

**BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION**

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In re: Petitioner for approval of : DOCKET NO. 961184-EO
early termination amendment to :
negotiated qualifying facility :
contract with Orlando Cogen :
Limited, Ltd., by Florida Power :
Corporation :

SECOND DAY

VOLUME III

PAGE 341 through 466

PROCEEDINGS: HEARING
**BEFORE: COMMISSIONER SUSAN F. CLARK
COMMISSIONER JOE GARCIA**
DATE: Friday, October 31, 1997
**TIME: Commenced at 8:30 a.m.
Concluded at 1:15 p.m.**
**PLACE: Betty Hasley Conference Center
Room 148
4075 Esplanade Way
Tallahassee, Florida**
**REPORTED BY: NANCY S. METZKE, RPR, CCR
Court Reporter
Post Office Box 3093
Tallahassee, Florida 32315-3093**

APPEARANCES:
(As heretofore noted.)

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PAUL W. STALLCUP

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PROCEEDINGS

1
2 **COMMISSIONER CLARK:** Let's call the hearing to
3 order. And Mr. Stallcup, are you ready?

4 Whereupon,

PAUL STALLCUP

5
6 was called as a witness on behalf of the FPSC and, after
7 being duly sworn, testified as follows:

EXAMINATION

8
9 **BY MR. KEATING:**

10 **Q** Would you please state your name for the record?

11 **A** Yes, my name is Paul W. Stallcup. My business
12 address is 2540 Shumard Oak Boulevard, Tallahassee,
13 Florida, 32399.

14 **Q** Did you prepare or cause to be prepared prefiled
15 direct testimony in this docket?

16 **A** Yes, I did.

17 **MR. KEATING:** Commissioner Clark, I believe
18 everybody has a copy of an exhibit that is described as
19 revisions to Mr. Stallcup's direct testimony and Exhibits 4
20 and 5 to his direct testimony.

21 **COMMISSIONER CLARK:** Okay. Let's go ahead and
22 mark it as an exhibit. It will be marked as Exhibit 12.

23 **BY MR. KEATING:**

24 **Q** Mr. Stallcup, do you have any changes or
25 amendments to your prefiled testimony that are not

1 reflected in the exhibit?

2 A No, I don't.

3 Q Okay.

4 MR. KEATING: Commissioner Clark, staff requests
5 that Mr. Stallcup's testimony be inserted into the record
6 as though read.

7 COMMISSIONER CLARK: All right. Let's do this.
8 The prefiled direct testimony of Mr. Stallcup as amended by
9 the first page of Exhibit 12 will be inserted in the record
10 as though read, and then his exhibits, PWS-1 through 5?

11 MR. KEATING: Yes.

12 COMMISSIONER CLARK: Will be marked as Exhibit 13
13 with the understanding that those exhibits are revised
14 according to the last two pages of Exhibit 12.

15 MR. KEATING: Thank you.

16 COMMISSIONER CLARK: Thank you.

17

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25

DIRECT TESTIMONY OF PAUL W. STALLCUP

1

2

3 Q. Would you please state your name and business address?

4

5 A. My name is Paul W. Stallcup. My business address is 2540 Shumard Oak
6 Boulevard, Tallahassee, Florida, 32309.

7

8 Q. By whom and in what capacity are you employed?

9

10 A. I am employed by the Florida Public Service Commission as the Supervisor
11 of the Forecast Section in the Division of Auditing and Financial Analysis.

12

13 Q. Would you please summarize your educational and professional experience?

14

15 A. Yes. I graduated from Florida State University in 1977 with a Bachelor
16 of Science in Economics with minors in mathematics and statistics. I received
17 my Master of Science in Economics from Florida State University in 1979 and,
18 as a Ph.D. Candidate, completed the course work required for the degree and
19 stood for and passed the doctoral examinations in macroeconomic theory,
20 microeconomic theory, and econometrics in 1980.

21

22 In January 1981 I was employed by Florida Power and Light Company as a
23 Load Forecast Analyst in its System Planning Department. In this capacity,
24 I prepared short and long term forecasts of company sales, peak demand, and
25 customer growth. In January 1983, I was employed by the Florida Public
Service Commission as an Economic Analyst and in 1991 was promoted to my

1 present position of Supervisor of the Forecast Section in the Bureau of
2 Revenue Requirements in the Division of Auditing and Financial Analysis.

3

4 Q. Would you please summarize your testimony?

5

6 A. Yes. My testimony presents the results of a risk analysis I performed
7 on the proposed buy out of the last ten years of the contract between Florida
8 Power Corporation (FPC) and Orlando Cogan Limited (OCL). This risk analysis
9 views the proposed buy out as a potential investment opportunity being offered
10 to FPC ratepayers and is evaluated on the basis of whether or not the
11 investment will provide a reasonable return. I believe that my analysis is
12 more comprehensive than that presented by FPC witness Schuster or by Office
13 of Public Counsel (OPC) witness Larkin, and provides a better assessment of
14 the financial risk the proposed buy out asks FPC ratepayers to assume. I
15 describe how I performed my analysis and how it differs from those performed
16 by Witnesses Schuster and Larkin. I also am sponsoring Exhibits PWS - 1
17 through PWS - 5 attached to my testimony.

18

19 Q. What do the results of your risk analysis show?

20

21 A. The results of my risk analysis show that, given current expectations
22 about future fuel prices, inflation, and the financial market's current
23 evaluation of risk, the proposed buy out contains a significant degree of risk
24 which could financially harm ratepayers if the buy out is approved.

25

1 Q. Would you please provide an overview of how you performed your risk
2 analysis?

3

4 A. Yes. I began my analysis by adopting the overall methodology offered
5 by FPC witness Schuster in Exhibit 7 to his prefiled direct testimony. This
6 methodology lists in columns (1) and (2) the forecasted values of the Capacity
7 and Energy payments that ratepayers are currently obligated to pay under FPC's
8 existing contract with OCL over the period from 1997 to 2023. Collectively,
9 these columns are called the Contract Case since they contain the costs that
10 ratepayers will incur under the existing contract.

11 Columns (4), (5), and (6) list the forecasted values of the Capacity,
12 Energy, and Buy Out costs that ratepayers would pay if the proposed buy out
13 is approved. Under this scenario, the Capacity and Energy costs from 1997 to
14 2013 are the same as those listed under the contract since the proposed buy
15 out does not take effect until 2014. However, beginning in 2014 and extending
16 to 2023, the Capacity and Energy costs reflect the forecasted costs associated
17 with operating a gas fired combined cycle unit. This is the type of unit that
18 FPC assumes will replace the power that would have been provided under the
19 contract with OCL. Collectively, these columns are called the Replacement
20 Case since they reflect the costs that ratepayers will be obligated to pay if
21 the proposed buy out is approved and a replacement source of power is
22 required.

23 Finally, the forecasted costs under the Replacement Case are subtracted
24 from the forecasted costs under the Contract Case and a net present value
25 (NPV) calculation is performed on these differences. If this NPV is positive,

1 | the analysis shows that ratepayers are expected to be better off if the
2 | proposed buy out is approved. If the NPV is negative, the analysis shows that
3 | ratepayers are expected to be harmed if the proposed buy out is approved.
4 |

5 | Q. What changes did you make to this methodology in order to perform your
6 | risk analysis?
7 |

8 | A. I modified FPC's methodology in three ways. First, I replaced FPC's
9 | forecasted escalation rates for fuel prices and construction costs with
10 | escalation rates obtained from Data Resources Incorporated (DRI). Second, I
11 | changed the discount rate used to perform the NPV calculation in order to
12 | better reflect the risk the proposed buy out asks ratepayers to assume. And
13 | third, I performed a sensitivity analysis on the NPV calculation using DRI's
14 | base case, optimistic, and pessimistic forecasted escalation rates to arrive
15 | at a range of NPV values within which I could reasonably expect the ultimate
16 | NPV value to fall.
17 |

18 | Q. Why do you believe it is appropriate to use DRI's forecasted escalation
19 | rates for fuel prices instead of those used by FPC?
20 |

21 | A. There are three reasons why I believe it is more appropriate to use
22 | DRI's forecasted escalation rates instead of those used by FPC. First, I
23 | believe that FPC's long term natural gas price forecast (FPC's 9702 fuel
24 | forecast) may substantially underestimate the future market price of natural
25 | gas. As shown in my Exhibit 1, FPC's natural gas price forecast is much lower

1 | than those submitted by other Florida utilities in their 1997 Ten Year Site
2 | Plans. While this forecast may be appropriate over the near term due to
3 | existing natural gas contracts, by the time the proposed buy out occurs in
4 | 2014, any existing gas contracts FPC currently has will have expired and they
5 | will have to be renegotiated at prevailing market prices. Using the gas price
6 | forecasts of the other utilities as a consensus forecast of what these market
7 | prices will be indicates that natural gas prices will be higher than those
8 | used by FPC. Furthermore, my Exhibit 1 also shows that DRI's 25 year natural
9 | gas price forecast released in August 1997 conforms closely to the natural gas
10 | price forecasts of the other utilities. From this I conclude that DRI's
11 | natural gas forecast provides a reasonable estimate of future gas prices.

12 | Second, I believe that in order to justify the proposed buy out, FPC's
13 | analysis should be robust enough to stand up to the inclusion of reasonable
14 | forecast assumptions from reputable sources such as DRI. By using DRI's
15 | forecast assumptions in my risk analysis, I am able to measure the extent to
16 | which the cost effectiveness of the proposed buy out is dependent upon FPC's
17 | forecast assumptions.

18 | Third, the fuel price forecasts used by FPC are basically ten year
19 | forecasts that have been extrapolated forward an additional 17 years. The DRI
20 | forecasts on the other hand are taken from DRI's long term 25 year forecast
21 | released in August 1997. These forecasts cover all but the last year of the
22 | proposed buy out and, in my opinion, represent a better basis for estimating
23 | NPV savings.

24 | The DRI fuel price escalation rates used in my risk analysis are
25 | contained in my Exhibit 2.

1 Q. What is the impact on the NPV if DRI's forecasted fuel prices are used
2 instead of those provided by FPC?

3

4 A. The NPV savings are reduced from \$32.7 million to \$19.9 million.

5

6 Q. Why do you believe it is appropriate to change the escalation rate used
7 by FPC to estimate the cost of building a gas fired combined cycle unit in
8 2014?

9

10 A. The escalation rate used by FPC is not the correct price index to use
11 for estimating power plant construction costs. The escalation rate used by
12 FPC is derived from the GDP Fixed Investment, Durable Equipment price index
13 from DRI. This price index is designed to measure price changes of goods that
14 are durable in nature and that are used to equip existing business structures.
15 These goods include office equipment and furnishings, automobiles, personal
16 computers, and light machinery. A more appropriate escalator is the GDP Fixed
17 Investment Public Utilities Structures price index. This price index is
18 designed to measure changes in the cost of building electrical generation
19 facilities, telecommunications facilities, and other types of public utility
20 structures.

21 Additionally, the construction cost escalation rates used by FPC are
22 taken from DRI's May 1997 ten year forecast and have been extrapolated forward
23 an additional 17 years. The DRI forecasts used in my analysis are taken from
24 DRI's long term 25 year forecast released in August 1997. These forecasts
25 cover all but the last year of the proposed buy out and, in my opinion,

1 represent a better basis for estimating NPV savings.

2 The DRI ~~escalation~~ ^{Construction Cost} escalation rates used in my risk analysis are
3 contained in my Exhibit 3.

4
5 Q. What is the impact on the NPV savings resulting from using DRI's
6 escalation rates which you feel are appropriate instead of those provided by
7 FPC?

8
9 A. The NPV savings are reduced from \$32.7 million to \$28.0 million.

10

11 Q. What is the impact on NPV Savings when both the fuel forecast
12 assumptions and construction escalation rates are changed?

13

14 A. The NPV savings are reduced from \$32.7 million to \$15.2 million.

15

16 Q. Would you please explain why it is appropriate to change the discount
17 rate used by FPC to calculate the NPV savings to ratepayers?

18

19 A. Yes. The discount rate used by FPC is the company's current after tax
20 marginal cost of capital of 8.81 percent. This is the appropriate discount
21 rate to use when evaluating projects which are funded through the issuance of
22 FPC debt and equity, and that represent the type of financial risk normally
23 associated with FPC projects.

24 The proposed buy out, however, is neither being funded by the company
25 nor is it necessarily comparable to normal FPC projects in terms of its

1 financial risk. Under FPC's proposal, ratepayers are being asked to fund the
2 buy out and are being asked to assume all the financial risk associated with
3 it. Furthermore, some elements of the buy out appear to be much riskier than
4 others. For example, the projected Energy costs under the Replacement Case
5 are determined largely by the future price of natural gas, and are much
6 riskier than the Capacity costs under the Contract Case which are known with
7 certainty. Therefore, a more appropriate discount rate structure to use is
8 one that properly measures the risks ratepayers are being asked to assume and
9 sets the discount rates accordingly.

10

11 Q. What type of discount rate structure is appropriate?

12

13 A. I believe risk adjusted discount rates (RADR) are the appropriate
14 discount rates to use in evaluating the proposed buy out. This type of
15 discount rate is frequently used in capital budgeting situations where
16 different elements of a project have different levels of risk associated with
17 them. This is very similar to the situation we have here.

18

19 Q. How are risk adjusted discount rates calculated?

20

21 A. Risk adjusted discount rates are calculated by recognizing that discount
22 rates are composed of two components: a risk free rate and a risk premium.
23 The risk free rate is simply the market's perception of the current time value
24 of money when there is no risk associated with an investment. This rate is
25 typically measured by the U.S. Treasury Bond rate since it is backed by the

1 Federal government and is viewed as being virtually risk free. The risk
2 premium is the additional return investors require in order to accept the risk
3 associated with a particular investment. The greater the perceived risk, the
4 greater the risk premium investors will require to accept that risk.

5 For example, in June 1997, the average 30^{year} Treasury Bond rate for the
6 month was 6.77 percent and FPC's pre tax marginal cost of capital was 10.20
7 percent. The risk premium associated with FPC's ~~after~~^{pre} tax marginal cost of
8 capital would be the difference between the risk free rate of 6.77 percent and
9 the pre tax marginal cost of capital rate of 10.20 percent, or 3.43 percent
10 This risk premium represents the investment community's evaluation of the
11 return required to accept the risk associated with projects undertaken by FPC.
12 Furthermore, if another project from another company is viewed as being twice
13 as risky as a project undertaken by FPC, then the risk premium for that other
14 project can be estimated as being twice that of FPC's risk premium, or 6.86
15 percent. When combined with the risk free rate of 6.77 percent, the estimated
16 risk adjusted discount rate for the other project would be 13.63 percent.

17

18 Q. How did you apply the idea of risk adjusted discount rates to the
19 analysis of the proposed buy out?

20

21 A. Risk adjusted discount rates can be applied by recognizing that the
22 analysis presented in FPC witness Schuster's Exhibit 7 consists of five
23 separate expenditure flows: the Capacity and Energy costs under the Contract
24 Case (columns 1 and 2), and the Capacity, Energy, and Buy Out costs under the
25 Replacement Case (columns 4, 5, and 6). The values in two of these columns

1 are known with certainty. These are the Capacity costs under the Contract
2 Case and the Buy Out costs under the Replacement Case. Because there is no
3 risk associated with these expenditure flows, the appropriate discount rate
4 to use is the risk free rate as measured by the 30 year Treasury Bond rate.

5 Next, the Capacity costs under the Replacement Case (column 4) contain
6 the estimated costs of FPC building and operating an electric generating plant
7 (after including the Variable O&M costs recorded in the Energy cost in column
8 5). These costs were calculated by FPC by multiplying the estimated cost of
9 building a 79.2 MW plant by a Fixed Charge Rate that incorporates the
10 depreciation expense, taxes, and other expenses associated with operating a
11 plant of this size, as well as a reasonable return on the investment required
12 to build the plant. By assuming that the volatility, or risk, in this
13 expenditure flow is typical of the kind of risk that the investment community
14 associates with all FPC projects, we can then assign FPC's current pre tax
15 marginal cost of capital, 10.2 percent, as the financial market's current
16 assessment of the return required for this level of risk. From this, a risk
17 premium can be associated with the expenditure flow contained in column 4 by
18 subtracting the risk free rate from FPC's pre tax marginal cost of capital.

19 This risk premium is the market's current evaluation of the additional return
20 it requires in addition to the risk free rate to accept the riskiness, or
21 volatility, in this expenditure flow.

22 Next, risk adjusted discount rates can be estimated for the remaining
23 two columns, the Energy costs under the Contract Case (column 2) and the
24 Energy costs under the Replacement Case (column 5) by comparing the riskiness
25 or volatility in these expenditure flows to the riskiness of column 4, the

1 costs associated with building and operating a power plant. For example, if
2 the expenditure flow in column 5, the Energy costs under the Replacement Case,
3 are twice as risky as the expenditure flow in column 4, then the risk premium
4 for column 5 would be twice as large as the risk premium measured in column
5 4. This risk premium, together with the risk free rate, would yield the risk
6 adjusted discount rate for column 5.

7 As a final step, the risk adjusted discount rates are adjusted for the
8 effect of the ratepayers' income taxes to yield the after tax risk adjusted
9 discount rates. These discount rates reflect the return required to
10 compensate ratepayers on an after tax basis for the risks they are being asked
11 to assume.

12 With risk adjusted discount rates assigned to each of the five
13 expenditure flows, each expenditure flow can be discounted by its own risk
14 adjusted discount rate to yield its own NPV. The NPVs of columns 1 and 2 are
15 added together to produce the NPV of the Contract Case, and the NPVs of
16 columns 4, 5, and 6 are added together to form the NPV of the Replacement
17 Case. The NPV of the Replacement Case is subtracted from the NPV of the
18 Contract Case to yield the final NPV. If this final NPV is positive, the
19 analysis shows that the buy out proposal more than adequately compensates
20 ratepayers for the risks they are being asked to assume. If the final NPV is
21 negative, the analysis shows that the buy out proposal does not adequately
22 compensate ratepayers for the risk they are being asked to assume.

23
24 Q. How did you measure the riskiness, or volatility, in each of the five
25 expenditure flows in order to calculate the risk adjusted discount rates?

1 A. The risk in each of the five expenditure flows was calculated by
2 inserting DRI's base case, optimistic, and pessimistic 25 year forecast
3 assumptions for fuel prices and construction cost escalation rates in the
4 analysis performed by FPC. The variability in each expenditure flow was
5 compared to its average value to express the variability in percentage terms.
6 For example, if an expenditure flow varied by plus or minus \$10, and its
7 average value was \$100, its volatility or riskiness would be ten percent.
8 These calculations, along with the derivation of the risk adjusted discount
9 rates for each of the five expenditure flows, are presented in my Exhibit 4.

10

11 Q. Would you please describe how you performed your sensitivity analysis?

12

13 A. Yes. My sensitivity analysis consisted of calculating three sets of
14 expenditure flows like those shown in FPC witness Schuster's Exhibit 7. One
15 set was based upon DRI's August 1997 base case 25 year forecast assumptions
16 for fuel price and construction cost escalation rates. Another set was
17 calculated using DRI's pessimistic version of the same forecast, and the third
18 used DRI's optimistic version of the same forecast.

19

20 These three DRI forecast scenarios represent a reasonable range over
21 which future fuel prices and escalation rates can be expected to vary.
22 Similarly, the expenditure flows derived from these forecast scenarios provide
23 a reasonable measure of the economic risk FPC's proposed buy out presents to
24 its ratepayers attributable to the intrinsic uncertainty of future economic
25 developments.

25

1 Q. Would you please explain how you combined the elements you have already
2 described into a final risk analysis of FPC's proposed buy out?

3
4 A. Yes. Each of the three sets of expenditure flows calculated in the
5 sensitivity analysis was discounted using the risk adjusted discount rate
6 methodology I have described previously to yield a NPV. Each of these NPVs
7 was then weighted according to the probabilities DRI assigns to each of its
8 three forecast scenarios (base case = 50 percent, pessimistic = 25 percent,
9 and optimistic = 25 percent) and added together to yield a final NPV value
10 called the Expected NPV. From these results, we can obtain an estimate of the
11 likelihood that the NPV of the proposed buy out will be negative.

12

13 Q: What do the results of your risk analysis show?

14

15 A. My Exhibit 5 presents the results of my risk analysis. This exhibit
16 shows that the NPVs range from a low of negative \$38.3 million under DRI's
17 pessimistic forecast scenario, to a base case NPV of \$12.5 million, and up to
18 \$49.9 million under DRI's optimistic scenario, with an overall Expected NPV
19 of \$9.2 million. From these results I conclude that there is approximately
20 a 40 percent chance that ratepayers would be harmed if the proposed buy out
21 is approved, and approximately a 60 percent chance that they would be better
22 off if the proposed buy out is approved.

23

24 Q: Did you make any adjustments to this analysis to make it more applicable
25 to the proposed buy out?

1 A: Yes. Under DRI's pessimistic scenario which gives rise to the negative
2 \$38.3 million NPV, natural gas prices are projected to grow much faster than
3 coal prices. It seems reasonable to expect that if this scenario were to
4 occur that FPC would consider generation alternatives to the natural gas fired
5 combined cycle unit used in the analysis. For example, FPC might consider
6 adding a coal gasifier to the combined cycle unit to provide fuel diversity.
7 This would substantially increase the Capacity cost in exchange for the
8 ability to utilize a less expensive fuel. However, it also seems reasonable
9 to expect that if the generation market is deregulated by the year 2014, that
10 FPC might be reluctant to increase its fixed investment in a more expensive
11 plant because of the increased risk exposure such an investment would entail.
12 On balance, it seems reasonable to expect that if natural gas prices escalate
13 as described in DRI's pessimistic scenario, FPC could avoid the higher gas
14 prices by building a more expensive plant, but that course of action is not
15 certain.

16 To account for this uncertainty, I believe that it is appropriate to
17 reduce the weight assigned to DRI's pessimistic case from a 25 percent
18 probability to a 10 percent probability. This change reflects the likelihood
19 that FPC would react to avoid higher natural gas prices without completely
20 removing the probability that they would choose not to react.

21

22 Q: What do the results of your risk analysis show if you make this
23 adjustment to the weight assigned to DRI's pessimistic scenario?

24

25 A: As shown in my Exhibit 5, this change increases the Expected NPV from

1 \$9.2 million to \$18.7 million, and reduces the chances of the NPV going
2 negative from 40 percent to approximately 33 percent.

3

4 Q. How would you compare your risk analysis to that provided by FPC witness
5 Schuster?

6

7 A. As I have stated earlier, I believe my risk analysis provides a more
8 comprehensive evaluation of the risk of the proposed buy out. First, it
9 includes the latest available long term forecasts for the key economic
10 assumptions from which the final NPV values are derived. Second, it
11 incorporates a discount rate structure that evaluates the risk that the
12 proposed buy out asks ratepayers to assume at current market rates. Third,
13 it employs a sensitivity analysis to measure the extent to which the final
14 NPV can be influenced by varying economic conditions.

15

16 Q. How does your risk analysis differ from that presented by OPC witness
17 Larkin?

18

19 A. Mr. Larkin's analysis is similar to mine in the sense that we both
20 believe that the appropriate discount rate to use is the ratepayers' discount
21 rate, not FPC's marginal cost of capital. However, he sets his discount rate
22 within a range of 13 percent to 18 percent by noting that ratepayers typically
23 carry some credit card debt or some other form of unsecured loan. Therefore,
24 he believes the appropriate discount to use in evaluating the proposed buy out
25 is the ratepayers' opportunity cost of using the \$49.4 million to pay off

1 | these types of debt.

2 |

3 | Q. If both you and Mr. Larkin are measuring the discount rate from the
4 | ratepayers' perspective, why are the discount rates different?

5 |

6 | A. As I stated previously, Mr. Larkin bases his estimate of the ratepayer
7 | discount rate on the ratepayers' opportunity costs, an approach that I believe
8 | has merit. The approach I have chosen to take evaluates the proposed buy out
9 | as a potential investment opportunity in much the same way that an investor
10 | might evaluate the profitability of a long term investment opportunity using
11 | capital budgeting evaluation techniques. Stated another way, Mr. Larkin sets
12 | his discount rate from the point of view that ratepayers are retail customers
13 | of the credit markets while I set mine from the point of view that ratepayers
14 | are investors in the credit markets.

15 |

16 | Q: Did you perform any other risk analyses on the proposed buy out?

17 |

18 | A: Yes. I also performed a risk analysis based upon the same adjusted DRI
19 | scenario I described previously but set the discount rate equal to 10.9
20 | percent, mid-way between FPC's rate of 8.81 percent and OPC witness Larkin's
21 | rate of 13.0 percent. This discount rate was applied to each of the
22 | expenditure flows in the analysis.

23 |

24 | Q: What did this analysis show?

25 |

1 A. My Exhibit 5 presents the results of this risk analysis as well. This
2 exhibit shows that the NPVs range from a low of negative \$8.1 million under
3 DRI's pessimistic forecast scenario, to a base case NPV of negative \$0.9
4 million, and up to \$3.0 million under DRI's optimistic scenario, with an
5 overall expected value of negative \$0.5 million. From these results, I
6 estimate that there is a 50 percent chance that proposed buy out would result
7 in negative ratepayer saving, and a 50 percent chance that it would yield
8 positive ratepayer savings.

9
10 Q. In your opinion, how should the Commission interpret the results of your
11 risk analyses?

12
13 A: I believe my risk analyses demonstrate that the proposed buy out
14 contains a significant degree of risk which could financially harm ratepayers
15 if the proposed buy out is approved. This risk should be balanced, however,
16 against other factors introduced by Mr. Schuster and Mr. Larkin, but which are
17 beyond the scope of my testimony. Their factors include the issue of
18 intergenerational equity, the issue of reducing potentially strandable costs,
19 and the general desire to help Florida's utilities and their ratepayers avoid
20 the very high costs built into the latter years of contracts like this one.

21
22 Q. Does this conclude your testimony?

23
24 A. Yes, it does.

25

1 BY MR. KEATING:

2 Q Do you have any other changes to make to your
3 testimony or exhibits, Mr. Stallcup?

4 A No, I don't.

5 MR. KEATING: The witness is tendered for cross.

6 COMMISSIONER CLARK: Mr. Howe.

7 MR. KEATING: Commissioner Clark?

8 COMMISSIONER CLARK: Yes.

9 MR. KEATING: I apologise, I did not give
10 Mr. Stallcup the opportunity to summarize his testimony.

11 COMMISSIONER CLARK: All right. Go ahead,
12 Mr. Stallcup.

13 A Thank you. The purpose of my testimony is to
14 present the results of a risk analysis I performed on the
15 proposed buyout of the last ten years of the QF contract
16 between Florida Power Corporation and Orlando Cogen
17 Limited. In this analysis I view the proposed buyout as an
18 investment opportunity for ratepayers in which they are
19 asked to invest 49.7 million dollars over the next five
20 years in return for the opportunity to pay lower electric
21 bills in the future.

22 In conducting this analysis, I modified
23 Mr. Schuster's net-present-value calculation in two ways.
24 First, I reestimated the projected expenditure flows
25 associated with the buyout using economic assumptions

1 obtained from Data Resources, Incorporated. Second, I
2 applied a discount rate methodology designed to reflect the
3 financial markets current evaluation of the return
4 investors require to accept the risk associated with the
5 buyout.

6 This discount rate methodology is based upon the
7 following observations: First, the proposed buyout is an
8 option being made available to ratepayers by FPC;
9 therefore, it's appropriate to evaluate the proposal as an
10 investment opportunity.

11 Second, the buyout is entirely funded by
12 ratepayers and ratepayers are assuming all the risk
13 associated with the projected benefits; therefore, the
14 discount rate should reflect the ratepayers' investment
15 opportunity cost. This rate is not necessarily equal to
16 FPC's marginal cost of capital.

17 Third, in analyzing components of the buyout
18 proposal, it is clear that some of the elements of the
19 buyout are riskier than others and, therefore, require a
20 different risk premium in order to compensate investors for
21 accepting that risk. This leads to the adoption of
22 risk-adjusted discount rates which allows the discount rate
23 structure used to evaluate the buyout to reflect the
24 varying degrees of risk found within the proposal.

25 Fourth, because the ratepayer expenditure flows

1 that Florida Power Corporation expects its customers to
2 make?

3 A In each one of those years, the expectation is
4 that ratepayers would pay under the proposed buyout a
5 little less than 10 million dollars per year.

6 Q And to be a little more precise, would that be
7 nine million 881 thousand?

8 A Yes, I believe that's a correct figure.

9 Q Mr. Stallcup, did you hear Mr. Schuster's
10 testimony yesterday?

11 A Yes, I did.

12 Q Did you hear Mr. Schuster testify that the buyout
13 costs would not be currently tax deductible to Florida
14 Power Corporation?

15 A I believe I heard that, yes.

16 Q Mr. Stallcup, would you agree that if the buyout
17 costs are not tax deductible to Florida Power Corporation
18 in the year in which it occurred that the receipt from
19 customers of \$9,881,000 per year will be treated as taxable
20 income?

21 A I don't know, Mr. Howe. I'm really not a
22 specialist in taxes. I think I follow the logic of what
23 you're saying, but not being an expert in tax law, I really
24 don't know how to answer your question.

25 Q Would you know whether, if the receipts from the

1 customers would be treated as taxable income because the
2 expense to Florida Power Corporation would not be tax
3 deductible, that for Florida Power Corporation to recover
4 \$9,881,000 per year from its customers, it would have to
5 charge its customers a larger amount?

6 A If it were taxable?

7 Q Yes, sir.

8 A That would be correct; that logic flows.

9 MR. HOWE: I have no further questions.

10 COMMISSIONER CLARK: Mr. McGee.

11 EXAMINATION

12 BY MR. MCGEE:

13 Q Good morning, Mr. Stallcup.

14 A Good morning.

15 Q I have some questions for you on your
16 risk-adjusted discount rates that you used in calculating
17 the net present value of the ratepayer benefits from the
18 buyout.

19 A Okay.

20 Q I think you've covered this in your summary. I
21 just want to make sure we are clear. You've accepted the
22 general framework that Mr. Schuster used in his testimony
23 for calculating the NPV benefits, and you've applied that
24 same framework for your analysis?

25 A That's correct, yes.

1 Q Okay. And as I understand it, as a general
2 structure over this approach, you've developed two
3 scenarios, one that deals with the contract case; and in
4 there you developed capacity and energy costs assuming that
5 the OCL contract will be in effect for its full term. And
6 then the other scenario that we have called the replacement
7 case is one where you develop energy and capacity costs as
8 well as treating the buyout costs assuming that the last
9 ten years of the contract would be terminated and it will
10 be replaced by a combined cycle unit?

11 A Yes, that's correct. That's basically
12 Mr. Schuster's methodology, and I adopted that as well.

13 Q Now you indicated in your summary that you had
14 two differences, made two changes to the approach that
15 Mr. Schuster used, and one of them you identified as using
16 forecast information that was developed -- or that was
17 provided to you by DRI. Am I correct that that consists of
18 the use of DRI fuel forecasts as opposed to the Florida
19 Power fuel forecast that Mr. Schuster used?

20 A That's correct.

21 Q And also, you used a different DRI index than
22 Mr. Schuster used to escalate the cost of the combined
23 cycle unit?

24 A That's correct.

25 Q And then the other difference is the use of the

1 risk-adjusted discount rates?

2 A That's correct.

3 Q All right. When you -- the approach, as I
4 understand it, that you've used in developing these
5 risk-adjusted discount rates is that you start out by
6 trying to identify two components, a risk-free rate that
7 you equate to a 30-year Treasury Bill; and then you
8 identify a risk component that is reflective of Florida
9 Power's overall or average risk by subtracting the
10 risk-free rate from Florida Power's marginal cost of
11 capital; is that the approach so far?

12 A Yes, but I think it could be made clear if we
13 back up just a step and separate things just a little bit.

14 Q Sure.

15 A What I do is I recognize that interest rates,
16 discount rates consist of two components. There is a
17 risk-free rate that is generally accepted to be accurately
18 measured by long-term treasury securities, and then there
19 is a risk premium that is considered as well that is
20 combined with the risk-free rate to account for the
21 variability associated with a particular investment that
22 you're looking at. I used that information to calculate
23 the risk premium associated with Florida Power
24 Corporation's debt and equity.

25 Q All right. And that risk premium that you

1 derived is representative of Florida Power's overall risk
2 as a corporation?

3 A That's correct, yes.

4 Q Then going from that point, as I understand your
5 approach, you take that average risk premium and you adjust
6 it to reflect the relative risk that you associate with
7 each of the cash flows that have been identified for the
8 two scenarios, that being energy and capacity in the
9 contract case and energy, capacity and buyout costs in the
10 replacement case?

11 A Generally that's correct. Let me just modify
12 that a bit and make sure we are on the same page here.

13 Q Sure.

14 A Yes, I took Florida Power Corporation's pre-tax
15 marginal cost of capital, and from that I subtracted the
16 risk-free rate to get the risk premium associated with
17 variability or the risk associated with Florida Power
18 Corporation and used that risk premium as the basis to
19 calculate the risk premiums associated with other
20 components of the proposed buyout. That would include the
21 fuel component of the contract case and the fuel component,
22 energy component of the replacement case.

23 Q Okay. All right. And then after you've
24 developed these adjusted risk premiums, you apply them and
25 the risk-free rate to each of the cash flows to determine a

1 net present value. You sum those for the replacement case,
2 you sum those for the contract case, subtract the two and
3 come up with an overall net present value?

4 A That's correct.

5 Q Okay. You may need to help me here. I have been
6 looking at your Exhibit PWS-4 that was attached to your
7 testimony, and I understand you've developed and handed out
8 a revised PWS-4?

9 A Yes, I did.

10 Q Has that been identified?

11 COMMISSIONER CLARK: It's part of Exhibit 12?

12 Q All right. I would like to ask you some
13 questions about PWS-4 to hopefully walk through a couple of
14 these columns to make sure we understand how this approach
15 is actually being applied. In your, in the lower left
16 corner of that exhibit, you have a series of numbers that
17 is captioned "Risk Premium Derivation."

18 COMMISSIONER GARCIA: Mr. McGee, which one are we
19 working off of?

20 MR. MCGEE: Well, I think for purposes of what I
21 am describing right now, it's the same, essentially the
22 same in both exhibits.

23 COMMISSIONER GARCIA: Okay.

24 BY MR. MCGEE:

25 Q Maybe if -- It would be helpful to me,

1 Mr. Stallcup, if we used your original exhibit, and then
2 you can explain to me how the revised exhibit is modified
3 from that.

4 A That will be fine.

5 Q That will be fine? Okay. So if we are looking
6 at your original PWS-4 that was attached to your prefiled
7 testimony, in the bottom left-hand corner we have a risk
8 premium derivation, and that shows what we had just
9 described before. The 6.77 is what you've used as the
10 risk-free rate?

11 A That's correct.

12 Q And the sum of the third column shows 3.25%, and
13 that is the risk premium that is reflective of Florida
14 Power's overall risk?

15 A Actually that is the average of that column.

16 Q Okay. So it is reflective of Florida -- Then
17 that would be reflective of Florida Power's average risk?

18 A That's correct.

19 Q Okay. One point that I had a little difficulty
20 following, in your testimony on pages 9 and I think again
21 on page 10, you refer to Florida Power's average cost of
22 capital as being 10.20; but when I add these two numbers
23 together I get 10.02. Was that just a transposition error,
24 or --

25 A I think it may be. I think the correct number is

1 10.02 rather than 20. I believe that's correct, but I'll
2 have to go back and check.

3 Q Well, but I mean your calculation of the actual
4 risk-adjusted discount rate is based as a starting point on
5 this 10.02; is that correct?

6 A The calculations of my risk-adjusted discount
7 rates are based upon the 6.77 and the average of the risk
8 premiums of 3.25, and the 3.25 is derived from the numbers
9 you see above that I've labeled column 1 and 2. And it
10 does appear, and I'll have to go back and check and see if
11 this is correct or not, that the June '97 value for Florida
12 Power Corp's composite cost of capital is listed here as
13 10.02; and that number would be included in the calculation
14 of the average risk premium that I used in my analysis.

15 Q It would be included, but when you go through the
16 math, you end up with an overall cost of capital, a
17 marginal cost of capital for Florida Power of 10.02, which
18 is the result of adding together your two figures at the
19 bottom?

20 A I'm really not following you, I'm sorry.

21 Q Well, in your risk premium derivation, looking at
22 your original PWS-4, you show --

23 A It's in the exhibit here, okay.

24 Q You show 6.77 as the risk-free rate, and you show
25 3.25 as the risk premium?

1 A Yes.

2 Q When we add those two together, that comes to
3 10.02?

4 A Oh, I see what you're saying. Yes, that's true.

5 Q Okay. And then if we go up to your column 1, as
6 I understand what you're saying there, that the capacity
7 payments under the contract are known with relative
8 certainty and so you have assigned no risks to them?

9 A That's correct.

10 Q And that's reflected on the line that says
11 "Relative risk premium, zero," meaning that there isn't a
12 risk premium, and that shows also on the following line.
13 If we go over to column 2 and we look at the line that is
14 identified as "Relative Risk," there you show a figure of
15 .93. Now I take it that means that you concluded for that
16 column that the risk is less than Florida Power's average?

17 A Yes, that's correct. To be more appropriate, the
18 risk in that column is less than the risk observed in
19 column 4, which is the basis upon which I derive the
20 remaining columns, the relative risks of the remaining
21 columns.

22 Q Okay. You haven't determined that the risk for
23 the energy costs in -- the cash flow in column 2 is less
24 than the risk for the capacity cost in column 4. You
25 multiply 9.3 times 3.25, and is that how you derived the

1 figure of 3.03 on the line entitled "Relative Risk
2 Premium?"

3 A That's correct.

4 Q Okay. And if we go by way of example to column
5 5, you identify there a relative risk of 1.39. I take it
6 that that means that you have determined that the cash
7 flows for energy under the replacement case have a greater
8 than average risk or greater risk than the averages you
9 show in column 4?

10 A Yes, what that number means is that the risk
11 associated in column 5 is 1.39 times greater than the risk
12 observed in column 4.

13 Q Okay. Now if we -- well, go back to column 2.
14 We've talked about the relative risk of .93 and how that
15 produced the relative risk premium of 3.03 on the next
16 line. How did you then derive the risk-adjusted discount
17 rate of 3.74 on the line below?

18 A 3.74, my risk-adjusted discount rate, is
19 calculated by subtracting 3.03, the risk premium, from the
20 risk-free rate of 6.77.

21 Q And why did you subtract the risk premium from a
22 rate that already includes no risk?

23 A The appropriate treatment for this, the reason
24 for subtracting the risk premium is because these cash
25 flows being described in the proposed buyout are cash

1 outflows from the point of view of ratepayers, and the
2 appropriate way to compensate an investor for a risky cash
3 outflow is to subtract the risk premium; that is, to make
4 the rate at which he is having to pay lower. That
5 compensates him for accepting that risk.

6 Q And do you have any authority for the use of that
7 approach of subtracting a risk premium for a higher risk?

8 A Yes, I have -- I've relied on several sources.
9 It includes academic sources, experiences from everyday
10 world, and -- well, several others we can go through if you
11 like.

12 Q In your deposition, didn't you identify as a
13 source a reference to a text authored by Professor Brigham?

14 A Yes, I did.

15 Q Okay. And I'm having a copy of that passed out
16 right now. This is an excerpt from your Deposition Exhibit
17 7, and it contains the relevant portions. I would like to
18 ask you though if you would look through that and make sure
19 that is the portion of your exhibit that deals with
20 relative risk premiums and risky cash outflows?

21 A Okay.

22 (WITNESS REVIEWED DOCUMENT)

23 A Yes, it is.

24 MR. MCGEE: Okay. Madam Chairman, I'd ask that
25 this be marked for identification.

1 **COMMISSIONER CLARK:** Yeah, we'll mark it as
2 Exhibit 14.

3 **BY MR. MCGEE:**

4 **Q** I'd like to ask you, Mr. Stallcup, if you would
5 review that and show me in there where Professor Brigham
6 discusses subtracting a risk premium from a risk-free
7 rate.

8 **A** Okay. Inside the exhibit here are three pages
9 from the text, and it goes from page 403 to 405. I believe
10 the single most appropriate cite out of this entire
11 discussion would be on the second page, 404, on the
12 sentences which I have underlined and indicated with an
13 arrow. This sentence reads, "In this situation, the
14 decision maker must apply risk adjustments to cash
15 outflows, and the risk adjustment for a risky cash outflow
16 is the exact opposite of that for an inflow or the normal
17 risk adjustment."

18 **Q** All right. And that's your basis for making a
19 subtraction, meaning the opposite effect that you would
20 apply in a normal situation where you have risky cash
21 inflows. What I'm asking is not so much the authority for
22 the subtraction that you make but making that subtraction
23 from a risk-free rate. Does Professor Brigham indicate
24 that that's appropriate in this text?

25 **A** No, he doesn't. As a matter of fact, in this

1 article here, the example that he cites is one in which a
2 hypothetical utility -- well, actually it is an actual
3 utility company, Midwest Electric, is selecting between two
4 generation alternatives. One is a nuclear plant, and one
5 is a coal plant; and both of these alternatives would be
6 funded by the debt and equity of that company. And so to
7 account for the risk for an internally funded project such
8 as these two are, the risk adjustment would be made to the
9 company's marginal cost of capital; and that's the example
10 cited in this particular excerpt.

11 Q So this is not authority for subtracting your
12 risk premium from a risk-free rate; is that correct?

13 A This example does not cite that; that's correct.

14 Q And Professor Brigham indicates both in his text
15 and by way of example that the subtraction that he endorses
16 for risky cash outflows would be made to a utility's
17 marginal cost of capital; is that correct?

18 A In this discussion here it's correct, that he
19 says that for projects being funded by a company's debt and
20 equity the correct adjustment would be to the company's
21 marginal cost of capital, that is correct.

22 Q Right. And one would presume that the projects
23 that were being evaluated, the coal plant and the nuclear
24 plant by Midwest Electric, the purpose of that evaluation
25 would be to determine the most cost-effective alternative

1 for putting into rate base and, therefore, in customer
2 rates; would that be a logical assumption?

3 A Yes. Yes, I agree with that.

4 Q One other point I wanted to ask you about on this
5 text, when Professor Brigham makes his adjustment, and as
6 illustrated by his example, he makes that adjustment only
7 to the risky cash flows that he determines -- well, let me
8 rephrase it. He makes it to the cash flows that he
9 determines to be of higher than average risk but not to the
10 cash flows that are, that he evaluates as having average
11 risk? In this case he makes the downward adjustment only
12 for the nuclear plant and not for the coal plant; is that
13 correct?

14 A Yes, I think for the point of illustrating how
15 you treat risk premiums. Under the situation of whether he
16 entitles risky cash outflows, he just made that single
17 adjustment, but I believe that's only appropriate because
18 he wanted to illustrate his point; but here I'm trying to
19 figure out what Mr. Brigham intended as opposed to what is
20 actually said, so it's kind of hard to say.

21 Q Well, doesn't he indicate when he is explaining
22 his method, this somewhat counterintuitive approach, that
23 the objective is to penalize the cash flows that are
24 associated with higher risk so that you reach a result that
25 seems more appropriate?

1 A That is correct, that what he is trying to do is
2 adjust the risk premiums and, therefore, the discount rate
3 in such a way that you end up with intuitively consistent
4 results. I'm not sure -- From my point of view anyway,
5 even though -- Well, from my point of view, I'm not sure
6 it's necessarily counterintuitive that you subtract the
7 risk-free rate -- excuse me, you subtract the risk
8 premium. To me it is intuitive that you do that for cash
9 outflows. I would agree, however, that -- and consistent
10 with what Doctor Brigham says here -- it is different from
11 how you normally think about it with respect to investments
12 in which you have cash inflows, such as stocks and bonds
13 and perhaps investment projects that companies might be
14 considering engaging themselves in.

15 Q But you would agree with me that he explains his
16 rationale for making this subtraction because it's
17 necessary to achieve the right result?

18 A Correct.

19 Q And if the objective is to penalize that risky
20 cash outflow, then there would be no need to perform that
21 same operation on a cash flow as he shows here for the coal
22 plant that isn't risky relative to the nuclear plant?

23 A That's correct, yes.

24 Q If you'd look back to your PWS-4, isn't it
25 true --

1 **COMMISSIONER CLARK:** Let me ask you a question.
2 In order to agree with what you've done, we would have to
3 agree with your conclusion that -- What is the risky cash
4 outflow that you're discounting for or that you are
5 subtracting for?

6 **WITNESS STALLCUP:** In the buyout proposal?

7 **COMMISSIONER CLARK:** Yes.

8 **WITNESS STALLCUP:** Okay. The risk arises from
9 column 2 of the contract case, that's the energy component
10 of the contract, and that has risk associated with it
11 because of the uncertainty associated with coal prices.
12 The variability in the coal prices cause the net present
13 value to change, therefore, there is risk associated with
14 it.

15 There is also risk associated with --

16 **COMMISSIONER CLARK:** Let me ask it a different
17 way.

18 **WITNESS STALLCUP:** Okay.

19 **COMMISSIONER CLARK:** Why is this a riskier cash
20 outflow than a normal risk adjustment?

21 **WITNESS STALLCUP:** Column 2? I'm sorry.

22 **COMMISSIONER CLARK:** You've got to tell me like
23 in walking-around words.

24 **WITNESS STALLCUP:** Okay.

25 **COMMISSIONER CLARK:** I understand or I can buy

1 into the mechanics of it if I can buy into the philosophy,
2 and I don't understand the subtraction, why it is
3 appropriate to subtract it.

4 WITNESS STALLCUP: Why is it appropriate to
5 subtract the risk premium?

6 COMMISSIONER CLARK: Yeah, I'm looking at
7 Mr. Brigham's article.

8 WITNESS STALLCUP: Okay.

9 COMMISSIONER CLARK: He specifically links it to
10 the cost to decommission a radioactive plant, and he seems
11 to ascribe to that the fact that that's very risky because
12 I don't know that anyone has done it, at least to the point
13 of being able to completely shut down a plant, and so the
14 risk or the amount of outflow is probably very volatile, or
15 nobody can predict it; but for things known, such as the
16 investment in a coal plant, I guess those are things that
17 are more in line with the natural business of utilities;
18 it's been accomplished before.

19 WITNESS STALLCUP: Yes.

20 COMMISSIONER CLARK: That is what I get from his
21 article. Would that be correct?

22 WITNESS STALLCUP: Okay. Yes. Shall I respond
23 at this point?

24 COMMISSIONER CLARK: Yes.

25 WITNESS STALLCUP: Okay. I agree with you that

1 the risk associated with the coal plant is very typical and
2 what we are used to, and that risk that we are used to is
3 seen in my column 4 of the risk-adjusted discount rates.
4 That's where I make an assumption that the cost associated
5 with building the replacement cases combined cycle plant is
6 basically equivalent to the risk we are used to seeing in
7 utility operations, so that's where I derive my risk
8 premium.

9 COMMISSIONER CLARK: Okay.

10 WITNESS STALLCUP: Now the next step is to
11 observe that what we are looking at in the buyout is a
12 proposal in which customers are asked to pay all of the
13 cash flows. Under a typical, normal case as Doctor Brigham
14 calls it, the risk premium is appropriately added because
15 it's -- those are returns investors expect to receive; and
16 because those are cash inflows to investors, the risk
17 associated with regular utility operations is added to the
18 risk-free rate to compensate investors for accepting the
19 risk associated with normal utility operations.

20 COMMISSIONER CLARK: And the risk is they won't
21 get their money, right?

22 WITNESS STALLCUP: Yeah, there will be
23 variability in the amount of money that they get.

24 COMMISSIONER CLARK: Okay.

25 WITNESS STALLCUP: Where things kind of flip

1 around, if you will, and maybe this is where I lost you, if
2 you will, is that what we are looking at here are risky
3 cash outflows to the investors such that you don't add the
4 necessary compensation to accept the risk to the risk-free
5 rate. You subtract it from the risk-free rate, and there
6 are examples of this in the real world where this is
7 actually done. There are variable rate mortgages. There
8 are variable rate bonds where the rates paid by people who
9 are paying the return on these instruments are actually
10 paying rates less than the risk-free rate, and those are
11 real-world examples of where the risk premium is subtracted
12 because the person issuing the security or responsible for
13 the investment is assuming the responsibility for, or
14 accepting the risk themselves, and in order to be
15 compensated for accepting that risk, are paying a lower
16 rate.

17 So there are really two things going on here,
18 Commissioner. One is that the risk premium is set to the
19 capacity column in column 4, and that's based upon normal
20 utility operations; that's an assumption I made. It's a
21 pivotal assumption. The next thing that I did was that I
22 recognized these are cash outflows rather than cash
23 inflows, which requires a subtraction of the risk premium
24 to compensate investors for accepting the risk associated
25 with that investment.

1 **COMMISSIONER CLARK:** Go ahead, Mr. McGee.

2 **BY MR. MCGEE:**

3 **Q** Let me follow up a little bit on that. Looking
4 at PWS-4, your column 2 under the contract case, energy
5 payments, just to be clear, you've identified that there is
6 a risk that's associated with those energy costs unlike the
7 capacity cost in column 1, but you've identified the fact
8 that that risk is less than the average risk that you're
9 applying to this; is that correct?

10 **A** It's less than the risk observed in column 4,
11 yes. I think calling it an average risk might be
12 misleading. I used it as a benchmark, if you will, a means
13 to implement the methodology. In the literature, there is
14 something called an implementation problem, and that's a
15 problem where you have to figure out a methodology by which
16 to establish a risk premium, and as it happens, this
17 proposal presented a means by which to implement
18 risk-adjusted discount rates, and that's done by
19 identifying column 4 as being the benchmark, if you will,
20 the benchmark risk premium column.

21 **Q** And I don't mean to quibble over the labels that
22 we put on this.

23 **A** Okay.

24 **Q** But I was referring to this as an average risk
25 that you are using in column 4, because you had indicated

1 earlier that the 3.25 risk premium that you identified from
2 Florida Power overall represented the average risk of
3 Florida Power?

4 A Yes. Okay.

5 Q All right. Now we had discussed just a minute
6 ago that in Professor Brigham's example where he is
7 evaluating two cash flows he penalizes only the one that he
8 regards as having a higher than average risk?

9 A Yes.

10 Q He makes no such adjustment to the one with an
11 average risk. In your column 2, you have identified a risk
12 that is less than average, the 3.03, but you have
13 nonetheless subtracted it; is that correct?

14 A That's correct.

15 Q Let me ask you if you would agree with me that
16 there is another way of applying Professor Brigham's
17 treatment of risky cash outflows that at least could be
18 applied to the development of risk-adjusted discount rates,
19 and that would be, to reduce those cash flows that you have
20 identified as having higher than average risk, you would
21 make the subtraction that Professor Brigham endorses. With
22 that reduced risk premium to reflect riskier cash outflows,
23 you would add that to the risk-free rate. Is that a way
24 that this adjustment could be made?

25 A Would you repeat that for me, please?

1 Q Yeah, and I'm basing this approach on your
2 development of risk-adjusted discount rates with a
3 modification. You have already identified the particular
4 columns that you have concluded have higher than average
5 risk. That's the situation that Professor Brigham was
6 dealing with in his example with the nuclear plant, had
7 higher than average risk.

8 A And which columns are those?

9 Q Well, those would be columns 5 -- well, let's
10 just look at column 5.

11 A Okay.

12 Q Now you've identified that as having a risk of, a
13 relative risk of 1.39?

14 A Yes.

15 Q And you have added that additional risk to the
16 average risk, 3.25, to come up with the relative risk
17 premium you show of 4.53; is that correct?

18 A It's scaled up, yes, by that factor.

19 Q Now what I'm suggesting is a way to applying of
20 Professor Brigham's treatment of risky cash outflows would
21 be to subtract that increment of higher risk from 3.25 and
22 come up with a reduced risk premium, use that in
23 conjunction -- add to the risk-free rate and use that for
24 purposes of developing net present value. And my question
25 is, is that an approach that could be used consistent with

1 Professor Brigham's treatment?

2 A No, I don't believe it would be, and the reason
3 I have trouble accepting that alternative is that I draw
4 the distinction on the treatment of risk premiums as being
5 added or subtracted based upon whether or not they are cash
6 inflows or outflows, particularly with respect to the
7 buyout. I think a risk-free investment rate is a
8 reasonable benchmark around which to evaluate ratepayer
9 investment opportunity costs, so in this particular --
10 There may be situations where what you're talking about
11 would be appropriate, but I have difficulty with it because
12 it doesn't resolve, in my mind, the proper way to treat
13 risk and cash outflows versus inflows and also the way that
14 it might fit into the proposed buyout that we are looking
15 at here.

16 Q But you would agree with me that Professor
17 Brigham didn't make a downward adjustment for cash flows of
18 average risk?

19 A I beg your pardon?

20 Q I asked if you would agree with me that in
21 Professor Brigham's example he did not make a downward
22 adjustment for cash flows other than those of higher than
23 average risk?

24 A I believe in his example he had two alternatives,
25 one identified as being average in risk, if you will, which

1 would correspond to my column 4; and then another project
2 that had higher than average risk, which would correspond
3 to my column 5. I don't believe he had in his example cash
4 flows of less than average risk, if you will, which would
5 correspond to perhaps my column 2.

6 Q Well, isn't your column 4 representing the
7 capacity cost in the replacement case?

8 A Yes.

9 Q Isn't that analogous to the coal plant in
10 Professor Brigham's example because --

11 A Yes, that's correct.

12 Q And Professor Brigham made no adjustment for that
13 average risk, but in your column 4, you have subtracted the
14 risk premium from the risk-free rate; is that correct?

15 A That's correct, yes.

16 Q Okay. Have you ever proposed the use of a
17 risk-adjusted discount rate in any other proceeding before?

18 A No, I have not.

19 Q Do you know of any instance where any member of
20 the staff has proposed the use of a risk-adjusted discount
21 rate in a commission proceeding?

22 A No, I'm not. I'm not aware of one.

23 MR. MCGEE: Thank you.

24 COMMISSIONER CLARK: Mr. Childs.

25

EXAMINATION

1 BY MR. CHILDS:

2 Q Good morning.

3 A Good morning.

4 Q First I want to ask you to refer to your document
5 that shows -- it's a graph of forecast prices for natural
6 gas, and it's entitled "Comparison of 26 Years Natural Gas
7 Forecast." Do you have that?

8 A Yes, I do.

9 COMMISSIONER CLARK: What is it? Is it PWS what?

10 MR. CHILDS: PWS-1.

11 COMMISSIONER CLARK: Okay.

12 BY MR. CHILDS:

13 Q In your testimony you identified these various
14 forecasts here as being submitted by other Florida
15 utilities in their 1997 ten-year site plans; is that
16 correct?

17 A I can't remember the exact words I used; but,
18 yes, they are all -- I do attribute these to the ten-year
19 site plans.

20 Q Okay. And you describe these, I believe in your
21 testimony, as consensus, the consensus forecasts; that is,
22 the ten-year site plan?

23 A That was my inference, yes. I believe I stated
24 in my testimony that I could look at these projections
25 contained on this graph and conclude that taken together in

1 a loose judgmental way you could see what a consensus
2 forecast would be.

3 Q Okay. But would you agree that what your Exhibit
4 PWS-1 actually shows is the ten-year site plan forecast for
5 utilities, most of which conclude in the year 2006 or 2005?

6 A I'm not sure if it's most; but, oh, say roughly
7 half, yeah.

8 Q Okay. And then you have escalated those
9 forecasts that terminate at the earlier date throughout the
10 period 2023?

11 A For those -- Yes, the way I developed this
12 graph is that I took the fuel price projections contained
13 in the ten-year site plans, and for those utilities that
14 only produced fuel forecasts through 2005 or 2006, I took
15 the last year's growth rate observed in their forecast and
16 carried it forward for the remaining 27 years.

17 Q But it is correct that these, for those forecasts
18 where you made that calculation, that the resulting
19 forecast for the year 2023 is not properly identifiable as
20 being a utility gas forecast?

21 A It would be correct that it would be based upon
22 the utility company forecast, but I performed the
23 extrapolation, they did not.

24 Q Do you know whether the utilities that presented
25 these gas forecasts foresaw the same economic conditions?

1 A I beg your pardon?

2 Q Do you know whether the electric utilities that
3 presented the forecasts that are included in your Exhibit
4 PWS-1 foresaw the same economic conditions?

5 A No, I did not.

6 Q Did you ask them?

7 A No, I did not.

8 Q Did you review their ten-year site plan to see if
9 there was a difference in assumptions by the utilities?

10 A No, I did not.

11 Q Now as I understand your testimony, you have used
12 or you've referred to these other forecasts as a basis to
13 support the reasonableness of the DRI fuel forecasts that
14 you have used later on in your testimony; is that a correct
15 assumption?

16 A Yes, it's correct that I compared the DRI
17 forecast to these other forecasts for fuel prices to the
18 other utilities in the state to determine if the DRI
19 forecast somehow looked out of the ordinary with respect to
20 what other utilities in the state were forecasting. I used
21 it as a device to determine the reasonability of DRI's
22 forecast.

23 Q And then if I look at PWS-1, I will see what you
24 have identified in the second box in the legend on the
25 right as the DRI base-case forecast that you plotted on

1 this graph?

2 A That's correct.

3 Q But you have not shown the pessimistic DRI
4 forecast anywhere on this graph?

5 A That's correct.

6 Q Would the pessimistic case for DRI be consistent
7 with what you've characterized to be the consensus?

8 A If we were to plot the DRI pessimistic gas price
9 forecast, it would lie about two thirds of the way between
10 the DRI forecast -- I'm sorry, the pessimistic or the
11 optimistic?

12 Q Pessimistic.

13 A Oh, pessimistic would lie about as far above the
14 base-case forecast as the Power Corp forecast lies below
15 it.

16 Q Okay.

17 A And if you would like, I can point you to where
18 the numbers in that gas price forecast are contained.

19 Q I think those are in your PWS-2.

20 A I believe they are, yes.

21 COMMISSIONER CLARK: I'm sorry, Mr. Stallcup,
22 would you say again where the pessimistic case graph would
23 lie approximately?

24 WITNESS STALLCUP: Okay, give me just a second so
25 I can make sure I can get it right.

1 (WITNESS REVIEWED DOCUMENTS)

2 WITNESS STALLCUP: The pessimistic gas price
3 forecast would begin at the same point as the base case but
4 would end in the year 2023. I'm going to point here a
5 little bit. Over on the right-hand axis, there at the
6 top index line here, about halfway along that top box is
7 where it would intersect the year 2023, right there
8 (indicates). The actual numerical value in that year is
9 \$10.57.

10 Q So you would plot that \$10.57 on this chart at
11 the place where you indicated?

12 A Yes, that's correct, 10.57.

13 Q Isn't the \$10.57 price exclusive of
14 transportation?

15 A Yes, I believe it is.

16 Q So if we added the transportation cost to this,
17 would you agree that it would be off the chart?

18 A I'll agree subject to check. I can't remember
19 what the value of transportation is in that year.

20 Q All right. Now is it correct that the basis for
21 the pessimistic and optimistic DRI fuel forecast that you
22 have included in your testimony --

23 A Excuse me. Excuse me, sir. May I check
24 something?

25 Q Sure.

1 A Because I may have answered you incorrectly.

2 (WITNESS REVIEWED DOCUMENT)

3 A I'm sorry, I did answer you correctly. The
4 prices plotted for DRI do not include transportation.

5 Q All right. Therefore, it would be off the chart?

6 A Yes.

7 Q Now is it correct that the basis for your data on
8 Exhibit PWS-2 as to DRI fuel forecasts, the pessimistic and
9 the optimistic, is a telecopy from Standard and Poors dated
10 September 17, 1997?

11 A That's correct.

12 Q And so this data is not published in generally
13 available data, would you agree?

14 A Part of it is, part of it is not. What the
15 base-case price escalators labeled here as the trend long,
16 that's DRI vernacular for base case, is published to those
17 people who subscribe to the DRI services; however, the
18 optimistic and pessimistic cases are not published and you
19 can only obtain them if you call and ask.

20 Q And also, the conditions, the specific conditions
21 related to this fuel forecast, the pessimistic case and the
22 optimistic case are not published either, are they?

23 A I beg your pardon?

24 Q The data in which the optimistic and pessimistic
25 forecasts are based, that is, the assumptions on which the

1 forecasts for DRI are based other than trend long are not
2 published either and then, therefore, not generally
3 available?

4 A No, that is not exactly correct. The scenarios
5 under which the base case, optimistic and pessimistic
6 cases, are generated are verbally described in the
7 publication; but the specific numbers, calculations and
8 models themselves, if you will, that produce the forecast
9 are not published.

10 COMMISSIONER CLARK: Pessimistic case means it's
11 going to be higher than predicted, right?

12 WITNESS STALLCUP: Yes, that's correct, and
13 optimistic is that inflation will not be as high as the
14 base case and, therefore, prices are lower.

15 COMMISSIONER CLARK: And this is for people who
16 buy gas as opposed to people who sell it; is that right?

17 WITNESS STALLCUP: The gas price forecast we are
18 looking at here? Yes, this is the price that is a utility
19 natural gas price, is what DRI forecast, and it's the price
20 that utilities pay for natural gas.

21 COMMISSIONER CLARK: Do they call it the
22 pessimistic case?

23 WITNESS STALLCUP: Their vernacular is pessilong
24 for pessimistic long-term forecast, and then they add to
25 the end of that the date that the forecast was generated;

1 but yes, they do call it a pessimistic case. It's
2 pessimistic in the sense that inflation will be higher than
3 anticipated, and that's in their view a pessimistic
4 economic outlook.

5 COMMISSIONER CLARK: Okay.

6 Q Would you turn to your Exhibit PWS-2 and look at
7 the column on the, it's three columns on the right. It
8 says PPI natural gas prices, and then trend long, pessilong
9 and optilong.

10 A I have it.

11 Q And those really are the forecast prices that you
12 have used in conducting your sensitivity analysis and
13 your computation of the risk-adjusted returns; is that
14 correct?

15 A That's correct. What's contained here for the
16 1997 price is Florida Power Corporation's price for natural
17 gas, excluding of transport. Then I took Power Corp's 1997
18 number and escalated those prices based upon the DRI
19 escalation rates for each one of the economic scenarios.

20 Q Is the DRI -- are the DRI forecasts, trend long,
21 pessilong and optilong, are those for spot market prices?

22 A I believe it's a composite of all prices. That's
23 the way it --

24 Q You believe it's a composite?

25 A Yes, that's the way it was described to me. What

1 I did when I obtained my assumptions from DRI is I called
2 them and said, This is the situation that I'm dealing with.
3 What are the appropriate price indices to use? And they
4 pointed me to these particular indices, and so I relied on
5 their judgment as this is the proper price index to use;
6 and so I would presume it is an overall composite cost of
7 what it costs to deliver gas. They don't specifically
8 break it down into firm prices or spot prices.

9 Q Do you know -- well, no, I'm distinguishing
10 between spot prices -- Well, let's ask the question this
11 way. Do you know whether it includes the price for
12 interruptible gas?

13 A I would presume that it would, if it's supposed
14 to properly account for all prices.

15 Q Is it a national average?

16 A Yes, it is. It is a national average.

17 Q Do you know whether there are any reporting
18 services that report the price of natural gas on a sector
19 basis?

20 A I believe that there are.

21 Q Have you reviewed those?

22 A No, I have not.

23 Q Do you consider yourself an expert in the
24 forecasting of natural gas prices?

25 A No, I would not.

1 Q Do you consider yourself an expert in the
2 forecasting of any fuel prices?

3 A Only to the extent that I know where to go to get
4 reputable escalation rates on a national average basis and
5 then apply those escalation rates to existing gas prices
6 within a region and, thereby, presume that I've probably
7 accounted for any regional differences, at least initially
8 during the first years of the analysis, accounted for any
9 regional differences that may exist across the country.

10 Q I take it that these prices are supposed to be
11 well-head prices?

12 A I believe they are -- yes, they are commodity
13 prices, yes.

14 Q Okay. Now would you then suspect that the
15 commodity dealers that were selling natural gas would have,
16 if they paid the fee, would have access to the DRI forecast
17 of prices?

18 A Oh, yes.

19 Q And if they were approached by someone to
20 contract on a long-term basis for natural gas, would they
21 rely upon this data as the basis for signing a contract?

22 A I don't know.

23 Q Well, that's important in knowing the risk, isn't
24 it?

25 A They may use these numbers to help assess the

1 risk, but whether or not they would base their contractual
2 terms on these particular numbers, I have no way of
3 knowing.

4 Q Well, would you expect, or did you account for in
5 your estimate whether a supplier of gas might be willing to
6 sign a long-term contract for gas at a price that was
7 significantly below the pessilong level that you have shown
8 here?

9 A No. The only application I used for these prices
10 was to include it in my analysis to measure the sensitivity
11 of the contract buyout to expected variations in gas
12 prices.

13 Q And I think that's what I'm trying to get to, is
14 that if you have -- You have determined the variation in
15 gas prices by your selection of the DRI forecast, correct?

16 A Yes, that's correct.

17 Q And then you have used that variation in forecast
18 prices that you selected in quantifying the risk associated
19 with this project in a later calculation that you
20 performed?

21 A That's correct.

22 Q What I'm asking you is did you consider that this
23 risk that you assume exists doesn't exist at all?

24 A I did not consider that.

25 Q Are you familiar with this Commission's decision

1 recently in the Tallahassee, City of Tallahassee
2 determination of need proceeding?

3 A I'm familiar with that proceeding.

4 Q Would you agree that in that proceeding the City
5 of Tallahassee submitted several forecasts of gas prices
6 and also maintained to this Commission that bids that it
7 had received were below those forecast gas prices?

8 A I am aware that in that proceeding the gas price
9 forecast did appear lower than perhaps some expected, but
10 beyond that, I have no further knowledge.

11 Q I want to pass out a copy of that order, please.
12 It's the order from the Commission, and it is Order Number
13 PSC-97-0659-POF-EM.

14 COMMISSIONER CLARK: You want us to take official
15 recognition of that notice?

16 MR. CHILDS: I ask that you do that, please.

17 COMMISSIONER CLARK: All right. We will take
18 official recognition of 97-0659-POF-EM.

19 BY MR. CHILDS:

20 Q Mr. Stallcup, there is a section in that order,
21 section IV, Roman numeral IV, headed "Fuel Supply,
22 Transportation and Storage." Would you turn to that? I
23 don't have a page reference because my copy of the order is
24 from the computer instead of the --

25 A Okay. Of section IV, you say?

1 Q Heading Roman numeral IV.

2 MR. KEATING: That's page 16.

3 Q Okay.

4 A I see section IV, "Fuel Supply, Transportation
5 and Storage."

6 Q Okay. Now would you turn to the third full
7 paragraph under that heading?

8 A I see it.

9 Q And then would you read from the bottom of that
10 paragraph the sentence starting seven lines from the
11 bottom? It starts with the words, "Although the City's."

12 A I see it. Shall I read? "Although the City's
13 natural gas price forecast is significantly lower than most
14 external forecasts, the City considered this actual
15 competitive offer to be the best current indicator of
16 future or natural gas prices." Exhibit 2, page 84, "The
17 City also believes that long-term price bids typically
18 include a risk premium in the latter years and, thus,
19 represent a conservative (high) estimate of actual fuel
20 prices."

21 Q Okay. Would you accept, or do you know -- do you
22 know whether this Commission accepted the rationale of the
23 City of Tallahassee and concluded that the proposed bids
24 that were lower than forecast were reasonable?

25 A I don't know.

1 Q Okay.

2 COMMISSIONER CLARK: Mr. Childs, is it in the
3 order somewhere?

4 MR. CHILDS: Yes, but he said he wasn't familiar
5 with it, so I was --

6 Q If you will turn to 1, 2, 3, 4, 5 paragraphs
7 beyond that, the paragraph starts with, "The City's August
8 1995, RFP."

9 A Yes.

10 Q And if you will read in the middle of that
11 paragraph, it says, "Both bidders." Do you have that
12 language?

13 A Yes, I do.

14 Q And it reflects that both bidders updated their
15 offers, and the City believes it can purchase natural gas
16 at a lower price than was contained in their original
17 offer, right?

18 A Yes.

19 Q And then ultimately, the bottom sentence in that
20 paragraph states, "We believe this decision by the City is
21 reasonable and prudent." And in that context, wouldn't you
22 conclude that this Commission was aware that a bid price
23 was substantially low for natural gas and substantially
24 below the forecast price for natural gas as a first point?

25 A It appears to be.

1 Q And that the City maintained to this Commission
2 that the forecast -- excuse me, that the bid price was a
3 reasonable estimate as opposed to the forecast, which the
4 Commission accepted as a principle?

5 A It appears to be from the excerpts that I have
6 read here, yes.

7 Q And further, that although the bid was below the
8 forecast, the City elected not to sign a contract based
9 upon that bid but to wait until some future date?

10 A Yes.

11 Q Wouldn't that suggest to you -- And the
12 Commission found that to be reasonable?

13 A Yes.

14 Q Wouldn't that suggest to you that they didn't
15 expect the natural gas forecast to increase from that point
16 forward?

17 A Perhaps.

18 Q Okay. Now do you think that Florida Power
19 Corporation could obtain the same kind of a bid for natural
20 gas that the City of Tallahassee could obtain or did
21 obtain?

22 A I don't know.

23 Q Okay. Would you agree that the electric
24 utilities have the obligation to provide service to their
25 customers?

1 A Yes, they do.

2 Q And that Florida Power Corporation's obligation
3 to serve and its need for power was the basis for the
4 contract that it signed with OCL?

5 A Yes, I'll accept that.

6 Q And wasn't the price of the payments under that
7 contract evaluated by this Commission on the basis of a
8 forecast of Florida Power Corporation's cost to build and
9 operate a power plant?

10 A That's correct.

11 Q And absent that contract with OCL, wouldn't
12 Florida Power Corporation have had to build and operate a
13 power plant to meet its obligation to serve?

14 A I presumed that to be correct, yes.

15 Q When the Commission evaluated the OCL contract,
16 did it evaluate it as an investment opportunity being
17 offered to FPC ratepayers and, thus, assess whether it
18 would provide a reasonable return to the ratepayer?

19 A I wasn't involved in that particular docket, but
20 I believe it is correct that when the alternatives were
21 being assessed, they were assessed as investments funded by
22 the utility; and I think, and I'm not sure about this, but
23 I think the utility's marginal cost of capital was used to
24 evaluate the avoided unit and, I think, the terms of the
25 contract.

1 Q I want to -- Would you agree then that when the
2 Commission evaluated the OCL contract with Florida Power
3 Corporation that it evaluated it assuming that ratepayers
4 would pay the cost of that contract?

5 A Yes, I believe that's correct.

6 Q And they assumed as an alternative that if the
7 Power Corp had built a coal unit or some other unit that
8 ratepayers would pay the cost associated with that
9 alternative as well?

10 A Yes.

11 Q So when we speak of cash inflows and outflows,
12 wouldn't you agree that in that very case there was a cash
13 outflow and a cash inflow that this Commission considered?

14 A I think in the evaluation, yes, you would look at
15 both cash inflows and cash outflows. I think, but like I
16 said before, I didn't work on the order so I'm not sure, I
17 think the analysis was probably performed on the net
18 income, if you will, of each project and that those are
19 cash inflows.

20 Q Well, they're cash outflows to the customers,
21 aren't they?

22 A True.

23 Q So meaning you couldn't -- in fact, for a utility
24 it doesn't have any inflow unless there is a cash outflow
25 from a customer, isn't that correct, in this context?

1 A That is true, they are a transaction; and
2 whenever somebody receives a payment, somebody else is
3 paying it.

4 Q Sure. So, I mean to the extent that we talk
5 about cash outflows in this case, there are cash outflows
6 from the customer in every evaluation of generating
7 alternatives, are there not?

8 A There are, but if you're evaluating those
9 generation alternatives from the point of view of the
10 utility, payment for those generation alternatives would be
11 cash inflows, especially on a net income basis; and that
12 would be treated with an addition of a risk premium if that
13 is where we are going.

14 Q Are you familiar with the term "revenue
15 requirements?"

16 A Yes, I am.

17 Q Would you agree that "revenue requirements," as
18 that term is used in the electric utility industry, is the
19 result of multiplying the rate of return times investment?

20 A Yes.

21 Q And so the revenue requirements may vary?

22 A Yes.

23 Q When the investment is fixed, which result in a
24 difference in the earned rate of return?

25 A Yes.

1 Q Okay. Do you consider advanced capacity payments
2 to qualifying facilities to be a cash outflow that should
3 be evaluated on the basis of a risk premium?

4 A I don't know what advanced capacity payments are.

5 Q Are you familiar with the payment to qualifying
6 facilities under this Commission's rules and approved
7 tariffs of amounts for capacity in advance of the need for
8 that capacity?

9 A No, I'm not.

10 Q If there were such a payment, would you consider
11 that payment to be an investment opportunity offered to the
12 utility's customers?

13 A Before I can answer that, you'll have to explain
14 to me precisely what those payments are.

15 Q Well, let's make -- I will try.

16 A Okay.

17 Q But in doing so let's make an assumption that we
18 have -- Are you familiar with the term of "value of
19 deferral?"

20 A Yes.

21 Q And you're familiar with the general shape of the
22 cost stream or revenue stream that result from the
23 application of that method?

24 A Yes.

25 Q All right. Now let's assume that seven years in

1 advance of the in-service date for the facility, the
2 generating facility, that the qualifying facility receives
3 a payment from the electric utility that is equal to -- and
4 let's pick a number and say 20% of the first year capacity
5 payment based upon a value of deferral basis.

6 A Okay.

7 Q Do you consider that payment to be an investment
8 opportunity afforded the customers of the utility? Oh, by
9 the way, the advanced payment is recovered from customers
10 as it is paid.

11 A No, I wouldn't see that in exactly the same
12 framework. I don't see it in the same framework as I see
13 the proposed buyout.

14 Q Okay. Would you agree that all payments to
15 qualifying facilities by electric utilities are recovered
16 from customers?

17 A Yes.

18 Q And that they are recovered through an adjustment
19 clause mechanism?

20 A Yes.

21 Q And that they're --

22 A That is my understanding, yes.

23 Q And that they're -- Excuse me.

24 A That is my understanding, yes.

25 Q And that they are recovered on the basis of

1 forecasting of costs associated with payments to qualifying
2 facilities so that --

3 A Yes, I believe so.

4 Q Okay. Now are you familiar with -- when I asked
5 you about the general shape of the cost to revenue stream
6 based upon a value of deferral basis, are you generally
7 familiar with the shape of the cost or revenue stream based
8 upon a revenue requirements basis?

9 A Yeah.

10 Q And would you agree that in general, under
11 revenue requirements, the payment level is higher in the
12 early years and lower in the later?

13 A Yes.

14 Q And the opposite occurs for the value of deferral
15 methodology?

16 A Correct.

17 Q And what is the standard method for recovery of
18 costs for a power plant by a utility when it builds that
19 power plant, the revenue requirements basis or the value of
20 deferral basis?

21 A Revenue requirements basis.

22 Q So if Florida Power Corporation had built a plant
23 that was used as the basis to evaluate the OCL contract,
24 the cost that the customer would have seen would have been
25 based upon the revenue requirement methodology?

1 A Yes.

2 Q And would have exceeded the payments that were,
3 in fact, calculated under the value of deferral methodology
4 for the early years of that contract?

5 A Correct.

6 Q Do you know at what point in the contract one
7 would expect a crossover to occur of the payment stream?

8 A I haven't done that calculation, but I believe
9 it's somewhere along halfway.

10 Q Do you know -- when you answered that question,
11 are you answering that in absolute dollars or on a
12 net-present-value basis?

13 A I don't know. The basis of my prior answer was
14 having seen a graph of how the numbers intersect, and I
15 don't recall if they are net-present-value basis or not.

16 Q Okay. Are you aware that this Commission
17 routinely looks at that type of information for alternative
18 types of generation?

19 A I would think that they would, yes.

20 Q And they would also look at fuel forecasts and
21 how those forecasts might affect the cost of a generating
22 option, correct?

23 A Yes.

24 Q Are you familiar with the acid test?

25 A I know of the acid test, yes.

1 Q Would you agree that the acid test has been used
2 by this Commission in connection with the review of
3 generating alternatives, one of which was natural gas?

4 A I'm not aware of that.

5 Q Okay. Do you have any evidence on a historic
6 basis in the last five or ten years that the difference
7 between gas and coal that you show in your DRI forecasts
8 has, in fact, occurred in the past?

9 A The increasing price differentials between the
10 two?

11 Q Yes.

12 A No, actually, I think historically it would have
13 gone the other way. Natural gas prices have come down
14 since the deregulation of different sectors of that
15 industry.

16 Q And hasn't that been the basis of the
17 Commission's decision to apply the acid test in evaluating
18 generating alternatives, to recognize that trend in fuel
19 prices?

20 A I don't know, since I'm really not familiar with
21 the basis or the application of the acid test, so I don't
22 know.

23 COMMISSIONER CLARK: You know, I realize that I
24 have been here a while, but I sure don't remember the
25 particulars of the acid test. I know he said he remembered

1 it.

2 **WITNESS STALLCUP:** I remember hearing the term,
3 and I think it presumed some constant differential between
4 fuel prices; but other than that, I mean that is as far as
5 my knowledge goes.

6 **MR. CHILDS:** Commissioners, I don't think I'm
7 going to question further, but I will cite it, and it's the
8 Cypress decision of this Commission; and I will get the
9 order number in a moment. And there was a discussion in
10 there that the Commission had applied the acid test and had
11 applied the acid test in another proceeding involving Tampa
12 Electric. The order number to which I refer is
13 PSC-92-1355-POF-EQ.

14 **COMMISSIONER CLARK:** Are you just citing that
15 for my benefit?

16 **MR. CHILDS:** Yes, because I'm going to rely on
17 it, and I will ask that you take administrative notice of
18 that order.

19 **COMMISSIONER CLARK:** All right. What is it
20 again?

21 **MR. CHILDS:** It is Order Number
22 PSC-92-1355-POF-EQ.

23 **COMMISSIONER CLARK:** Do you have a copy of that
24 order?

25 **MR. CHILDS:** I do. I have several copies. I

1 just would like to have --

2 COMMISSIONER CLARK: Just tell me who is listed
3 on it.

4 MR. CHILDS: As commissioners?

5 COMMISSIONER CLARK: Yes.

6 MR. CHILDS: Terry Deason and Betty Easley.

7 COMMISSIONER CLARK: Okay. That may be why I
8 don't recall the particulars.

9 MR. CHILDS: I don't like to think how long ago
10 it was.

11 COMMISSIONER CLARK: Go ahead.

12 BY MR. CHILDS:

13 Q I want to -- as a general question as to your
14 risk-adjusted discount rate methodology, I gather from
15 looking at how you've applied the methodology that when I
16 look to your PWS-4, page 1, that if the Commission were
17 confronted with two alternatives for generation, that those
18 alternatives would fit under the categories that you have
19 outlined on your PWS-4 as well as what you've included here
20 now, would that be correct?

21 A I'm sorry, I didn't understand your question.

22 Q Well, let's say the Commission were evaluating,
23 not what it has in this case, but it was evaluating the
24 generation alternative of a natural gas unit on the one
25 hand, which is what you show in Columns 4, 5, 6, and 7,

1 correct?

2 A Absent the buyout cost, yes.

3 Q Yeah. And that on the left it was evaluating a
4 coal unit, correct?

5 A Yes. We could put in there the projected
6 capacity cost for a coal unit, yes, you could.

7 Q Capacity cost, energy cost, and we could do a
8 risk-adjusted calculation. What would you get when you got
9 to the end of that in way of a quantification of costs?

10 A It would depend on how you set up the discount
11 rate, what the presumption there was. And I think in the
12 evaluation of two generating alternatives the discount rate
13 should be directly derived from the company's marginal cost
14 of capital, after-tax cost of capital. And I think the
15 appropriate way to do that would be to -- a very feasible
16 way to do that would be to perhaps adjust the discount
17 rates in accordance to the risk associated with both the
18 projected capacity components and energy components in much
19 the same way that I would suppose that the company would
20 have done when they were laying out their alternatives.

21 And you would have ended up with a
22 net-present-value number, had you taken that approach, such
23 that if you were to subtract, in this case here, the
24 numbers on the right-hand side from the numbers on the
25 right-hand (sic) side a net-present-value number that would

1 show whether or not the gas-fired plant was a beneficial
2 alternative or a beneficial option to the coal-fired plant.
3 If that net present value were positive, it would show that
4 the gas-fired plant was the preferable choice as opposed to
5 the coal plant.

6 Q What would show --

7 A It would be a decision tool, if you will.

8 Q I'm sorry?

9 A It would be a decision tool to choose.

10 Q A decision tool?

11 A Yes, to choose which alternative is more
12 favorable.

13 Q Okay. Would you agree that in the past this
14 Commission in making decisions as to the most effective
15 cost alternatives has used the utility's after-tax cost of
16 capital as the discount rate?

17 A Yes.

18 Q And that it has used the after-tax cost of
19 capital in setting the avoided-cost payments for capacity
20 by utilities?

21 A Yes.

22 Q If you'd look at your Exhibit PWS-4, column 4.

23 COMMISSIONER CLARK: Mr. Childs, I'm assuming
24 that you're talking about the one attached to his
25 testimony, not what was revised.

1 MR. CHILDS: Yes, I am, and any questions that I
2 have -- I'm sorry, Commissioner, I intended to make that
3 clear. Any of the questions I have are going to relate to
4 what is attached to the testimony as originally prefiled.

5 WITNESS STALLCUP: Yes, that's my understanding.

6 BY MR. CHILDS:

7 Q All right. And this is for illustration, but if
8 I look at column 4, that is based upon the estimate of
9 costs for the combined cycle unit for Florida Power
10 Corporation; is that correct?

11 A Yes, that is correct.

12 Q And what you did is, as I understand it, is you
13 took DRI factors and adjusted the in-service cost for that
14 plant to reflect the three potential escalations for
15 construction cost; is that correct?

16 A Basically that's correct, yes.

17 Q So at the end you had three alternative
18 investments of the DRI, optilong, base case and pessilong?

19 A Yes, all for the same combined cycle plant. The
20 cost of which differ only because of the different
21 escalation rates used to estimate those construction costs.

22 Q Okay. And then you used that variation in cost
23 to calculate the risk that you show in column 4 of .104?

24 A That's correct.

25 Q Now I asked you earlier about whether you would

1 agree that revenue requirements equal rate of return times
2 investment.

3 A Yeah.

4 Q And you agreed that it did?

5 A Yes.

6 Q Would you agree that your measurement of risk
7 here is a self-fulfilling prophesy in that it measures the
8 risk that the investment would vary, it does not reflect
9 the risk that the return would vary?

10 A Would you say that again for me?

11 Q I don't know that I can, but I will try. Would
12 you agree that your methodology measures the risk that the
13 investment will vary and does not measure the risk that the
14 return will vary?

15 A I think I can agree with that, yes, because what
16 I have measured here are variations in cost of building the
17 plant, yes.

18 Q In fact, the return is a given calculation, it is
19 a set factor, is it not?

20 A In the calculation to derive construction costs
21 under each of the three economic scenarios, and I'm trying
22 to answer here, and correct me if this is not what you're
23 asking, we have estimates for the cost of constructing a
24 combined cycle plant, and it's on a per kW basis. And that
25 cost is then multiplied by a fixed-rate charge which does

1 include a return on the investment inside that fixed-rate
2 charge, and that gets you further on down the road to the
3 numbers that I've measured here in column 4 on a
4 cost-per-year basis of what it cost to operate a combined
5 cycle plant.

6 Q And my point is simply that the return is a fixed
7 number? It is the investment that changes according to
8 your DRI forecast?

9 A Yes, that's correct. They maintain the same
10 return number as originally contained in Mr. Schuster's
11 methodology.

12 Q Traditionally in the electric utility area, isn't
13 risk associated with variation in return and not variation
14 in investment?

15 A Yes, it is.

16 Q Okay.

17 A However, in this analysis if the cost of building
18 a plant varies that would be reflected in the return
19 investors would receive; and it's on that basis that I feel
20 it's reasonable to use this variation in cost as a
21 reasonable approximation to measure the risk that investors
22 are asked to assume in investing in Power Corp projects.

23 Q But we just established that the risk that
24 investors object to is the risk with variation in return,
25 correct?

1 A Yes, and I believe that the variation that we see
2 in my column 4 is a reasonable proxy for that.

3 Q Well, isn't it based upon DRI's escalators of
4 what the cost to build a power plant would be?

5 A Yes, that's --

6 Q In other words, it's --

7 A That's a primary driver.

8 Q I'm sorry.

9 A Yes, it is.

10 Q So that divergence in risk for construction is
11 the sole basis for your calculation in this column 4?

12 A Yes.

13 Q All right. Another way this Commission in the
14 past has addressed risk is to perform sensitivity analyses
15 of the various alternatives that are under consideration;
16 would you agree?

17 A Yes.

18 Q And for instance, it might look at the
19 sensitivity of a high-band fuel forecast and a low-band
20 fuel forecast, correct?

21 A Yes.

22 Q Have you performed an analysis of this proposed
23 contract buyout using the pessimistic gas cost forecast and
24 the after-tax cost of capital for Florida Power Corporation
25 as the discount rate?

1 A I've used all of DRI's scenarios with Florida
2 Power Corp's 8.81 discount rate, yes, I have.

3 Q Your testimony refers to a calculation where the,
4 using the DRI mid-band forecast, the net present -- and the
5 DRI mid-band cost for constructing a power plant, the
6 resulting net present value using the 8.81% discount rate
7 is approximately 15.2 million dollars; would you agree?

8 A I'm just checking to make sure we get the number
9 right here.

10 Q Look at page 7, line 14.

11 A Yes, I see it. That is the correct number.

12 Q Now my question really is, have you done that
13 same calculation, that is, using the 8.81% discount rate
14 and the pessilong fuel forecast and the pessilong
15 construction cost estimate?

16 A I am sure that I have.

17 MR. CHILDS: Just a moment, please.

18 (DISCUSSION OFF THE RECORD)

19 MR. CHILDS: Commissioners, at this time, I
20 wanted to pass out a document. It's three pages. I
21 apologize some of them have the pages in different orders.
22 There is one page that is headed DRI opti values. One page
23 is DRI pess. values, and one page has a long title. Under
24 that title it says, "DRI expected values," and I would like
25 that marked for identification, please.

1 **COMMISSIONER CLARK:** We'll mark it as Exhibit
2 15. It will be titled "DRI values."

3 **BY MR. CHILDS:**

4 **Q** Now is this your sensitivity analysis that you
5 refer to in your testimony?

6 **(WITNESS REVIEWED DOCUMENT)**

7 **A** Yes, I believe this is an excerpt out of the
8 spread sheet that I used to calculate the net present
9 values contained in my originally filed testimony. Yes.

10 **Q** Okay. And what you have done here, if you would
11 turn to the pessi., DRI pess. values, that shows, as I
12 understand it, the calculation of the net present value for
13 each column of costs using the indicated risk-adjusted
14 discount rate at the bottom?

15 **A** That's correct.

16 **Q** And I assume the numbers add from left to right?

17 **A** Yes, the numbers do add from left to right. For
18 example, column 3 is the sum of column 1 and 2; and column
19 7 is the sum of columns 4, 5 and 6; and then finally,
20 column 8 is the difference between column 3 and column 7,
21 which is basically the same structure as Mr. Schuster's
22 original analysis.

23 **Q** Okay. The negative net present value that you
24 show in the far right-hand column is \$38,279,000?

25 **A** That's correct.

1 Q And that's not the result of taking a present
2 value of the numbers in, the total numbers in column 8, is
3 it?

4 A No, it is not.

5 Q If one did that using an 8.81% rate of return as
6 a discount rate, what present value would be produced?

7 A I really don't know. I have probably calculated
8 that, but I don't know. I don't have that number with me,
9 I don't think I do. Let me look just a second.

10 Q That's what I meant to refer to when I asked you
11 if you had done that calculation earlier. I want to show
12 you another document and ask that it be marked for
13 identification.

14 A Okay.

15 Q It is headed "Ratepayer expenditures due to OCL
16 contract buyout using DRI pessimistic case assumptions."

17 COMMISSIONER CLARK: We'll mark that as Exhibit
18 16.

19 While we are doing that, Mr. Childs, how much
20 more do you have for this witness?

21 MR. CHILDS: Probably about 30, 40 minutes.

22 COMMISSIONER CLARK: Okay. Go ahead.

23 BY MR. CHILDS:

24 Q Do you have that now, Mr. Stallcup?

25 A Yes, I do.

1 Q Would you agree that really this document
2 represents really in the format of Mr. Schuster's document
3 7 the results of the, using the pessimistic assumptions to
4 determine the costs of the proposed buyout?

5 A I'll agree with that. Yes, I agree with that.

6 Q And in fact, the numbers here on this document
7 for Exhibit 16 are the same as those that are on the sheet
8 from your sensitivity analysis that has been marked as
9 Exhibit 15, that is, the numbers above the net present
10 value calculation; would you agree with that?

11 A Yes.

12 Q Now if you'd look at the bottom of Exhibit 16, we
13 can see a comparison to the numbers at the bottom of
14 Exhibit 15, right?

15 A I'm sorry, what are you asking me to do?

16 Q Well, you see net present value under Exhibit 16,
17 that line at the very bottom of the page?

18 A The \$5,763,000 number?

19 Q Yes.

20 A Yes, I see it.

21 Q Would you agree that that is the calculation of
22 the net present value of the proposed buyout using an 8.81%
23 discount rate?

24 A And DRI's pessimistic scenario, yes.

25 Q Yes. You would agree with that?

1 **COMMISSIONER GARCIA:** I'm sorry, where are you,
2 Mr. Childs? I'm lost.

3 **MR. CHILDS:** It is Exhibit 16, the bottom
4 right-hand corner where it calculates under column 8 net
5 present value at 1/1/97.

6 **Q** So under the pessimistic scenario, in each year
7 for the years 2014 through 2023 there are significant
8 savings and nominal dollars?

9 **A** At 8.81%, yes.

10 **Q** Well, these numbers are nominal in 2014 through
11 2023; we haven't discounted them.

12 **A** Oh, okay. Yes, I agree, those savings are there.

13 **Q** They are all positive and they are all fairly
14 large?

15 **A** Yes.

16 **Q** And when we discount them, we find that the net
17 present value is the 5.7 million. Now this is the worst,
18 worst case, is it not, under your assumptions?

19 **A** No.

20 **Q** It's the worst case for fuel prices?

21 **A** Yes.

22 **Q** It's the worst case for the construction cost for
23 the replacement capacity?

24 **A** Yes, with respect to the DRI scenarios, this is
25 as pessimistic as the scenarios get. What is missing from

1 this particular number here is what I consider to be an
2 appropriate measure of the risk associated with the buyout.

3 Q And what my question is as to risk is, if we
4 assume, for instance, the worst case, then we have made
5 that risk a hundred percent. It's a hundred percent that
6 Florida Power Corporation will pay the highest possible
7 price for natural gas in a replacement case, right? There
8 is no risk at all, is there?

9 A No, there is still uncertainty associated with
10 that in the sense that ratepayers at this point in time are
11 uncertain about exactly what those future expenditures are
12 going to be. It's important to recall that in my analysis
13 the entire evaluation of the buyout is predicated upon the
14 evaluation of the buyout given current economic forecasts,
15 current economic assumptions, and a current assessment of
16 the risk associated with the riskiness in these projected
17 cash flows.

18 Q Well, don't you make all decisions on the basis
19 of what you know?

20 A Oh, absolutely.

21 Q And my question is, based on what you know and,
22 in fact, your assumption that what you know is that the
23 worst case is going to occur, doesn't this show a positive
24 value for the customers?

25 A With respect to the DRI scenarios, if the economy

1 actually turned out to be consistent with the pessimistic
2 scenario for gas prices and escalation rates, yes, that
3 would be the outcome.

4 Q But based on your methodology and the analysis
5 that you conducted, it can't get any worse?

6 A Ignoring the effect that the discount rate would
7 have, I would agree with that.

8 COMMISSIONER CLARK: Mr. Stallcup, just so I'm
9 clear, you're even saying even if you assume the worst,
10 there is still a chance that it could be even worse and
11 that's why you apply a discount rate?

12 WITNESS STALLCUP: Yes, the discount rates are
13 what will cause this to be different. This number here is
14 based upon the company's marginal cost of capital, which
15 may not be an appropriate discount rate to use for
16 evaluating ratepayer exposure.

17 Q Now by assuming that the two worst cases occur at
18 the same time, aren't we also being conservative in the
19 estimate of the potential negatives from the buyout; that
20 is, both of them, both of the worst cases have to occur at
21 the same time?

22 A I wouldn't put it that way. I think what we
23 would be doing is treating the DRI scenarios in a
24 consistent manner. Just as background information, DRI has
25 a large forecasting model that turns out forecasts for many

1 different elements of the economy, and to produce a
2 base-case forecast, they put in what they consider to be
3 base-case assumptions and derive a set of consistent
4 outcomes based on those assumptions. That would be
5 base-case fuel, base-case inflation and so forth.

6 The same would be true with the pessimistic case,
7 you install -- excuse me, include pessimistic assumptions
8 into that model, and you get a consistent set of
9 pessimistic fuel prices and escalation rates coming out of
10 there. So I view this as being a consistent pessimistic
11 view.

12 Q Where in any information from DRI is there an
13 explanation that the various variables that they address
14 are consistent so that if we are looking at pessimistic,
15 that every pessimistic forecast would occur at the same
16 time? Where is that in the DRI manual?

17 A I believe it's in the discussion of the
18 derivation of the different scenarios. My observation also
19 just comes from my general experience as having done this
20 business for almost 20 years now.

21 Q Beg your pardon?

22 A Of having been involved in this business,
23 econometric forecasting for almost 20 years.

24 Q But you haven't been involved in fuel forecasting
25 for 20 years, have you?

1 A No, I have not.

2 Q And your responsibilities here and your
3 day-to-day activities at this Commission do not involve
4 fuel forecasting, do they?

5 A Only to the extent that you see in the evaluation
6 of this kind of a proposal.

7 Q Okay. Well, would you agree that to the extent
8 that we can't assume that the variables would occur at the
9 same time, that the probability that they would occur would
10 be the result of multiplying the probabilities together so
11 that if we multiply .25 times .25 we get the probability
12 that both elements of this pessimistic case would occur at
13 the same time?

14 A No, I do not agree.

15 Q You don't agree with that in this case, or you
16 don't agree with that as a general principle?

17 A It is a mathematical computation that if you have
18 two independent events and multiply their probabilities
19 together you get the probability that they both occur at
20 the same time. That's a different phenomena than what we
21 are seeing here. What we are seeing here, economic
22 forecasts, that altogether seeing the pessimistic inflation
23 rate and the pessimistic inflation rate occurring at the
24 same time, has the probability of 25%. That's what DRI
25 means when they say that their pessimistic and optimistic

1 cases have probabilities of occurring of 25%. The economy
2 will look something like this, and then they have the
3 forecast associated with that scenario.

4 Q Do you know what kind of fuel OCL uses to
5 generate?

6 A I believe it's natural gas.

7 Q Would you expect that OCL's cost of gas would be
8 very similar to that which you assume for the analysis that
9 you perform?

10 A I consider two sets of fuel prices in here. I
11 have Florida Power Corp's, and I also have DRI's. I'm not
12 sure what your question is, I'm sorry.

13 Q My question is, for instance, look at what is
14 Exhibit 16.

15 A Yes.

16 Q Where you have an energy cost in the year 2014
17 through 2023 in column 5 and column 2.

18 A Yes.

19 Q And would you agree that in every year the energy
20 costs are greater under the replacement case than they are
21 under the contract case?

22 A Yes.

23 Q And would you agree that to the extent OCL uses
24 the same fuel and saw the same gas prices that you forecast
25 Power Corp would see that the result of this analysis would

1 mean that they would generate and pay more to generate than
2 they would receive for the energy that they sold to Power
3 Corp?

4 A I'm not sure that follows, Mr. Childs. I'm not
5 sure I follow at all that question.

6 Q Okay.

7 COMMISSIONER GARCIA: I didn't either. Could you
8 repeat it please?

9 Q Let's try again. Column 5 is your representation
10 of the total energy cost for the replacement unit, correct?

11 A Yes.

12 Q And that's a natural-gas fired unit?

13 A Yes.

14 Q And the replacement cost is the result of
15 multiplying the assumed cost of gas in dollars per MMBTU
16 times the heat rate, times the assumed capacity factor for
17 the unit?

18 A Yes.

19 Q And reflecting the hours in the year?

20 A Yes.

21 Q That says that if they operate at this plant, for
22 instance, at a 92% capacity factor all year round -- and
23 that's one of the assumptions, isn't it?

24 A I believe it is, 92%.

25 Q If they operated this gas-fired plant at a 92%

1 capacity factor, the cost would be in the year 2014, 29
2 million 520 dollars?

3 A Yes.

4 Q 20 thousand dollars, excuse me.

5 A Yes.

6 Q And if that happened, they would sell their power
7 to Florida Power Corporation and we would look over to
8 column 2 and we would see that the price that they receive
9 for energy is less than their cost to generate that energy?

10 A Yes.

11 Q Wouldn't that give them an incentive not to
12 generate quite so much energy?

13 A Perhaps it might.

14 Q Are you familiar with the methodology of
15 computing the energy costs that are used by Mr. Schuster
16 and are reflected in your Deposition Exhibit Number 6?

17 A Can you refer me to that, my Deposition Exhibit
18 6?

19 Q Do you have that?

20 A I probably do. I'm just not sure I can identify
21 it by that reference.

22 MR. CHILDS: Commissioners, I am circulating a
23 document that was marked as Exhibit 6 to Mr. Stallcup's
24 deposition on 10/10/97, and this is a compilation of
25 various documents. At this point I'm only interested in

1 the first five pages, okay?

2 COMMISSIONER CLARK: Well, what do you want me to
3 do?

4 MR. CHILDS: I'd like you to mark those first
5 five -- actually mark the first five pages for
6 identification, please.

7 COMMISSIONER CLARK: And then I'm going to throw
8 away the rest?

9 MR. CHILDS: Correct.

10 COMMISSIONER CLARK: All right. The five pages
11 of --

12 MR. CHILDS: I believe that is Exhibit 17.

13 COMMISSIONER CLARK: Yes, it will be Exhibit 17,
14 and it is the first five pages of Deposition Exhibit 6.

15 BY MR. CHILDS:

16 Q Mr. Stallcup, have you had an opportunity to look
17 at that?

18 A Yes, I have.

19 Q Would you look to the fifth page and look to
20 input data 34?

21 A Yes, I see it.

22 Q And it reflects that off-peak energy payment has
23 a discount factor of .85.

24 A I see that.

25 Q And would you also check the footnote, for

1 instance, on page 2, column 11 and for column 13?

2 A Just a second, please. That was 11 and 13?

3 Q Yes, just look at those formulas there.

4 A I will.

5 (WITNESS REVIEWS DOCUMENT)

6 A Okay, I've got it.

7 Q Incidentally, these columns --

8 COMMISSIONER GARCIA: I'm sorry, Mr. Childs,
9 where are you?

10 MR. CHILDS: I'm looking at page 2, the formulas
11 for column 11 and column 13.

12 Q Now for point of clarification, Mr. Stallcup,
13 when we examined this document at your deposition, we
14 established, did we not, that these, what I call footnotes
15 at the bottom of the page, were intended to and did apply
16 to Mr. Schuster's original calculation?

17 A That's correct.

18 Q And that you had added some columns and
19 subtracted some columns so that the column numbers did not
20 necessarily match up with the column numbers in the
21 footnotes?

22 A That's entirely possible. How I modified the
23 spread sheet that Mr. Schuster provided was to substitute
24 my assumptions into his assumptions.

25 Q Okay.

1 A And I don't think I shifted a lot of columns
2 around, but we can go ahead.

3 Q No, I'm just trying to get to the point that the
4 footnotes don't match up with the column numbers, but would
5 you agree that these footnotes reflect that the variable
6 O&M and the fuel cost associated with the payments under
7 the contract have a discount for off-peak performance of
8 85%?

9 A Contract variable O&M in column 11.

10 Q Right.

11 A And the energy rate in column 13.

12 Q Right.

13 A Both include in their derivation the off-peak
14 energy payment discount factor of .85%, that is correct.

15 Q So now when we go back to --

16 A In Mr. Schuster's original analysis.

17 Q I'm sorry?

18 A In Mr. Schuster's original analysis that is what
19 the footnote indicates.

20 Q And this is the basis for your computation of
21 fuel cost in all of your sensitivity analyses, is it not?

22 A Yes, it is, basically the same structure.

23 Q Right. So when we look at Exhibit 16 and we see
24 the energy price under the column 2 for contract, that
25 price or cost is a result of a composite rate both on and

1 off peak, correct?

2 A I believe that to be true, yes.

3 Q And truly though, the off-peak payment is at a
4 lower actual rate than is reflected by this composite rate?

5 A I'll have to accept that subject to check. I
6 think I follow you.

7 Q So if one were to compare the fuel costs, the
8 energy in column 5 to the energy in column 2, you would
9 conclude that for off-peak performance there is even a
10 greater disparity in costs and payments than is reflected
11 on Exhibit 16?

12 A I'll accept that subject to check.

13 Q And would you agree that that would give OCL an
14 incentive not to generate off peak as much as you have
15 assumed?

16 A I'll accept that subject to check.

17 Q And were that the case, that would increase the
18 net present value of savings of the buyout?

19 A I believe that's true, also subject to check.

20 Q Okay. Now similarly, you believe that an
21 electric utility such as Florida Power Corporation should
22 follow the principles of economic dispatch in running its
23 system, do you not?

24 A Yes.

25 Q So that if Florida Power Corporation saw these

1 same circumstances at some future time and it had other
2 generating resources available, you would not expect them
3 to run their most expensive unit if they could avoid it?

4 A Correct.

5 Q So they would be expected to mitigate their costs
6 as well?

7 A Yes.

8 Q And if they did that, that would also add to an
9 increase in the net present value of the buyout?

10 A Yes, if a more efficient generation alternative
11 were out there than a natural-gas-fired unit, yes, that
12 could be in an economic dispatch sense.

13 MR. CHILDS: If you'd give me a few moments,
14 Commissioner, I'm going to try and move through some.

15 Q I want to show you a volume here from a book
16 entitled 'Financial Management, Theory and Practice,'
17 Eugene Brigham, Louis Gapenski, Eighth Edition.

18 A Which edition is that?

19 Q Eighth.

20 A Okay.

21 MR. CHILDS: Commissioners, I have given
22 Mr. Stallcup a copy of the volume to which I have just
23 referred, and I am passing out at this point the cover page
24 of that volume plus pages 495 and 496, and I would like
25 that marked for identification, please.

1 **COMMISSIONER CLARK:** The document entitled
2 **Financial Management, Theory and Practice, pages 495 and**
3 **496 will be marked as Exhibit 18.**

4 **BY MR. CHILDS:**

5 **Q** Okay. Would you look to --

6 **A** Just a second, please.

7 **Q** Sure.

8 **A** Shifting all this stuff around. Okay.

9 **Q** This is the same Eugene Brigham that you've
10 previously identified as an individual you recognize as an
11 expert in this area?

12 **A** Yes.

13 **Q** Okay. Would you turn to page 495 under the
14 heading "Implementing Risk Adjustments in Practice?"

15 **A** I see it.

16 **Q** And the first paragraph speaks about the
17 adjustment to -- adjustment for risk that Mr. McGee was
18 previously asking you about from the fourth edition, would
19 you agree?

20 **A** Yes, it appears to be.

21 **Q** And would you agree that the sentence reflects
22 that the adjustment for risk, if made, would be made from
23 the firm's average cost of capital?

24 **A** Yes, from a capital budgeting point of view, that
25 would be correct.

1 Q Well, that's what you'd expect Florida Power
2 Corporation to be doing if they were evaluating a project,
3 would you not?

4 A Yes, such as generation alternatives --

5 Q Okay. Now --

6 A -- yes, I would.

7 Q I'm sorry, are you finished?

8 A Yes, such as generation alternatives internally
9 funded by the company, yes, I would.

10 Q Now I want to focus on the next sentence. Would
11 you look at that please?

12 A Of the first paragraph?

13 Q Yes, which starts with the word "Unfortunately."

14 A Okay.

15 Q And would you agree that the point here is, the
16 point of this sentence, that all risk adjustments are
17 necessarily judgmental and somewhat arbitrary?

18 A I think in a general sense as a generally
19 applicable tool to all situations where you can observe
20 varying degrees of risk the technique can be difficult to
21 apply, and that makes it almost, as Doctor Brigham said,
22 necessarily judgmental and somewhat arbitrary; that is, the
23 technique by which you -- or I'm sorry, the -- Yeah, the
24 technique by which you apply risk-adjusted discount rates
25 is not consistent from one situation to another.

1 In this particular buyout, however -- and what I
2 was just talking about, by the way, is called the
3 implementation problem, I referenced that earlier. In this
4 particular buyout, however, by virtue of the way that Power
5 Corp represented the capacity cost under the replacement
6 case, it was possible to identify the risk with that
7 column, implement the idea of defying what the risk premium
8 is, to Power Corp's cost of capital. And by that
9 implementation device we are able to, or I was able to
10 specifically calculate, based upon the data supplied by
11 DRI, risks for each one of the expenditure flows and,
12 therefore, the risk premiums in those expenditure flows.

13 It was fortunate that the implementation problem
14 was solved in this case and, thus, allowing the application
15 of risk-adjusted discount rates. I agree with Doctor
16 Brigham, you may not be able to do that all the time,
17 therefore, there is no necessarily set, fast rule or
18 formula for the application of this technique; but as it
19 happened, it fit here.

20 Q Well, let me ask you the question though in terms
21 of series. The selection of the DRI fuel forecast was your
22 judgment?

23 A Yes.

24 Q And the result of that judgment to select a fuel
25 forecast was your method of computing risk which also was a

1 judgment?

2 A Consistent with the general definition of what
3 risk is, yes.

4 Q And your method of subtracting the risk premium
5 from the riskless rate is not what Doctor Brigham talks
6 about, and it was your judgment to do it that way?

7 A No, I think it is what Doctor Brigham was talking
8 about, and I also think that my definition of risk is
9 defined by Doctor Brigham elsewhere in the book as the
10 accepted means by which you define risk. It is my opinion,
11 indeed my belief, that my entire analysis was performed
12 very conservatively and in no way is properly characterized
13 as being untested or speculative, far from it. I think
14 what I've done is quite conservative. If anything, I think
15 I've underestimated the risk rather than overestimated it.

16 Q Are you through?

17 A Yes.

18 Q I believe you don't hold yourself out as an
19 expert on cost of capital; is that correct?

20 A No, I would not.

21 Q You're not?

22 A Correct. Not in the same sense that someone who
23 specializes in that field would be. I have a pretty good
24 knowledge of it, but I would not call myself a cost of
25 capital witness.

1 Q The whole point of a risk-adjusted discount rate
2 analysis is to assure that a risky project has a higher net
3 present value than a less risky project, is it not?

4 A I think the purpose of risk-adjusted discount
5 rates are to reflect the risks associated with different
6 projects, yes, and whether or not it's a higher or lower
7 discount rate depends upon whether or not the project that
8 is being evaluated is a cash inflow or a cash outflow.

9 Q Now would you agree that the objective of your
10 methodology is to penalize a less risky cash outflow, to
11 have that be the preferred decision in the evaluation
12 before the Commission now?

13 A No.

14 Q You're not trying to reflect the impact or what
15 you think the impact of risk should be on the decision this
16 Commission should make?

17 A What I'm trying to do is set risk-adjusted
18 discount rates such that riskier cash flows reflect the
19 risk associated with them. Ratepayers are being asked to
20 assume these expenditure flows. To the extent these
21 expenditure flows are riskier, I'm asking this Commission
22 to recognize that ratepayers should be compensated for
23 accepting that risk.

24 Q Did Mr. McGee when he gave you the reference to
25 your deposition exhibit and a cite to -- yes, he did, he

1 included page 405 of the fourth edition of Brigham's text,
2 did he not?

3 A This is the exhibit that I handed out at the
4 deposition; is that right?

5 Q Yes, your Deposition Exhibit 7, and it was the
6 one to which Mr. McGee's questions were directed earlier.

7 A Yes, I believe so. It was also identified as
8 Exhibit 14?

9 Q Okay. I'll mark mine, I'm sorry.

10 A I think it was.

11 COMMISSIONER CLARK: It is.

12 Q Now if you would turn to page 405 of that fourth
13 edition, and it's talking about two alternatives, same
14 expected value, et cetera. The sentence then reads,
15 "Therefore, if we want." Would you read that sentence?

16 A I'm sorry, where is the sentence?

17 Q It's the first full --

18 A "Therefore, a stream --"

19 Q I'm sorry, it's the first full paragraph on that
20 page, 405, second sentence.

21 A Second sentence?

22 Q Yes.

23 A Okay. Would you like me to read that one?

24 Q Would you agree that it says if we want to
25 penalize for risk then you want to have -- you want to

1 reflect that in your discount rates so that the higher risk
2 will -- the higher risk project will not be selected all
3 other things being equal?

4 A Yes.

5 Q Okay. Isn't that what I just asked you earlier?

6 A I'm not sure.

7 Q All right. Now if you'd go back to the document
8 I gave you which was your sensitivity analysis, which I
9 believe is marked as Exhibit 15.

10 A Yes, I have it.

11 Q That at the bottom under -- I'm looking, for
12 instance, at the pess. values. At the bottom it reflects
13 for RADR, right across the page from the left to right, the
14 various discount rates that you used, correct?

15 A I'm sorry, which page are we on?

16 Q I'm on the one that's -- well, it's on all the
17 pages, they're the same, the DRI pess. values page.

18 A Is that the second page in the exhibit?

19 Q That will do.

20 MR. CHILDS: Commissioners, what I'm looking at
21 is the document that are the three pages that was marked
22 for identification as Exhibit 15, and I'm looking at the
23 page of that that is headed "DRI Pess Values."

24 Q Do you have that?

25 A Yes, I do.

1 Q Now what my question was, if you look to the
2 entries opposite RADR at the very bottom of the page --

3 A Yes.

4 Q -- you will see the risk-adjusted discount rates
5 that you compute in your direct testimony. I can't
6 remember the page. I think it's FWS-4, correct?

7 A Yes, that's correct.

8 Q All right. Therefore, if we look at, focusing on
9 column 2 and column 4. Do you have those?

10 A Yes, 2 and 4.

11 Q We see that you have given a discount rate of
12 1.68 to the energy cost for the replacement case?

13 A Yes, in column 5.

14 Q And the lower the rate of discount the higher the
15 net present value will be when you --

16 COMMISSIONER GARCIA: Sorry, let me make sure I'm
17 on the same thing. You mean on column 5?

18 MR. CHILDS: I do, I'm sorry, column 5.

19 COMMISSIONER GARCIA: Okay.

20 BY MR. CHILDS:

21 Q So the lower the discount rate the higher the
22 resulting net present value when you calculate it?

23 A Correct.

24 Q So in effect, you have given -- you have
25 penalized the energy in this column 5 by using a lower

1 discount rate than you used for energy in column 2?

2 A I would not characterize necessarily penalizing,
3 that's the way the data works out; but yes, I agree with
4 the mathematical result.

5 Q Well, isn't that what Doctor Brigham says,
6 "Therefore, if we want to penalize a cash outflow for
7 higher than average risk, then we would want to have a
8 higher absolute present value and not a lower present
9 value?" I mean isn't that exactly what he said?

10 A He uses the word "penalize." I choose that I --

11 Q You don't like the word "penalize?"

12 A I don't. I think what should perhaps be more
13 appropriate is that the discount rate should properly
14 accept the risk associated with cash flows, and whether
15 it's an addition or a subtraction, I'm not sure it's
16 necessary to characterize it as adding a penalty or giving
17 a bonus.

18 Q How about bias?

19 A Bias is a legitimate word.

20 Q Therefore, you have biased -- by your selection,
21 you have biased it in favor of coal, would you agree?

22 A No.

23 Q Well, haven't you made it so that if all other
24 things being equal, if we have a column of numbers for
25 natural gas and a column of numbers for coal and they are

1 the same in each column, that the coal will produce the
2 lowest net present value?

3 A I would not accept the word "bias" associated
4 with that measure.

5 Q Would you --

6 A Bias indicates an incorrect application, and
7 that's not correct.

8 Q Would you accept the result?

9 A I accept the result that because there are higher
10 risks associated with natural gas the appropriate discount
11 rate to use would be a lower discount rate resulting in a
12 higher net present value for that column.

13 Q Now looking at the same sheet here, Exhibit 15,
14 pessi. values, we see that the net present value that you
15 have computed for energy in column 5 is \$268,048,000,
16 correct?

17 A Yes.

18 Q And that is the value that you get discounted at
19 1.68%?

20 A Yes.

21 Q All right. Now if someone were to contract to
22 pay gas, for gas at this highest value, the pessimistic
23 value, then there wouldn't be any risk, would there?

24 A If you could get a contract going out that far, I
25 agree.

1 Q Sure. You could --

2 A That would be known with certainty.

3 Q You could contract -- I'm sorry.

4 A Yes, it would be known with certainty there
5 would be no risk.

6 Q And, therefore, we'd discount it at 5.06% instead
7 of 1.68?

8 A That would be consistent with my methodology,
9 yes.

10 Q All right. And if we did that, would you agree
11 that the result would be a net present value of
12 \$129,561,000?

13 A I'll accept that subject to check. What was the
14 number again, please?

15 Q 129,561,000.

16 A Okay.

17 Q Right?

18 A I accept that subject to check, yes.

19 Q So that means if someone contracts to pay the
20 highest price under your scenario, the net present value is
21 substantially lower than if they don't contract to pay the
22 highest price?

23 A Yes.

24 Q All right.

25 A You remove the risk.

1 Q You remove the risk, but in a net present value
2 analysis, you have improved the financial results in excess
3 of a hundred million dollars?

4 A If you removed -- This is very important, and
5 we are going to stay on this answer for a minute. What you
6 have just done is that you have given me a hypothetical
7 situation where everything else constant you have removed
8 the risk associated with the energy in the replacement
9 case. If you remove the risk in the replacement case, the
10 buyout should, indeed, look better, correct?

11 COMMISSIONER GARCIA: I'm sorry, if you remove
12 what?

13 WITNESS STALLCUP: If you remove the risk under
14 the replacement case, it's somehow less risky. The buyout,
15 other things constant, should appear to be more attractive.
16 And what we are doing here under Mr. Childs scenario is
17 adding and subtracting risk premiums, if you will, under
18 the hypothesis of we can remove the risk of having a
19 contract for natural gas.

20 What we can do is apply the same thing Mr. Childs
21 is doing to test the common sense of whether or not, with
22 respect to the buyout we are trying to evaluate, addition
23 or subtraction of risk premiums is, indeed, the right thing
24 to do; and it's a very plain straight common sense way of
25 determining what the proper treatment is. And if I can

1 take just a minute to respond to Mr. Childs' question and
2 explain it this way, I think it would be beneficial.

3 MR. CHILDS: Can I finish my point, or is he on
4 your question, Commissioner?

5 COMMISSIONER GARCIA: He is not on my question.
6 He is explaining his answer a little bit more.

7 WITNESS STALLCUP: Shall I continue?

8 COMMISSIONER GARCIA: I'd like you to.

9 WITNESS STALLCUP: Okay.

10 COMMISSIONER GARCIA: I don't know about
11 Mr. Childs, but I'd like you to.

12 A If we may, just for the moment, if we take a look
13 at Mr. Schuster's Exhibit 7, that is where he has all the
14 cash flows laid out under the contract case and under the
15 replacement case and then calculates his net present
16 values; that is also labeled as Exhibit 17 right here, the
17 spread sheet that I used. We can see that the first three
18 columns represent the expenditures for the contract, the
19 existing contract; and the next four columns, titled "The
20 Replacement Case," summarize the expenditures of the
21 proposed buyout; and the last column over there is just the
22 difference between the two.

23 Hypothetically, let's just assume for the time
24 being that we have contracts, just like Mr. Childs
25 presumed, for coal, for natural gas and even for building

1 the plant such that every cash outflow from columns 1
2 through 7 are known with absolute certainty. There is no
3 risk. If that's true, and let's just assume to make the
4 numbers simple, that the risk-free rate is 8.1% such that
5 the net present value is 34 million dollars as Power Corp
6 presumes, but we have no risk, so we know that net present
7 value with absolute certainty.

8 Now let's just suppose and change this scenario
9 slightly such that -- well, let's change column 4 here.
10 Let's say suppose that we no longer have a contract to
11 build the plant and there is going to be some risk
12 associated with building that plant. That means,
13 intuitively speaking, before we go through the numbers,
14 that the replacement case ought to look more risky -- or
15 I'm sorry, ought to look less desirable because now it has
16 an element of risk in it. And if the replacement case now
17 has some risk to it, you would think that the buyout would
18 appear to be less attractive. If there is risk now in the
19 replacement case, it appears less attractive, making the
20 buyout less attractive. And numerically, you would expect
21 that net present value to fall, the NPV to fall because now
22 the buyout is less attractive.

23 Let's suppose that we add a risk premium to the
24 capacity cost. If we add a risk premium, I think as
25 Mr. Schuster thinks we might ought to do, if we add the

1 risk premium, with the bigger discount rate, column 5, that
2 net present value goes down. Am I doing this right? That
3 net present value goes down making the NPV -- the net
4 present value under the replacement case goes down such
5 that when you subtract that net present value from the
6 contract case causing the net present value of the overall
7 buyout proposal to go up. You would logically presume,
8 intuitively presume that if you add more risk to capacity
9 costs, the buyout should appear less attractive, but when
10 you add that risk premium, the net present value goes the
11 other way, it goes up; that's logically inconsistent.

12 MR. CHILDS: I would object. I would also ask --
13 I want to consider this for a minute, and that's the
14 opportunity to call a witness to rebut this testimony. I
15 think this is way beyond anything that was called for by
16 any question.

17 COMMISSIONER CLARK: Well, he was explaining
18 something to Commissioner Garcia, and you want to call a
19 rebuttal witness?

20 MR. CHILDS: I would like to have the opportunity
21 to consider that. I would like to finish my questions --
22 it won't take very much time -- and then have an
23 opportunity to consider that before we finish today.

24 COMMISSIONER CLARK: Mr. Stallcup, are you done?

25 WITNESS STALLCUP: I would just like to add, if I

1 may, if you subtract the risk premium as I recommend, you
2 get a change in the net present value which is logically
3 consistent with what you would presume, and the net present
4 value would fall. Thank you.

5 COMMISSIONER CLARK: Go ahead, Mr. Childs.

6 BY MR. CHILDS:

7 Q Mr. Stallcup, in your discussion about the risk
8 associated with the coal and the natural gas, one of the
9 things you said was if you can get a contract. I want to
10 show you a document.

11 (DOCUMENT TENDERED TO THE WITNESS)

12 Q Do you have that page, Mr. Stallcup?

13 A Yes, I see page 87.

14 Q Would you agree that that reflects offer prices
15 to the City of Tallahassee for gas?

16 A Yes, I do, it appears to be.

17 Q Would you agree that that document was included
18 within the Commission's order on the determination of need
19 for the Tallahassee plant?

20 A I'll accept that. I don't know that.

21 Q Would you accept that that shows an offer to
22 provide gas through the year 2019?

23 A Appears to be, yes.

24 Q How do the prices there compare to the DRI prices
25 that you have, pessilong prices that you have sponsored?

1 A They appear to be lower.

2 Q Significantly lower?

3 A Yes.

4 Q Now your calculation, I'm going back to Exhibit
5 15, which is your sensitivity analysis, do you have that?

6 A Excerpts from my sensitivity analysis, yes.

7 Q I asked you before if you would agree that the
8 numbers added left to right, this is on the -- I'm looking
9 now at the DRI pessi. value page, and you said yes?

10 A I see the page.

11 Q And you have on that page computed a negative net
12 present value of \$38,279,000?

13 A Yes.

14 Q Looking at the numbers in that column, column 8,
15 would you tell me what discount rate produces that net
16 present value?

17 A A single discount rate to do that? I haven't
18 performed that calculation.

19 Q Pardon?

20 A I haven't performed that calculation. My
21 calculation is based on individual discount rates for each
22 column.

23 Q Would you agree that there is no solution for
24 that negative net present value with those cash flows shown
25 in column 8 on this page of Exhibit 15?

1 A I'm not sure I can agree with that.

2 Q Okay. Using these values, we have already
3 established that using the 8.81% return I think we would
4 produce a -- and your pessimistic case, we would produce a
5 net present value of approximately 5.7 million, do you
6 recall that?

7 A I'm sorry, would you say that again please?

8 Q We have already established through Exhibit 16
9 that using these values shown on column 8 of your Exhibit
10 15 for the page DRI pessimistic values --

11 A Yes.

12 Q -- that the net present value computed using a
13 discount rate of 8.81% is 5.7 million dollars positive?

14 A Yes.

15 Q Would you tell me what internal rate of return
16 that equates to for customers?

17 A The five million dollars? I don't know that
18 number.

19 Q It would be in excess of 8.81%, wouldn't it?

20 A Yeah, I believe it would.

21 Q Would you accept 9.2?

22 A I'll accept that number.

23 Q Therefore, under the pessimistic case, the return
24 that the customers would receive on a compounded basis
25 using the worst case assumption is 9.2% with your

1 acceptance of that value, would you agree?

2 A That is what the number indicates, yes.

3 MR. CHILDS: That's all I have now.

4 COMMISSIONER CLARK: Thank you. Staff redirect.

5 REDIRECT EXAMINATION

6 BY MR. KEATING:

7 Q Mr. Stallcup, I would like to go back to a
8 subject addressed by Mr. Childs; and that is, the fuel
9 price forecast addressed in the City of Tallahassee need
10 determination order. Do you have that order in front of
11 you?

12 A Can you tell me what the exhibit is?

13 Q I don't believe it was marked for identification.

14 A Is it the big thick one?

15 COMMISSIONER CLARK: That's the petition.

16 Q No, it's the order granting petition for
17 determination of need.

18 COMMISSIONER CLARK: I think Mr. Childs asked for
19 official recognition of it.

20 Q Right.

21 A I have a copy now, thank you.

22 Q Could you turn to page 11 of that order?

23 A Yes.

24 COMMISSIONER CLARK: Hang on a minute and let us
25 get our copy.

1 COMMISSIONER GARCIA: What exhibit number is it?

2 COMMISSIONER CLARK: It's not an exhibit; it's an
3 order.

4 COMMISSIONER GARCIA: An order that --

5 COMMISSIONER CLARK: Yeah, we just took --
6 Here it is.

7 Q In the first full paragraph on page 11, beginning
8 with the third sentence, could you read the third and
9 fourth sentences of that paragraph aloud?

10 A The sentence that begins with, "The City
11 Commission?"

12 Q Yes.

13 A Yes. "The City Commission has recognized this
14 concern, and as a result, has ordered the City's staff to
15 conduct a market test of short-term purchase power
16 opportunities before committing construction funds for
17 Purdom Unit 8."

18 Q Could you read the following sentence?

19 A Yes. "If a more cost-effective alternative is
20 identified, the City will delay the construction of Purdom
21 Unit 8." Shall I continue?

22 Q No, that will be fine. Does that language
23 suggest to you that the Commission expects that the City
24 will conduct additional evaluation of the project's
25 financial viability before breaking ground?

1 **A Yes, it does.**

2 **Q Is it, therefore, appropriate to consider the**
3 **Commission's acceptance of the City's fuel price forecast**
4 **in conjunction with the fact that there will be additional**
5 **review before proceeding with the project?**

6 **A I think that's a reasonable conclusion, yes.**

7 **Q If the Commission approves Florida Power**
8 **Corporation's petition in this docket, will there be**
9 **another review before the funds are committed?**

10 **A No, there will not.**

11 **Q Will there be another review in the City of**
12 **Tallahassee need determination?**

13 **A It appears to be, yes.**

14 **Q When do you expect Florida Power Corporation**
15 **would enter into a gas contract to fuel the combined cycle**
16 **unit in the replacement case of the proposed buyout?**

17 **A Probably, I would expect close to the in-service**
18 **date, somewhat prior to the in-service date of a**
19 **hypothetical unit.**

20 **Q Would you agree that there is a risk associated**
21 **with the gas prices predicted in the replacement case until**
22 **Florida Power Corporation enters a binding gas contract?**

23 **A Yes.**

24 **Q All right. You were also asked questions by**
25 **Mr. Childs concerning the method of recovering costs if**

1 Florida Power Corporation had built the unit that the OCL
2 contract was designed to avoid?

3 A Yes.

4 Q Did Florida Power Corporation build the avoided
5 unit?

6 A No, they did not.

7 Q Given that, is it appropriate to compare the
8 impact with the buyout on Florida Power Corporation's
9 customers to the cost had Florida Power Corporation built
10 the avoided unit for purposes of your risk-adjusted
11 discount rate methodology?

12 A No, it's not.

13 Q Is it more appropriate to compare the buyout to
14 the existing contract?

15 A Yes.

16 Q If I could get you to refer to two documents, one
17 is your Exhibit PWS-2 to your direct testimony. The other
18 is, I believe it was marked yesterday as Composite Exhibit
19 4. Do you have a copy of both?

20 A PWS-2?

21 Q Yes.

22 A Yes, I have it.

23 Q And do you have a copy of the second exhibit?

24 A Which one was that, again? I'm sorry.

25 Q It was marked yesterday as Composite Exhibit 4.

1 previously identified as LGS-24. It contains late-filed
2 deposition exhibits from Mr. Schuster's deposition.

3 A I think I do, but I don't have a copy in front of
4 me. I'm sorry.

5 Q We'll get you a copy.

6 A Okay.

7 (DOCUMENT TENDERED TO THE WITNESS)

8 A I have a copy now.

9 Q Does your Exhibit PWS-2 contain DRI's 25-year
10 forecast of optimistic natural gas prices?

11 A Yes, it does.

12 Q Looking at page 21 of Composite Exhibit 4?

13 A Yes --

14 Q -- does this documents contain Florida Power
15 Corporation's 25-year forecast of gas transportation rates?

16 A Of gas transportation rates?

17 Q Yes.

18 A Yes.

19 Q For purposes of comparison with other gas
20 forecasts, is it reasonable to add the DRI optimistic
21 forecast of gas prices as shown in your Exhibit PWS-2 to
22 the gas transportation rate as shown in Composite Exhibit 4
23 on page 21?

24 A Yes, I believe it is.

25 Q Now could you turn to your Exhibit PWS-1?

1 A Yes.

2 Q Would the DRI optimistic forecast gas price plus
3 the Florida Power Corporation gas transportation rate
4 exceed the Florida Power Corporation forecast of gas and
5 transportation price depicted on this graph?

6 A I'm sorry, would you repeat that?

7 Q Sure. Would the DRI optimistic forecast of gas
8 price plus the Florida Power Corporation gas transportation
9 rate exceed the Florida Power Corporation forecast of gas
10 and transportation price depicted in your Exhibit PWS-1?

11 A Yes, it would.

12 Q Is the Florida Power Corporation forecast of
13 natural gas prices that appears in this graph the same
14 forecast that they use to determine net ratepayer savings
15 associated with the proposed buyout?

16 A Yes, it is.

17 Q And are these delivered prices?

18 A In the spread sheet calculation or on the graph?

19 Q On the graph.

20 A I believe when I went back and looked, I think
21 these were for Power Corp -- or I'm sorry, you are going to
22 have to repeat the question for me.

23 Q Yes, are the delivered -- The forecast of
24 natural gas prices on your graph for Florida Power
25 Corporation, are those delivered prices?

1 A Yes, they are delivered prices.

2 Q Mr. Stallcup, Mr. Childs referenced circumstances
3 where during the years after 2014 if OCL were to have gas
4 prices similar to DRI's pessimistic scenario that OCL's
5 generation costs would exceed the energy payments received
6 from Florida Power Corporation.

7 A Yes, I recall that.

8 Q Could you turn to page 13 of Mr. Schuster's
9 direct testimony, if you have that?

10 A Yes.

11 COMMISSIONER GARCIA: What page?

12 MR. KEATING: Page 13.

13 A Yes, I have it.

14 Q Beginning on line 10, it begins, "In the case of
15 OCL," could you read that sentence?

16 A Yes. "In the case of OCL, the proposed
17 transaction affects 2014 through 2023 after the project
18 loan is retired in 2010."

19 Q If OCL's loan is retired in 2010, would OCL have
20 both the capacity and energy payment from Florida Power
21 Corporation to offset operation costs?

22 A Would you repeat that? I'm sorry.

23 Q Certainly. If OCL's loan is retired in 2010,
24 would OCL have both the capacity and energy payment from
25 Florida Power Corporation to offset operation costs?

1 A Yes.

2 Q Under the DRI pessimistic scenario, are the
3 capacity payments plus the energy payments OCL would
4 receive from Florida Power Corporation, if the contract
5 were to continue, higher than the projected energy costs
6 under the replacement case?

7 A Yes.

8 Q Thank you.

9 MR. KEATING: Staff has no more redirect.

10 COMMISSIONER CLARK: Mr. Childs, what was I
11 supposed to do with this petition for determination of need
12 by the City of Tallahassee?

13 MR. CHILDS: I wanted to have the witness agree
14 that those were prices that were presented as it related to
15 his comment about if you could get a contract, and I think
16 he agreed that that shows you could. Unless someone else
17 wants it, I don't need it as part of the record.

18 COMMISSIONER CLARK: Okay. All right.
19 Exhibits. Staff moves 12 and 13. Without objection
20 they'll be admitted in the record.

21 MR. MCGEE: Florida Power moves Exhibit 14.

22 COMMISSIONER CLARK: Without objection it's
23 admitted in the record.

24 MR. CHILDS: I think I have 15, 16 and 17.

25 COMMISSIONER CLARK: And 18.

1 MR. CHILDS: And 18, and I will move them.

2 COMMISSIONER CLARK: Without objection those --

3 MR. HOWE: Commissioner Clark?

4 COMMISSIONER CLARK: Yes.

5 MR. HOWE: I would object to the admission of
6 Exhibit 18.

7 COMMISSIONER CLARK: Okay.

8 MR. HOWE: And the reason I would object is if
9 you would look at Exhibit 14 which was introduced by
10 Florida Power Corporation, the majority of that excerpt
11 from the Brigham text deals with the subject of risky cash
12 outflows. Exhibit 18, which was apparently authored in
13 comparison, a more recent text, if you'll note just the
14 last page has two paragraphs dealing with risky cash
15 outflows, and it refers to a table that apparently follows
16 in the text; and for example, I noticed that the table that
17 follows in Exhibit 18 is identified as Table 11-4. It
18 apparently deals with a coal and a nuclear plant. In
19 Exhibit 14, the plants compared are, again, coal and
20 nuclear. They are in a Table 10-4. I would suggest that
21 Exhibit 18 is incomplete and invalid as a comparison with
22 Exhibit 14.

23 MR. CHILDS: Well, that's not the purpose for
24 which it was offered, and with all due respect, I asked the
25 witness the question about his recognition of Doctor

1 Brigham as an expert and whether the methodology had been
2 used. I actually included page 496 so that I didn't stop
3 the discussion of implementing risk adjustments in practice
4 in midstream. If you prefer we take that off, we can.

5 COMMISSIONER CLARK: No, I'm going to allow the
6 exhibit. I think it doesn't go to the admission, it
7 probably goes to the weight of it. So Exhibit 18 will be
8 admitted in the record. We'll take a -- Mr. Childs, have
9 you conferred further?

10 MR. CHILDS: I'm not going to ask for leave to
11 offer additional testimony.

12 COMMISSIONER CLARK: All right. How much time do
13 you have for Mr. Schuster, his rebuttal?

14 MR. KEATING: I'm going to estimate about half an
15 hour right now, but I think based on some of the discussion
16 I can eliminate some of the questions.

17 COMMISSIONER CLARK: Thank you, Mr. Keating.
18 Mr. Childs, do you have any questions for
19 Mr. Schuster?

20 MR. CHILDS: None.

21 COMMISSIONER CLARK: Mr. Howe?

22 MR. HOWE: Approximately half an hour.

23 COMMISSIONER CLARK: Okay. All right. We'll
24 take a break until 11:15, and I propose to finish the
25 hearing and we'll adjourn, and you all can have lunch when

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it's adjourned.

(BRIEF RECESS TAKEN)

(Transcript Continues in sequence in Volume IV)