

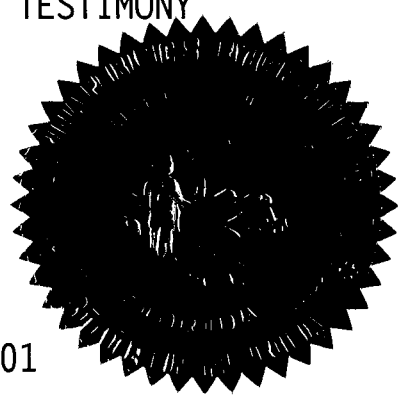
BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

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In the Matter of
HEDGING AND PORTFOLIO
MANGEMENT WORKSHOP
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PROCEEDINGS: WORKSHOP

CONDUCTED BY: COCHRAN KEATING

DATE: Wednesday, August 8, 2001

TIME: Commenced at 1:30 p.m.
 Concluded at 3:44 p.m.

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

REPORTED BY: JANE FAUROT, RPR
 Chief, Office of Hearing Reporter Services
 FPSC Division of Commission Clerk and
 Administrative Services
 (850) 413-6732

1 IN ATTENDANCE:

2 DAVID FAIRLEY, Director, East Power
3 Trading, Enron.

4 COCHRAN KEATING, FPSC Division of Legal Services.

5 JOE JENKINS and BILL McNULTY, FPSC
6 Division of Safety and Electric Reliability.

7 MATT BRINKLEY, FPSC Division of Economic
8 Regulation.

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P R O C E E D I N G S

1
2 MR. KEATING: I would like to welcome everyone this
3 afternoon to this undocketed staff workshop on the subject of
4 risk management for fuel and wholesale energy transactions. I
5 believe there is a sign-in sheet that will be going around the
6 room, if you would sign your name in, let us know who is here
7 today.

8 This workshop was established to provide an
9 opportunity for interested persons to make presentations to the
10 Commission staff and other interested persons concerning risk
11 management policies and procedures related to fuel and
12 wholesale energy transactions. And I believe our notice for
13 the workshop gave fair warning that Commissioners may be
14 present, as well, and we do have two Commissioners present at
15 this point, Commissioners Palecki and Deason.

16 I am aware of only one party who is here to make a
17 presentation today, and that is Enron. If there is anyone else
18 in the room who has prepared a presentation, or would like to
19 make a presentation today, now would be a good time to let us
20 know so that we cannot cut this off too soon. Okay.

21 Well, seeing no one, I will turn things over to
22 Enron. And their presenter today is Mr. David Fairley, who is
23 the Director for East Power Trading for Enron. And the
24 microphone is yours.

25 MR. FAIRLEY: Thanks for the opportunity to be here.

1 Welcome, everyone, on behalf of myself and Enron. Director of
2 East Power Trading that sounds a little bit inflated. What I
3 really do is I'm a long-term marketer for -- long-term power
4 marketer for Enron. My region is primarily in the southeast.
5 I've spent a lot of time in Florida through the years. My
6 first few years out of college I worked for a large gas
7 utility, engineering, rates, regulatory, and marketing. So I
8 got a good sprinkling of the more important areas.

9 And since that time I've been on the unregulated side
10 of the business, spent a lot of years doing gas trading and
11 marketing. And over the past three years focused totally on
12 power marketing and projects.

13 The subject matter here is pretty broad. You could
14 fashion a four-year college degree on this subject and still
15 not know enough. But there is tremendous opportunity for
16 companies that want to avail themselves of hedging and risk
17 management products and techniques. What I did is I tried to
18 focus on my own personal area, which is power marketing and
19 power risk management. And I wanted to specifically do that
20 rather than focus solely on fuels.

21 The issues are the same. You can transfer these
22 techniques from commodity to commodity to commodity. They are
23 all the same. Many of the -- many companies will do
24 agricultural, energy, interest rates. You can walk around
25 Enron and you can go to a different floor and we have got

1 traders doing currency trading and interest rate trading just
2 to manage those positions for our company, and six months later
3 they may transfer over to gas or power trading. Very
4 transferable.

5 But I wanted to focus on power because power risk
6 management is not as liquid as fuels. It is much more
7 difficult to do. You have to focus on some of the issues more.
8 And I thought it would be more appropriate, because, you know,
9 we are not a group here of power traders or gas traders who
10 have been doing this for years. We are going to talk about
11 fundamentals here.

12 The first thing I wanted to do is kind of set the
13 tone. I guess everybody has got the presentation. If you will
14 flip over to the bright yellow chart, it's about the third or
15 fourth page, recent influential events, the California crisis.
16 What better subject. Everybody is an expert on this.

17 What I tried to do was take several items that we
18 feel contributed to the situation in California. You know,
19 number one, demand increasing faster than supply. And you can
20 see over on the right, I picked two other areas. The New York
21 ISO, which is somewhat of a viable market. They do have an ISO
22 in place, power is in traded, rules are in place. And in
23 Florida, which is more of a traditional market. And, you know,
24 if you go down this list of items, and I'm not going to try to
25 go down and analyze each one of these items individually, but

1 if you go down this list of items, there is a point here to
2 make. California, check-off on almost everything. And Number
3 10 on the check-off may happen yet. It is certainly moving in
4 that direction with transmission, perhaps generation is next.

5 In New York, almost a duplicate of California. And
6 when you get down to some things like the liquid market, price
7 caps, those sorts of things, in many ways identical to
8 California, and very serious problems in those markets. People
9 in New York spend half their time trying to figure out how to
10 get around the rules so they can transact, and so they have
11 created a very distorted market there.

12 Now, if you would look over at the Florida list, you
13 know, you have got a lot of boxes checked off there. We have a
14 lot of boxes checked off there. And I realize some people may
15 read over this and may agree or disagree with some of these
16 things. This is rather subjective. But the point here is we
17 have to ask in Florida how far away from California are we, and
18 think about even more important how easy it would be. People
19 are talking about change. The market is changing, all the
20 participants in the energy industry are changing and trying to
21 learn how to accommodate these changes in the market.

22 A few decisions are going to be made at the Florida
23 Public Service Commission in the next months and over a year or
24 two that could easily move Florida more in the direction of
25 California despite what the IOUs may want to do or not do, or

1 companies like Enron, or what have you. And I put this slide
2 in the front just to kind of set the tone that there are pretty
3 serious issues here. When you make -- when you start delving
4 into this area of risk management and hedging and doing things
5 that affect pricing and changing the way that the utilities do
6 their business.

7 Now, I want to tell a little story. My first
8 personal exposure to hedging. It happened and for quite a few
9 years I did not appreciate what I even saw. This happened to
10 me about 25 years ago. I was working for the gas company.
11 There was a purchasing agent and a serviceman who had sort of a
12 hobby business on the side. They raised soybeans. And they
13 each had about 40 acres, and this was kind of an
14 afternoon/weekend type job, and they had made a little bit of
15 money doing it. One day we were in the coffee shop talking,
16 and they were discussing booking their beans. And I asked a
17 question, "What do you mean by booking your beans?" Because I
18 was thinking about tractors and planting and that sort of
19 thing.

20 What they did is they went to the co-op, this was
21 before they ever planted a field, they went to the co-op and
22 they presold their beans. They would watch the futures prices
23 for soybeans in the newspaper and when the prices got to a
24 level they liked, they would go to the co-op and essentially
25 sell forward their beans.

1 And I thought, well, how smart. Everybody knows
2 during the harvesting season, soybeans, cotton, any
3 agricultural product, the prices come way off because the
4 market is flooded with the product. So they were doing
5 something pretty smart. Well, then I asked some more
6 questions. I said, "Now, what do you do if you have a crop
7 failure? What if there is a drought or something happens to
8 your 40 acres? You're going to owe the co-op a lot of beans."
9 And they said, "Well, we have got crop insurance." And I
10 thought, you know, federal crop insurance, I thought that is
11 pretty smart. If there is a hurricane, or a drought, or
12 anything, they are covered.

13 And, you know, they basically knew what it cost them
14 to plant their crop; chemicals, fuel, repairs to their
15 equipment, that sort of thing. They knew what it cost to
16 produce a bushel of soybeans. They presold those beans, they
17 locked in their margin. They knew they were going to make
18 money. And it was not a pure science, it was not penny for
19 penny on every bushel of beans, but they had very good
20 certainty that they were going to make a lot of money on those
21 40 acres.

22 Well, over time these people grew to the point that
23 they had family members and neighbors and everybody else doing
24 this. They had a good thing going, and they had a lot of fun.
25 It was hard work and they had a lot of fun doing it. But they

1 were hedging. That was 25 years ago. These are guys that
2 were -- neither one of these gentlemen had college educations,
3 they weren't really educated. Like a said, a purchasing agent
4 and a serviceman, yet they had figured out how to hedge their
5 soybean farming process.

6 And, you know, the utilities weren't doing this, the
7 energy business wasn't doing it. And, of course, it took years
8 later before I realized this was hedging. And it took 15 years
9 later before I realized their crop insurance was nothing but a
10 weather hedge, and that's all it was. And so, over the years I
11 have often thought back to that and I have told that story to
12 illustrate, you know, as much as we all think we might know,
13 there is a way to lock in profits and to protect from the
14 disasters that can happen in any business.

15 A couple of the fundamental components that are very
16 important to think about in risk management and hedging, in
17 this next section it's called hedging volatility. And I
18 apologize to everyone for not having a PowerPoint presentation.
19 We had some logistical problems. So if you would just do the
20 extra work and follow along in the slides.

21 But if you will go over to the page hedging
22 volatility, there are two columns there, hedging and
23 speculating. I know it's probably very clear to everybody in
24 this room, but I always try to emphasize it anyway when talking
25 about the fundamentals of risk management. There is still a

1 big misconception in the energy marketplace about hedging and
2 risk management. Hedging is not speculation. Hedging should
3 not be risky. If a hedge is properly done, there is an
4 offsetting position. You will gain on one, you will lose on
5 the other, but in total you cannot lose. You can't lose the
6 whole house. It just can't happen.

7 Lots of people -- and, of course, it has been
8 publicized greatly, you know, companies and municipals who have
9 used derivative products and hedging techniques, and they have
10 lost a lot of money doing -- utilizing those products. They
11 were not hedging, they were speculating. They were trying to
12 hit home runs. They thought interest rates were going to go in
13 their favor, they thought various things were going to happen
14 in their favor depending on what market they were playing in.
15 And they took positions, they bought swaps, or options, or
16 various things and they lost a lot of money.

17 That was speculation and that is no different than
18 any of us going down to one of the casinos and betting money.
19 If you are lucky, if you have it figured out, you are going to
20 make a lot of money.

21 In my company, Enron, we are a big company, a lot of
22 people think we're giant speculators and that Enron takes on
23 huge risks. We don't really do that. The vast majority of the
24 portfolio of our energy business is fully hedged. It is the
25 only way to do it. There is no way that we could guarantee our

1 stockholders long-term earnings stability if we didn't hedge
2 all of these things. There is no way that we could do
3 long-term deals with utilities all over the country and
4 guarantee them that we are going to be able to service the
5 contracts without having those deals hedged.

6 But moving to the slide, hedging versus speculating.
7 Hedging, specific objective driven. You have a transaction, or
8 you have a position, a group of transactions if you are short
9 power, you need to buy, you are long power because you are a
10 generator and you are going to do some offsetting hedge to
11 achieve some particular objective.

12 Speculating is purely profit driven. And if you
13 don't really need 500 megawatts and you go out and buy 500
14 megawatts because you think the market is going to go up, maybe
15 it will, maybe it won't. That is speculation. If you use a
16 derivative product to attain that same 500 megawatts of length,
17 you are still speculating. It is not physical power, so you
18 are not going to have to sell the power, but there will be a
19 financial settlement. Hedging, I already mentioned, offset by
20 a position; in speculating there is no offsetting position.

21 Hedging reduces volatility exposure. The prices that
22 we all hear about, the outrageous prices -- and, again, this is
23 where power is a good example because power is so much more
24 volatile everywhere you go. Hedging can take the volatility
25 out of the particular market, whether it's a transaction or a

1 position that a company has or a portion of a position.
2 Speculating however, is volatility driven. And in our company,
3 when we periodically take positions in our commodity business,
4 we are speculating. If we think hot weather is going to cause
5 prices to go up in an area, we may buy power a day ahead and
6 expect to sell it and make a profit. That is a speculative
7 position and we do some of that.

8 Hedging reduces likelihood of large losses and gains.
9 And, again, the next point, stable expenses. With speculation
10 -- and largely people will use risk management techniques and
11 products because largely they are financial and you don't have
12 the physical aspect to deal with. You do increase the
13 likelihood of large profits, but you can have huge losses, too.

14 And we have all heard the stories about companies
15 going out of business in the energy business the last few
16 years, and marketing companies, trading companies, and
17 utilities taking huge earnings hits because they speculated,
18 they were not hedging. And they did not predict, you know,
19 their crystal ball didn't work well enough, and they didn't
20 predict the market well enough.

21 If you will flip the slide over, PJM on-peak energy
22 clearing price. I use this slide, the PJM power market, it's a
23 functioning viable market and a lot of people talk about it.
24 It is touted because it works. It's not an easy market, it's
25 not perfect, there are lots of problems with that market. And

1 if you talk to someone who buys or sells power in that market,
2 you will hear lots of horror stories about what goes on in that
3 market. And you can see largely prices in PJM over this couple
4 of year period are pretty stable, didn't vary all that much,
5 but you can also see some tremendous spikes along there, June,
6 July, August of '99, giant spikes up to \$600.

7 Now, what is not on this chart, but I will tell you,
8 yesterday PJM hit 1,000 bucks, \$1,000 a megawatt hour. And it
9 was only for, I think, one or two hours. Most of the other
10 on-peak hours were in the hundreds of dollars, but still those
11 are tremendous prices. And any company who desires to
12 speculate and try to make a lot of money, that's fine, they can
13 do that. But a company whose job is a load-serving entity or
14 has an obligation to sell power to a load-serving entity, that
15 sort of thing, the primary business is to provide good solid
16 reliable power supply.

17 If they took positions in that market knowing the hot
18 weather was coming, maybe the prices would go to \$1,000, maybe
19 they don't, but in any case with hot weather, and it has been
20 extended hot weather in the northeast, everybody knew that the
21 prices were going to be volatile. And anybody who had an
22 obligation to serve, again, whether as a utility or serving a
23 utility and pursued that business without being hedged, that is
24 foolhardy.

25 And I can tell you there are some companies who lost

1 a lot of money in the last two days in PJM. I spent some time
2 yesterday before I left town talking to our traders who trade
3 in that market, and I'm not going to mention any names, but I
4 was surprised there were a couple of names that were trading up
5 there that, you know, probably at the end of the quarter you
6 are going to hear some earnings hits on a couple of utilities
7 and a couple of trading companies, trading houses, marketing
8 companies, just because of a couple of days in PJM. Just to
9 pinpoint that one relatively small region. So even in a market
10 as viable as that you have got a lot of risk and you have
11 reason to hedge that risk.

12 If you will flip to the next page, another quick
13 example of volatility. You have got Treasury bonds, NASDAQ
14 stock market, NYMEX Natural Gas, all pretty stable and most
15 people don't think of natural gas as being all that stable, but
16 relatively speaking it is. And then the green line there, the
17 spot price of power in the California power exchange. It says
18 peak weighted, that is just on peak. You can see the
19 volatility.

20 Now, this chart does not chart prices, it is charting
21 percent of volatility. Outrageous volatility. Huge spreads
22 from min to max on pricing. And is it any wonder that the
23 utilities in California have had so many problems when they
24 really cannot in their day-to-day business just go out and buy
25 large quantities of power forward at fixed prices. They are at

1 the mercy of what is going on hourly and daily in that market
2 and they just have to pay these prices.

3 The next section, forward markets. And I hope just
4 these few examples illustrate just how volatile the market can
5 be. Fuels and natural gas are not as volatile, but they are
6 volatile. And in the quantities that utilities in Florida and
7 around the country buy fuels, that volatility can make a huge
8 difference in cost. Which eventually goes on to all of us, the
9 ratepayers.

10 Forward markets. Probably the most important
11 consideration, the most important thing that everybody should
12 have their eye on no matter whether they are a hedger or not a
13 hedger, a public service commission or anything, is a forward
14 market. That is the most important tool that we all have. You
15 know, we hear it discussed and debated in the RTO discussions
16 about trying to set the market model in such a way that we can
17 have a viable forward market without impediments, without
18 constraints.

19 I would mention there was an article, and probably
20 some of you saw it, it was in Baron's in the last couple of
21 days, and it had to do with potential electricity supply glut
22 in the country and the impact on utilities, electric utilities
23 and non-utility generators. And the author several times
24 through this article mentioned forward markets. The reference
25 largely was that the question of whether looking at forward

1 markets, you know, we have a forward market in PJM, Florida,
2 what have you. Everybody has somewhat of an idea of what
3 prices are going to be, but that's not a real forward market
4 that everybody agrees on.

5 And the question was is it the right decision to
6 build all the generation that is being built. In many parts of
7 the country, the forward market as it exists, what prices for
8 power are really trading at and fuel, natural gas for that
9 matter, they don't really justify building the plants. Now,
10 there are regions of the country that -- exclude California,
11 but if you go to New York or up in the northeast there is a lot
12 of areas up there with a forward market and -- I mean, what
13 prices are really trading at doesn't really fully justify
14 building generation. But everybody knows they have got to
15 build some generation in New York City and in large parts of
16 New York.

17 The other thing was in this article it was pretty
18 clear that the Wall Street analysts are looking at forward
19 prices for power and fuels, but primarily natural gas, and they
20 are judging all of these generating companies, whether they are
21 utility companies, IOUs, or non-utility generators and judging
22 them and making recommendations on whether to buy or sell their
23 stock. That is a huge input in their analysis.

24 So we may choose to ignore the concept of forward
25 markets, we may choose to do things that impede forward markets

1 in a new RT0, or in the current market, or what have you. We
2 may choose to impose rules that don't allow utilities to
3 participate in a forward market fully and, therefore, there is
4 not a viable forward market, but Wall Street is going to do it.
5 Other people, other segments of business in the country are
6 going to use those forward markets to judge the electric
7 industry. So it is important.

8 Flipping the page over. Importance of forward
9 markets and liquidity. And I wish I had a better subject than
10 this to talk on. This is not the most exciting subject in the
11 world, especially at the fundamental level like this. But
12 forward markets, if you have a good strong viable forward
13 market that means you are going to have liquidity. Liquidity
14 means you can go out and transact; buy, sell, and do hybrids
15 of buys and sells at will. Plenty of willing counterparties,
16 not unrealistic price premiums for certain hybrid products.

17 Forward markets are good for a planning tool and that
18 is what the Baron's article was emphasizing, was the value of
19 forward markets. The Wall Street analysts are using those
20 forward markets whether we like it or not to value our
21 utilities.

22 The next point, a requirement -- a forward market is
23 a requirement to price more sophisticated hedging tools and it
24 is primarily talking about options. If you are working with
25 risk management products and techniques, you are going to be

1 using options. Physical power, physical gas, transacting in
2 those two commodities, there is a fair amount of call options
3 that are bought and sold. Some put options. You need a
4 forward market. The first bullet there, the underlying market,
5 that is the forward fixed price market. Time to expiration,
6 well, that's just the days left in the month. Volatility and a
7 strike price. Volatility, the more volatility you have, of
8 course, the more premium you are going to have on a product.

9 If you don't have a viable fixed price market, a
10 viable forward market, the options that trade -- that are
11 necessary to trade, to hedge, or to speculate, or just to go
12 and buy power or gas, there is going to be perhaps an
13 unrealistic premium in the price built in. If the forward
14 market has a measure of uncertainty or great uncertainty about
15 it and, again, it's simply how many trades are happening, how
16 many deals are getting done. And if only the very basic deals
17 are getting done to be able to trade power supply back and
18 forth just to satisfy loads and get rid of excess, and to buy
19 and sell gas and fuels that are just absolutely necessary, that
20 is not enough to have a liquid viable forward market. You
21 don't have enough prices, you don't have enough price
22 transparency.

23 And if you have a good viable forward market, it's
24 not a bad technique to use for measuring the success of
25 utilities in their buying and selling of fuels and power. Now,

1 I will mention here most utilities will -- and this is all
2 across the country -- they judge themselves and they are judged
3 based on the index. Buy gas for the month below index, buy gas
4 for the day below index. If you can do that, you have won.

5 But think about it this way. If the hourly prices
6 yesterday in PJM were \$1,000, and you bought \$900 power, did
7 you really do a good job for the ratepayers? \$900 power. If
8 you are the ratepayer, you say no. And probably if you are
9 management of that utility, you are going to say no privately.
10 But beating index by a hundred bucks is not good enough, that
11 is not a good job. So the rule of thumb to beat index just
12 does not work in the volatile markets that we have today.

13 Flipping the page over, increasing liquidity reduces
14 market volatility. Florida is a good example. I have been
15 working in Florida for years, and I know the power and the gas
16 market, the fuels market extremely well in Florida. And this
17 statement, currently a 100 megawatt transaction can move prices
18 against you. If you go out and make one phone call, buy 100
19 megawatts and nobody knows about it, you will probably get a
20 price you are satisfied with.

21 If you broadcast very much that you are looking for
22 100 megawatts, prices are going to move against you
23 significantly. And I realize significantly, that is kind of a
24 subjective thing to say. And Florida is not such a big market
25 that you have so many players that there are that many secrets.

1 If somebody is out buying much size at all, that market is
2 going to move against you. If you have more liquidity in the
3 market, you won't have that situation. The volatility won't
4 goes against you simply because you are out there trying to
5 buy.

6 And the bid offer spreads will shrink. Frequently
7 the prices that you see in the market for power -- and this is
8 true for gas in a lot of situations -- the bid offer spread,
9 the price that people are willing to sell at or buy at, those
10 spreads are huge. Now, in our company's on-line trading
11 system, we force our traders to keep very narrow bid offer
12 spreads. And they lose a lot of money maintaining that
13 discipline at times, but it's the only way that we can keep
14 lots of trading going on in that on-line system. We force
15 liquidity into that on-line system, and it works and it is
16 manifested in more trades getting done.

17 Let's flip over. Drivers of a forward market. And
18 I'm not going to try to go into all of this in detail because
19 it is pretty dry. Expectations and uncertainty, what might
20 weather be doing, generation, transmission, fuel cost, these
21 are the sorts of things that happen. And there is a brief
22 example there of a generator who wants to sell forward, but he
23 is not sure if his unit is going to run or if he can get fuel.
24 He is going to charge a little bit of a premium to maybe the
25 generic forward market because he is taking a bit of a risk

1 there to sell forward.

2 And looking back on indexes is not an appropriate way
3 of judging what that generator did. That generator should
4 charge a bit of a premium because of the risk that he is taking
5 on.

6 Forward market distortions. I think this is pretty
7 important, and this is where at the regulatory level it is
8 pretty important to be careful what happens. In New York they
9 have a 60-day rule. Essentially on those days when the market
10 is not capacity short, extremely hot days or a significant unit
11 outage is going on, a generator is not allowed to sell at a
12 price higher than his previous 60 days of prices. It is more
13 complicated than what I'm describing, but essentially it is a
14 price cap.

15 Now, you know, my personal point of view, it's not
16 fair, that is not a fair constraint to put on a generator, a
17 restraint to put on a generator. If the market is willing to
18 pay a higher price, the generator still can't sell at the
19 higher price. Well, what happens is everybody in that market
20 that is affected by that rule spends an awful lot of time
21 trying to figure out ways to get around that rule so that they
22 can operate, make the money that they are supposed to make.

23 California price caps, we have all heard a lot of
24 that. Very controversial. But ultimately you put yourself in
25 the shoes of the generator, would you want to have price caps?

1 If you are selling a vehicle to your neighbor, do you want a
2 rule out there that says you can only sell that car for half
3 the price you paid for it originally? That would seem so
4 unfair, but it's the same thing. If the vehicle is worth more,
5 you should be able to sell for more.

6 Now, debating the issues of whether price caps are
7 moral, or reasonable, or not, that is really for a different
8 time and place. But the fact of the matter is price caps
9 severely effect forward markets. They severely effect
10 liquidity. And all of these constraints on liquidity and
11 markets manifest themselves in making it more difficult to
12 hedge what you are doing. And if you are unhedged, more
13 volatility is created artificially that ultimately is going to
14 cause higher prices.

15 Any price control mechanism, especially complicated
16 price control mechanisms, you can't define value and it scares
17 people there. There are times that Enron, as sophisticated as
18 we think we are, we will just back away from certain markets
19 because the rules or the constraints are such that we just
20 don't know if we can go into that market and play and make any
21 money and provide reliable service, which is as important to us
22 as making money. And so we just back away and we disappear
23 from a market. And at times people ask us, well, why aren't
24 you active in this market or that market, and that's why. If
25 it is not a viable market, and we can't perform reliably and

1 make money we won't be there.

2 Developing a risk management program, if you will
3 flip over a couple of pages. You know, if you decide you want
4 to have a risk management program, and you have crossed that
5 hurdle and you have convinced yourself that this is the thing
6 to do, there is value there in the case of the power business,
7 utility business, or in fuels, there is benefit for ratepayers,
8 you then have to determine what are your objectives. Do you
9 just want to reduce fuel prices; do you want to try to make
10 sure that you have as much low-priced power as possible, you
11 don't give any of that up, but you insulate your company from
12 peaks, put yourself in a situation where you are never paying
13 the \$1,000 PJM type prices. You want to determine your
14 objectives.

15 In Houston, my electric utility is Reliant Houston
16 Light and Power, and I hedge with HL&P. I signed up for the
17 level-pay program, so I pay the same price every month. I
18 mean, that is a hedge. It doesn't help me on price, but it
19 sure does help me on my cash flow. It is a hedge, and it is
20 made available. Now, there is no way that the utility in the
21 current environment can get down to my level as a homeowner and
22 give me any control over the prices I'm paying. If they would,
23 I would form a strategy and go about figuring out how to avoid
24 the high summer peak in prices.

25 A whole list of things here. You have got to prove

1 prudency in a risk management program both to management and to
2 the Commission. The third bullet here, capturing existing
3 embedded optionality in a contract to maximize value. That
4 word embedded is misspelled. I have corrected that and it
5 keeps coming back misspelled. I guess this thing is haunted.

6 You can use certain risk management techniques to
7 extract value from existing -- embedded value from existing
8 positions that every utility has. An example, a dual fuel
9 power plant. The fact that that power plant can switch fuels
10 at will, mechanically switch fuels, if you go to a derivatives
11 research guy and tell them you have got a 1,000-megawatt power
12 plant that you can switch from Number 6 oil to gas at will,
13 they go crazy. There is huge value in that.

14 But that capability is needed by utilities to provide
15 reliable service. The objective there is not to make money out
16 of the fuel switchability, it is to provide reliability, and
17 yet with certain risk management techniques you can extract a
18 lot of that value. And I wish we had the time and a white
19 board so I could draw some of these things on the board. They
20 are pretty interesting.

21 The fourth point there, secure energy requirements at
22 better than index. Again, you want to beat index, but every
23 time you make a decision simply to beat index, you are doing it
24 at the expense of a fixed price projection. You are subjecting
25 yourself to that example I used of paying \$900 for power in a

1 \$1,000 market. You beat index, but did you really do a good
2 job for your company. And I'm not going to go through all of
3 these, but these are -- these are generally a list of things
4 that accrue to a company when managing a risk management
5 program and they are considerations that have to be covered.

6 Flipping over. Quantify. These are the things -- if
7 you are going to put a risk management program together, a few
8 things that you really have got to do. You have got to
9 quantify your exposure, look at your load, look at your
10 generation, look at your contracts. What are the
11 characteristics, how firm are they, nonfirm, that sort of
12 thing. Is this price exposure pass-through or is it not? In
13 most cases with the utilities it is pass-through. And then the
14 political risk threshold, which is a fancy way of saying
15 prudence questions.

16 And the worst case is to do nothing. For a person at
17 a utility to realize that even though there are things they
18 might do to improve a pricing situation, and we talked a little
19 bit about this before the meeting started, the decision
20 generally is don't do it. There is no mandate to do it. No
21 one is asking you to do it.

22 And on hedging, you know, there is always a winning
23 side and a losing side on a hedge. Not between participants,
24 but on a hedge. If you sell NYMEX and buy physical gas, one or
25 the other is going to lose money, but that's okay because

1 overall you didn't lose a large amount of money, you just lost
2 a slice. But it can be viewed that that loss on a hedge was a
3 bad thing.

4 And in a utility if the auditors come in and review
5 what was done there and it was deemed that, well, if you hadn't
6 done that hedge at all that money would not have been lost,
7 maybe in total not a lot of money, but on the hedge it looked
8 like a lot of money, and it could appear to be a very risky
9 thing to have done. It looks bad and serious questions could
10 be asked.

11 So what happens? The utility is not going to take
12 this risk. They shouldn't take that risk. And years ago when
13 I worked for a utility and I was a fuel buyer, I wouldn't do
14 it, either. There were things that I knew I could do that nine
15 times out of ten were going to be big wins for the utility, for
16 the fuel portfolio and for the ratepayers, but I couldn't do
17 it. And I would go sit down and talk to my boss and we would
18 analyze the situation, and generally we would decide not to do
19 a lot of the things that were available. Even back, you know,
20 15 or 20 years ago, much less what is available these days.

21 The next bullet, assessing management's risk
22 tolerance --

23 CHAIRMAN DEASON: Excuse me, may I interrupt for just
24 a second?

25 MR. FAIRLEY: Yes, sir.

1 COMMISSIONER DEASON: That last point, I understand
2 exactly what you are saying, and I guess my question is in your
3 opinion what do we, as regulators, do to encourage utilities to
4 prudently go after opportunities that are reasonably there
5 without them feeling like they are going to be unduly harmed if
6 they make a mistake, when as you indicated on average there are
7 going to be net benefits derived? Have you had any -- have
8 other states addressed this, do you have any experience as to
9 how -- or any thoughts as to how regulation should be
10 implemented to provide the correct structure and incentive for
11 companies to aggressively manage their portfolio?

12 MR. FAIRLEY: That's a great question. I think the
13 most straightforward thing to do would be to give each utility
14 the opportunity to develop a risk management policy which
15 essentially would be a picket fence around what they can do.
16 Trading limits. The exact same risk management policy that any
17 company who is performing a sizeable risk management function
18 ought to have internally anyway. Develop that risk management
19 policy, bring it in front of the Commission and get it blessed.
20 Basically a set of rules that protect from getting too far out
21 of bounds. We have that inside Enron.

22 And I guess the best way that I could explain it is
23 that, you know, we have a lot of traders at Enron, power and
24 gas traders. And with a trader -- and it's no different at a
25 utility, but in essence, you know, with what they are doing,

1 buying and selling gas, power, what have you, but at Enron we
2 are not a load-serving entity, so we are buying and selling the
3 commodities strictly to make money or to do things that we need
4 to do to satisfy our long-term contracts and obligations.

5 You never want to put a trader in a tentative
6 situation. If you put a trader in a situation where they are
7 going to get second-guessed, where there is going to be a lot
8 of armchair quarterbacking going on, they are not going to do
9 deals. What you can do is encourage them, incentivize them to
10 aggressively pursue transactions, but you also put the picket
11 fence around them so that if they do make a bad decision on a
12 trade or a series of trades they cannot lose very much money.
13 So you have basically given the trader a parachute, a safety
14 net, and it is very effective.

15 And I think that would be my answer to your question,
16 to have a utility develop a risk management and trading policy,
17 to bring it forth, get it approved, and then it's up to the
18 management of the company to make sure that the employees
19 follow the policy. If it is too restrictive, not much gets
20 accomplished. If it is too broad, you still don't give the
21 safety net to the individual employees who have to carry out
22 the business of buying and selling power and fuels and such.

23 COMMISSIONER DEASON: Is the goal of doing that to
24 minimize the impacts of price fluctuations so that you have a
25 relatively stable price, or is the benefit actually lowering

1 what otherwise would be the fuel cost level, lowering on a
2 long-term basis overall fuel costs?

3 MR. FAIRLEY: Both of those, and the third would be
4 extracting embedded value in assets that exist. Contracts,
5 generation, what have you. So there are really three
6 objectives that can be achieved. Probably the first and most
7 fundamental is just lower prices if you can.

8 The second and maybe the more important is provide
9 the insurance you need to avoid run-ups in prices. And then
10 the third, extracting embedded value, that could be tremendous.
11 And, of course, all of that value can be plowed back to the
12 ratepayers or split somehow between ratepayers and
13 shareholders.

14 Let the company -- I think there should always be an
15 incentive for the company to try to do a better job than they
16 are doing. And I think the utilities do a great job. But
17 there are things that utilities everywhere -- and I spent a lot
18 of years in a utility, and I know there are a lot of things
19 that utilities could potentially do that could improve the lot
20 of the ratepayer.

21 COMMISSIONER DEASON: If a utility were to come
22 forward with a plan and we reviewed it and we indicated that it
23 looks like a reasonable approach that we think that there are
24 benefits to be derived, and there has to be a period of time
25 that you implement it and get some experience from it, not

1 engaged in Monday morning quarterbacking, but let things
2 operate, at what period of time do we look back and see if the
3 program has been successful? I'm not talking about individuals
4 trades and whether it was a good deal or bad deal, I'm just
5 talking about over the long-term, what period of time should we
6 let things -- let the market operate. And when do we go back
7 and look to determine if it has been a reasonable plan and if
8 we need to make changes to it? And how do we judge it to see
9 if it has been successful?

10 MR. FAIRLEY: Judging it is easy. Has value been
11 provided or not. And that value is really manifested in two
12 ways, savings or profits, extracted value. How long? That's a
13 tough question. I think the first real look at a program,
14 maybe after six months, but not a deep look. You're always
15 going to audit any program like this probably monthly or
16 quarterly, but a cursory look at six months and a serious look
17 at a year. Because to integrate a risk management program into
18 a utility's business, it's a big business, it's a complicated
19 business and it is going to take some time.

20 And it could be a bank who wanted to expand their
21 risk management program. It would take some time to fully
22 implement the program and become proficient within the program.
23 Because everybody is going to be tentative at first because
24 everybody wants to do the right thing. Nobody wants to do the
25 wrong thing. So people are going to be cautious and tentative

1 at first. And once the individuals begin to feel their way in
2 and learn how to apply some of the techniques in their everyday
3 business, more and more can be done.

4 COMMISSIONER PALECKI: In a period as short as six
5 months or a year, wouldn't it be purely a matter of luck as to
6 whether you see savings or not, and aren't we talking then
7 about speculation rather than hedging?

8 MS. FAIRLEY: I think there is always an element of
9 luck in anything you do and especially in something like this,
10 which is relatively new, a new paradigm in a long-lived
11 traditional business. It's not speculation, I would not say
12 that. If the program is set up in such a way that large
13 uncovered positions are not allowed, there is no speculation
14 there. Am I answering your question? Okay.

15 There should not be -- and that's why I kind of
16 opened this thing up talking a little bit about comparing
17 hedging versus speculation. It's not necessary to speculate,
18 it's not necessary to use risk management tools to speculate to
19 make money to benefit the ratepayer. That is not necessary.
20 There are a lot of -- there are many, many things that can be
21 done. Some speculation may be allowed and maybe should be
22 encouraged, but that should be a small part of it.

23 As it is at Enron. Enron is a trading company. It's
24 a huge company and it's heart and soul is a trading company,
25 and yet, like I had said earlier, the vast majority of the

1 business that we have on our books is hedged and it will always
2 be hedged. It has to be, because there is too much volatility.
3 Enron is moving -- Enron trades as much gas on a daily basis as
4 the whole country physically moves. There is no way that you
5 could speculate on that total quantity and control it. You are
6 either going to make giant dollars or lose giant dollars, and
7 that is not fair to shareholders and it should never happen in
8 a company in this country. So you have to hedge 99 percent or
9 the vast majority of your business.

10 And that's where the policy is so important, and
11 where management has to see that the policy is carried out. I
12 recently did a transaction with a small -- relatively small
13 municipal utility where we were optimizing some of their
14 assets. They are a load-serving entity, they have their own
15 generation and we put a very small risk management policy,
16 trading and risk management policy -- although we struck the
17 word trading to satisfy the city commission -- small, brief,
18 about a five-page risk management policy in the back of the
19 contract. The city saw no need for that. They said, "We trust
20 you guys. You know, you are going to make recommendations and
21 we are going to give you a thumbs up and a thumbs down on
22 everything that you recommend, but we trust you. We think it
23 will be okay." And we said, "No, we want this policy in there.
24 We want it very clear to anybody involved, or anyone who may
25 question this transaction, or may look into this transaction,

1 we want people to see that certain limits on hourly power,
2 daily power, what have you, will be adhered to."

3 And we said even beyond that, if we come up with a
4 trade that clearly the policy says you are going to have to go
5 to your general manager or perhaps to your commission before
6 that particular trade or that particular transaction could be
7 conducted, we want that rule set out there so that everybody
8 who is involved with this contract knows that is something that
9 is serious in its consideration. And if such a transaction
10 comes forth, we want it very clear to everyone involved that
11 Enron is not going to make the decision, and we don't want our
12 contact at this utility making the decision, and we don't want
13 the general manager making the decision, we want the city
14 commission making the decision.

15 And after we went through the philosophy a little
16 bit, they said, you know, this is really good. This is a good
17 discipline, and we may not do a lot of these longer duration or
18 more complex transactions, but at least if we do everybody sees
19 the rules that Enron expects to live by in getting such a
20 transaction approved. Was it a waste of time? It took a lot
21 of, you know, legal work to get that risk management trading
22 policy written so it was satisfactory to both sides, and
23 understandable, and all of that.

24 And probably, you know, two and a half years from now
25 when the transaction is over, 90 percent of what is written in

1 that policy will never be utilized. But when we do encounter
2 those particular transactions that Enron believes are
3 beneficial for that utility, we will have a rule in place to
4 cover that situation and there won't be a debate -- there may
5 be a debate, but there won't be a debate over who should
6 approve or what have you. We'll expect in some cases the city
7 commission to bless the transaction. That is for everybody's
8 protection.

9 You know, as a dealmaker, in some ways I kind of like
10 it that it is wide open. I can do what I want. But really
11 after doing this for years, you don't want that. You want your
12 dealmakers to know they are protected so they can be as
13 aggressive as they need to be or want to be, but yet they know
14 what their limits are.

15 COMMISSIONER DEASON: One followup question. Even
16 within the confines of this picket fence as you indicate which
17 gives some comfort both to the utility and to the regulators,
18 should there be some type of an incentive mechanism for a
19 utility to aggressively pursue opportunities within the
20 confines of that, or do we just put that policy in place and
21 leave it to them to pursue opportunities within that without --
22 and I guess my question is should there be an incentive, and if
23 there is, how do you structure the incentive so that it is
24 appropriate both for the risk that is being taken on and to
25 protect ratepayers in the long-term?

1 MR. FAIRLEY: Should there be an incentive? I think
2 that is a simple answer, yes, there should be an incentive.
3 Aside from the technical aspect, it's human nature if the
4 utility management knows that doing this extra work and effort
5 can benefit the ratepayers and the company, it's going to work
6 better, it's going to work better. Someone does a good job
7 here, they get reviewed at the end of year, they get a raise,
8 they are motivated. It's human nature and it's basic business.
9 So, yes, I think there should be an incentive.

10 How to structure the incentive, that is an extremely
11 difficult question to answer. I think examples work well
12 sometimes. In this transaction with this small municipal
13 utility, the way we did the system there is that whether Enron
14 figures out ways to save this utility money or to do things to
15 make profits, we have a 60/40 split of the value. If Enron
16 doesn't figure out a way to make a dollar, Enron makes no money
17 on that transaction. If Enron figure goes out a way to make a
18 lot of money on the transaction, Enron is going to get 40
19 percent of that transaction.

20 And the proof is in the pudding. In the month of
21 May, which is the first month of this transaction, and I will
22 probably say too much -- and this is not in Florida, so I don't
23 think anybody here probably would guess who I'm talking
24 about -- but in the first month of this transaction, the month
25 of May, the average load for this utility was 38 megawatts.

1 That is tiny. They saved almost \$500,000 in the month of May.
2 You know, they had their way of doing business traditionally.
3 It was not --

4 COMMISSIONER DEASON: Now, how do you determine that
5 savings? What do you compare? And is it something that can
6 readily be agreed upon and is obvious that that indeed was the
7 savings from that period of time?

8 MR. FAIRLEY: It was a calculation, and it was based
9 on the way that they had been doing business.

10 CHAIRMAN JACOBS: Did you make an assumption that
11 they would have had to buy on the spot market or they would
12 have had to buy in some other transaction and used that as a
13 guiding price to determine the savings?

14 MR. FAIRLEY: That is partially what we did. In the
15 past they ran their generation most of the time, very seldom
16 bought power on the market. And as a big power marketer and
17 feel like we really have our finger on the pulse of the market,
18 and they were very comfortable that we could always buy power
19 in the market and deliver it to them reliably. They let us do
20 that. So a lot of the savings came from not running generation
21 and buying power in the market.

22 Now, a lot of utilities would say, well, we do that
23 already. But there were many nuances about how we went about
24 doing that. Buying several days at a time, buying a few hours
25 at a time. Many, many subtleties that really extracted the

1 bigger value, not just turning off generation. And there were
2 times when we did both. We bought forward and ran the
3 generation and sold, so they made a profit selling the
4 generation and they were saving money on the power purchases.

5 That's just an example. I think you really have to
6 look at the individual utility what their makeup is, generation
7 and load, how they are doing their business, and look at a few
8 ways to structure incentives. It's not that difficult. It's
9 not that difficult fundamentally. It can get complicated in
10 the monthly calculation of what you are doing.

11 Let's see. I want to skip over a little bit. There
12 is a page here under developing a risk management program that
13 has blue arrows. This page, if you could flip over to that.
14 This is one that you may go back to later and think about. And
15 the point here is that there are certain things that you can do
16 that are relatively inexpensive to do, but yet leave the
17 highest possible risk with the utility, or marketing company,
18 or whoever may be using risk management.

19 Over to the right side of the page there are more
20 complex and more expensive techniques to be utilized, but which
21 deliver the lowest possible risk at the end of the day for the
22 utility. Ultimately how much risk do you want to remove from
23 the utility, how much protection do you want to give the
24 ratepayers. And if there is an incentive involved, you know,
25 how much opportunity do you want to give the shareholders to

1 make some money.

2 Over to the left, just blocks of energy. Things you
3 can do. Hedging blocks of energy. Just hedging on-peak power
4 is a good technique. It doesn't do anything for the peaks and
5 it doesn't do anything for all the periphery things that can go
6 on.

7 And moving across you just gradually develop the
8 complexity, shaping, what have you. And, again, a lot of the
9 things that I wanted to impart here are pretty fundamental, but
10 the idea is to give you some perceptions to think about in
11 looking at a risk management program and how you go about.

12 If you will now flip the page over, developing an
13 execution strategy. If anybody else has any questions, please
14 speak up. I would rather be answering questions than going
15 over this presentation, frankly.

16 A couple of things that you have to do if you are
17 actually going to execute a strategy. You have got to identify
18 what are the difficulties or the impediments. Florida is not a
19 very liquid market for power. Everybody knows that, so if you
20 are going to try to execute a risk management strategy you have
21 got to keep that in mind. You can't expect miracles. You
22 can't expect the kind of transaction flow or results for power
23 in Florida, or for that matter even gas in Florida as you
24 could, say, for gas in Louisiana. Gas in Louisiana, not power.

25 And then the other thing, you know, you are

1 identifying weaknesses in the market when you look at
2 impediment and difficulties. You also have to look for the
3 strengths and you have to focus on the strengths, the strong
4 points in a market, and make sure that you are taking advantage
5 of all of those.

6 This next page, identifying market difficulties that
7 must be considered. Illiquidity. Fundamental stuff, cannot
8 execute large size because you moved the market. Sometimes you
9 can't even deal without moving the market. In some situations
10 certain financial products are not even available and not
11 actively traded.

12 Two points, index postings are not reliable yet for
13 most of the Florida power market. They are getting there, but
14 they are not there yet. And there is no basis market yet at
15 all.

16 The first thing we have got to have --

17 COMMISSIONER DEASON: What do you mean by basis
18 market?

19 MR. FAIRLEY: Basis?

20 COMMISSIONER DEASON: Uh-huh.

21 MR. FAIRLEY: Basis. If you look at the index, any
22 index for power, say, in Georgia, and on the same day or the
23 same hour look at an index for power in Florida, you are going
24 to see a spread. In most cases power in Florida is more
25 expensive, a bit more expensive. There are reasons for that.

1 That is basis. That is one form of basis.

2 In natural gas, those kinds of spreads are actively
3 traded. When I used to be a gas trader, I did many, many
4 transactions trading basis. And with basis I didn't really
5 care whether prices went high or low, I was strictly looking at
6 the spread between different locations that people needed to be
7 concerned about. Gas in Louisiana versus gas in the northeast,
8 that is kind of a gross example, but eventually we have got to
9 get to a point that we have a good viable basis market, because
10 hedging price is one thing, the basis also comes into play,
11 however.

12 The next bullet there, market difficulties, lacks
13 Florida Public Service Commission and management clear signals.
14 I put that in there, and I don't want to incense anyone, but
15 there is not -- you know, there is not a mandate, there is not
16 a set of rules out there that a utility can operate under to go
17 and utilize -- broadly utilize risk management techniques. And
18 that is important, that is very important.

19 And that's why even though the Public Service
20 Commission is not a hedger and you don't trade power and gas,
21 your involvement in the process is critically important. There
22 are other parts of the country where there are utilities that
23 aggressively use risk management techniques on fuels because
24 they are allowed to. They don't do anything on power because
25 the commission has never allowed them to do so. And it is

1 amazing the huge differences. I have seen utilities --
2 probably the best example I ever saw was a utility in New York
3 during a winter period when gas was trading around \$4 and
4 something, they paid 60 cents for their gas one winter. They
5 hedged their basis, they hedged their fixed prices, and
6 ultimately the fallout from that is when they wrote their
7 checks at the end of the month they were paying 60 cents. And
8 this was under a long-term contract with Enron. We made our
9 same profit on the transaction, yet they only paid 60 cents for
10 gas in a \$4 market. That is pretty remarkable. That is an
11 extreme example.

12 COMMISSIONER PALECKI: The Commission is going to be
13 determining prudence of a hedging plan. What are the factors
14 the Commission should look towards to determine whether we have
15 a prudent or imprudent plan?

16 MR. FAIRLEY: Well, first, speculation versus
17 hedging. How much of a position can be taken that is not a
18 purely hedged position. After all, a load-serving entity
19 cannot predict what their customers are going to use in any
20 given hour or day or what have you. You can get pretty close
21 most of the time. Utilities are very good at that, but never
22 perfect. So there is an element of speculation there when you
23 are trying to predict what the load is going to be and you are
24 trying to operate from that. That is pretty tough without
25 actually sitting down and laying out some things.

1 COMMISSIONER PALECKI: Well, the reason I ask is that
2 none of us, as Commissioners, have the expertise in hedging,
3 for example, that you have. Would we need to bring in an
4 outside consultant every time we had a prudence review to work
5 for the Commission to advise us as to the prudence of a
6 utility's plan?

7 MS. FAIRLEY: And you are asking about the plan, not
8 the results of the plan, but start with just the plan?

9 COMMISSIONER PALECKI: I think earlier in the slides,
10 I thought I had seen a slide that said that the Commission
11 should do a prudency review at the outset.

12 MR. FAIRLEY: Right.

13 COMMISSIONER PALECKI: And that is before the plan
14 becomes effective, I would assume.

15 MR. FAIRLEY: I think the Commission would possibly
16 have to bring in a consultant to review a plan. In the case of
17 the small utility that I talked about, they brought in a
18 consultant to look at the risk management and trading policy
19 that we developed. I mean, we all knew in that case that that
20 policy was developed more so to protect Enron than to protect
21 the customer. They trusted us. They didn't even care if we
22 had the policy or not.

23 We had it and we felt it was the prudent thing to do,
24 and we felt like we needed it to protect ourselves. But they
25 brought a consultant in to review the plan, and the consultant

1 liked it and thought it was very fair. So I think you would
2 have to bring in a consultant to look at the plans on the front
3 end. And then periodically when reviewing the results of
4 the -- if you are reviewing the results of a risk management
5 program, performance is going to be pretty clear, because it is
6 dollars and cents. That is going to be pretty cut and dried.

7 If you want to get deeper into the transactional
8 nature of what happened, how many positions, how many hedge
9 positions performed in certain ways, you would probably want to
10 have a consultant involved in that process. It won't take very
11 long. It won't take years, it won't take very long for staff
12 members to understand the programs and to be able to view the
13 programs, what is happening under the programs and largely be
14 able to make pretty reasonable judgments of whether the policy
15 was followed or not and how effective it was.

16 COMMISSIONER PALECKI: Well, this Commission's policy
17 is generally against what we call micromanagement of our
18 utilities. How do we avoid the pitfall of finding ourselves
19 getting a little bit too much involved in the hedging plans?

20 MR. FAIRLEY: I don't think you really need to. The
21 results will speak for themselves. If the proper incentive
22 program is in place, the utility will probably aggressively
23 pursue the plan. If there is no incentive there, they will be
24 probably less -- I would think less active and more cautious
25 about what they do. If the results are good, I don't think you

1 have to go very deep into all the transactions that took place.
2 If there are problems, just in anything that any auditor is
3 looking at you would want to go deeper and figure out what was
4 the problem and fix the problem so that it doesn't happen
5 again.

6 COMMISSIONER PALECKI: What type of incentive
7 mechanisms have you seen? Have you seen any in other states?

8 MR. FAIRLEY: I am really not equipped to answer that
9 question.

10 CHAIRMAN JACOBS: I have heard that California has
11 one for fuels, but I'm not sure.

12 MR. FAIRLEY: You know, I see those things, I hear
13 about them, but I don't really get very involved in them as a
14 dealmaker. There are not that many -- where I come into
15 contact with incentive programs like that are where somebody
16 wants to buy gas, buy power, what have you, but they want to do
17 some customizing of the transaction so that it satisfies the
18 incentive program or doesn't violate some policy. And I see
19 those. We could do some research for you and come up with some
20 background on that, but I'm probably not the best person to try
21 to answer that question.

22 COMMISSIONER PALECKI: Well, generally are we talking
23 about types of sharing mechanisms where any savings would be
24 shared between the stockholders of the company and the
25 ratepayers, something along that?

1 MR. FAIRLEY: Yes, some split in that regard. Some
2 percentage division of the value between the company and the
3 ratepayers versus the traditional method of moving all the
4 value back to the ratepayers.

5 Let's see. I'm going to skip over a few more pages.

6 MR. BRINKLEY: I would like to ask a question before
7 you skip over. When you mentioned some of the complications
8 with illiquidity, you didn't specify which commodities or what
9 time frames you're talking about, and at the bottom you say
10 hedging with gas is more liquid. I'm interested to know how
11 many months out could an average to large-sized utility hedge a
12 good portion of its natural gas needs before they move from
13 being a price taker to a price maker? In other words, when do
14 they move the market?

15 MR. FAIRLEY: And your question --

16 MR. BRINKLEY: I am assuming that if they are just
17 purchasing in near term, like a one month out futures contract,
18 that they are not going to be able to move the market, even if
19 they are large. But six months, 12 months out there is a point
20 where they are going to move it.

21 MR. FAIRLEY: Right. Physical or financial?

22 MR. BRINKLEY: Financial.

23 MR. FAIRLEY: Financial. I don't think -- there are
24 no utilities in Florida that could do so much financially using
25 generic or general techniques that they would move the market.

1 The natural gas market is so big now with the funds involved,
2 it's a multi-billion dollar market. I suppose given the right
3 set of circumstances, size, duration of term, on certain days,
4 the day before a holiday if a utility tried to put on a huge
5 position they would move the market. But that would be a
6 foolhardy thing to do.

7 MR. BRINKLEY: I have another question while I'm
8 here. Do you have any idea over the long-term, at least ten
9 years out, has there been a premium paid or earned for those
10 that are purchasing energy, financial hedged products? And if
11 so, do you know how much in a percentage basis.

12 MR. FAIRLEY: I don't quite follow the question.

13 MR. BRINKLEY: I'm not sure if I worded that
14 correctly, but if you are looking at someone who just runs
15 along ten years solid and they are just buying at the spot
16 monthly for their consumption versus someone who is hedging out
17 12 months at a time on a rolling monthly basis, what is the
18 price differential between the average price?

19 MR. FAIRLEY: I couldn't give you a dollar amount,
20 but I would say it is very significant.

21 MR. BRINKLEY: Positive or negative, which one costs
22 more?

23 MR. FAIRLEY: Not hedging, definitely not hedging.
24 We are on the other side of too many transactions where we see
25 people hedging a portion of their positions and not hedging

1 another, maybe a larger portion. And we see the balance and it
2 makes a huge difference.

3 MR. BRINKLEY: Thank you.

4 MR. McNULTY: I have a question along those same
5 lines. Considering the market for natural gas in the middle of
6 2000, the summer of 2000, would you say that there was a
7 compelling argument to hedge an appreciable amount or
8 percentage of your natural gas portfolio at that time knowing
9 what the supply and demand and the different characteristics of
10 the market were?

11 MR. FAIRLEY: Are you looking at a point in time
12 prior to the run-up in prices?

13 MR. McNULTY: Right. I mean, at that point it may
14 have even risen a bit, but there were still certain market
15 conditions that maybe would have argued that a higher
16 percentage of your portfolio for natural gas should have been
17 hedged rather than spot market based.

18 MR. FAIRLEY: Yes, they should have hedged. Most
19 people you talk to on a day-to-day basis in the regulated and
20 unregulated side of the energy business were aware of all the
21 gas-fired generation coming on line, were aware of the
22 increasing difficulty of buying gas in certain locations. And
23 I will give the specific example. A lot of gas that is used in
24 the State of Florida comes from Mobile Bay into Florida Gas
25 Transmission.

1 Everybody, every dealmaker for every utility and
2 non-utility who was buying gas recognized for many months the
3 gradual increase in difficulty to find gas and to not pay a
4 premium for the gas. Mobile Bay, you have got gas going to
5 Florida, you have gas going via two different pipes to the
6 northeast, and there are a lot of competing markets for that
7 gas.

8 And in basis, in the basis market you could buy gas
9 for a long time at a pretty serious discount to Henry Hub
10 (phonetic) or NYMEX in Mobile Bay. Over time that basis
11 discount began to go away. Gas buyers realized there was a
12 problem there. You know, why was there a problem? It was
13 clear there were too many people trying to buy too much gas at
14 that location and driving the prices up. Pretty simple supply
15 and demand, so it was easy to see.

16 And in the case of companies that don't hedge, are
17 not allowed to hedge, or simply, you know, bury their heads in
18 the sand, they were at the mercy of that market.

19 MR. McNULTY: And another question I would have is
20 you have talked a little bit about picket fence that you could
21 draw around a utility to say, you know, we want you to engage
22 in hedging to some extent, but we want to limit the exposure.
23 I'm trying to think of an example of how you would limit that
24 exposure. One possibility would be to say that you will hedge
25 no more than X percent of your natural gas expenditures, or

1 budget that you have for a particular year, and that when you
2 do hedge you will hedge at market index and that sort of thing.

3 Do you think that those are acceptable sorts of ways
4 of drawing the picket fence, and do you have other ideas for
5 how that might be done?

6 MR. FAIRLEY: Well, first, a policy like this needs
7 to be tailored to the individual utility and its portfolio from
8 its load-serving side, and its generation side, and its
9 contractual obligations. The picket fence, and I like to put
10 it that way in talking about this, everybody understands a
11 picket fence. You can get around it, you can get over it, but
12 you shouldn't. You should stay inside the picket fence.

13 The idea there is to have a policy that the staff can
14 work within and be comfortable that they have a set of rules to
15 operate within to carry out the program. It's not there so
16 much -- it's not intended to be a set of handcuffs, it is
17 intended to be more of a parachute or a safety net. It is not
18 intended -- one of the things you said was limit the amount of
19 hedging. I don't know that I would put it quite that way,
20 because hedging a certain portion of a gas portfolio, there are
21 a lot of ways to hedge a gas portfolio. Some hedge techniques
22 you might only want to use a small amount. Others you may want
23 to hedge the whole portfolio.

24 And the reason I say that is some hedge techniques
25 might take away the ability to gain when the market drops if

1 you are a buyer. You can hedge yourself out of the ability to
2 take advantage of lower prices with some techniques. Other
3 techniques leave that opportunity there for you. So, you know,
4 if you think about it that way, do you want to limit a
5 technique that allows you to take advantage of lower prices if
6 you are a gas buyer? Well, probably not. Do you want to limit
7 the amount of hedging if a particular technique takes away the
8 opportunity for lower prices? You probably do. But at the end
9 of the day either technique is going to remove the chance that
10 prices may run up a lot and put the utility in a position they
11 are paying much higher prices for fuel.

12 So I guess to answer your question specifically, I
13 don't know that you would want to necessarily put a rule in
14 place about hedging a certain portion. Probably a good thing
15 would be to look at some risk management and trading policies
16 and get a feel for how these rules are written and what they
17 really do. Is that --

18 MR. McNULTY: That's good. Thank you.

19 MR. FAIRLEY: Okay.

20 COMMISSIONER PALECKI: It is my understanding that in
21 California that when both fuel and power prices were at a peak,
22 that several long-term contracts were entered into by the
23 California utilities in an attempt to hedge against further
24 price increases. Since that time the fuel cost as well as
25 power prices have gone down and we have a situation where they

1 have -- you could say they have bought high and they are
2 selling low. Would you say that was not a prudent transaction?

3 It appears that they had good intent. After the fact
4 it's easy to be a Monday morning quarterback and say that was
5 imprudent. It turns out it was a stupid decision because of
6 what has happened over time. But how as Commissioners can we
7 judge prudence in that situation when no one can predict the
8 market?

9 MR. FAIRLEY: Well, first, I don't want to render any
10 opinion whatsoever about what they did in California in terms
11 of buying long-term power in the situation and the way they
12 have been whipsawed with prices. That is a very hotly debated
13 matter. That action was taken outside of any policy, any
14 framework. At the time maybe it was prudent, maybe it was the
15 prudent decision. Maybe it was a good decision, maybe it
16 wasn't.

17 I think you can make good arguments both ways. I
18 could make good arguments both ways. If there had been a risk
19 management policy in place ahead of time and the utilities were
20 operating under that policy, and they would have been allowed
21 to hedge purchases and sales and perhaps even incentivized,
22 that situation never would have arisen unless the policy were
23 violated.

24 And I'm not sure if I'm answering your question
25 fully, and I'm not trying to avoid your question, but that is

1 why you have got to have a policy, a program in place. The
2 rules, the picket fence that are designed by the utility for
3 their situation to be able to use tools in the marketplace to
4 reduce volatility and extract value.

5 COMMISSIONER PALECKI: Could you say that those
6 long-term contracts were an attempt at speculation, that they
7 weren't truly a hedging mechanism at all?

8 MR. FAIRLEY: I will answer it both ways. It was a
9 hedge in the fact that they needed to buy power. And there
10 were credit issues, it was becoming increasingly difficult for
11 people in California to buy power because of the credit issues,
12 the price debate, price caps, all those sorts of things were
13 problematic.

14 So, in order to simply buy sufficient physical power
15 to cover their requirements as load serving entities, you could
16 probably make an argument that it was a hedge from the
17 standpoint that they were in the middle of a disaster and
18 everything had gone wrong. Was it a hedge? It was not. It
19 was probably the only thing they could do. You know, it didn't
20 hedge any prices, necessarily. That's really -- it's tough.

21 I'm sure if I had one of our lawyers standing here he
22 would tell me not to answer any of these questions about
23 California, because people are so energized in California over
24 all of this. But, you know, in looking ahead and not wanting a
25 situation like that to develop in Florida -- and I don't think

1 we are anywhere near that Florida, but anything could happen --
2 we don't have all the things in Florida that the utilities had
3 in California to deal with. But a lot of the things that
4 happened in California that caused gas prices to run up and
5 power prices to run up, the actions that were taken were
6 speculative.

7 For example, not filling storage, gas storage prior
8 to the winter. I mean, many people in the gas business, gas
9 side of the business were amazed that storage levels were so
10 low in the west. And, you know, back in my utility days, there
11 is no way that we would ever go into a winter without filling
12 storage.

13 As a young staffer, if I had ever brought up in a
14 meeting, golly, prices are high, maybe we shouldn't fill
15 storage, I would have been thrown out of the room. The storage
16 is there to provide reliability, not to consider prices at all.
17 They didn't fill storage. And this is widely publicized, but
18 that was speculative. Three or four mild winters in a row and
19 company after company had the bright idea that, you know, we
20 probably don't need to spend all this money and buy all this
21 expensive gas because we are not using it. We are having
22 trouble getting the gas out of storage at the end of the winter
23 season. So let's don't put as much gas in storage. Well, that
24 was a bad decision. That was a really bad decision. It's like
25 only buying homeowners insurance for half the value of your

1 home. And probably half the people in this room cut corners on
2 that, and everybody considers it at some time. But if you --
3 and maybe in a small percentage it's okay. But, you know, if
4 you live in a \$150,000 house and you only insure for \$75,000
5 value, well, have you done a good job there? Wait until there
6 is a disaster and you will have your answer. And, of course,
7 had a colder than normal winter in California, and that not
8 filling storage contributed greatly to the run up in gas prices
9 in California. That was a speculative decision. It was not a
10 hedge.

11 COMMISSIONER PALECKI: Thank you.

12 MR. FAIRLEY: Someone mentioned the bullet here about
13 hedging with gas, which is more -- much more liquid than power.
14 There are some things that you can do in certain types of
15 transactions that you can get beyond illiquidity in power and
16 move your risk over to gas so that you are actually hedging
17 with gas, and I mentioned that. As a consideration, if you are
18 thinking about power and the illiquidity of power, there are
19 ways around it.

20 Let's go over to the section what the PSC can do.
21 It's pretty clear from all the things that I have been saying
22 that we need more liquidity in the Florida market in power, in
23 gas, in everything. And the bigger players in the market are
24 the utilities. And if the utilities had the blessing of the
25 Commission to enter into risk management programs, more broad,

1 more active risk management programs, more transactions would
2 take place, hence more liquidity. In the development of the
3 RTOs, we all need to try to make sure that we don't
4 accidentally or intentionally create impediments to liquidity
5 in the market. And, again, you are going to hear it over and
6 over, at least from Enron, not to impede forward markets with
7 RTO structures. That is very important.

8 CHAIRMAN JACOBS: What would be the aspects of an RTO
9 that would impede forward market?

10 MR. FAIRLEY: In the market -- I'm probably not the
11 best person to answer that because I'm not an RTO expert, but
12 in the market design and the way pricing is handled, let me
13 give an example, probably the best thing. In PJM, if I see
14 something happening in the market and as a marketer I want to
15 sell into that market, maybe I'm going to turn on a generator,
16 it's going to cost so much money, it's going to cost some more
17 money to buy transmission to get over into PJM. And so I know
18 what my landed cost is, and I believe that market due to the
19 hot weather is going to be very high and I stand to make a good
20 profit. Well, that sounds really nice, but in PJM you don't
21 know the price that you have sold your power at until the next
22 hour.

23 CHAIRMAN JACOBS: That's because of the cap, right?

24 MR. FAIRLEY: Well, that's just timing and the way
25 they price that market. And there are situations where you

1 will put together your sale and you will schedule your power in
2 and you will believe you are going to make some good money on
3 that trade. Next hour when the prices are revealed to you, you
4 have lost money.

5 And that is a -- that market can be quite volatile
6 and prices can go from the hundreds down to below \$100 very
7 quickly. In an hour occasionally. And I have seen our own
8 realtime desk get hurt on some of those transactions. That is
9 a structure that is not necessarily needed for that market to
10 function. It would be better if a seller knew with more
11 certainty what his price, his sales price was going to be.

12 CHAIRMAN JACOBS: Thank you.

13 MR. JENKINS: Isn't that problem with PJM because
14 they used financial transmission rights as opposed to physical
15 transmission rights.

16 MR. FAIRLEY: I can't really answer that question. I
17 deal primarily in the southeast. And so the PJM example is one
18 that came to mind. And I used that because there was a lot of
19 discussion about it on our trading floor yesterday when the
20 prices ran up and came back down suddenly later in the day, and
21 the discussion about how much risk there was performing those
22 hourly transactions.

23 Those are purely speculative because we never knew
24 for sure what we were going to be selling our power for. And
25 as for your question, I don't know exactly why they developed

1 that component of the market the way they did. I wish I knew.

2 MR. JENKINS: On a related question, do you know of
3 any other commodity other than electricity where they use
4 clearing prices where everybody gets the clearing price no
5 matter what they do?

6 MR. FAIRLEY: Yes. If I had some time to think about
7 it, I could probably come up with a lot of examples. But, for
8 example, on the NYMEX, NYMEX natural gas, there are situations
9 where -- well, that is not the precise example that you are
10 talking about.

11 MR. JENKINS: See, I think that is the problem with
12 California.

13 MR. FAIRLEY: Now, that is -- you have asked another
14 question I can't give you a ready answer for. That is pretty
15 unusual, though, where you bid in, as they call it, and you
16 don't really know what your price is. The reason I said NYMEX
17 natural gas, there are -- you can buy and sell NYMEX futures at
18 times at the market, and you take whatever price is there. But
19 it is not precisely what you were asking about, bidding in at a
20 certain price. And you're going to get whatever price the
21 market provides. I can't think of another example of that.

22 MR. JENKINS: See, I have seen natural gas auctions
23 live right in this building where you not only see the clearing
24 price, you know who the bidder is, and it changes every two
25 seconds. And I have never seen that in the electric market

1 anywhere. And I think that is the real problem with this
2 electric type of deregulation that they are trying to form.
3 And no one seems to be aware of it, as best I can tell.

4 MR. FAIRLEY: Well, we are aware of it. And like I
5 mentioned, just like yesterday in PJM, when I heard the prices
6 getting pretty wild in PJM, I went over and nosed around with
7 the traders, because I sit very near them, and I was curious to
8 hear what was going on.

9 It is a risky proposition. I think it's probably
10 part of the reason that some companies lost a lot money in PJM
11 the last couple of days, because they thought they had it
12 figured out. They didn't quite have enough -- maybe that next
13 piece of information they didn't have and they bid in at a
14 price and they lost.

15 MR. JENKINS: Okay. Thank you.

16 CHAIRMAN JACOBS: You indicate -- I'm sorry.

17 MR. FAIRLEY: No, go ahead.

18 CHAIRMAN JACOBS: You have a point about location of
19 pricing. I have heard on several occasions that location of
20 marginal pricing can have a detrimental effect particularly to
21 independent producers. How do you view that?

22 MR. FAIRLEY: Well, that's true, but that is not --
23 that is not the fault of the pricing technique. If the
24 generator is in a location where locationally the value for the
25 power is low, that is the risk of doing business. He either

1 chose the wrong location or he chose the right location at the
2 time, but over a period of time the market locationally moved
3 against him.

4 COMMISSIONER DEASON: Excuse me just a second. You
5 have made reference several times to what has recently happened
6 in PJM and the fact that spot -- there have been spikes as high
7 as \$1,000, and you make reference to people that have lost
8 money. Who has lost money in that market?

9 MR. FAIRLEY: For sure some trading companies.

10 COMMISSIONER DEASON: Trading companies. I mean, if
11 you are a generator, I don't see how anybody is going to lose
12 money if prices are -- I mean, you're talking about people that
13 think that that price is going to continue and they go ahead
14 and make a transaction and then it spikes back down, or explain
15 to me how the dynamics work when prices are that high?

16 MR. FAIRLEY: If I thought I could sell \$500 power,
17 and I bought \$300 power, scheduled it in, and it turned out my
18 price was 200, instead of making a \$200 profit --

19 COMMISSIONER DEASON: You're talking about people
20 that are -- not actual generators, people that look at that
21 high price, see an opportunity to make money, and they actually
22 contract to buy power at a certain amount and think they are
23 going to sell it an hour later at a higher amount and actually
24 the price is lower?

25 MR. FAIRLEY: Right. That is kind of the gross

1 example where large dollars a generator can lose when they
2 think they can sell power at a price and they go buy fuel, run
3 their generation, move that generation through transmission
4 over to PJM, and the power price turns out to not be high
5 enough after the fact to support their costs. Now, that is
6 where a generator could lose.

7 As far as utilities inside of PJM, I would not say
8 one way or the other what they have done because I just don't
9 have that information how they did or did not do over the last
10 few days. That's a way a generator or a trading company or for
11 that matter a utility --

12 COMMISSIONER DEASON: But for a generator to lose
13 money they are going to have to be paying a lot for fuel and a
14 lot for transmission to get it there. Even if it's 900 and it
15 falls to 450, in half --

16 MR. FAIRLEY: Oh, yeah. He is not going to lose in
17 that scenario. The generator wouldn't lose in that scenario.

18 CHAIRMAN JACOBS: But that brings up an interesting
19 point, though, because I'm sure you are aware in 1998 in the
20 midwest that was a major risk. Well, actually a major
21 consequence of the market volatility, was that some of those
22 marketers defaulted. At least one, one major one defaulted.

23 If we were to be looking at a load serving entity
24 that is buying from such a marketer, how do they insulate
25 themselves from that? I assume they will do due diligence to

1 enter transactions with these marketers.

2 MS. FAIRLEY: Credit policies, credit reviews,
3 financial reviews of counterparties. And, very frankly, to my
4 knowledge the utilities in Florida do a very good job in this
5 regard. I know of utilities in other parts of the south and
6 the eastern interconnect that are not as judicious as the
7 utilities in Florida are in terms of credit reviews and that
8 sort of thing.

9 But the defaults that happened in the midwest,
10 cardinal rules of the credit process were violated. And in
11 most -- nobody who entered into those particular transactions
12 that you are talking about should have ever entered those
13 transactions. Because the size and the exposure, the potential
14 exposure to loss under those transactions was too great for the
15 counterparty they were dealing with.

16 CHAIRMAN JACOBS: Thank you.

17 MR. FAIRLEY: I'm not going to go through all of this
18 presentation. The last several slides have to do with certain
19 techniques. Swaps, caps, collars, and I did not intend to go
20 through those, they are pretty lengthy. The way that I wanted
21 to summarize, and it is the last page before you get into the
22 section called swap, calls, and collars, is what can the PSC
23 do.

24 The PSC can encourage utilities to hedge, and based
25 on your question, Commissioner, ask the utilities to develop

1 risk management policies tailored to their business and bring
2 those forward. The Commission can always look out for anything
3 that is happening on your watch that affects liquidity in the
4 market, and anything that can be done to increase liquidity is
5 good. And then locational pricing is a finer point of
6 liquidity and forward markets, but encourage those two. And
7 that really brings me to the end of what I had to say.

8 Again, I wanted to cover a few of these fundamental
9 areas of consideration when you are thinking about looking at a
10 risk management program. And, again, I wanted to use power as
11 the example because power is somewhat immature as a market.
12 You know, with the examples of no basis market and indexes not
13 being as pure as you would like and as pure as you can find in
14 other commodities.

15 And that sort of brings me to the end. If anyone has
16 questions about the pages in the back, swaps, calls, collars,
17 those sorts of things, I will be glad to spend time talking
18 about those. But my intention was not to have a hedging
19 technique session here, more to cover the broader questions.

20 COMMISSIONER DEASON: Let me ask you this question.
21 Given the limitations of the electric power market in Florida,
22 one of the primary ones being that it is fairly illiquid, I
23 think you characterized it that way.

24 MR. FAIRLEY: Right.

25 COMMISSIONER DEASON: Do you think that we should

1 concentrate on trying to put together some type of a hedging
2 program/incentive primarily on the fuel side for our load
3 serving entities currently as opposed to trying to go the
4 further step of including power generation, or do you have any
5 thoughts on that?

6 MR. FAIRLEY: I would pursue both. But on the fuel
7 side, the market is so much more liquid that there are many
8 more products available. And applying hedging techniques will
9 be easier, will be more effective, and will be less costly to
10 implement.

11 COMMISSIONER DEASON: But the experience gained in
12 the fuel side could then be transferred over to the energy side
13 once a more diverse, more liquid market develops. Does that
14 make sense?

15 MR. FAIRLEY: It does. But, again, I would -- you
16 know, my honest answer is I would do both. You can't do a lot
17 due to the illiquidity. But everything that happens to allow
18 the market to become more developed, to become more liquid, and
19 if giving the blessing to use more risk management techniques
20 on the power side helps liquidity there, that is a self-serving
21 thing.

22 But I think your analysis of using fuels as a first
23 step before getting to power, that's not a bad approach. From
24 my point of view, anything that can be done to increase
25 liquidity in any market I know is going to be better for that

1 market. It's going to allow more transactions to take place,
2 better transactions, easier transactions, and that is a good
3 thing for everybody. So I would always -- and I think Enron
4 would always advocate any approach that increases liquidity
5 quicker and faster.

6 COMMISSIONER DEASON: Okay. And let me ask another
7 question. What would you say to the statement that in Florida
8 our utilities are already required to obtain the least-cost
9 generation, whether self-generate or buying on the market. And
10 given that that is a current requirement and that our utilities
11 seem to be doing a good job in doing that, what added benefits
12 could be derived from what you are proposing? Or the statement
13 that there aren't that many more benefits that could be
14 derived, how would you respond to that?

15 MR. FAIRLEY: It always comes back to this question,
16 utilities in Florida and most places have the mandate you
17 described, least-cost, the least-cost approach. And I think
18 the utilities in Florida do a good job with that. But at the
19 point of making that decision, on every transaction there is a
20 potential to be questioned on prudence. And so if the least
21 cost approach is to beat index, beat the market at the time the
22 transaction is done, and you simply do that, you have done what
23 you -- the utility is doing what they have been asked to do.
24 And within that framework, they are doing a good job.

25 COMMISSIONER DEASON: But you are saying there is

1 another level we can take it?

2 MR. FAIRLEY: There is another level. There is more
3 blood to squeeze out of the turnip. It's hard work, it's not
4 easy, but if the utility instead of buying power hourly for
5 tomorrow to fill a portion of their load, if they went ahead
6 and bought the whole day, and they thought that is right
7 decision and it turned out that they should have bought hourly,
8 especially if they have been doing it the other way for
9 sometime anyway, somebody is going to ask the question, why did
10 you do that. And that is just hourly and daily. Those are
11 minimal dollars.

12 And if you go beyond to a larger size or longer
13 durations, you know, you would put a utility in -- if you ever
14 went to a utility and asked the question why did you not buy
15 power, why did you not buy 500 megawatts for a year, when
16 looking back you could have done that cheaper than what you did
17 do, beating index, well, that is unfair. And that would never
18 work. That would have been a speculative position to take.

19 And if the market had gone the other way and that
20 huge quantity of power over that long duration turned out to be
21 a bad deal, probably it would be a lot of grief over the
22 decision to do that. And that is why simply viewing the
23 approach of taking a least-cost strategy to generating and
24 buying fuels and power, hence beating the market or beating
25 index, that is a good technique only to a degree, but there is

1 much more you can do beyond that.

2 And, again, if you are proficiently applying risk
3 management techniques, you are also going to be able to extract
4 value from assets that are embedded and trapped now. For
5 example, I used the fuel switchability in power plants. I mean
6 that switchability can be sold and at certain times can be
7 quite valuable. So you have the reliability of the fuel
8 switchable plant plus the value of that spread option to be
9 derived.

10 COMMISSIONER DEASON: If we engage in some type of
11 incentive plan which rewards superior performance, how do we go
12 about judging whether the performance has indeed been superior
13 or whether that same level would have been accomplished under
14 just the traditional mechanism of management which is currently
15 being employed by our utilities?

16 MR. FAIRLEY: Well, I think if the incentive is based
17 on some percentage of value derived, then that is a very fair
18 approach. But I think looking deeper into your question, you
19 know, did the utility do as much as they could do, that is
20 armchair quarterbacking. And I don't know, you know, if you
21 are -- a simpler way of looking at it, if you have a gas trader
22 sitting there and the gas trader has done a number of trades
23 and made money on a particular arbitrage in the market during
24 the morning, if you go to that trader and say, well, why didn't
25 you do twice as much? Well, maybe the trader did all they

1 could. Maybe they did as many trades as they could possibly
2 do. Maybe they exhausted counterparties with which they could
3 do the trade. But trying to armchair quarterback level of
4 performance is just about impossible.

5 COMMISSIONER DEASON: But you have got to have a
6 baseline. You know, if there is going to be -- you have
7 mentioned sharing. If there are savings achieved, and you
8 mentioned 60/40 or whatever the split is, you have got to
9 determine what the baseline is, what the savings were and then
10 how you are going to split that. Is that readily apparent?

11 MR. FAIRLEY: Oh, yes. If you are going to have an
12 incentive program, you are going to have to have --

13 COMMISSIONER DEASON: You have to define what the
14 baseline is.

15 MR. FAIRLEY: Right. Not just one, multiple
16 baselines for different areas of the business in order to
17 determine what value was derived.

18 COMMISSIONER DEASON: Should the mechanism also, to
19 the extent that the baseline is exceeded in the sense there are
20 savings and there are -- that split, should there also be when
21 the baseline is not achieved and there is actual losses, would
22 that split still be 60 percent to the stockholder, 40 percent,
23 or vice versa, whatever, 40 percent to the stockholder, 60
24 percent to the ratepayer?

25 MR. FAIRLEY: I think that depends on how -- that

1 would strictly depend on how the policy were developed. And
2 when I say -- when I'm talking about a baseline, I'm not
3 necessarily talking about a power price that the utility would
4 be, you know, X dollars per megawatt hour for power for the
5 year. That is a different sort of a baseline.

6 COMMISSIONER DEASON: You're talking about a baseline
7 that can be derived from market indicators, what is happening
8 in the market generally?

9 MR. FAIRLEY: Right. Improvements on the market.

10 COMMISSIONER DEASON: Thank you.

11 MR. FAIRLEY: Is that it?

12 COMMISSIONER PALECKI: I have one more question.
13 What can the Commission do to encourage locational pricing?

14 MR. FAIRLEY: As issues come before the Commission
15 and different forms of pricing, including locational pricing
16 are looked at by the Commission, at that point I think the
17 Commission could support anything that provides freedom for
18 pricing in the market to operate. And the Commission would
19 strongly question anyone who is advocating something that
20 impedes any pricing mechanism, an open pricing mechanism.

21 COMMISSIONER PALECKI: So would going to a market
22 structure naturally promote locational pricing?

23 MR. FAIRLEY: Oh, yes, I think so. And generally
24 speaking, an open market structure, something that is very
25 open. But, again, as issues come before, questions come before

1 the Commission, that is where the Commission can sway one way
2 or the other. And arguments can be made that are logical
3 arguments to support impediments to the market, impediments to
4 forward markets, impediments to certain types of pricing
5 mechanism, locational pricing is one.

6 And locational pricing, that can mean a number of
7 different things also, and I'm just saying generally how most
8 people would think of locational pricing. But I can't -- I
9 can't think of a better way to say it than I think the
10 Commission should just always try to advocate more open pricing
11 forward markets any time an issue comes before the Commission.
12 And strongly question anyone who is advocating something to the
13 contrary, some impediment to the market.

14 COMMISSIONER PALECKI: So in a regulated environment
15 requiring our utilities to engage in integrated resource
16 planning which takes into consideration transmission costs
17 would also be encouraging locational pricing, would it not?

18 MR. FAIRLEY: Yes, I think so.

19 COMMISSIONER PALECKI: As long as every factor
20 involved in getting the electron to the customer is considered
21 in the integrated least-cost planning?

22 MR. FAIRLEY: Right. That's a good point. I agree
23 with that.

24 COMMISSIONER PALECKI: Thank you.

25 MR. BRINKLEY: I have one other question. This is

1 getting back to when we were talking about incentive plans and
2 you said that, you know, you would split the value that is
3 created 60/40, and we examined looking at gains and losses on
4 the hedge and splitting that. But it seems to me there is --
5 that that is problematic, because the producer of a fuel, he is
6 also hedging. And according to you earlier you said that in
7 the long run the purchaser of the fuel is getting a lower price
8 than index, which would say that the producer is getting less
9 than index because it's a zero sum gain.

10 But to him he has value in hedging and he is doing it
11 on his own and nobody is twisting his arm, and yet he is losing
12 money on the financial contract that hedges his needs to sell
13 his fuel. Year-in and year-out he is losing some small sum and
14 yet he is still creating value for himself. What is that value
15 and how do we measure that?

16 MR. FAIRLEY: Well, first, I would say in the example
17 you are giving if there are only two parties involved in the
18 transaction, a fuel buyer and a fuel seller and there are no
19 other parties involved whatsoever, and the trade is made and
20 ultimately it is discovered that the price is below index, the
21 buyer has done a good job, the seller would probably be viewed
22 as not doing as good a job as perhaps he could have done
23 because he sold below index.

24 But if the buyer and the seller transacted for their
25 fuel, but they are employing techniques, perhaps financial

1 techniques completely outside -- hedging techniques completely
2 outside of the specific direct fuel transaction, they could
3 both derive tremendous value while their underlying transaction
4 could go either way, either one could be above or below index.

5 For example, a fuel seller might buy a floor for his
6 price, a financial product that provides a floor so that any
7 time the index price goes below -- any time the price, any time
8 the index price goes below the strike price of his floor he is
9 going to be compensated. So net at the end of the day maybe
10 the seller sells his gas for 10 or 15 cents under index, but he
11 is going to be compensated via his floor price. So he is still
12 selling at index or maybe even above index depending on what
13 the payout on his floor price was. Am I answering your
14 question?

15 MR. BRINKLEY: Well, it seems to me that when you say
16 that there is value created, it is not strictly in the
17 difference between the index price and the price that you pay
18 having hedged. And I don't know how to measure it. You know,
19 just talking off the top of my head, one way you would know the
20 value of wealth created in something is if you could find a
21 market and sell that to people.

22 We are in a regulated market and I don't know how we
23 do that. But in an unregulated market your customer finds
24 value in knowing what he is going to have to pay ahead of time
25 and they may shop and go to you and you can -- it's sort of a

1 backwards way of doing it, but you have an indication as is
2 stabilizing the price of something worth something to your
3 customer if they can shop around.

4 I'm not sure how we measure the value that is created
5 because we don't have a way of asking our customer, the
6 ultimate ratepayer customer, is it worth it to you to know, you
7 know, knowing what your fuel -- I mean, your electricity price
8 is going to be next year or the year after that.

9 The only way we can do it is just to look at the
10 price paid for fuel versus the index, and that is not quite the
11 whole picture, but I don't know how to find the other part of
12 the picture.

13 MR. FAIRLEY: I see what you're getting at. I
14 think -- I guess it -- I don't think that you can very easily,
15 and maybe it's not possible at all to go all the way to the
16 ratepayer level to determine the value. You have to go -- I
17 think you have to go back to the wholesale side of the
18 business, the purchasing of fuel, the fuels department, what
19 they do, buying and selling fuels at different times, and I
20 think you have to apply your measures there.

21 And you just have to live with the assumption that if
22 fuel cost through savings, or monetizing assets, or what have
23 you can be reduced five percent in a year, that that five
24 percent is going to accrue to the ratepayer unless there is
25 some split to the shareholder. And you just assume the

1 ratepayer is going to gain by that five percent and let it go
2 at that. I never heard anybody really -- I won't say it has
3 not been done, but I have never heard of anybody trying to go
4 all the way to the ratepayer level to determine -- I know
5 inside of a utility, on the other hand, there are decisions
6 that are made where a utility -- and when I worked at a utility
7 I did this, where the company would look at the impact of
8 certain decisions and determine what would be the benefit to
9 the ratepayer to execute some particular action.

10 And I know when I worked in rates and was doing some
11 marketing work, there are times when certain fuel purchases
12 were looked at and we calculated the value to each individual
13 ratepayer, and when we went before our Commission to propose
14 certain actions, that was one of the things that we showed was
15 if we do this. Of course, I'm talking about specific large
16 transactions, we would show the benefit to the ratepayer. We
17 would do the analysis and demonstrate, but that was all ahead
18 of time, not necessarily trying to determine incentives after
19 the fact or anything like that.

20 COMMISSIONER DEASON: Thank you. Staff, any final --

21 MR. KEATING: If there aren't any other questions, we
22 thank you very much, Mr. Fairley, for spending your time here
23 this afternoon.

24 MR. FAIRLEY: I hope it has been helpful.

25 COMMISSIONER DEASON: It has. We appreciate you

1 being here.

2 MR. KEATING: I guess we have -- I don't see anybody
3 jumping up to the mike. I was going to give one final last
4 call for anybody who wants to make a presentation. But I asked
5 earlier and didn't see anybody, and I see the same people in
6 the room. So with that I think we can adjourn the staff
7 workshop, and that will be it.

8 (The workshop concluded at 3:44 p.m.)

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1 STATE OF FLORIDA)

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CERTIFICATE OF REPORTER

3 COUNTY OF LEON)

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5 I, JANE FAUROT, RPR, Chief, Office of Hearing Reporter
6 Services, FPSC Division of Commission Clerk and Administrative
7 Services, do hereby certify that the foregoing proceeding was
8 heard at the time and place herein stated.

7

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

10

11 I FURTHER CERTIFY that I am not a relative, employee,
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14 connected with the action, nor am I financially interested in
15 the action.

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DATED THIS 24TH DAY OF AUGUST, 2001.

14

15



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