have
12 suggested that ICF rerun the cost benefit study in such a
13 manner as to ensure the costs of a Florida RTO come in below
14 the projected benefits. The FMG does not support additional
15 studies based on other assumptions that may or may not
16 demonstrate there is value in formation of an RTO. Instead, we
17 recommend that the Commission accept the results of the ICF
18 study and close this docket, and then direct the applicants and
19 stakeholders to undertake any evaluation of other actions that
20 could be implemented short of formation of an RTO that would
21 result in real cost savings for Florida's electric consumers.

22 There are, we believe, some structural alternatives
23 to an RTO that may work for Florida. One possibility is the
24 use of an independent coordinator of transmission or ICT. This
25 concept is being explored at the FERC in an Entergy case,

1 Docket Number EL05-52. Other public utilities have announced
2 that they are considering a similar approach.

3 Another possibility for realizing competitive
4 benefits in Florida would be the reactivation of something like
5 the old Florida broker system, perhaps on a basis that permits
6 bid-based power supply sharing subject to some kind of cap.

7 RTOs are intended in part to foster the development
8 of competitive energy markets. The FMG believes there are a
9 number of actions that would be required before Florida was
10 truly a competitive market, only some of which could be
11 addressed by the formation of an RTO in the state. Based on
12 the results of the ICF study, it's questionable that an RTO
13 would facilitate an energy market in Florida that offers cost
14 savings to all electric customers. Instead of continuing the
15 pursuit of GridFlorida, FMG believes participants should
16 concentrate on pursuit of those changes in power supply markets
17 and planning practices that could be implemented for the
18 benefit of all our customers. And that concludes my remarks.

19 CHAIRMAN BAEZ: Thank you, Mr. Brinkworth.
20 Commissioners, questions of Mr. Brinkworth? Thank you, sir.

21 MS. BASS: Our next presenter is representing the
22 Florida Industrial Power Users Group, Mr. John McWhirter, and
23 he's at the other end.

24 CHAIRMAN BAEZ: You know, I'm going to start feeling
25 it. Somebody's got to pay.

1 (Laughter.)

2 CHAIRMAN BAEZ: Mr. McWhirter.

3 MR. McWHIRTER: I didn't hear that, Mr. Chairman.

4 CHAIRMAN BAEZ: No, I wasn't talking about you,
5 Mr. McWhirter. The whiplash. The whiplash.

6 MR. McWHIRTER: I have specific instructions from my
7 client to come here today and not offend anybody as I normally
8 do, and I'm going to try very hard to do that. And it's not
9 going to be very hard because I want to compliment this
10 Commission and especially ICF for its hard work and all the
11 other stakeholders that have put in time and energy on this
12 project.

13 When the Commission first became interested in
14 studying the RTO concept, it designated, I believe,
15 11 stakeholders. Nine of them were utility representatives and
16 the other two were consumer representatives, the Public Counsel
17 and FIPUG. And the theory -- the Public Counsel took the
18 position early on that this was a FERC matter and not a Public
19 Service Commission issue and kind of held back. FIPUG didn't
20 have a significant budget, although we recognized that
21 consumers in Florida are the trickle down beneficiaries, to use
22 a Reaganism, of the RTO. And the concept of an independent
23 system operation giving numerous suppliers that can provide
24 more efficient generation to the market in a competitive market
25 place is very appealing to my clients. And we followed,

1 although not in great detail, we followed with interest the
2 work of the stakeholders. And I want to compliment not only
3 the work of the stakeholders but the work of this Commission
4 over the years in what it's done in connection with the grid.

5 And somebody accused me early today of going to give
6 you some history, and I guess I will. Essentially, as the last
7 speaker pointed out, we had the Florida cap broker system. And
8 the Florida broker system arose out of the concept that oil and
9 gas had become extremely expensive. Florida had the good
10 fortune of having some coal burning generation and some nuclear
11 generation. And this Commission opined that if you could get
12 the less expensive generating power from that source with the
13 low cost fuel to the utility that had high cost fuel and
14 displaced those generators with lower cost, there would be a
15 benefit to consumers. And you set up the broker system and
16 there was a sharing of revenue, and it was essentially a
17 brownfield system that's not too dissimilar from the
18 Day 1 operation that's proposed by the ICF study. And that
19 worked extremely well.

20 Later congressional interests for the same reasons
21 that came about to get the best utilization of generating
22 facilities, Congress and FERC followed up with a concept to
23 encourage independent suppliers, and so independent providers
24 and wholesale marketers and QFs were encouraged. And,
25 amazingly, those people came in and they provided power that

1 had a heat rate of some 30 percent less than the existing
2 generation. And there was a strong need to get that power into
3 the system. But FERC recognized, Mr. Naeve will probably tell
4 you more about this as he goes into his presentation, FERC
5 recognized that that power was not getting to the end users.
6 And so what it did in a series of orders culminating in Order
7 Number 2000 concluded that they had to have open access and
8 simultaneous information system. I think that's what that
9 acronym means. Open access, meaning everybody could get on the
10 power grid, and system information, which is the key thing that
11 I'm going to talk about a little bit more later, people know
12 what the cost of electricity is so they can have access to the
13 cheapest power and let it flow. But it didn't flow as rapidly
14 as it should have, and FERC came out with Order 2000, which
15 directed that the utilities go forward with regional
16 independent system operator programs, regional transmission
17 organizations, and this Commission promptly followed suit.

18 You had concern though that when these new el cheapo
19 power plants came online that we would have stranded investment
20 of existing utilities. And as a result, you were very
21 sensitive to the fact that Florida may have stranded
22 investment, and you provided benefit number two to consumers.
23 Without increasing base rates, you directed that the utilities
24 accelerate the depreciation of some of their units that were
25 likely candidates to fall by the wayside in the merchant

1 market. And as a result of that has recently come to light in
2 that we find that Florida Power & Light has depreciated its
3 system \$1.5 billion more than it says it really needed to, and
4 Florida Progress, some \$600 million more. So the rate bases of
5 these utilities has gone down as a result of that secondary
6 benefit you provided by providing a stranded investment quick
7 write down. And we consumers applaud you for what that's done
8 to the utility rate bases in Florida.

9 The third benefit arose when the original GridFlorida
10 applicants determined that they would form GridFlorida and they
11 would have the utilities convey all of their transmission
12 assets to GridFlorida and take back an equity position in
13 GridFlorida. This Commission studied that proposal, recognized
14 that the rate regulation would move from Florida to Washington,
15 DC, for the transmission aspects. You had concern about it,
16 but you expressed your concern by saying, wait a minute. If
17 the utilities have a utility plant and one-third of the value
18 of their rate base is composed of the transmission system,
19 maybe we ought to study base rates to see if when that
20 transmission system goes away, if it goes away, there shouldn't
21 be a reduction in base rates. So you required both
22 Florida Power & Light and Florida Progress to file minimum
23 filing requirements. We had a base rate case in both of those
24 utilities, and the third benefit came about in that FP&L agreed
25 to reduce its rates in 2002 by \$350 million a year and Progress

1 agreed to reduce its rates by \$125 million a year. And that
2 was certainly a benefit that was a direct outgrowth of the
3 studies this Commission has given to the RTO program. So you
4 provided to us major benefits for which I greatly applaud you
5 at this point in time.

6 Now we have before us a situation in which the
7 proposal appears on the surface to cost more than the benefits
8 provided, and there are obviously more than one school of
9 thought on this. Theoretically speaking, it makes sense to the
10 trickle down consumer who will benefit if the RTO is successful
11 that RTOs ought to go forward. And to that degree we agree
12 with the merchants, we agree with Seminole, we agree with the
13 Florida Municipal Authority, Power Authority to give those
14 utilities access to the transmission system. We also agree
15 with them that their bite -- we ought to send the group back to
16 the drawing boards to see if it can't be done in a more
17 economical manner. \$1 billion is a pretty substantial cost and
18 an ongoing cost of over \$100 million a year to operate the
19 system with no reduction in base rates and, in fact, a
20 potential cost increase seems to be not really what would be in
21 the consumers' best interests. So we think the idea to go back
22 to the drawing boards to give it further study is, is very
23 important.

24 There are some specific consumer concerns that I hope
25 you will address as you address this further, and that is we

1 still have in Florida, although the ICF study looks only at
2 intermediate plants, the ones that can reduce the cost a little
3 bit, there's some low cost fuel plants still out there. And
4 there's no -- and the utilities have an obligation to serve
5 their customers and that's to provide electricity, but they
6 don't have an obligation to serve them from specific generating
7 stations.

8 And a concern I have is that if you are a utility
9 that has low cost power and if you sell that power in the
10 wholesale market, and right now you have, the Commission has a
11 provision that the staff has recommended knocking out on a
12 couple of occasions, you have a provision that says if you sell
13 the wholesale power, the utility selling the power can keep
14 20 percent of the gross proceeds of the sale. So that makes an
15 incentive for the utilities with the low cost power to sell
16 that power in the wholesale market and maybe even buy back more
17 expensive power for the retail consumers. We think this is a
18 potential grave danger that should be carefully examined.

19 One of the other things that gives me concern and
20 hadn't really been fully brought to light is what I believe to
21 be the essence of the OASIS program, and that is information, a
22 bulletin board that shows what the current cost of electricity
23 is every hour of the day for the spot market transactions.

24 The ICF study shows that there will be transparency,
25 but we don't have enough detail on that. And I think in the

1 study you should give directive to the stakeholders that you
2 want to make it very clear that it's important to this
3 Commission and to the consumers of the state of Florida that
4 they know what power costs are and that those costs be
5 published. And if the utility is electing to operate its own
6 more expensive utility and then selling its power on the
7 wholesale market because of the opportunity at the Commission,
8 that should be strongly discouraged. But the only way you can
9 know if that's happening, since many of these transactions
10 happen by telephone calls and bilateral transactions, is to
11 have an open and apparent and transparent idea of the costs.

12 Another thing is for independent power producers, if
13 they know where the high-cost facilities are, it helps them in
14 their location of power plants to put in less impact on the
15 transmission system.

16 So I would suggest to you that those are safeguards
17 that I haven't heard mentioned here today, but certainly
18 something that this Commission should be interested in.

19 And, finally, it seems to me, my latest understanding
20 is that there's 17 separate control areas for the utilities in
21 the state of Florida. With the ISO or the RTO or the
22 GridFlorida, as you might wish to call it, there's an
23 opportunity to reduce that to one major system operator who can
24 determine the least costly power available, and that should
25 result in substantial savings to the utilities that can be

1 shared with or retained by the utility for its own
2 profitability, but hopefully shared with the customers.

3 In summary, I'd like to say to you on behalf of the
4 trickle down beneficiaries of the RTO, we recommend that you
5 send the stakeholders back to the drawing boards to come up
6 with a more economical approach, and that you take steps to
7 ensure that the interest of consumers are protected in some
8 modest way. Thank you very much for your time and attention.

9 CHAIRMAN BAEZ: Questions of Mr. McWhirter? Thank
10 you.

11 MS. BASS: Our next speaker is Mr. Mike Naeve on
12 behalf of the GridFlorida applicants.

13 MR. NAEVE: Thank you. My name is Mike Naeve and I'm
14 appearing on behalf of the three investor-owned utilities in
15 peninsular Florida.

16 First, we would, on behalf of myself and on behalf of
17 the, the investor-owned utilities, we'd like to thank ICF and
18 express our appreciation for their contribution to this
19 analysis. We've heard a number of people today speak about the
20 analysis. I think every speaker so far has acknowledged the,
21 the expertise and the quality of the work. **People have taken**
22 exception to what ICF was asked to study, but nobody has taken
23 exception to the intellectual integrity they brought to the
24 study, to their industry expertise and knowledge and the
25 quality of the work they did, and we feel the same way and

1 appreciate very much what they've done.

2 The preliminary ICF results show, among the many
3 results they show first that the markets in Florida today are
4 pretty efficient compared to many markets in the United States.
5 I think Judah Rose said they're somewhere in the 95 to
6 98 percent efficiency range. That still means though that
7 there's 5 to 2 percent efficiencies out there potentially that
8 can be achieved, savings that can be harvested or benefits that
9 can be harvested for the customers in the state of Florida, and
10 that represents a lot of money. When you talk about a market
11 that's big, 5 to 2 percent can be a great deal of money. We
12 probably could never get to 100 percent efficiency. I don't
13 think anybody ever achieves 100 percent efficiency. But,
14 nonetheless, there are significant savings that can be
15 accomplished. And for some of these savings it may well be
16 that the costs to achieve them are simply too great and we
17 can't capture all of them. But, nonetheless, that still raises
18 the issue, is there a way that, that, that the companies and
19 the participants in this market in Florida can achieve some
20 portion, perhaps some significant portion of the benefits that
21 have been identified by ICF?

22 ICF has looked at one particular model for achieving
23 those benefits, a phased model, a Day 1 and then a Day 2 model,
24 and they found at least for that particular approach the costs
25 at least are projected by them to exceed the benefits.

1 Other people have suggested alternative models, we've
2 heard several alternative models today, and others have
3 suggested that we go back to the drawing boards and see if we
4 can't come up with some way to capture these benefits. The
5 applicants in this case agree with that. **We think we should**
6 look at this pool of benefits, we should go back to the drawing
7 boards and see if there is some reasonable way, some
8 cost-effective way to capture those benefits or at least the
9 ones that can be captured in a cost-efficient way.

10 So our proposal is that we wait for ICF to complete
11 its study, and then within two months after the completion of
12 the ICF study the applicants take the study and evaluate it and
13 see if they can't come up with a strawman for achieving as many
14 of these benefits as can be achieved in an economically
15 efficient way. Obviously, once we propose that strawman, I'm
16 sure other parties in Florida will have alternative ideas and
17 will want to express those ideas. But we would propose then,
18 however, that between now and 60 days the Commission can decide
19 what it wants to do in the way of additional proceedings, but
20 that 60 days from the date of the ICF study we come back here
21 and present to you an alternative approach for trying to
22 capture some of these benefits. We certainly, in developing
23 that alternative approach, will take into consideration what
24 we've heard today from each of the parties that have presented
25 their views, and we can't tell you today what we're going to

1 come up with because we have to, have to conclude that. But
2 that would be our proposal.

3 CHAIRMAN BAEZ: Commissioners, questions of Mr.
4 Naeve? Commissioner Edgar.

5 COMMISSIONER EDGAR: You know, in some of the
6 discussions earlier there have been recommendations or
7 proposals referring to a brownfield structure as opposed to the
8 greenfield. And I admit when I hear the term brownfield, I
9 still think of environmental remediation and tax incentives.
10 So I guess my question to you is when that term is used in this
11 context, what does it mean to you?

12 MR. NAEVE: I think that term means, and certainly
13 the proponents of a brownfield approach can correct me if I get
14 this wrong, but I think that term means taking advantage of
15 existing facilities, existing infrastructure to the maximum
16 extent practical and seeing if there are ways that existing
17 facilities can be implemented or utilized to achieve some of
18 these benefits. I think we actually need to kind of step back
19 and, and look at all the alternatives we've heard today and
20 other approaches as well and see if we can make some judgments
21 as to which of these categories are cost-effective and what
22 benefits will come from each approach and are those benefits,
23 do they, do the benefits outweigh the costs.

24 CHAIRMAN BAEZ: Mr. Naeve, and I'm sorry to
25 interrupt, but just as a follow-up to that, you said, make use,

1 what it means to use, to make use of existing infrastructure
2 and existing facilities. Does that include existing structures
3 or processes that are already at work?

4 MR. NAEVE: I think it would be both processes, but
5 it would also -- it would be both existing processes, but also
6 --

7 CHAIRMAN BAEZ: I guess I'm referring to, like, human
8 infrastructure, if you will.

9 MR. NAEVE: Human as well as computer systems and
10 software and so forth, control centers.

11 CHAIRMAN BAEZ: Okay. I'm sorry, Commissioner Edgar.

12 COMMISSIONER EDGAR: That's okay. Thank you.

13 CHAIRMAN BAEZ: Mr. Naeve, and perhaps -- I know that
14 we have another, we have a representative from each of the
15 companies that are signed up to speak.

16 MR. NAEVE: That's correct.

17 CHAIRMAN BAEZ: But as far as your understanding of
18 the dynamic of creating an RTO, and obviously that's in
19 question, or even, or even some, some alternative to that, as
20 has been suggested and discussed, the, the idea of
21 displacement, there was some reference to -- I think
22 Mr. McWhirter said the magic words of "rate base" and so on. I
23 guess the dynamic of establishing whatever we're going to call
24 it, whatever we would call it and in whatever form it may take,
25 involves, involves the migration or at least the, the actual

1 applicants not performing some functions. And that would, may
2 necessarily involve some reduction in their, in their own
3 expenses, albeit a migration outward. Is that something that's
4 contemplated to your knowledge?

5 MR. NAEVE: I hate to prejudge where the applicants
6 will come out on this.

7 CHAIRMAN BAEZ: Sure.

8 MR. NAEVE: It could. I think we're going to step
9 back and look at where are the savings that are achieved in the
10 ICF study, where are the potential savings? And there seem to
11 be several buckets there whether -- what ICF calls market
12 inefficiencies, some of these are qualitative and some are
13 quantitative. But that's, you know, better coordinated
14 planning and better calculation, you know, independent
15 calculation perhaps or better coordination of the calculation
16 of ATC and TTC. There's de-pancaking is a potential source of
17 benefits; it's also a potential source of cost shifting as
18 well. But it's something that we need to look at. Improved
19 unit commitment and then improved unit dispatch seem to be two
20 areas where significant savings have been identified. So we're
21 going to look at each of these buckets of potential savings and
22 ask how can we achieve these and what's the most cost-efficient
23 way to go after it.

24 CHAIRMAN BAEZ: And I, and I realize that. And that,
25 that appropriately addresses the four corners or stays within

1 the four corners of the study. And I guess what I'm reaching
2 for or at least trying to confirm or not, that, that there is,
3 that there is a, there is a corresponding reality outside the
4 four corners of that study. I mean, ICF has done, I think, a
5 yeoman's work in trying to make sense of all of this and really
6 taking everything that certainly they thought was appropriate
7 into account. And obviously there are those that differ with
8 how much of, you know, how thorough it was or whatever, but I'm
9 not really trying to get into that. There is some
10 acknowledgment that that has a scope and that that scope does
11 not necessarily intend -- extend to the ripple effect that it
12 has on, on what stays behind as an IOU. Is that, is that fair
13 to --

14 MR. NAEVE: Well, I think, at least what I've heard
15 today is some disagreement as to how, how significant the, the
16 savings are in each of these buckets. And I think we're going
17 to hear more of that when the utilities speak, and also
18 disagreement as to what costs are associated with achieving
19 savings in these buckets and how, what's the best way to
20 achieve the savings in the buckets.

21 I have not -- I think, at least if I listened
22 carefully, I think most people would not disagree that these
23 are the potential sources of savings, that they're going to
24 come from one of these, these broad categories. So -- and how
25 one goes about them, you know, will, will affect, you know,

1 what the responsibilities of the, of the, of the utilities in
2 the state end up being and what they would not be. But I
3 actually, again, think that depends on what one decides is the
4 most cost-effective way to go after these savings and which of
5 these benefits can actually be achieved in a cost-effective
6 way. Not all of them will be achievable, but I think many of
7 them will be and we just need to figure out what's the right
8 approach. And then we'll have to step back and say how does
9 that affect the structure of the industry, how does that affect
10 jurisdictional allocations, all of these kind of difficult
11 issues.

12 CHAIRMAN BAEZ: Okay. Thank you. Commissioners, any
13 other, any other questions? Thank you, Mr. Naeve.

14 MS. BASS: Next, Greg Ramon, Tampa Electric Company.

15 MR. RAMON: Good afternoon. ICF performed its work
16 with diligence, professionalism and appropriate independence.
17 And the ML (phonetic) is useful and the results are indicative,
18 if not precisely accurate, of the costs and benefits that could
19 be expected from the GridFlorida RTO. Tampa Electric believes
20 that the costs calculated by ICF of the RTO are indicative of
21 the level of costs to be expected should GridFlorida be brought
22 to life as currently designed. The ICF work was comprehensive
23 and the RTO capital and operating cost estimates are clearly
24 compatible and in line with existing RTOs and ISOs.

25 Tampa Electric believes that the benefits calculated

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providing the basis for those concerns.

forward from this point to seek ways to secure the maximum amount of these benefits, while reducing the costs needed to secure them. These ways could entail any number of different

1 incremental costs are huge. And we should at least look at a
2 cost-based approach, what I call broker plus, resurrect the
3 broker. But remember that those production savings in large
4 part come about from unit commitment kind of savings. But we,
5 we should at least look at a cost-based approach.

6 If we are earnest in our efforts, we will achieve
7 these and possibly other wholesale market changes that will
8 bring benefits to Florida customers. That concludes my
9 remarks.

10 CHAIRMAN BAEZ: Thank you, Mr. Ramon. Commissioners,
11 questions? Thank you, sir.

12 MS. BASS: Next for Florida Progress -- Progress
13 Energy Florida, Nina McLauren.

14 MS. McLAUREN: Thank you. Progress appreciates the
15 opportunity to speak on the ICF cost benefit study, and we
16 agree with the comments that Mike Naeve made. We support the
17 ICF cost benefit study and their conclusions, and appreciate
18 their thorough and independent work on this effort.

19 Progress Energy believes that the findings of the ICF
20 study are directionally correct. However, we believe that the
21 Day 2 cost estimates are too low and the benefits are too high.
22 We believe, in other words, that there is even a greater spread
23 between the RTO costs for a Day 2 RTO and the benefits that
24 would be derived from such a structure.

25 I'm going to give you a few examples of why I believe

1 that and our company believes that, and then FPL will give some
2 examples of why they believe that the benefits may be
3 overstated.

4 First, Progress Energy had a large part in the
5 development of the GridSouth RTO. So we believe that the cost
6 estimates for a Day 1 RTO are accurate for what ICF came up
7 with in their cost estimates for a Day 1 RTO. But, however,
8 for the Day 2 RTO we believe ICF's cost estimates are too low
9 for the following reasons, some of the following reasons.

10 First is that ICF developed their benchmarked, their
11 RTO cost estimates using the ISO New England and also the
12 New York ISO RTOs. And those are two of the lowest cost RTOs
13 operating today. These RTOs developed from tight power pools,
14 which is a very different starting point than the GridFlorida
15 application would be. Also, GridFlorida is significantly
16 larger than either of these other RTOs.

17 Other RTOs have experienced a significantly larger
18 Day 2 start-up cost, as evidenced by the Midwest ISO, which had
19 \$250 million just in start-up costs for their
20 Day 2 market.

21 Second, the RTO cost increases over time. We --
22 there was some discussion about that this morning when we just
23 looked at the FTE count for some of these RTOs and how they
24 have increased each year after they have been implemented.

25 Industry history indicates that there is an increase

1 in RTO costs from 10 to 20 percent per year. This has not been
2 reflected in the ICF study.

3 Third, we believe that the number of the FTEs
4 reflected in the ICF study are too low for a Day 2
5 implementation. They estimate 354 FTEs, which is a lot of
6 folks, but still significantly less than the RTOs that are
7 operating today with Day 2 markets. The PJM, MISO, ERCOT RTOs
8 all have over 600 FTEs, and, of course, that drives up the
9 costs dramatically.

10 Fourth, we believe that the Day 2 development costs
11 are understated because there was not very much consultant fees
12 in that estimate. And to develop a Day 2 market, it requires
13 specific expertise to put in such a market, as we again
14 experienced in the GridSouth implementation. So those are a
15 few aspects on the cost.

16 I would like to turn next to addressing the
17 greenfield. We've heard a lot about a greenfield and an RTO --
18 and a brownfield. So I would like to just state why we believe
19 that the greenfield implementation was a reasonable assumption
20 for the ICF study.

21 RTOs have been built in the United States in three
22 different manners. The first is that they have been an
23 outgrowth of existing power pools such as PJM, New York ISO and
24 ISO New England.

25 Second, they have been an outgrowth of reliability

1 councils. ERCOT, SPP are examples of that.

2 Then, third, they have come from a greenfield such as
3 the Midwest ISO, the California ISO and many other proposed
4 RTOs such as GridSouth, SeTrans, WestConnect and RTO West.
5 Florida does not have an existing power pool. Florida does not
6 have separate computer and personnel infrastructure that is
7 being used solely for reliability coordination. We can't use
8 existing control center infrastructures to implement a
9 GridFlorida RTO. Not to say that we couldn't look at other
10 structures and other functions that we could maybe leverage
11 some of the infrastructure, but for a complete FERC compliant
12 RTO that especially does Day 2 markets we wouldn't be able to
13 use those infrastructures. And why not? **Because those**
14 existing control centers and systems were put in to do the work
15 of our companies in supplying reliable and economic
16 transmission and generation control. That's the primary
17 function of why these systems are in place today. An RTO is a
18 level above existing control centers. They provide some
19 direction to these control centers but they do not replace the
20 functionality that we currently perform today. The control
21 centers and systems in Florida do not contain the
22 infrastructure nor the staffing necessary to support a FERC
23 compliant RTO.

24 Also, a greenfield implementation would help with a
25 number of other aspects that FERC was, was trying to get after

1 in an RTO formation such as independence. Again, if we want to
2 look at other structures, we can look at other structures.

3 The Commission, you fellows and ladies, have asked us
4 to take a look at different measures that we could consider in
5 lieu of an RTO that could capture the benefits of further
6 coordination of our transmission systems. I wanted to focus
7 first on the number of things that are being done right today.
8 There is a number of things that is being done right.

9 First, this Commission plays a key role in the power
10 plant and transmission siting within Florida. This provides
11 the appropriate regulatory oversight needed to ensure reliable
12 and economic power is provided to our Florida customers. I
13 think the best measure of our past and current successful
14 coordination of transmission is the high degree of power system
15 reliability that we experience here in Florida. And I think
16 that we need to not lose sight of that.

17 Also, the FRCC currently provides a high degree of
18 transmission coordination activities within our region. The
19 FRCC supports numerous committees that foster the reliable
20 economic operation of the FRCC region, they help us with our
21 coordination of the available transfer capability, the ATCs.
22 Also we have a Florida OASIS or the FLOASIS. We have
23 reliability coordination that's currently being done. We have
24 our traditional transmission planning process that is supported
25 by the FRCC, and now this new, improved transmission planning

1 process. Also, each of our organizations have marketing
2 organizations that currently look at the purchasing, buying and
3 selling of power for the most economic advantage to our
4 customers. However, Progress Energy stands ready to look at
5 different alternatives to derive even greater benefits to our
6 customers. However, examining the options will take time. We
7 need to be prepared to look at the scope adjustments as well as
8 the cost reductions.

9 In summary, Progress Energy agrees with the findings
10 of the ICF study that an RTO is not cost-effective for the
11 state of Florida. The RTO costs are real. The RTO benefits
12 are elusive. Recent RTO cost benefit concerns have been
13 expressed by the following organizations: The PJM Industrial
14 Consumer Coalition, ELCON and APPA.

15 The Florida electric customers currently enjoy an
16 economic and reliable supply of electric energy. Any changes
17 in the electric system must ensure that those benefits are not
18 lost. Thank you.

19 CHAIRMAN BAEZ: Questions of Ms. McLauren? Is it
20 Mr. Croes? They had to, they had to brief me on that before.

21 MR. CROES: Okay. Good afternoon, Commissioners. My
22 name is Robert Croes, and I'm representing Florida Power &
23 Light.

24 And I'd like to start off like many other people have
25 by complimenting ICF on the study. It was a huge undertaking

1 for which ICF is to be commended for carrying it out so
2 professionally and, more importantly, so independently. Even
3 we couldn't get everything we wanted from them.

4 Florida Power & Light also concurs with Progress
5 Energy's comments with regard to the understated cost
6 estimates. And while FPL supports the overall conclusion of
7 the study findings thus far, we feel that the benefits provided
8 in the Day 2 scenario are significantly overstated.

9 I will go through two examples hopefully that will
10 illustrate why the Day 2 benefits are overstated. And you
11 heard ICF mention this morning something about perfect
12 execution of the model, and I intend to address that.

13 ICF has also acknowledged that the model has perfect
14 information and operations, and in one of the sensitivity cases
15 they're currently studying will attempt to quantify some of
16 these real-world inefficiencies that will further reduce the
17 level of benefits. And so with that, I'll get into my two
18 examples.

19 First of all, as far as perfect information, the
20 model has no demand uncertainty. The model predicts with
21 tremendous accuracy what tomorrow's load is going to be, and it
22 never overcommits, it never undercommits units. And we know
23 especially in Florida whether or not it rains, whether or not a
24 unit trips is very difficult to come up with the proper
25 commitment on a day-ahead basis on a regular basis.

1 So this perfect commitment efficiency contributes to
2 overstated benefits because these over and undercommitments add
3 incremental dispatch costs compared to the perfect commitment
4 case.

5 In the, in the base case you've heard ICF mention
6 that the dispatch and commitment hurdles try to model the
7 market inefficiencies. Well, over and undercommitment is one
8 of these market efficiencies that they're trying to model. So
9 when they did the calibration test -- and the calibration test
10 is, is merely a guess and check. They guess at these dispatch
11 rates and they run their production model and see how close
12 they got to actual dispatch. And then after maybe
13 100 iterations they got what they were comfortable with on the
14 hurdle rates for the dispatch and commitment. So part of the
15 job of those hurdle rates is to identify these market
16 efficiencies. And in the base case they modeled them with
17 these hurdle rates. They were a proxy for over and
18 undercommitment. However, in the Day 1 and Day 2 case when
19 they removed the models, the hurdles, they went back down to
20 zero, they effectively removed the inefficiency associated with
21 over and undercommitment, which even in a perfect world, in all
22 RTOs today you can never get that perfect because, you know,
23 there's going to be rain clouds, there are going to be units
24 that trip, and it's going to be very difficult to commit
25 accurately on a daily basis.

1 So, in other words, the Model 2 -- the Day 2 model
2 does not capture the costs and inefficiencies associated with
3 over and undercommitment and, consequently, overstates the
4 benefits. And this is part of their sensitivity study that ICF
5 is performing in order to capture some of these real-world
6 inefficiencies and the fact that the model is too perfect.

7 The second issue where I think the model overstates
8 the benefits is the use of marginal cost bids. ICF could not
9 and chose not to simulate each participant's bidding behavior.
10 So the production cost bids were based on the marginal cost of
11 production in the Day 2 market, which is reasonable. However,
12 evidence from existing RTOs this year have pointed out that
13 bids from units on the margin are actually marked up above
14 marginal costs. And I have two examples to follow.

15 The California ISO as recently as May 4th, 2005,
16 presented in a market presentation to FERC findings that
17 short-term price markups existed on the order of 5 percent.
18 So, in addition, in PJM's March 8th, 2004 state of the market
19 report by its own market monitor states that the markup index
20 lies somewhere between 3.4 percent and 12.3 percent.
21 Furthermore, the report also states that during 2004 units
22 using petroleum and natural gas, which are more likely to be on
23 the margin, were actually marked up higher, an average 12.5 and
24 8.7 percent respectively. So the bottom line of all this is
25 that the bid markets that exist in today's RTO and ISO

1 competitive markets were not modeled by ICF. Therefore, the
2 total production costs for Day 2 are understated, and this
3 consequently overstates the benefits for Day 2. So this is
4 just two, two examples.

5 These real-world behaviors and inefficiencies that
6 were not modeled by ICF would have a negative impact on the
7 benefits, which currently are not accounted for in ICF's
8 results, as I stated. It is FPL's opinion that the
9 \$968 million of benefits stated in the final Day 2 estimates is
10 a theoretical maximum and that the benefits resulting from the
11 sensitivity cases that attempts to model these real-world
12 inefficiencies would provide somewhat of a better indication of
13 the type of benefits we can expect. And that concludes my
14 remarks.

15 CHAIRMAN BAEZ: Commissioners, questions?

16 COMMISSIONER DEASON: Yeah, I have a question.

17 CHAIRMAN BAEZ: Go ahead, Commissioner Deason.

18 COMMISSIONER DEASON: You said it was PJM where the
19 study was done concerning the markups; is that correct?

20 MR. CROES: Yes. It was actually done in both PJM
21 and California ISO.

22 COMMISSIONER DEASON: Okay. And theoretically in a
23 perfectly efficient market there would be no markups? Is that,
24 is that what --

25 MR. CROES: I assume it's an economist's dream that

1 bids will all be bid at marginal costs.

2 COMMISSIONER DEASON: And why were -- was -- in those
3 markets was there a, generally an excess of demand over supply?
4 Was that the reason? Or what -- did they say what the reason
5 was? I know it's not because people just wanted to make more
6 money; right?

7 MR. CROES: Well, it's a competitive market and I'm
8 sure they're free to bid what they think the market will clear
9 at, and I suspect that's all it is.

10 COMMISSIONER DEASON: Would an economist say that if,
11 if in the short-term you have excessive markups and it's not an
12 efficient market, that there would be entrants into that market
13 such to the point that it would drive prices down to marginal
14 costs?

15 MR. CROES: I don't disagree with that. All I'm
16 reporting on is the findings that they found from the market
17 monitor in 2004 was not the case in '04. It may come down in
18 '05. I don't know.

19 COMMISSIONER DEASON: Okay.

20 CHAIRMAN BAEZ: I have a question or maybe it's a
21 clarification. I wanted, I wanted to let Mr. Croes make his
22 comments so that I could kind of pose a question to both of you
23 or, frankly, to any of the applicants or all of them.

24 But something Ms. McLauren said struck a chord with
25 me, and perhaps I'm hearing wrong. Okay? But if, if the

1 general message of the applicants based on ICF's study is that,
2 is that the GridFlorida RTO or a GridFlorida RTO is not
3 cost-effective, the logic following from that was that it
4 should not be pursued, at least that's a suggestion, and yet
5 there's some receptiveness to exploring other ways of capturing
6 savings or benefits that may be out there.

7 But Ms. McLauren raised, raised something or it
8 seemed, it seemed almost a warning: The issue of FERC
9 compliance. And I guess I'm, I'm trying to get straight in my
10 mind what -- and, and we, you know, reasonable people are going
11 to disagree, and I'm assuming FERC will disagree even itself,
12 and we'll get a chance to hear from a representative from FERC
13 in a minute, as to what compliance is. There may be differing,
14 differing opinions of what that is.

15 But if that's a goal, can any compliance with FERC at
16 this point, based on what you're, based on what we're seeing,
17 is any compliance with FERC cost-ineffective? I mean, is
18 that --

19 MR. NAEVE: I think the answer may well depend on
20 what is required by FERC. Certainly what ICF studied was a
21 full, full-blown RTO with standard market design. And the ICF
22 numbers at least suggest that that model is not cost-effective
23 in Florida. I think the position, it would be useful to hear
24 from the FERC representative on this issue, but I think the
25 position that the Commission has taken is that, that RTOs of

1 that type are not the only model that they would accept, and
2 that they have become somewhat more flexible in recent years
3 and are willing to explore alternative models, particularly if
4 a full-blown model is not cost-effective at a particular
5 region.

6 We've had discussion or mention today of an Entergy
7 model that was approved by the Commission in an initial order
8 pending rehearing, but that's something that is less than a
9 full RTO. The Southwest Power Pool RTO doesn't contain all of
10 the features that an RTO with standard market design would
11 contain.

12 I believe FERC has taken the position that, first,
13 that this is not mandatory, that it is voluntary, that they
14 would like to see movement in all the regions, that in each
15 case it's probably dependent on the structure in the market in
16 each region and what is achievable and what benefits can be
17 achieved. But I guess I'll leave it to kind of the FERC
18 representative to speak to what is necessary.

19 But to the extent that it is, in fact, voluntary,
20 then I think in some ways it's just what is best for the
21 region.

22 CHAIRMAN BAEZ: Well, and that's really what I wanted
23 to get straight in my mind or at least confirm my understanding
24 of it is that we're not really, is the last thing, and this is
25 just me talking, but the last thing I want to do is see the

1 Florida Commission be placed in a Catch-22. You know, to have
2 a desire to do something in the best interest of ratepayers, in
3 the best interest of Florida long-term, and yet it have, yet it
4 not be enough.

5 And, and, Mr. Naeve, I hear you saying that that may
6 well be in play, and I suppose we'll hear, we'll hear from FERC
7 shortly and --

8 MR. NAEVE: I don't presuppose to speak for FERC and
9 what they will find acceptable or nonacceptable.

10 CHAIRMAN BAEZ: It's merely your opinion. And I'm
11 sure if someone --

12 MR. NAEVE: Yeah. My opinion is they've shown
13 considerable flexibility in, in recent months. And I, I think
14 they do take into consideration the unique features of each
15 market and the extent to which there are institutions in place
16 in each market to implement certain changes and the cost effect
17 in some markets compared to others. But, again, I think they
18 can speak for themselves on this issue.

19 CHAIRMAN BAEZ: Very well. Any other comments or
20 questions, Commissioners? Mr. Croes?

21 MR. CROES: I have one more comment. ICF has
22 requested just two minutes for rebuttal if you can somehow
23 squeeze that in.

24 CHAIRMAN BAEZ: Yeah. I think we've got enough time
25 to do that now. And, Mr. Rose, I apologize for earlier trying

1 to tamp down y'all's input beyond your presentation. But if
2 you've got something to add at this point, go right ahead.

3 MR. ROSE: Thank you very much. Appreciate all the
4 kind comments. And I've participated in a lot of proceedings
5 and haven't actually seen a lot of unanimity, so I don't want
6 to overemphasize some of the negative features, but there were
7 just a few comments that were made related to our calibration
8 and particularly related to 2004. And I believe that if we
9 calibrated 2003, I referred you to where we were 99 percent
10 accurate in our calibration. And if we had the opportunity to
11 calibrate 2004 and do the study from that basis going forward,
12 I don't believe our results would be significantly different.
13 It would show, again, a very high degree of calibration and a
14 degree of robustness in our study.

15 There was a talk, some talk about -- I'm referring to
16 the comments of R. W. Beck -- that our choice of the hurdles
17 was arbitrary or needed more work. Every study of this type
18 has used the same methodology that we have used in terms of the
19 hurdles. And I believe, as we demonstrated in the document,
20 that regardless of how you chose the hurdles, we would still
21 end up with a situation in which the benefits are not changing
22 very much. We don't consider a change from \$116 to
23 \$106 million a major change in benefits.

24 There have been requests of us to provide additional
25 data. I think everyone has overall said we've been working

1 well with them, and my hat is off particularly to my colleague
2 Kojo Ofori-Atta. And so overall we've had positive comments.
3 But I did want to mention that we are, we are constrained by
4 the obligations of the confidentiality not to reveal
5 confidential information, and so, so there are some limits that
6 are there.

7 I would say that we have identified substantial
8 potential benefits on the order of a billion dollars, and we do
9 feel that our overall results on the benefits side, to the
10 extent that we're within the scope and looking at the issues
11 that we had there, we think are robust results and we stand by
12 them. And if you want to add to that.

13 CHAIRMAN BAEZ: Thank you, sir.

14 MS. BASS: Our next speaker is from FERC, Bob
15 Machuga.

16 MR. MACHUGA: Good afternoon. I'm Bob Machuga from
17 the Federal Energy Regulatory Commission. I'm here speaking
18 directly on behalf of Pat Wood, the Chairman of the Commission,
19 to convey his views.

20 Given the lateness in the day and the need for people
21 to catch planes, including myself, I am going to limit my
22 remarks to some general comments since several of the
23 stakeholders have already commented on many of the issues in
24 greater detail.

25 Pat Wood would like to see the GridFlorida process

1 move forward. He believes there are significant benefits to be
2 realized by the RTO. However, he believes that the costs in
3 the ICF study are much too high and that they need to be
4 reduced. In his view, the study seems to inappropriately front
5 in the cost and conversely back in the benefits. He'd like to
6 see some of those start-up costs amortized over a period of,
7 say, 10 to 15 years instead of five years, and maybe
8 extrapolate the benefits to 15 or 20 years when they're more
9 likely to be realized.

10 Like some of the other parties, Pat believes that the
11 GridFlorida, you know, that the utilities, GridFlorida
12 utilities should, you know, look for creative ways to leverage
13 the existing infrastructure such as facilities, systems and
14 even, and I guess even to the extent of its first short
15 (phonetic) transitional period.

16 The ICF greenfield study doesn't reflect the net cost
17 savings associated with a lot of these duplicative facilities
18 and personnel. You know, there are, I think it's like EMS
19 system, OASIS -- you know, we've heard about high employee
20 counts and the extreme FTE salary and benefit numbers here.

21 As far -- we are also concerned about the arbitrary
22 nature of the hurdle rates used in the benefits calculation
23 and, and believe that the benefits seem to be pretty
24 understated based on the analysis we've heard from other
25 parties here.

1 And I guess finally the study clearly indicates that
2 there are quantitative benefits related to long-term bilateral
3 contracts and investment inefficiencies which really need to be
4 quantified and can significantly change the results of the
5 study as a whole.

6 I guess to summarize, Pat Wood would like to see the
7 customers realize the benefits of the GridFlorida RTO and that
8 the ICF consultants revise their bases and assumptions of the
9 GridFlorida cost, GridFlorida cost benefit study to provide a
10 more reasonable analysis of the costs and the benefits of the
11 RTO.

12 CHAIRMAN BAEZ: Questions of Mr. Machuga? Thank you,
13 sir.

14 Ms. Bass?

15 MS. BASS: That was the last of our speakers.

16 CHAIRMAN BAEZ: That was the last of our speakers. I
17 guess now we're compelled to discuss -- yes, sir.

18 MR. MILLER: I wonder if I could make a modest
19 suggestion, and this will be very brief.

20 CHAIRMAN BAEZ: Now is the time.

21 MR. MILLER: We were pleased to hear Mike Naeve
22 suggest that 60 days after the ICF exercise is completed that
23 the applicants will get together and put out a strawman or some
24 such thing within 60 days. I would simply like to suggest to
25 the applicants that they make that process inclusive and

1 include the active stakeholders in those deliberations before
2 the strawman is thrown out. We think that would advance this
3 process greatly. Thank you.

4 CHAIRMAN BAEZ: And Mr. Naeve -- I heard Mr. Naeve
5 allude to some, some kind of vetting process. Is that -- or
6 are we putting words in your mouth?

7 MR. NAEVE: Well, we think, of course, it's up to the
8 Commission to decide what vetting process there is. But our
9 assumption would be that that's the beginning of a process,
10 that the applicants certainly have to decide what it is they
11 think before they have an opportunity to discuss it with other
12 parties. And once they lay out their proposal, then I think
13 there would be a -- or I would assume the Commission would want
14 to have some form of process where there's input from all the
15 stakeholders before we reach a --

16 CHAIRMAN BAEZ: Well, and before I make that
17 assurance to the gentleman from Seminole, as, as far as, as far
18 as I'm concerned anyway, I can't speak for my colleagues on
19 that, but I would expect to see efforts made at, at an
20 inclusive process, whatever that form takes.

21 Now if your suggestion is directed at us trying to
22 make some kind of pronouncement now about what we've got to do
23 going forward, I think that that, that necessitates a little
24 bit more discussion among our side of the equation in order to
25 be able to do that, and I'm not about to get into that here. I

1 don't think this is the time or the place to be doing that.

2 But -- and actually at the time of, at the time you raised your
3 hand, I was turning over to Ms. Bass to try and ask her what we
4 should be considering in terms of next steps.

5 COMMISSIONER DEASON: Mr. Chairman, before we hear
6 from staff, can I make a comment?

7 CHAIRMAN BAEZ: Commissioner Deason, please.
8 Absolutely.

9 COMMISSIONER DEASON: Okay. I can understand the
10 need for the applicants to have an opportunity to put together
11 a strawman, considering what has been, you know, presented thus
12 far. But to me as one Commissioner, it would be helpful that
13 before that strawman is brought to us and we give everybody an
14 opportunity to comment on it here, it would be better for there
15 to be an opportunity for everyone to comment on it during the
16 process before it is brought here. And I think it would be
17 better able to focus on areas of agreement and areas of
18 disagreement, and it would just facilitate my understanding.

19 CHAIRMAN BAEZ: Oh, I absolutely agree. Now I don't
20 know how we accommodate -- we have to find a way to accommodate
21 that principle in, in whatever steps going forward. Now I
22 don't know whether to discuss this as a way of backing into it
23 or what. I know for certain that Mr. Rose and his colleagues
24 need to finalize the study because there was, there was some --

25 MS. BASS: Correct.

1 CHAIRMAN BAEZ: -- reference made to at least one
2 sensitivity study. I don't know if there are more in the
3 offer. But certainly there is a little bit more work to do
4 before a final product comes out.

5 I would also say that although we have concentrated
6 much on, on the possibility of alternatives and so on, I
7 confess I'm not even sure how, how we give that as guidance in
8 anything less than a general sense that our feeling is, and I
9 think you saw from the questions that was posed on the, by
10 Roberta and her people on the agenda, you know, that's
11 something certainly that we'd like everyone to consider. So
12 there seems to be some consensus that that can go on in a
13 productive fashion, and I would leave that to staff who's been
14 so ably handling it so far to sort of set the tone in terms of
15 what kind of process should be left. And you've heard at least
16 two of us say, and I'm sure -- I don't want to twist
17 Commissioner Edgar's arm right here on the dais, but I don't
18 know if she has any objection to giving that as some kind of
19 direction that some kind of inclusive process before it gets
20 back to the Commission in whatever way, you know, leave them
21 and others decide to come back, but that that should be
22 included.

23 COMMISSIONER EDGAR: I'm not sure what the most, what
24 the best process is to do that. But I know that being new to
25 some of these issues, I would like the time to be thorough and

1 deliberative, at least in my thinking. And so, you know, a
2 couple of options or a range of options and input from the
3 various stakeholders as to benefits, costs, alternative
4 impacts, et cetera, would be very helpful.

5 CHAIRMAN BAEZ: And I would say that thoroughness and
6 deliberativeness should be something that everybody should be
7 trying to, trying to take on.

8 Roberta, any suggestions, or, or is it a matter of,
9 you know --

10 MS. BASS: Well, at this point I don't think we have
11 any specific steps in mind. We haven't really set out a time
12 schedule. I do know that one thing we're looking for is a
13 finalization of the ICF study. It's my understanding there's
14 still some sensitivity analyses that are being conducted. And
15 when those are done, I'm not sure whether or not we'll go
16 through another stakeholders' work group or what, what the
17 process will be at that time, but I do know that I think this
18 Commission needs the benefit of a final cost benefit study.

19 I think we should also take advantage of all the
20 information that's been provided today by all the stakeholders.
21 There's been a lot of different ideas passed around about how
22 if this Commission does not go forward with a structured RTO,
23 how we could capture benefits that will provide cost savings to
24 the ratepayers. So what I would suggest is that we take, take
25 some time to review the transcript of this workshop and to look

1 at what has been provided and perhaps, as you said, maybe on
2 this side of the equation we can talk about a direction and
3 talk about what we think, what the process needs to be on a
4 going-forward basis. But I would rather review everything that
5 was said today in that before we do something definitive.

6 CHAIRMAN BAEZ: And I'm sure that we can gain some
7 time because I don't see that as being dependent on ICF
8 finishing, finalizing its study obviously. And I'm not going
9 to put ICF on the spot here as to when that's, when that's
10 going to take place. But it should be soon and --

11 MS. BASS: No. I think we can do that
12 simultaneously. With them finishing it, we can kind of regroup
13 and see where we're at and then perhaps provide some guidance.
14 If the applicants wish to go forward with a strawman, perhaps
15 we can provide some guidance on what this Commission thinks the
16 involvement level should be of the stakeholders or what we're
17 looking for.

18 We're also still looking for some additional
19 information from the utilities that Commissioner Deason asked
20 about: The benefits that may be achieved by the individual
21 utilities that were not part of the cost benefit study. So
22 those are still things that we need to look at. So I would say
23 let's take some time and gather the information we have and
24 think about a process going forward.

25 CHAIRMAN BAEZ: Very well. Any, any questions or

1 comments, Commissioners?

2 I want to thank you all for coming out. I think you
3 gave, certainly you gave the Commission a lot of food for
4 thought, and I'm sure anyone else that was listening as well.
5 I want to thank you all for your input. It's all well-taken.
6 Have a good day everyone. We're adjourned.

7 (Workshop adjourned at 2:50 p.m.)

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

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

IT IS FURTHER CERTIFIED that I stenographically reported the said proceedings; that the same has been transcribed under my direct supervision; and that this transcript constitutes a true transcription of my notes of said 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' attorneys or counsel connected with the action, nor am I financially interested in the action.

DATED THIS 31st DAY OF MAY, 2005.

Linda Boles
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 FPSC Official Commission Reporter
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