

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

STATE OF MISSOURI
PUBLIC SERVICE COMMISSION

TRANSCRIPT OF PROCEEDINGS
Hearing
June 24, 2005
Jefferson City, Missouri
Volume 5

In the Matter of a Proposed)
Experimental Regulatory Plan of) Case No. EO-2005-0329
Kansas City Power & Light Company)

RONALD D. PRIDGIN, Presiding,
REGULATORY LAW JUDGE.

JEFF DAVIS, Chairman,
CONNIE MURRAY,
STEVE GAW,
ROBERT M. CLAYTON,
LINWARD "LIN" APPLING,
COMMISSIONERS.

REPORTED BY:
KELLENE K. FEDDERSEN, CSR, RPR, CCR
MIDWEST LITIGATION SERVICES

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

APPEARANCES

KARL ZOBRIST, Attorney at Law
Blackwell, Sanders, Peper, Martin, LLP
2300 Main Street, Suite 1100
Kansas City, MO 64113
(816)983-8171

JAMES M. FISCHER, Attorney at Law
Fischer & Dority
101 Madison, Suite 400
Jefferson City, MO 65101
(573)636-6758

WILLIAM RIGGINS, Attorney at Law
Kansas City Power & Light Company
1201 Walnut Street
Kansas City, MO 64106
(816)556-2645

FOR: Kansas City Power & Light.

KATHLEEN GREEN HENRY, Attorney at Law
Great River Environmental Law Center
705 Olive Street, Suite 614
St. Louis, MO 63101
(314)231-4181

FOR: Sierra Club.
Concerned Citizens of Platte County.

PAUL A. BOUDREAU, Attorney at Law
JAMES C. SWEARENGEN, Attorney at Law
JANET WHEELER, Attorney at Law
Brydon, Swearengen & England, P.C.
312 East Capitol
P.O. Box 456
Jefferson City, MO 65102-0456
(573)635-7166

FOR: Aquila, Inc.

DEAN L. COOPER, Attorney at Law
Brydon, Swearengen & England, P.C.
312 East Capitol
Jefferson City, MO 65102-0456
(573)635-7166

FOR: The Empire District Electric Co.

1 DIANA C. CARTER, Attorney at Law
Brydon, Swearngen & England, P.C.
2 312 East Capitol
P.O. Box 456
3 Jefferson City, MO 65102-0456
(573) 635-7166
4
FOR: Missouri Gas Energy.
5
6 MARK W. COMLEY, Attorney at Law
Newman, Comley & Ruth
601 Monroe, Suite 301
7 Jefferson City, MO 65102
(573) 634-2266
8
FOR: City of Kansas City, Missouri.
9
10 KARA VALENTINE, Attorney at Law
Department of Natural Resources
P.O. Box 176
11 Jefferson City, MO 65102
(573) 751-0763
12
FOR: Department of Natural Resources.
13
14 STUART CONRAD, Attorney at Law
Finnegan, Conrad & Peterson
3100 Broadway
15 1209 Penntower Officer Center
Kansas City, MO 64111
16 (816) 753-1122
17
FOR: Praxair, Inc.
18
19 PAUL DeFORD, Attorney at Law
Lathrop & Gage
2345 Grand Boulevard
20 Kansas City, MO 64108
(816) 292-2000
21
FOR: Trigen Kansas City.
22
23 EDWARD F. DOWNEY, Attorney at Law
Bryan Cave, LLP
221 Bolivar Street, Suite 101
24 Jefferson City, MO 65101-1575
(573) 556-6622
25
FOR: Missouri Industrial Energy Consumers.

1 JAMES B. LOWERY, Attorney at Law
DAVID KURTZ, Attorney at Law
2 Smith Lewis, LLP
P.O. Box 918
3 111 S. 9th Street, Suite 200
Columbia, MO 65205-0918
4 (573)443-3141

5 FOR: AmerenUE.

6 DUNCAN KINCHELOE, General Manager & CEO
Missouri Public Utility Alliance
7 2407 West Ash
Columbia, MO 65203
8 (573)445-3279

9 FOR: Missouri Joint Municipal Electric
Utility Commission.

10
11 PAUL PHILLIPS, Attorney at Law
1000 Independence Avenue SW
Washington, DC 20585
12 (202)586-4224

13 FOR: USDOE.

14 MICHAEL DANDINO, Senior Public Counsel
DOUGLAS E. MICHEEL, Senior Public Counsel
15 P.O. Box 2230
200 Madison Street, Suite 650
16 Jefferson City, MO 65102-2230
17 (573)751-4857

18 FOR: Office of the Public Counsel
and the Public.

19 DANA K. JOYCE, General Counsel
STEVEN DOTTHEIM, Chief Deputy General Counsel
20 NATHAN WILLIAMS, Associate General Counsel
P.O. Box 360
21 200 Madison Street
Jefferson City, MO 65102
22 (573)751-3234

23 FOR: Staff of the Missouri Public
Service Commission.

24

25

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

P R O C E E D I N G S

JUDGE PRIDGIN: We are back on the record.
We're resuming the hearing in Case No. EO-2005-0329.

I understand when we left off yesterday
that we had agreed to go out of order and take Ned Ford as
the next witness. Do I understand correctly? I'm seeing
some nods. Are there any housekeeping matters we need to
address before we start taking more testimony?
Mr. Zobrist?

MR. ZOBRIST: Judge, I wanted to make
certain that I had offered all of the exhibits that I used
in the cross-examination of Mr. Helming. I know a number
of them were admitted, but I think maybe one or two did
not get in. I've checked with the court reporter. We do
not have a thorough list at this point. But out of an
abundance of caution, I would like to offer Exhibits 10
through 27 into evidence at this time.

JUDGE PRIDGIN: Mr. Zobrist, thank you. Do
we have any objections to any of those exhibits?

(No response.)

JUDGE PRIDGIN: Hearing none, Exhibits 10
through 27 are admitted without objection. Thank you.

(EXHIBIT NOS. 10 THROUGH 27 WERE RECEIVED
INTO EVIDENCE.)

JUDGE PRIDGIN: Mr. Zobrist, thank you.

1 Any other housekeeping matters before we move on to the
2 next witness?

3 All right. Hearing none. Mr. Ford, if
4 you're ready, please come forward to be sworn. We have a
5 chair there. Things are looking up already. We didn't
6 have a chair yesterday.

7 (Witness sworn.)

8 JUDGE PRIDGIN: Thank you very much, sir.
9 If you would please have a seat. Ms. Henry, whenever
10 you're ready.

11 MS. HENRY: I do have one housekeeping
12 item. Most of Ned Ford's testimony will be public
13 information, but at some point he's going to want to get
14 into some things that were marked proprietary or
15 confidential. So at that point will we stop and turn off
16 the webcast, or how does that work?

17 JUDGE PRIDGIN: Yes. Please alert me and
18 we will -- I will take care of that. I will let you know
19 when we are in-camera and we can proceed without
20 broadcasting on the web. And then I'll need you to alert
21 me when we're finished with the proprietary so we can go
22 back on. And if we have to do it in fits and starts, you
23 know, we'll do it that way.

24 MS. HENRY: Right. Well, the vast majority
25 is public, so we should be fine.

1 JUDGE PRIDGIN: Thank you.

2 MS. HENRY: If you think you're getting
3 into something that might be confidential, then just stop
4 for a moment and we'll bring it up later.

5 NED FORD testified as follows:

6 DIRECT EXAMINATION BY MS. HENRY:

7 Q. Please state your name for the record.

8 A. My name is Ned Ford.

9 Q. And what is your address?

10 A. 3420 Stettinius Avenue, Cincinnati, Ohio.

11 Q. Do you want to spell Stettinius?

12 A. S-t-e-t-t-i-n-i-u-s.

13 Q. Thank you. And where do you work?

14 A. I'm self-employed. I'm an investor.

15 Q. And where have you studied?

16 A. I have been to college briefly and didn't
17 finish it. I have spent the last 25 years working as an
18 advocate in the environmental movement, primarily with
19 electric utilities. What I'm here to talk about today
20 has -- I have no academic qualifications, but I have a
21 great deal of experience in this field.

22 Q. And could you describe your experience in
23 more detail?

24 A. I promote energy efficiency primarily. My
25 interest in this case is due to the request of the local

1 Sierra Club group to come out and take a look at the
2 proposed new plant and the stipulation. I have worked
3 extensively with other similar situations where coal
4 plants are proposed, nuclear plants are proposed. I began
5 doing my work on this level back in 1982-'83, and in Ohio
6 we had a nuclear power plant that was wildly out of
7 control, economic program that had gone 20 times --
8 14 times over budget, and I began to learn about
9 ratemaking and the incentives that the utility might have
10 to lose control of a power plant construction project.

11 And from that point onwards, I have been
12 involved in discussions, conferences, publications,
13 writing articles, reading articles. There's very active
14 communications among people who are promoting efficiency
15 solutions to electric utility questions, and I communicate
16 with these people regularly. I get copies of testimony,
17 copies of reports that have been done. It's not -- it's a
18 very fast-moving subject, and it doesn't result in a large
19 body of written literature.

20 Q. Do you have an official role with the
21 Sierra Club in Ohio?

22 A. Yes. I'm the energy chair of the Ohio
23 chapter. I've been the energy chair for at least
24 25 years.

25 Q. And what have you done in relation to

1 energy efficiency along with that official role?

2 A. Well, in addition to the Ohio role, I'm
3 also a member of the National Energy Committee for the
4 Sierra Club. I run the club's e-mail listservs on energy
5 and climate change.

6 As the energy chair of the Ohio chapter,
7 around about 1992 we became involved in what amounted to a
8 series of 25 formal interventions before the Public
9 Utilities Commission of Ohio affecting all seven of the
10 major utilities in the state and promoting efficiency. I
11 was the Sierra Club's liaison to this entire project, and
12 so I was involved in the creation of the testimony and the
13 presentation in the courts.

14 Q. And to which project are you referring to?

15 A. Well, from 1992 to 1996 Ohio's utilities
16 collectively spent about \$140 million on energy
17 efficiency. Every utility spent some. One utility spent
18 almost half of that amount, so it was very lopsided. But
19 there were citizen advisory groups, collaboratives
20 created, and I represented the club on three
21 collaboratives affecting four of the seven utilities.

22 Q. And what did you do in more detail in
23 relation to those collaboratives?

24 A. Well, the companies would present program
25 ideas and report on the evaluation of the performance of

1 the programs. I would have contacts with people who were
2 doing similar work in other states, and occasionally would
3 propose alternative programs, or in those days it was more
4 often technology-specific-type programs where we'd call
5 some new technology to their attention.

6 Q. And when you were doing those
7 interventions, what types of documents did you look at
8 from the coal plants?

9 A. We're usually working on the basis of cost
10 effectiveness. The Ohio integrated resource planning
11 process and the similar process in several other states
12 would produce documentation that would give you a very
13 clear picture of what the company's consumption patterns
14 were, time of day, time of year.

15 Different load shape issues affect what
16 products are important to control to make it more
17 efficient. If you have a summer peaking utility, for
18 example, you don't want to be turning off the streetlights
19 because that's not going to affect the summer peak. You
20 go after commercial lighting, commercial air
21 conditioning.

22 I have reviewed planning forecast
23 documentation from probably half a dozen different states.

24 Q. Did you review companies' IRPs in detail
25 and other companies' documents related to that?

1 A. Yes, particularly the Ohio utilities. The
2 other kind of things that we would do is share
3 information. People would mail me their state's
4 forecasts, and states are all over the place in terms of
5 the sophistication of the data that they require to be
6 reported. So I would review them and I would say, here's
7 some questions you could look for as a means of supporting
8 other people in the Sierra Club who had less experience
9 than I did.

10 Q. And what utilities specifically did you
11 look at in Ohio?

12 A. Well, American Electric Power was the
13 largest utility in Ohio at the time, and they have two
14 companies, Columbus Southern Power and -- the names of the
15 companies have changed so much in the last decade, I'm
16 spacing on it.

17 Q. That's all right.

18 A. Cleveland Electric eliminated Toledo
19 Edison, Ohio Power. That's the -- Ohio Power is the other
20 AEP company. Ohio Edison, and Toledo, Cleveland and Ohio
21 Edison have now merged into First Energy. We were engaged
22 in all those, Dayton Power & Light and Cincinnati Gas &
23 Electric.

24 Q. I want to talk about the field of energy
25 efficiency today. Could you describe what the field is of

1 energy efficiency?

2 A. Well, it's a complex, rapidly evolving
3 field. The people that I am most interested in and
4 fondest of are promoting utility efficiency programs
5 because the utilities have strong relationships with their
6 customers and we like to see that relationship used to
7 deliver energy services.

8 It's a very effective match if you can get
9 the economics lined up, and what I mean by that is that
10 many utilities see energy efficiency as perverse to their
11 interests because conventional ratemaking is -- it amounts
12 to punishing the utility if they do an efficiency program
13 well.

14 There are many different aspects of this
15 whole field, all the way from Department of Energy, Oak
16 Ridge National Labs, the research programs, down to
17 individual states, individual consulting firms. I'm a
18 part of a loose-knit but very effective and very active
19 network of people who correspond on several e-mail lists.
20 Some of these lists predate e-mail. This correspondence
21 has been going on since the 1980s when people were making
22 direct connections with their computers.

23 Q. Do those lists include -- you mean talking
24 about energy efficiency or what do you mean by that?

25 A. Well, there are lists where some of the

1 former regulators from New England states have --
2 participate in giving people advice on regulatory
3 structure. The whole decoupling issue has penetrated the
4 utility industry in different levels across the country,
5 and it changes the economic incentives for a utility to do
6 efficiency. It changes the state's responsibility for
7 making a company whole.

8 And these are very important issues because
9 when a state requires its utility to spend money on
10 efficiencies, as many states have done, the utility
11 conducts the efficiency program and gets the cost of the
12 program back, but they lose the sales. And if this is not
13 compensated for, they have a disincentive to run the
14 programs properly.

15 Some states have gone the whole way to full
16 deregulation and they've taken the utility out of the
17 equation, so to speak. There are a couple of states that
18 have contracted directly with independent companies to run
19 efficiency services. That doesn't strike me as being
20 terribly appropriate here in Missouri where you seem to be
21 a fully regulated state.

22 But it's an interesting model because those
23 states that have done it are getting good results from it,
24 too. They don't compensate the utilities for their lost
25 revenues or they don't do it on the same scale that other

1 states do.

2 Q. And what literature is there out there that
3 talks about energy efficiency?

4 A. Well, there are a few trade publications.
5 I don't get access to the trade publications that I used
6 to because I don't go to the utilities all the time like I
7 used to. There's an Energy Report. There's an Energy
8 Daily publication, Electricity Journal, the Electricity
9 Daily. I correspond with one of the -- it's not a
10 friendly correspondence. I correspond with one of the
11 authors, one of the writers for the Electricity Daily. He
12 disbelieves in climate change, and we routinely argue,
13 test our views out.

14 Q. Have you read reports from other states
15 about energy efficiency programs and their successes or
16 failures?

17 A. Absolutely, every time I get a chance.
18 There are presently about 18 states that have active
19 efficiency programs. Even in Ohio they still have fairly
20 reasonable low-income programs. They cut out most of the
21 larger programs, but they've preserved the low-income
22 programs.

23 In addition to the 18 states that have the
24 active programs under some form of system benefit charge,
25 there are five other states that have programs that are

1 run more conventionally, and those are -- those tend to be
2 states that have long history with efficiency, and they
3 found a mix that works and they like it and they don't
4 want to change it. Florida, Texas, I think New York state
5 is one of them.

6 States are spending between nearly
7 unmeasurable amount of revenues all the way up to 2 or
8 3 percent of the total revenues for the electric industry
9 on this kind of program and having consistently positive
10 results. Some are better than others.

11 Q. And did you become familiar with KCP&L's
12 plan to construct a new coal-fired power plant called
13 Iatan 2?

14 A. Yes, I did.

15 Q. Go ahead.

16 A. I was -- in the course of preparing for
17 this hearing, I was able to review -- I was able to review
18 the documentation that was involved in the stipulation.
19 We put in Data Requests to the company, and a few other
20 documents came to light, the Chapter 22 of the Missouri
21 regulatory code. I feel like I have a fairly complete
22 knowledge of the plant and circumstances that surround it.

23 Q. And so you performed some evaluations of
24 the plan to build Iatan 2 --

25 A. Exactly.

1 Q. -- based on the literature, the documents
2 you received?

3 A. Right. Right. And looking at the proposal
4 in the stipulation which is accompanying the plant, a
5 large part of the stipulation revolves around pollution
6 controls on existing plants. And I'm not here to quarrel
7 about anything to do with those plans. They're legitimate
8 and needed and we have nothing to say about them today.

9 The proposed plan for Iatan includes a
10 small amount of wind and a small amount of energy
11 efficiency, and the concern that I'm here to raise is that
12 not only are the amounts of wind and efficiency
13 inadequate, they are actually not as large as is required
14 by the code.

15 The Revised Code Chapter 22 specifies that
16 the utility shall evaluate a forecast that includes enough
17 energy efficiency to defer the need for the new plant for
18 an entire year, and the proposed amount of the efficiency
19 is somewhere along the lines of a quarter to perhaps an
20 eighth of that amount. So the evaluation that was done
21 doesn't appear to have been even accurate -- adequately
22 done, according to the statute.

23 Q. And do you base that on the -- on which
24 documents that you read?

25 A. Well, the public documents that describe

1 the expected productivity of the wind and energy
2 efficiency programs. It's Appendix C in the stipulation,
3 the graphs that come after page 10. There are some
4 confidential documents that also give a little bit more
5 detail, but I don't need to bring those up at this point
6 because they're duplicative of the stuff that is public.

7 Q. Is Mr. Ford speaking in the microphone so
8 you can all hear him?

9 Okay. And is anyone paying you to be here
10 today?

11 A. No.

12 Q. Did anyone pay you to conduct studies of
13 Iatan 2?

14 A. No.

15 Q. And I want to talk about Kansas City
16 Power & Light's claim that 500 megawatts of Iatan 2 is
17 necessary in the 2010 to 2012 time frame. What did your
18 studies reveal about this claim?

19 A. Well, Kansas City Power & Light is
20 projecting a need for specifically 431 megawatts in the
21 year 2010, a shortfall of capacity which would be needed
22 to allow them to serve their customers, to serve the
23 expected growth at that time and the 12 percent reserve
24 margin.

25 It's important to understand that a 500 or

1 800 or 900 megawatt coal-burning power plant is a rather
2 unwieldy tool, and if you're off on the forecasted growth
3 of electricity by a fairly small percentage, you can wind
4 up needing a new plant before your old one is finished or,
5 under the circumstances, more likely having a great deal
6 of capital tied up in a power plant that no one needs.

7 The beauty of the modern era that we live
8 in is that you can work with efficiency programs and to a
9 certain extent with the renewables to be able to time the
10 addition of new capacity or the savings of capacity much
11 more accurately with the actual experienced growth, and
12 this is important.

13 In Kansas City Power & Light's
14 non-confidential response to our Data Requests, we saw
15 that the Missouri portion of the system has actually grown
16 at a slower rate than the rest of the system. The
17 forecasted need that arrives at this 431 megawatts of
18 projected need in 2010 is based on the very high end of
19 their experienced history over the last decade.

20 If you look at the Missouri portion only,
21 the need there is about 75 percent of that rate, and if
22 you look at the last five years, the Missouri portion of
23 the system has actually reduced consumption. Net
24 consumption is smaller today than it was five years ago.

25 So speaking as a supposed expert

1 representing citizens who are environmentalists in
2 Missouri jurisdiction, I think there's a strong public
3 interest to take a good look at this plant and make sure
4 that what is being done is truly suited to the needs of
5 the people in this community.

6 Having said all of that, I have simplified
7 for my own thinking and hopefully for others that the need
8 for Iatan 2 really amounts to a projected need somewhere
9 between 35 and 90 megawatts per year for the next five
10 years. Of course, this will continue after five years
11 from now, but the projected need for the plant, the
12 projected timing of the plant are really all we have to
13 address right now. 35 megawatts per year would be the low
14 end of the actual experienced growth, and 90 would be
15 slightly over the high end of actual experienced growth.

16 I think it's important for people to
17 understand that the slow-down in consumption in the last
18 five years has something to do with the recession that
19 we're in, and that recession has something to do with
20 energy prices, because there's some feedback that we get
21 if we look at a utility that has a fairly high dependence
22 on natural gas, some of the things that might happen if
23 they're projecting to build a new coal plant in this
24 environment and the rapidly growing capacity of service
25 companies, utilities, and government policies and

1 spontaneous individual actions to become more efficient
2 than we are right now.

3 Q. I want to talk about those numbers that you
4 mentioned, 35 to 90 megawatts. Is that your calculations
5 and how do they compare to the company's calculations?

6 A. The high end of it is very close to what
7 the utility is saying.

8 Q. Would --

9 A. Mr. Grimwade's testimony said specifically
10 they need 431 megawatts in the year 2010 to preserve the
11 12 percent reserve margin.

12 Q. So you're getting 90 by dividing that 431
13 by five years?

14 A. Yeah. And in his calculation, there's a
15 reserve margin requirement. Now, if you meet the
16 projected load growth with energy efficiency, you don't
17 have to build capacity to reserve margin, because if a
18 high efficiency light bulb fails, the light goes off. It
19 doesn't go back to use inefficient amounts of electricity.
20 So efficiency is slightly attractive in terms of the
21 megawatts that need to be achieved.

22 That doesn't change the economics of it,
23 because you don't pay for that reserve margin capacity
24 when you're calculating the cost of kilowatt hours built
25 into the retail price of a kilowatt hour.

1 Q. How are you getting that figure of
2 35 megawatts?

3 A. Well, 35 megawatts would be the low end of
4 the entire KCPL system growth for the last five years.

5 Q. Is 35 megawatts the actual growth based on
6 their numbers?

7 A. That's an average -- based on their
8 experienced sales, that's an average number for the last
9 five years.

10 Q. So can you use that number and say what
11 their growth would be over five years?

12 A. Well, about 350 megawatts. Is my math
13 correct? It's much lower than that. It's more like
14 185 megawatts.

15 Q. Is it cheaper economically for -- let me
16 see. What did your analysis about energy efficiency show
17 you about whether it would be cheaper for KCP&L to use
18 energy efficiency measures to respond to growth rather
19 than construct a new coal-fired power plant?

20 A. Well, in KCPL's own analysis, they have
21 determined that a certain amount of energy efficiency and
22 a certain amount of wind capacity are cost effective. I
23 see no reason to believe that increasing the quantity of
24 wind or the quantity of efficiency is going to change that
25 finding of cost effectiveness.

1 What it will do is change the need for the
2 new coal plant. If an adequate amount is done, it defers
3 the need for the new coal plant, and there's a high value
4 on deferring the need for the coal plant right now. These
5 are rapidly changing times for the whole electric
6 industry.

7 I cannot dispute KCP&L's view, for example,
8 that integrated gasification combined cycle, the IGCC
9 plants, are new and unproven. I wouldn't advocate that
10 this company should build one of those, but there are
11 about 25 proposed IGCC's right now in this country, and
12 deferring the need for the plant even a few years might
13 give us enough experience to see whether that technology
14 really is a valid application. There's a huge premium on
15 IGCC if it can be made to work on a utility scale because
16 the national average electric coal-burning plant is about
17 33 or 34 percent efficient, and the state of the art today
18 is about 38 percent.

19 IGCC plants are reputedly able to achieve
20 up to 50 percent efficiency. That's the same as getting
21 almost two free kilowatts for every five that you produce
22 from a lump of coal. And economically that has a large
23 premium, and environmentally for carbon regulations in the
24 future it has an extremely high value because there are
25 not real simple ways to clean up CO2. We need to do what

1 we can to achieve the efficiency out of the supply side to
2 match what we can do on the demand side.

3 Q. And is Iatan risky for the consumers?

4 A. I believe it is. As I said before, it's a
5 potential mismatch with actual experience. If they don't
6 have the high end of the growth that they project, they're
7 going to wind up with a \$1.5 billion plant and no
8 customers, a very expensive wallflower. You can't deny
9 the possibility that we might have some revolutionary
10 positive change in the economy and exceed their high end
11 and the plant will be on time and under budget and ready
12 to go, but they'll need another plant right away.

13 This is a power plant that, according to
14 the documentation that I've been able to put together, the
15 company says will require something less than a 15 percent
16 rate increase but more than 9 percent rate increase for
17 100 percent of the customers, only serving 15 percent of
18 them or so. So it's more expensive capacity than anything
19 that exists today, and that rate increase is where I like
20 to take my closest look because the efficiency strategy is
21 not free. It poses great impacts, too.

22 But if you look at the rate impacts and you
23 compare them and you compare the whole effect on revenue
24 requirements, you can see that the efficiency strategy is
25 far preferable from the point of view of the customers

1 and, if the ratemaking is handled properly, from the point
2 of view of the company as well.

3 Q. What would an efficiency strategy be in
4 detail down to light bulbs, refrigerators?

5 A. Well, I didn't come here to design a
6 program for KCPL. As a matter of fact, I'm not able in
7 the time that I had available to me to examine this
8 company and its needs, I was not able to determine enough
9 about load shape to be able to specify what kind of
10 programs should be done.

11 There's some generalizations that could be
12 made. They seem to have an array of residential and small
13 commercial programs that are not bad. There's some
14 educational programs that are probably a waste of time
15 because you can never measure the performance of an
16 educational program, but they're directed at very
17 inefficient savings. The most -- the most economically
18 efficient savings come from large commercial and
19 industrial programs.

20 The trends over the last 20 years has been
21 away from technology's prescriptive programs to integrated
22 programs which really do wholesale system audits for
23 businesses and go after a combination of needs, because
24 any business might be into something unique, might have an
25 assembly line that could be changed out, and the utility

1 doesn't know the business nearly as well as the business
2 does.

3 But if the utility says we're prepared to
4 do a certain amount of cost sharing provided there are
5 some real energy benefits here, then the company can say,
6 well, we weren't thinking about doing this for five years,
7 but we'll do it now if you can do that cost sharing with
8 us.

9 Q. And what is the cost per kilowatt hour of
10 the -- that the studies have shown when they use
11 efficiency programs, that it costs?

12 A. The national average for the last 20 or
13 30 years has been slightly under 3 cents per kilowatt hour
14 for program costs. That includes the capital for the
15 hardware, whatever is being installed or cost shared, and
16 the utility's administrative costs for delivering those
17 services.

18 Some of the very strong programs that I'm
19 most interested in, California and Vermont to name two,
20 they seem to be going a little over 3 cents per kilowatt
21 hour, but at the same time they're shaving whole
22 percentage points off their electric consumption.

23 And the value of that is, to put it in
24 simple words, in a PowerPoint presentation a commissioner
25 from California, I think his name is Rosenfeld, he said

1 that this state has been spending slightly more than
2 1 percent of its revenues for 25 years. It's been doing
3 this longer than any other state or jurisdiction where the
4 utility is a privately owned, investor-owned entity.
5 There's a whole separate dialog about publicly-owned
6 utilities I don't think we'll get into.

7 But California's spending 1 percent of its
8 state electric revenues on efficiency for 25 years has
9 resulted in \$16 billion per year worth of savings. The
10 Commissioner said that the savings were offset by
11 \$4 billion in costs. So I'm not quite sure how that works
12 out, because the PowerPoint presentation didn't make it
13 explicit.

14 But if you have a net benefit of
15 \$12 billion a year in California and the state spends
16 \$32 billion a year on electricity, that's a sizeable
17 fraction of their total costs. And this is the real ideal
18 of a strong efficiency program because you don't see huge
19 savings overnight. You can't just turn on 500 megawatts
20 worth of efficiency, but if you do it aggressively and
21 consistently for a long time over the course of 5 or 10 or
22 15 years, you've avoided some new capacity additions and
23 the savings to all ratepayers are enormous.

24 Q. And what has the state of Vermont found out
25 about that?

1 A. Well, Vermont is a fully deregulated state,
2 and their utilities for the most part generate power
3 outside of the state border. So they don't have some of
4 the misconceptions or even correct conceptions about the
5 home business effect of spending money on utilities. And
6 they have a systems benefit charge that is gradually
7 increasing.

8 A valid comparison between Vermont and the
9 proposed efficiency program and stipulation for KCP&L is
10 that they started in year 2000 spending 1.8 percent of
11 their revenues, which has risen to over 3.6 percent of
12 their state revenues. Apparently the state and an
13 independent nonprofit corporation that was set up to
14 administer the efficiency programs have some deal that if
15 there's a high end to it, it's very high, and they're
16 going to keep on saving money as long as it's spent
17 productively and results in real savings.

18 They do compensate the utilities for lost
19 revenues on their distribution system, but they don't
20 compensate the utilities for other forms of lost revenues
21 that other states may do. In Ohio, our loss revenues
22 compensation was out of control. It was too large, and
23 the utilities actually loved the programs, but the state
24 decided to kill them.

25 Back to the Vermont example, when they

1 wrote the report that I have, which would be lovely to
2 enter into the record if there's an opportunity to do
3 that, the spending at 3.6 percent of revenues is six times
4 on a percentage point basis than year five of KCP&L's
5 proposed efficiency program. So KCP&L starts off with a
6 very small amount and winds up at one-third of the level
7 that Vermont started at in the year 2000.

8 Q. And you're saying that to make an
9 efficiency program work, you need to have what kind of a
10 start in spending?

11 A. Well, I wouldn't -- again, I wouldn't pick
12 the number, but you have to have an intention of getting
13 to savings that are pertinent on the scale to your
14 experienced load growth. If you're experiencing
15 35 megawatts worth of load growth and you propose an
16 efficiency program that only is going to eliminate
17 7 megawatts per year, it's clearly inadequate.

18 If I were asking Kansas City Power & Light
19 or the Missouri regulators to approve a program that was
20 wildly expensive compared to anything that has ever
21 existed, I'd be on pretty thin ice, but this has been done
22 and it's been done well for over a quarter of a century.

23 Prior to the late 1980s, most of the energy
24 efficiency programs in this country were conducted by
25 publicly owned entities, from very small ones all the way

1 up to Tennessee Valley Authority, Bonneville Power
2 Authority. The director of the Tennessee Valley Authority
3 once said that they had eliminated the need for four
4 nuclear power plants with high efficiency lighting and air
5 conditioning.

6 Some of the utilities did this in a crisis
7 mode. At one time there was a large bond default out in
8 the Washington public power system. They had \$14 billion
9 worth of nuclear power plants and never managed to finish
10 any of them. They went into a crisis mode where the
11 Bonneville Power Authority was giving away high-efficiency
12 refrigerators for a couple of years. And it worked for
13 them.

14 When the crisis was over, when they got a
15 better match between load and capacity, they let the
16 programs fall back by the wayside, which as California's
17 example shows, is not the right thing to do, because
18 there's a tendency for utilities and regulators and the
19 public to ignore the importance of doing these programs
20 when the need for capacity addition is not imminent. And
21 then you get to the point where the new capacity addition
22 is imminent and you haven't done the programs and people
23 say, well, we can't start them fast enough.

24 I'm trying to provide examples of states
25 that have started them fast enough, and more to the point,

1 if we don't achieve 35 or 60 or 90 megawatts worth of
2 saved energy per year over the next five years, those
3 savings are still very valuable.

4 If a utility like Kansas City Power & Light
5 is using a large amount of natural gas to provide service,
6 the saved energy can be used to turn the natural gas
7 plants off. The typical -- I mentioned earlier that the
8 typical program cost was about 3 cents, and that compares
9 with a typical cost of a new coal-burning power plant of
10 about 5 cents. Neither of those prices are pertinent to
11 the ratepayer, because the ratepayer pays retail price for
12 electricity. And if a program that costs 3 cents save a
13 kilowatt hour, that kilowatt hour is priced somewhere
14 between 7 and 9 cents, that's a pretty healthy savings.

15 To make it work for Kansas City Power &
16 Light, there's going to have to be something more than
17 just the compensation for the program costs and some
18 carrying charges. There has to be something to reward the
19 company, to make it interested in making these programs
20 work well. Since Kansas City Power & Light seems to be
21 coming in for rate cases every two years for the next six
22 years, there are many opportunities do that.

23 And one of my recommendations is that the
24 company work very fast and very hard with its customers
25 and with the Commission to come up with a realistic

1 compensation mechanism that will share the net savings,
2 the difference between that 3 cents and that 7 or 8 or
3 9 cents, because that savings is more than adequate to
4 allow the company to have a real rate of return that is
5 even as much as 100, 150 basis points above what they're
6 getting right now, and still be enormously less expensive
7 than building Iatan 2.

8 Q. And can you talk about risk in connection
9 with natural gas for a moment?

10 A. There are a number of different risks. The
11 thing that stuck in my mind was the company's response
12 when asked about climate change legislation. They said,
13 well, what we put into our economic models was more
14 natural gas. If there's climate control legislation, if
15 there are any restrictions on CO2, that's not going to be
16 a very healthy strategy, because you're going to have
17 every utility in the country trying to use more natural
18 gas at the same time.

19 Natural gas is a fairly small part of the
20 nation's electric generation fuel. I think it's somewhere
21 in the neighborhood of 4 to 6 percent -- it might be a
22 little higher than that right now -- of all electricity
23 comes from natural gas. However, that small percentage
24 for the electric industry is a huge percentage. It's
25 upwards of 30 percent of the natural gas used in this

1 country, and I think everybody has realized by now that
2 fossil fuel prices are highly sensitive to changes in the
3 consumption rate. And what we're seeing right now are the
4 highest natural gas and oil and coal prices rising based
5 on a sort of a return from a sort of unhealthy economy.

6 This is just growth. There are
7 international things going on, but right now we're
8 basically buying North American natural gas. We're not
9 importing very much. So what is happening in the United
10 States is a function of the marketplace here. And if you
11 had even a 4 or 5 percent across the board increase in
12 natural gas consumption due to a mass response that that
13 was the way to reduce CO2 emissions, the price would go
14 through the roof. The roof we've already gone through
15 would be far below where we're at right now.

16 Q. And how dependent is KCP&L on natural gas?

17 A. I can't answer that question because I know
18 what percentage of their capacity is natural gas, but I
19 don't know what their mix of generation is. It is a very
20 high percentage relative to most other utilities, and some
21 of their non-confidential testimony underscores that.
22 Mr. Grimwade's testimony specifically mentions that they
23 have a high dependence on natural gas. They're very
24 sensitive to natural gas prices.

25 Q. And can you talk about combined heat and

1 power? What is it?

2 A. Combined heat and power is very tricky to
3 explain because it is almost always a unique solution for
4 an individual challenge. It is -- in my mind it's a form
5 of efficiency, but I want to discuss it separately from
6 the end use efficiency that I'm most interested in because
7 the barriers to combined heat and power are quite
8 different. Often you have state laws that regulate
9 whether or not individual companies can generate their own
10 power. Combined heat and power is what used to be called
11 cogeneration, but the term cogeneration is coopted by
12 anybody who wanted to put a diesel generator in their
13 backyard. Combined heat and power actually means using
14 the power to generate electricity, and then using the
15 waste heat for some other process.

16 There are endless examples of people
17 actively working on heat recovery from the compression and
18 decompression of natural gas for transmission. You can
19 recover heat from both ends of the cycle and use it to
20 produce electricity. We had a company called Trigen,
21 which is one of the nation's leaders in combined heat and
22 power, got an award from the U.S. Climate Challenge
23 Program because they run 40 coal-burning plants and
24 produce twice as many kilowatt hours as the national
25 average per pound of fuel used, because these plants are

1 all doing extra duty work. Rochester, New York, Kodak
2 City is run by combined heat and power plant.

3 A lot of the old midwest cities that have
4 those 1920s vintage steam heat systems connect a number of
5 old office buildings have taken -- they put a small
6 natural gas power plant in the downtown area, generate
7 electricity with it. They use the waste heat to produce
8 the hot water to heat the buildings in the wintertime.
9 And in the summertime they use chillers and put cold water
10 in the same pipes. I think Cincinnati, Louisville,
11 Columbus, and at least two other cities around my part of
12 the country do that.

13 They're all customized and unique
14 applications, and what happens is when the utility is
15 inclined to solicit relationships with customers who have
16 opportunities for combined heat and power, they show up in
17 very large numbers. California did something kind of like
18 a lesson not to emulate in the 1980s. They had some
19 horrendously expensive nuclear power plants that were
20 running over 18, 20 cents per kilowatt hour for delivered
21 capacity, and the Commission said, well, if you're willing
22 to pay this much for a new power plant of your own, you
23 should be willing to pay two-thirds of that much to
24 somebody else who will generate power.

25 They ordered the companies to buy power

1 from third-party providers. They did not put a ceiling on
2 what the companies were required, so the California
3 companies were displacing their own capacity with these
4 third-party programs. The lessons to be learned are if
5 you offer a cooperative relationship with a third-party
6 generator who has a combined heat and power opportunity,
7 they will show up. And be careful what you ask for
8 because you might get it.

9 Q. And would KCP&L -- are you suggesting they
10 build a combined heat and power plant?

11 A. I'm suggesting that they examine the
12 circumstances here in Missouri and in the surrounding area
13 that interfere with the spontaneous development of
14 combined heat and power, because it is being interfered
15 with one way or another. I do not know what the
16 regulatory conditions are. I don't know what the legal
17 restrictions on people who might do this are. But you can
18 see, if you go from state to state, there are huge
19 variations in the amount of combined heat and power being
20 used, and this basically has to do with the presence or
21 lack of a supportive environment.

22 Q. Can you turn an existing coal plant into a
23 combined heat and power plant?

24 A. Yes, you can. It helps if it's a small
25 coal plant because a very large coal plant produces so

1 much waste heat, it's hard to find a group of industrial
2 customers who can use it. But many of the combined heat
3 and power plants in operation today are old coal plants
4 that have been retrofitted. The CEO of Trigen left the
5 company about four years ago and he has now bought up all
6 of the old generators that were used to produce steel
7 around Chicago, and he's converting them all into combined
8 heat and power plants.

9 One of the undercurrents in this efficiency
10 discussion is there's a tremendous amount of economic
11 development that occurs when you steer towards efficiency.
12 It's really not another cost. It's a diversion of money
13 that we would otherwise spend on the more expensive and
14 less rewarding power plants. You save money directly
15 because the efficiency uses electricity, but you also keep
16 the money that would otherwise be sent out of state and
17 out of region to buy fuel or to reward corporate
18 shareholders. You keep it in the local community. And
19 that respending is tremendously valuable for any
20 community.

21 I don't have a direct reference to the
22 studies that I've seen. Dr. Skip Latner is working for
23 the United States Environmental Protection Agency right
24 now. He's done work along these lines. He's done a
25 number of employment impact studies. And typically the

1 way he looks at things, the efficiency program operation
2 is about on par with the jobs that are created by building
3 fossil plants, but the secondary spending, the respending
4 of the saved dollars creates on the order of five to eight
5 new jobs for every job that exists in either choice of the
6 power plant production or the efficiency avoidance of
7 power.

8 Q. And if KCP&L designed a strong efficiency
9 program, would it -- do you believe that wind energy would
10 need to play any part in it?

11 A. I'm not a strong advocate of wind. I think
12 KCP&L has correctly determined that it is cost effective
13 compared to Iatan 2. I certainly believe that the
14 potential for wind is greater than 100 or 200 megawatts of
15 installed capacity, and I agree that there are concerns
16 about the availability factor. So wind should be a part
17 of the plan, but what part it plays would be best
18 determined by a careful matching of the company's real
19 needs for capacity.

20 When they say they need a 500 megawatt or
21 431 megawatt new coal plant, that really doesn't answer
22 the question of whether they need base load capacity or
23 peak capacity or intermediate level capacity, whether it's
24 needed at certain times of the year or certain times of
25 the day. So I have not been able to get in that level.

1 And the point that I make first and foremost is that
2 whatever those needs really are, you can tune an energy
3 efficiency program very precisely to what you're trying to
4 do to the load shape.

5 Q. And could you discuss a little bit more
6 about revenue erosion, what is it and how could the
7 company prevent it?

8 A. Well, as I said, roughly 3 cents per
9 kilowatt hour of savings -- of expenditure on an energy
10 efficiency measure, the program costs are included in
11 that. The utility avoids fuel costs. That's not an
12 out-of-pocket expense, so there's no lost revenues there,
13 but they have not only to maintain the existing
14 transmission system, but they have to improve it. So
15 there is a lost function of revenue there.

16 The kilowatt hour price, the retail price
17 has that built into it, and when you save the kilowatt
18 hour, that bit of revenue is gone. The company is also
19 earning typically -- I don't know what KCP&L earns, but
20 typically they earn about 14 percent of their total
21 expenses come back in terms of rate of return, and that is
22 lost.

23 There would be the need for a close
24 discussion and analysis to determine what all the factors
25 are, whether they'd want to reward the company generously

1 now to give them an incentive to do this efficiency
2 program rapidly or hold hostage the prospect of reduced or
3 increased rate of return after a few years based on what
4 the performance is.

5 Those are all legitimate questions and they
6 have always been part of this discussion. It's not
7 typically something that the average environmentalist or
8 even the average utility employee is closely familiar
9 with, and the issues are complex and need to be handled
10 with precision.

11 Q. In states where they have rewarded
12 companies for using energy efficiency, would they keep --
13 what would they do with that 14 percent return rate in
14 comparison to the lost -- to the kilowatt hour that's not
15 being spent, how would they reward them for the saved one,
16 the percentage?

17 A. I'd say there was about 18 states that are
18 using some sort of system benefit program, and then
19 there's five or so states that are using conventional
20 compensation. Conventional compensation is, at the time
21 of your rate increase you examine the efficiency program,
22 you see what its costs are and what the savings are, and
23 you make a specific adjustment to the rates of return to
24 repay the costs and to give an incentive for every
25 kilowatt hour that is saved.

1 That formula sounds kind of simple, but
2 when you have this huge question looming over you of
3 whether or not you're going to raise everyone's rates by 9
4 to 15 percent if you don't do this right, there are other
5 things that enter into that equation. There is the whole
6 prospect of saving every customer on the system that 9 to
7 15 percent rate increase.

8 So it makes sense to me, and I think it
9 makes sense to the regulators in certain states, that you
10 not only compensate them on a per kilowatt hour for saved
11 energy and there's -- depending on what kind of program it
12 is, you can go into the energy saving and the capacity
13 saving and the time of day and time of year and calculate
14 all those things out, but there is a real rate of return
15 question that should be handled properly to align the
16 interests of the customers and the company.

17 Q. And when the rates go up due to energy
18 efficiency, if you choose a higher percentage, what
19 happens to the customers' bills?

20 A. Well, in the very near term -- this is a
21 "what if". If Kansas City Power & Light decided to do the
22 avoidance of 90 megawatts -- the number I used was
23 82 megawatts of capacity each year for the next five
24 years, they would need a rate increase of about
25 \$61 million. I think that's 6 percent. That's really

1 huge, and I think it's probably twice what is actually
2 needed, maybe more than that.

3 But take this as an example. You'd have a
4 6 percent rate increase now. During the course of these
5 five years, you'd be delivering about \$120 million worth
6 of saved energy every year, so there would be immediate
7 benefits to the ratepayers as a group. That benefit is
8 somewhat distorted because the people who get the benefit
9 are the people who cooperate with the programs and have
10 the efficiency products installed in their homes and
11 businesses. Many people have said that that distortion is
12 improper, but this is a beautiful example of how proper it
13 is, because those people are helping make everybody else's
14 rates lower.

15 If they get the avoided capacity on
16 schedule or even approximately on schedule, if we get
17 half, you still defer the need for the plant by two and a
18 half years. There's no reason you can't tell how much
19 you're going to get and get that much, because it's fairly
20 easy once you've designed the program to figure out how
21 many kilowatts or megawatts you're going after.

22 So after five years you have this one-time
23 rate increase of about 6 percent, and then all of a sudden
24 everybody saves the \$91 million, \$105 million per year
25 that otherwise would be required to pay for Iatan 2.

1 So on top of the personal savings to the
2 individuals who participate in the programs, there is a
3 broad system-wide benefit that outweighs the total cost
4 substantially.

5 Q. And what about the conflict between KCP&L
6 and its customers and the current regulatory treatment?

7 A. Well, KCP&L is very clear in its responses
8 to us that they're satisfied with the mechanism that
9 they've proposed in the stipulation. The mechanism they
10 propose in the stipulation is very simply they get their
11 cost back and they get a little carrying charge for it.
12 That's not going to make the company whole for the avoided
13 kilowatt hours that are produced by that program.

14 And regardless of whether they say they're
15 content or they're not, their management is not going to
16 look fondly on expanding the size of these programs.
17 They're probably not going to be especially thrilled even
18 though the programs are fairly trivial. They're somewhere
19 around
20 2 to \$3 million per year.

21 This is revenue erosion, plain and simple.
22 A company, any utility company is really in the business
23 of making money, and they perform at the behest of their
24 one customer and that one customer is the regulatory
25 agency that set their rates. You really have to be

1 careful that those rates are causing performance that you
2 want, and it's not anybody's fault.

3 Actually, the conventional ratemaking
4 mechanism worked very well for about 50 years. Wasn't
5 until the Arab oil embargoes in the 1970s when we stopped
6 building power plants at 5 to 7 percent per year, and the
7 utilities found that their what was originally a 3 to
8 5-year lead time turned into a 30-year excess capacity
9 situation that the conventional ratemaking stopped being
10 quite so satisfactory.

11 And then over the course of that same
12 period, this whole evolution of the demand side management
13 energy efficiency programs, I use the term demand side
14 management with caution, because the company also uses it
15 to include load management programs. And the load
16 management programs are highly cost effective, but they
17 don't do anything for the environment typically. They
18 just shift consumption from clean natural gas to dirty
19 coal. So we don't oppose them, but we are not especially
20 eager to see them go anywhere. The energy efficiency
21 programs are something that have evolved, but they've
22 become fairly mature at this point and it's time to take
23 them very seriously as a potential capacity addition.

24 I'd like to just add one little bit of --
25 it's hard to measure efficiency on a societal basis. The

1 best indication of what we do with energy today is to look
2 at the energy per unit of gross domestic product. This
3 measure has fallen steadily by about 1.6 percent a year
4 for the last 30 or 40 years. It takes us less than half
5 the raw energy input today to produce a dollar of gross
6 domestic product than it did in 1970, and that difference
7 is mostly energy efficiency. It's -- you could argue
8 about what exactly makes that happen, but it's mostly
9 energy efficiency.

10 There's -- one argument is that we've
11 exported a lot of our heavy industry and we're buying the
12 finished products, so we've exported our energy
13 consumption, but the fact is that the world energy per
14 dollar of economic activity is very close to the United
15 States figure, has been over the years, and so if we're
16 exporting all that energy consumption, it's being made up
17 for somewhere else.

18 So the simple interpretation of that set of
19 numbers is that energy efficiency has added more energy
20 capacity to the United States' ability to do business than
21 all nuclear and fossil and renewable resources combined
22 over the last 35 years. It's a pretty important concept
23 to bear in mind. It's not something that we're just
24 cooking up and buttering on the bread. This is the bread.

25 Q. I wanted to ask you about the economic

1 costs of future CO2 emissions.

2 A. As an environmentalist, I'm keenly
3 sensitive to this issue. It is, of course, a challenge to
4 any company that makes its business using fossil fuels,
5 and I think I touched on this earlier. The real liability
6 to Kansas City Power & Light is in the monolithic strategy
7 using more natural gas if Congress decides to regulate CO2
8 while at the same time, as every other utility in the
9 country decides to do the same thing, it's going to be
10 incredibly expensive.

11 If you have a program of gradually
12 increasing energy efficiency, you have saved a great deal
13 of CO2 over the course of a few years. We're looking in
14 some states at utilities that are actually using energy
15 efficiency to reduce their net emissions, and this is
16 feasible. The only reason California didn't increase,
17 didn't reduce its net emissions over the period is because
18 they had a 50 percent population increase over the last
19 25 years at the same time as they were doing all this
20 efficiency.

21 I believe Vermont is presently rolling back
22 its net consumption with its efficiency programs.
23 Utilities aren't the only way to do efficiencies. We have
24 appliance standards, building codes, spontaneous
25 evolution. Next year the most efficient air conditioner,

1 least efficient air conditioner you can buy will be
2 30 percent more efficient than the least efficient one you
3 can buy today because of the ongoing improvement in
4 technology, and that is captured by the existing appliance
5 standards.

6 There are probably 18 to 20 technologies
7 which are suitable for an efficiency standard today, which
8 are not affected by federal regulations, and different
9 states are piecemeal going after some of these or all of
10 them. It looks like the whole west coast has gone with a
11 package all of them. New England and some of the upper
12 midwest states are doing some things like LED street
13 traffic signs and fire/exit lighting and just places where
14 the technology permits, a large number of savings that it
15 really makes economic sense to simply cut the bad stuff
16 off the bottom of the market.

17 All these programs work better together
18 than they do in isolation, and so a utility efficiency
19 program is probably not going to be the only solution to
20 CO2 from the utility sector.

21 But if the program exists and the utility
22 has taken a real serious look at the future and decides
23 that it wants to be in the business of energy services as
24 opposed to being in the business of cranking out kilowatt
25 hours, they will be positioned both with an understanding

1 of the whole marketplace and with customer relationships
2 that are encouraging more efficient use of the energy we
3 do use.

4 This is the recommendation that I'm making.
5 It's all part and parcel of a choice of what direction do
6 we go in from here. And the risk that the company endures
7 by building a new coal plant is especially sensitive in
8 this time frame. We may find that people don't build any
9 new coal plants. We may find that public concern is so
10 great that people go out and install efficiency products
11 on their own without any need to.

12 I would have two or three major
13 technologies that could put the entire electric utility
14 industry into a gradual net reduction of total
15 electricity, if refrigerator efficiency were doubled or if
16 the computer industry figured out how to make desk-top
17 computers as efficient as laptop computers are right now.

18 There's probably half a dozen big
19 technology areas where a large enough bite could be taken
20 out of our nation's energy consumption to eliminate growth
21 for five or ten years. I'm not going to predict what's
22 going to happen, but there are a lot of converging forces
23 that are making this happen, and everybody has to decide
24 whether they want to be in or out of the picture.

25 Q. There were a few things that I wanted to

1 discuss concerning growth rate that might have some
2 confidential information in them. Do you recall,
3 Mr. Ford, whether there was anything you could say about
4 the growth rate that didn't have it or should we ask to
5 turn off the webcast at this point? Did you say something
6 already about growth rate?

7 A. My notes on confidential materials are
8 largely replicated by public information on the subject of
9 growth rate. I would like at some point to underscore
10 what I've said with evidence that the company provided to
11 us as confidential.

12 Q. Then maybe this would be a good time to do
13 that. So if anybody in the room has not signed a
14 non-disclosure agreement or whatever --

15 JUDGE PRIDGIN: We're going to go in-camera
16 and go off so he can get into confidential material, so if
17 you'll bear with me just a second.

18 (REPORTER'S NOTE: At this point an
19 in-camera session was held, which is contained in
20 Volume 6, pages 355 through 364 of the transcript.)

21

22

23

24

25

1 JUDGE PRIDGIN: This looks to be a pretty
2 convenient time to take a break. Let me -- before we do,
3 let me kind of go through and see who would like to cross
4 Mr. Helming. Who will cross for KCP&L? Mr. Fischer.
5 Mr. Dottheim, will you have cross-examination?

6 MR. DOTTHEIM: Yes, I'll have it.

7 JUDGE PRIDGIN: Any other parties have
8 cross-examination? Mr. Conrad? Anyone else?

9 Okay. Just so I kind of know what we're
10 looking at. Very good. We will take a break. I see the
11 clock on the back wall says 10:05. Let's resume at 10:20.

12 (A BREAK WAS TAKEN.)

13 JUDGE PRIDGIN: We'll go back on the
14 record. Before I went off, I think I checked with counsel
15 and the only attorneys who wanted to cross-examine this
16 witness were Mr. Conrad, Mr. Dottheim and Mr. Fischer.
17 Did I understand correctly?

18 All right. We'll go ahead and proceed with
19 cross-examination. Mr. Conrad, when you're ready, sir.

20 CROSS-EXAMINATION BY MR. CONRAD:

21 Q. Yes, sir. You mentioned that you had
22 looked at KCPL's study of their growth load.

23 A. Yes.

24 Q. What did you look at?

25 A. I mentioned the confidential Exhibit 19A.

1 There were, I believe, three or four interrogatories that
2 went after that particular number.

3 Q. Did you look at growth in KW or KWH?

4 A. Primarily at KW because I can't evaluate
5 the KWH needs without knowing more about the company than
6 I have information at this point.

7 Q. And would you agree with me, based on your
8 experience, that that usually is a measured peak?

9 A. Yes.

10 Q. Now, you mentioned that putting in more
11 efficient refrigerators would be helpful --

12 A. Right.

13 Q. -- do you recall that testimony?

14 Would that reduce load at that peak?

15 A. Yes, it would.

16 Q. Would it also reduce load at other times?

17 A. Pretty much all the time around the clock,
18 except that any heat source, any efficient device will
19 reduce peak also because of air conditioning reductions.
20 If your refrigerator is in an air conditioned house or air
21 conditioned business, it will have a measurable effect on
22 peak load.

23 Q. Because it runs 8,760 hours?

24 A. No. No. Refrigerator cycles are not, but
25 when it runs during the high point of the day, it cycles

1 on and off and reduce -- if you have a high-efficiency
2 refrigerator as compared to an inefficient refrigerator,
3 that lowers the air conditioning load. All these things
4 can be calculated out to the satisfaction of any question
5 of peak or energy savings. They have been done to endless
6 lengths. Department of Energy puts out studies on
7 appliance performance regularly.

8 Q. Our DOE guy isn't right here, so -- but
9 would the same thing be true on residential air
10 conditioning?

11 A. Yes.

12 Q. So by putting in a more efficient
13 residential air conditioner in the SCR ratings of 30 or
14 something like that, I think --

15 A. 13 is what the new standard will be.

16 Q. Is what the new standard will be?

17 A. Right.

18 Q. That would also reduce peak, right?

19 A. Yes, it will.

20 Q. So I take it, then, that your view of a
21 program that would encourage customers who could do so to
22 curtail their loads at peak would be a favorable thing?

23 A. I have no opposition to it. As I tried to
24 make it clear, as an environmentalist, we don't have a
25 specific positive interest in the load management programs

1 that are paying customers to turn off -- industrial
2 customers to turn off their systems at peak times because
3 those usually result in makeup power at other times. So
4 there's no environmental benefit, but they make a
5 tremendous amount of economic sense to the company, so we
6 don't oppose them either.

7 MR. CONRAD: Okay. Thank you. That's all.

8 JUDGE PRIDGIN: Mr. Conrad, thank you.
9 Mr. Dottheim?

10 MR. DOTTHEIM: Yes, thank you.

11 CROSS-EXAMINATION BY MR. DOTTHEIM:

12 Q. Good morning, Mr. Ford.

13 A. Good morning.

14 Q. Mr. Ford, would you happen to have a copy
15 of the Sierra Club and Concerned Citizens of Platte
16 County's prehearing brief with you?

17 A. I don't have it with me.

18 Q. I've got a copy which I'll provide you
19 with. That document, of course, is supposed to indicate
20 what the witnesses of Sierra Club and Concerned Citizens
21 of Platte County will testify to, and I wanted to ask you
22 a few questions.

23 MR. DOTTHEIM: May I approach the witness?

24 JUDGE PRIDGIN: You may.

25 BY MR. DOTTHEIM:

1 Q. I'd first like to direct you to page 2 of
2 that document, the last full sentence on that page, which
3 indicates that you were the Sierra Club's manager for
4 approximately 25 formal interventions before the Public
5 Utilities Commission of Ohio between 1992 and 1996; is
6 that correct?

7 A. Uh-huh. Yes.

8 Q. Did you have occasion to testify before the
9 Ohio Public Utilities Commission in those 25 instances?

10 A. I gave testimony in one case. I've given
11 testimony to the Public Utilities Commission many times in
12 public hearings, sworn and unsworn testimony. I've been
13 participating in meetings. They've had a series of what
14 they called round-table discussions over the course of
15 maybe 15 years, and I've been -- usually I'm the only
16 environmentalist there. They know me.

17 Q. Mr. Ford, are you aware that Mr. Helming
18 produced what I think he described as a financial
19 analysis, a comparison of Iatan 2 to wind power?

20 A. I wouldn't be surprised. I have very
21 little contact with Mr. Helming.

22 Q. You did not assist Mr. Helming --

23 A. No.

24 Q. -- in that analysis?

25 A. No.

1 Q. I'd like to direct you again to the
2 Concerned Citizens/Sierra Club prehearing brief, page 3,
3 the paragraph under B, where there's reference to
4 Commission Rule 4 CSR 240-22.050, paren 2, close paren,
5 paren, C, close paren. Do you see that?

6 A. Yes, I see that.

7 Q. That's the section of the Commission's
8 rules on electric resource planning that you previously
9 referred to?

10 A. Yes, it is.

11 Q. Do you know when Kansas City Power & Light
12 made its first filing under Chapter 22?

13 A. Well, I don't know exactly when the company
14 made filings. When we developed the interrogatory
15 requests, we asked for the last three IRPs that the
16 company had done, and one of the documents that was
17 presented as an IRP was the 1994 KC plan. That would have
18 been the first one based on the date in the statute, which
19 is 1993.

20 Q. So you're not aware that that plan was
21 filed with the Commission in a case that was docketed as
22 Case No. EO-94-360?

23 A. I don't know anything about the number. I
24 would have assumed it was docketed.

25 Q. Do you know whether the Sierra Club or

1 Concerned Citizens of Platte County intervened in that
2 proceeding?

3 A. No, I don't.

4 Q. Do you know whether any party in that
5 proceeding raised questions regarding KCPL's compliance
6 with 4 CSR 240-22.050(2)(C)?

7 A. I wasn't involved in the hearings or
8 whatever workshops might have existed around there. The
9 copy of the KC plan 94 that I received was stamped
10 confidential on every page, and there are some aspects of
11 it that I can discuss if we need to go into it, but I'd
12 have to notify the court with that.

13 Q. I think you've answered my question. Do
14 you have any knowledge about Kansas City Power & Light's
15 subsequent filings as a result of Chapter 22 of the
16 electric resource planning rule?

17 A. I believe that the two subsequent forecast
18 reports were delivered to me. They have very little in
19 the way of information that helps me discern what the
20 company's view on efficiency programs is, which is my
21 primary interest, and indeed in response to our Data
22 Request the company says that they have no existing
23 efficiency programs at this time.

24 Q. Do you know whether Kansas City Power &
25 Light was granted a waiver in Case No. EO-97-522 from a

1 complete filing under Chapter 22 in 1997?

2 A. It doesn't surprise me, but I didn't know
3 that.

4 Q. Based on your testimony, are you aware of
5 another Commission case, Case No. EO-99-365, involving
6 Chapter 22 of the Commission's rules, the electric
7 resource planning rules?

8 A. No, I'm not.

9 Q. You're not aware of various electrical
10 corporations, electric utilities in Missouri filing in
11 Case No. EO-99-365 for the rescinding of Chapter 22?

12 A. No, I have no personal knowledge of that.

13 Q. As a consequence, then, you're not aware of
14 how Case No. EO-99-365 was resolved?

15 A. No.

16 Q. Do you have any knowledge of Case
17 No. EO-99-544?

18 A. I don't believe so.

19 Q. So you're not aware whether the Commission
20 in 1999 issued an Order in which it granted, among other
21 utilities, Kansas City Power & Light a variance from
22 filings in July 2000 and July 2003 under Chapter 22?

23 A. No, I'm not aware of that.

24 Q. As a consequence you're, I assume, then not
25 aware of what procedure the Commission might have adopted

1 in lieu of compliance by Kansas City Power & Light under
2 Chapter 22?

3 A. No, I don't have any personal knowledge of
4 that.

5 Q. Do you have any quantification as to what
6 you would consider to be the cost of the efficiency
7 programs that you are advocating that Kansas City Power &
8 Light should adopt in lieu of the construction of Iatan 2?

9 A. As I said in my testimony, if one presumes
10 that the company needs to avoid 82 megawatts worth of new
11 capacity on a yearly basis for the next five years, the
12 rate impact of the efficiency program based on rate
13 impacts of many other efficiency programs elsewhere could
14 be in excess of \$60 million. I figured \$61 million, but
15 this is all subject to real life experience. The program
16 cost there would probably be closer to \$30 million per
17 year.

18 Q. And again, if I heard you correctly, you
19 said \$30 million per year?

20 A. Yes, I did. As I discussed, there are many
21 savings as a result, too.

22 Q. Mr. Ford, do you happen to have a copy of
23 Sierra Club and Concerned Citizens of Platte County's
24 statement of positions on the issues?

25 A. I don't have it with me.

1 MR. DOTTHEIM: May I approach the witness?

2 JUDGE PRIDGIN: You may.

3 BY MR. DOTTHEIM:

4 Q. Mr. Ford, I'd like to direct you to Issue
5 No. 15, which is on page 9.

6 A. Yes, I've got it.

7 Q. And if you would take a look at the
8 position of the Sierra Club and the Concerned Citizens of
9 Platte County, in particular I'd like to direct you to the
10 last sentence of that sentence which reads, we are
11 concerned that this will amount to placing the increased
12 cost of Iatan 2 on the regulated ratepayers while allowing
13 KCPL to sell power from older fully amortized plants at a
14 more competitive price.

15 Did I read that correctly?

16 A. Yes, you did.

17 Q. And that is similar to testimony you
18 gave --

19 A. Yes, it is.

20 Q. -- earlier this morning?

21 Do you know whether performance of that
22 nature, conduct of that nature might result in an issue or
23 an adjustment in a Kansas City Power & Light rate case?

24 A. I would expect that it would, if the
25 rates -- if the ratemaking were done responsibly, and I

1 have no reason to believe otherwise, but that might not be
2 as good to the benefit of the ratepayer as not making the
3 expenditure in the first place.

4 Q. Do you know when Kansas City Power &
5 Light's last rate increase in Missouri occurred?

6 A. No, I don't.

7 Q. Do you know whether Kansas City Power &
8 Light has had any rate reductions in the last 15 years in
9 Missouri?

10 A. No, I don't.

11 Q. Mr. Ford, earlier this morning you referred
12 to a, I believe a Vermont report and other analysis
13 studies, I believe some of which you provided or was
14 provided by your counsel in response to Data Requests from
15 Kansas City Power & Light?

16 A. Yes.

17 Q. The studies that you referred to this
18 morning, did you participate in any of those studies?

19 A. They're not studies. They're reports.
20 They're articles that were written by the principals in
21 these companies. I make reference to them because I am
22 attempting to demonstrate the broad and wide knowledge
23 that exists about energy efficiency programs.

24 Q. Did you participate in any activity to
25 which those reports refer? Specifically these were for --

1 A. Not in Vermont or California, no.

2 Q. This morning you made reference to Trigen.

3 Do you know whether Trigen Energy Corporation has or

4 presently operates in the state of Missouri?

5 A. I believe it does. I know it's a party to

6 this case.

7 Q. Do you know where in Missouri --

8 A. No, I don't.

9 Q. -- that Trigen operates?

10 A. No, I don't. I don't know the nature of

11 the plant they operate here.

12 MR. DOTTHEIM: If I could have a moment,

13 please.

14 JUDGE PRIDGIN: Certainly.

15 MR. DOTTHEIM: Thank you, Mr. Ford.

16 JUDGE PRIDGIN: Mr. Dottheim, thank you.

17 Mr. Fischer on behalf of KCP&L?

18 CROSS-EXAMINATION BY MR. FISCHER:

19 Q. Good morning, Mr. Ford. My name is Jim

20 Fischer, and I represent Kansas City Power & Light in this

21 particular proceeding. And I just have -- I need to have

22 a conversation with you today about your testimony and

23 your client's position on some of the issues here today.

24 Is this the first time you've been to Jeff City?

25 A. Yes, it is.

1 Q. Well, welcome to our capital city. We've
2 got some great streams and lakes, if you have time to
3 spend over the weekend.

4 A. What I've seen out of the window is
5 attractive.

6 Q. I'm not the best note taker, and since we
7 didn't have prefiled testimony, I need to go over with you
8 just before I start about a couple points you made, just
9 to make sure my notes are right. They're going to be kind
10 of random, but if you don't mind, I'll just go through
11 these briefly.

12 A. Go right ahead.

13 Q. As I understood your testimony, one of the
14 major recommendations and thoughts that you wanted to
15 communicate to the Commission was that you believe that
16 the utility should be given a financial incentive to
17 encourage energy efficiency programs; is that right?

18 A. Yes, that's correct.

19 Q. And if I understood one of the comments
20 that you made is that you believe that generally utilities
21 are earning, I think you said 14 percent on equity, and
22 that you should encourage efficiency programs that would
23 be an incentive to continue energy efficiency and incent
24 them to do that?

25 A. That's correct.

1 Q. So would you recommend that Kansas City
2 Power & Light be given incentive to adopt energy
3 efficiency programs and earn as much as 14 percent equity
4 on them?

5 A. I do not know what Kansas City Power &
6 Light's current earnings are or any of the history that is
7 involved in their current rates, so I can't make a
8 specific recommendation. I was trying to make a reference
9 that would put it into context.

10 Q. But you think the company should be given a
11 very reasonable return on equity to encourage that kind of
12 activity?

13 A. What I said specifically was consider an
14 award in the neighborhood of 50 to 150 basis points, a
15 1/2 to 1 1/2 percent return rate increase or reduction
16 based on the performance of this desirable outcome.

17 Q. So that would be like an adder to the
18 normal rate of return --

19 A. Yes.

20 Q. -- that would be designed --

21 A. Very specifically, my intention is that it
22 be some fraction of the rate increase that would otherwise
23 be incurred so that the customers come out ahead. You're
24 talking about a 9 to 15 percent rate increase for the
25 construction of this plant. There's -- even if you did

1 have to build an efficiency program that was as expensive
2 as the very high end, the \$61 million, you would still
3 have room to add or subtract a percentage point or two of
4 revenue to the company's total returns without exceeding
5 the avoided rate increase that would otherwise occur.

6 Q. And based upon your review of the
7 stipulation in this case, is it your understanding that
8 KCPL is given an incentive in this case to earn on the
9 efficiency programs that are incorporated into the
10 stipulation?

11 A. No. In my understanding the stipulation in
12 some of the responses to Data Requests that we got, the
13 company is very clearly asking only for program cost
14 recovery and interest on those dollars during the ten-year
15 amortization period between when they start and when they
16 finish collecting them for each year.

17 Q. And you'd be recommending, I guess, that we
18 earn more than that in order to give us proper incentives?

19 A. I would recommend that as a principle that
20 should be carefully addressed in meetings between the
21 company and the Commission and interested parties in the
22 course of the next year leading up to this 2006 rate case.

23 Q. Is it your understanding, though, that the
24 company is earning some return on this? It's not like
25 they're funding this out of the shareholders' pockets; is

1 that your understanding?

2 A. No, they're not funding it out of the
3 shareholders' pocket, but they're losing revenue on lost
4 recovery from the retail sales of electricity compared to
5 what they're recovering with these program cost recovery.
6 The carrying costs they're asking for is simply interest
7 on the money they spend, and I don't know what your
8 interest rates are, but they're guaranteed to be lower
9 than the lost revenues portion of the kilowatt hours not
10 sold. And not -- they do not compensate for money the
11 company would otherwise earn to maintain the transmission
12 system.

13 Q. One of the comments that you made caused me
14 to believe that you thought Kansas City Power & Light was
15 unusually dependent upon natural gas in its generation
16 mix.

17 A. I believe that to be the case. They have
18 19 percent of their plants that are natural gas plants,
19 but I don't know what the load shape of those plants is as
20 a function of the whole. So I can't be sure that that's a
21 critical issue.

22 Q. I'd like to show you Data Request No. 38
23 from the Sierra Club, and it does confirm your 19 percent.
24 For the Commission, would you just read into the record
25 the various percentages that Kansas City Power & Light has

1 regarding nuclear, coal and natural gas?

2 A. Nuclear -- this is SCCC Data Request
3 No. 38, and nuclear is shown as 548 megawatts or 13.5
4 percent. Coal is 2243 megawatts or 55.3 percent. Natural
5 gas is 808 megawatts, 19.9 percent, actually 20 percent,
6 and fuel oil is 460 megawatts or 11.3 percent.

7 Q. Okay. And from your perspective that
8 20 percent natural gas would be heavily dependent on
9 natural gas?

10 A. Well, I don't know if those are peaking
11 plants. My understanding is that there are some peaking
12 plants and some combined cycle plants. So to know what
13 the utilization is -- my impression is that Kansas City
14 Power & Light is an extreme summer peaking utility. Their
15 winter peak is less than half of their summer peak in some
16 recent years. And that is not outlandish, but it puts a
17 lot of demand on peaking capacity because you don't need
18 the plants 10 or 11 months out of the year.

19 Q. Do you have any knowledge of how that mix,
20 Kansas City Power & Light's natural gas percentage would
21 compare to other utilities in the state of Missouri?

22 A. No, I don't.

23 Q. You also had a comment that I wasn't clear
24 about. Did you say that if KCPL adopted aggressive
25 efficiency programs they wouldn't need a 12 percent

1 reserve?

2 A. They wouldn't need 12 percent of the
3 kilowatts or the megawatts of capacity that is saved.
4 If you have to build 400 megawatts -- let's take a
5 round number. If you have to build 100 megawatts of
6 capacity, you actually need 112 megawatts or you only get
7 88 megawatts of deliverable useful capacity because of the
8 reserve margin requirement.

9 If you eliminate the need for that 100
10 megawatts, you don't have to do the extra because there is
11 no reserve for margin requirement for saved kilowatt
12 hours.

13 Q. But you're not suggesting that the company
14 wouldn't need a 12 percent or whatever is the appropriate
15 reserve margin over and above its credited capacity?

16 A. No. The regional regulatory body -- and
17 I'm afraid I don't remember the name of it, but the
18 company said that's where they get their 12 percent margin
19 from, and that's the way it's done around the country. I
20 don't dispute that, except to note that reserve margin
21 assumptions have been falling due to wholesale competition
22 and the increased ability of companies to make up for each
23 other's shortfalls. 12 percent is a reasonable number in
24 2005 as far as I'm concerned.

25 Q. Another random note I had is that you're

1 not here to pick a number for the efficiency program,
2 you're just here to talk about some of the general
3 principles but not design an efficiency program for KCPL;
4 is that correct?

5 A. Right.

6 Q. And I believe you also indicated you didn't
7 come to specify what kind of program should be done; is
8 that right?

9 A. No. I'd just like to call attention to the
10 fact there are some very powerful programs that have been
11 proven to be sufficiently effective to do the job that I
12 claim can be done.

13 Q. Another note that I had was that you're not
14 proposing that the company construct an IGCC right now.

15 A. No, I'm not. I do believe that IGCC or
16 some other new technologies may be available in less than
17 five years, and that there is an added benefit to delaying
18 the need for a new coal capacity in light of these
19 uncertainties.

20 Q. Didn't you testify in front of the Ohio
21 Senate, I believe I read that the technologies, we just
22 don't have enough experience with that technology to know
23 just how efficient it will be?

24 A. There are approximately 50 IGCC plants in
25 the world today, and 48 of them were built for purposes

1 other than utility electric generation. The two plants
2 that are built for utility generation, I do not know much
3 about them. I've heard conflicting details, and actually
4 I've seen conflicting reports about how they perform.

5 It's very clear that IGCC can perform in a
6 range of fuel efficiency from 38 to 50 percent. It's not
7 clear whether somebody could set out today and build a
8 plant and achieve either one of those ranges of efficiency
9 in a plant that has utility scale availability. And I'm
10 not prepared to advocate a technology that I can't point
11 to a working example of.

12 Q. That came up yesterday. Do you know what
13 the largest IGCC plant might be, IGCC?

14 A. No, I don't. I think that there are a
15 couple that are over 200 megawatts.

16 Q. Nothing as large as 850 megawatts, though?

17 A. No, not yet.

18 Q. I believe you also made a comment that you
19 can't just turn on overnight an 800 megawatt power plant,
20 it's a rather unwieldy tool, I believe you called it?

21 A. Yes, that's right.

22 Q. And that recognizes it takes a long time to
23 build one of those plants and you have to plan for that?

24 A. Absolutely.

25 Q. Okay. The other note I had is that you

1 indicated that there were 18 states that actively are
2 promoting efficiency programs?

3 A. Yes. The 18 states that are doing it
4 through -- I probably didn't adequately explain this.
5 There are two funding mechanism approaches, system benefit
6 charge, which is where the state requires a fee on
7 electricity anywhere from several one-thousandths of one
8 percent all the way up two or three or sometimes -- in
9 Vermont's case it's 3.6 percent of retail revenues.

10 That's a system benefit charge that's got
11 different names in different places, but the more
12 conventional approach to compensating a utility, a
13 regulated investor-owned utility is this approach of
14 determining a per kilowatt hour basis of return and then
15 incentive payment and compensating for lost revenues.

16 So between those 18 states with a system
17 benefit charge, and another 5 states that have the
18 recovery mechanism, there's 23 states I know of which are
19 actively engaged in efficiency today.

20 Q. So I guess the remainder would not fall
21 into that category that they're actively promoting
22 efficiency, that they're less progressive --

23 A. The remainder of the states are not
24 presently involved in efficiency. I've never seen a list
25 of all the states that have ever done it. The oldest

1 utility efficiency program that I know of was started in
2 the 1960s in Osage, Iowa. And as I said in my testimony,
3 many of the earlier programs were done by publicly owned
4 entities ranging from small munis all the way up to some
5 of the biggest cooperatives in the country.

6 Q. So you'd agree that some states like
7 Vermont have had a long history with these programs, but
8 other states have had less of a history?

9 A. Right. It's been very spotty.

10 Q. Is it your understanding that as a part
11 of the Stipulation & Agreement in this case, Kansas City
12 Power & Light and the signatories are proposing that we
13 embark on an efficiency program for the state of Missouri?

14 A. There are some concerns about that question
15 that have to do with confidential information which I'd be
16 happy to discuss if we --

17 Q. I don't want to get into the quantification
18 of it, but I mean, we are wanting to do an efficiency
19 program?

20 A. The point that I made in my testimony is
21 that year five of the current proposal, the total
22 efficiency spending for the stipulation is one-third of
23 the number that the Vermont program started out at in the
24 year 2000.

25 Q. But they've been at it 20 years, haven't

1 they?

2 A. Not in this particular program. They've
3 had other programs. My understanding is that the earlier
4 programs were one through a regional utility which no
5 longer exists.

6 Q. Wouldn't you agree the state has to begin
7 somewhere, and if you haven't had a long history, it's
8 good to start the process and see how these programs work
9 and try to find out what you can say and what you can't
10 and how confident you can be that you're going to
11 experience efficiency savings down the road?

12 A. I would agree with that, but the context is
13 cognizant of the growth and the pending capacity
14 additions.

15 Q. Is it also your understanding that KCPL's
16 and the signatories' proposed program in this case was
17 developed as part of a collaborative process where all the
18 parties were given the opportunity to suggest ideas and
19 come to consensus on what the level of funding should be?

20 A. I know that my clients don't feel that
21 there was much of a consensus achieved.

22 Q. But there are a large number of entities in
23 this room that have signed the Stipulation & Agreement
24 that are endorsing that; is that right?

25 A. I agree with that. Most of those entities

1 have an interest in the proposed plant that is different
2 from the regulated sharehol-- the regulated ratepayers of
3 the Missouri and Kansas elements of Kansas City Power &
4 Light.

5 Q. Is it your understanding that if the
6 Commission adopts the Stipulation & Agreement and Kansas
7 City Power & Light and other signatories participate in
8 additional collaborative efforts to develop these
9 programs, that at the level of funding we're talking about
10 in the stipulation it will be the largest program in the
11 state?

12 A. No, I have no idea what else is going on in
13 this state.

14 Q. Okay. I've just got a few questions I'd
15 like to visit with you about, about your clients
16 particularly. It's my understanding that you're here
17 representing both the Sierra Club and the Concerned
18 Citizens of Platte County, Missouri; is that right?

19 A. That's right.

20 Q. Okay. And from the application to
21 intervene, it appears that the Sierra Club is actually a
22 non-for-profit organization based out of California?

23 A. Right.

24 Q. I think there was a headquarters listed in
25 San Francisco?

1 A. That's where our national headquarters are,
2 and legally under California law, the entire national
3 organization is one entity.

4 Q. Okay. And you mentioned earlier that
5 you're a member of the -- I think the National Energy
6 Committee of the Sierra Club?

7 A. Yeah. It changes its name every three
8 years, but I've been on it for 20.

9 Q. Okay. Did the energy committee or any
10 other entity of the Sierra Club review your testimony or
11 approve the concepts that you were going to be expressing
12 today?

13 A. Absolutely approved the concepts. No, they
14 did not review my testimony.

15 Q. Okay. I also understand you're appearing
16 on behalf of Concerned Citizens, that's the term I'll use
17 to shorthand that, the Concerned Citizens of Platte
18 County?

19 A. Right.

20 Q. And according to the application to
21 intervene, they are also a not-for-profit corporation
22 incorporated under the laws of Missouri; is that your
23 understanding?

24 A. It's my understanding. It might save a
25 little time if I told you that my contact with Concerned

1 Citizens of Platte County has been minimal. I was invited
2 to participate in this case by a Sierra Club member, and
3 our attorney has had contact with Concerned Citizens, and
4 that's my only exposure to this group.

5 Q. So that group would not have reviewed or
6 approved necessarily your testimony?

7 A. No. No. The Sierra Club did locally.

8 Q. And could you tell me when you were first
9 contacted by Sierra Club to participate in this
10 proceeding?

11 A. It was probably early May.

12 Q. On. And when you were contacted, by whom
13 were you contacted?

14 A. Wallace McMullen.

15 Q. Did Wallace tell you or ask you to do
16 anything specifically in regard to the case?

17 A. He asked me to look at what the issues
18 were, and he and I are both interested in diverting energy
19 from new coal capacity to more efficient technologies and
20 to carbon reduction strategies. I have a pretty clear
21 idea what a case like this is going to be about. It's --
22 there's something like 30 or 40 of them going on in the
23 country right now, and we network a lot with people who
24 have virtually identical situations to deal with.

25 Q. Were you asked to focus principally on the

1 energy efficiency programs in the stipulation?

2 A. That's what I do, and I wouldn't have
3 agreed to focus on other strategies because I wouldn't
4 have been qualified to do much less.

5 Q. Did you respond to anything in writing, a
6 request for proposal or anything that would identify the
7 scope of your task in this case?

8 A. No. Wallace reviewed the draft comments as
9 I was putting them together. We have -- we have not
10 prepared formal written testimony, so what you hear is
11 what you get.

12 Q. Okay. According to the application to
13 intervene, the Concerned Citizens are composed of
14 residents of Platte County that live in close proximity to
15 the proposed Iatan 2 site; is that your understanding?

16 A. I understand that.

17 Q. Do you happen to know how many households
18 are represented by the Concerned Citizens?

19 A. No, I don't.

20 Q. As you understand your clients' position,
21 would it be correct to conclude that these residents are
22 opposed to having a coal-fired plant built in their
23 backyards, so to speak?

24 A. That's the understanding that I have, yes.

25 Q. And do you know if there -- that group has

1 an office in Missouri or --

2 A. No, I don't.

3 Q. Okay. Would you know who Don Swaggerty is?

4 A. Never heard the name.

5 MR. FISCHER: Okay. Your Honor, I'd like

6 to have Mr. Ford's curriculum vitae marked as an exhibit.

7 JUDGE PRIDGIN: I believe we are at

8 Exhibit 28.

9 (EXHIBIT NO. 28 WAS MARKED FOR

10 IDENTIFICATION BY THE REPORTER.)

11 BY MR. FISCHER:

12 Q. Mr. Ford, do you recognize this exhibit?

13 A. Yes, I do.

14 Q. Is it your curriculum vitae that you

15 provided to the company in discovery?

16 A. Yes.

17 MR. FISCHER: I'd move for admission of

18 Exhibit 28.

19 JUDGE PRIDGIN: Any objection? Hearing

20 none, Exhibit No. 28 is admitted into evidence.

21 (EXHIBIT NO. 28 WAS RECEIVED INTO

22 EVIDENCE.)

23 JUDGE PRIDGIN: Mr. Fischer?

24 BY MR. FISCHER:

25 Q. Based on your curriculum vitae it seems

1 that you've been concerned principally with energy
2 efficiency issues. I think you've already testified to
3 that today.

4 A. Yes.

5 Q. That's the primary focus of your work at
6 the Sierra Club?

7 A. Well, energy efficiency and climate change.

8 Q. And you've specifically reviewed the
9 Stipulation & Agreement in this case?

10 A. Yes, I did.

11 Q. And so you're familiar with the provisions
12 in Section 5 on the demand response, efficiency and
13 affordability programs?

14 A. I have reviewed them. I don't recall them
15 offhand.

16 Q. On page 46 of the stipulation, it states
17 that the current estimated cost associated with demand
18 response, efficiency and affordability programs for a
19 five-year period is \$52.8 million, split between Missouri,
20 and then there's parentheses, 29 million, and Kansas,
21 23.8 million as detailed in Appendix C. Is that your
22 understanding?

23 A. Yes. That's the combination of the
24 efficiency, the low income and the load management
25 programs, if I'm not mistaken.

1 Q. And the stipulation goes on to state that
2 the initially budgeted expenditures for the five-year
3 period for Missouri shall be 13.8 million for demand
4 response programs, 2.5 million for affordability programs
5 and 12.7 millions for efficiency programs. Is that your
6 understanding of what is being --

7 A. That conforms to my understanding of the
8 document. I don't remember the numbers.

9 MR. FISCHER: Your Honor, I believe earlier
10 in the proceeding Ms. Henry asked that the pleadings in
11 EW-2004-0596 be taken administrative notice of. I would
12 like to ask the witness about the position statement that
13 was filed in that case. I'm not sure if you need a copy
14 of that or whether we should make it an exhibit. For
15 convenience, I've got copies.

16 JUDGE PRIDGIN: I would appreciate that,
17 yes. Thank you. I'll show that as Exhibit No. 29 for
18 identification purposes.

19 (EXHIBIT NO. 29 WAS MARKED FOR
20 IDENTIFICATION BY THE REPORTER.)

21 BY MR. FISCHER:

22 Q. On April 4th of 2005, your clients filed a
23 pleading entitled Concerned Citizens of Platte County and
24 Sierra Club's Response to Stipulation Filed by Kansas City
25 Power & Light. And in this particular pleading, I believe

1 if you review it, I would ask you to review it and confirm
2 for me that your clients are supporting the energy
3 efficiency programs being proposed by the Stipulation &
4 Agreement, particularly in the first paragraph where it
5 says CCPC supports energy efficiency programs and would
6 like to see a third party examine them for effectiveness
7 and possible implementation?

8 A. Yes, I see that and I acknowledge this.
9 It's consistent with my view that the programs that have
10 been proposed are not unreasonable. They're just too
11 small.

12 Q. Okay. So would it be correct for me to
13 conclude from the position statement that your clients do
14 support energy efficiency programs that are contained in
15 the stipulation?

16 A. This is what the clients have said, yes.

17 Q. Okay. And are you familiar with the
18 provisions in the stipulation on page 47 where it states
19 that the Staff, Public Counsel, MDNR and any other
20 interested signatory party will serve as an advisory
21 group, and then there's a parentheses, customer programs
22 advisory group or CPAG, to KCPL in the development,
23 implementation, monitoring and evaluation of the demand
24 response efficiency and affordability programs?

25 A. This is consistent with my recollection of

1 the documents.

2 Q. So would it be correct that you understand
3 that there will be a customer programs advisory group that
4 will be examining these programs for effectiveness and
5 possible implementation as a part of this process?

6 A. Yes. I've been involved in many groups
7 like this over the years, and typically what happens is
8 the customers' advice is heeded with regard to program
9 design, but not with regard to program expenditures.

10 Q. So if the Commission approves the
11 stipulation, there will be a third party, this customer
12 programs advisory group, that will be involved in the
13 examination of the programs as is being suggested by your
14 clients in their position statements?

15 A. I have no reason to doubt that.

16 Q. Okay. Great. And then if I go back to the
17 pleading that's been marked 29, it states that CCPC does
18 support the plan upgrades at Iatan and Lacine; is that
19 correct?

20 A. That's on paragraph 1. I'm sorry.

21 Q. It's the second sentence on paragraph 1,
22 CCPC does support the plan upgrades at Iatan and Lacine.

23 A. It should be Iatan 1, yes.

24 Q. Yeah, I took that to mean Iatan 1.

25 A. Right.

1 Q. So would it be correct to conclude that
2 your clients are in favor of the environmental investments
3 that are being made to upgrade Lacine and Iatan 1?

4 A. I have every reason to think so.

5 Q. Is it your understanding that the
6 environmental upgrades at those plants will help improve
7 the air quality in the Kansas City area?

8 A. They're essential to do so.

9 Q. And is it your understanding that KCPL will
10 be investing \$270 million in technologies to substantially
11 reduce certain air emissions at those plants?

12 A. Right. When I talk about the rate impact
13 for the construction of Iatan 2, I have subtracted the
14 capital costs out as they were reported to me in various
15 documents. And I don't memorize these numbers, but that
16 272 million sounds about right. It's 40 percent of the
17 capital expenditures, and I can't tell what financing
18 costs will be.

19 Q. With your review of the documents in this
20 case, did you note that the Mid-America Regional Council
21 is also supportive of this proposal?

22 A. I don't remember that offhand.

23 Q. And are you also aware that the early
24 installation of the Lacine 1 selected catalytic reduction
25 facility is designed to help attain the eight-hour ozone

1 standard in the Kansas City region?

2 A. I'm not specifically aware of that, but
3 that is typical of what's going on around the country.
4 And I established that there were some discussions of
5 early compliance.

6 Q. Would you agree with me, just from an
7 environmental standpoint, the proposed investments to
8 upgrade the environmental controls of KCPL's existing
9 plants is a good thing and should be encouraged by the
10 Commission?

11 A. Absolutely.

12 Q. And it's my understanding that your clients
13 are specifically recommending that part of the stipulation
14 be approved?

15 A. I wouldn't speak on behalf of them. I'd
16 say we're not concerned about it and not opposing it.
17 Maybe they are recommending it.

18 Q. Well, the pleading in Exhibit No. 29 at one
19 point indicates, as I mentioned, that the Concerned
20 Citizens does support the plan upgrades at Iatan and
21 Lacine. I believe if you look at page 2, the very last
22 sentence -- well, I guess that goes to wind. I'm sorry.

23 A. I've worked with attorneys all my life, but
24 the changing case numbers on the documentation in this
25 matter are far beyond me, so if --

1 Q. It was an unusual process, I have to tell
2 you, for sure.

3 MS. HENRY: Excuse me, Mr. Fischer. He's
4 here as an energy expert. If you'd like a Concerned
5 Citizens member to testify about the Concerned Citizens'
6 views, we could get one in.

7 MR. FISCHER: Well, I understood he was
8 representing both groups today, but I'll just ask him some
9 questions about that.

10 MS. HENRY: He is representing both.

11 BY MR. FISCHER:

12 Q. Mr. Ford, did you happen to review the
13 testimony of Chris Giles, the company's policy witness in
14 this case?

15 A. Yes, I did.

16 Q. Do you have any reason to dispute his
17 statement in his testimony that the total site emissions
18 at Iatan will be less than they are today after the
19 environmental upgrades of Iatan 1 and the construction of
20 Iatan 2 is completed?

21 A. That is with regard to criteria pollutants
22 which are regulated by federal law. That does not include
23 CO2, which is of grave concern to us.

24 Q. But you don't have any reason to believe
25 that what he testified to on the effect of those

1 environmental upgrades will be correct, is correct?

2 A. The effect on the criteria pollutants as he
3 describes it is true, but as I said, that's not quite the
4 same thing as saying that there's less pollution coming
5 from the site since CO2 is a pollutant.

6 Q. With regard to wind, I understood your
7 testimony earlier today to be that you were not
8 particularly a wind advocate?

9 A. That's right.

10 Q. But you did recognize that wind could be an
11 important part of the portfolio of a utility?

12 A. Right. This part of the United States has
13 a better than average wind resource in general, and wind
14 is not the first choice for peaking capacity, but if what
15 this company actually needs is base load capacity, wind is
16 the cheapest generation form available today, unless you
17 happen to have a river that you want to dam up and haven't
18 already done so.

19 Q. The position statement of your clients
20 indicates on paragraph 1 that CCPC supports the wind
21 proposals and would like to see a commitment to increasing
22 amounts of renewable energy each year; is that right?

23 A. That's right.

24 Q. And then I believe on the second page it
25 indicates the Sierra Club specifically, Sierra Club

1 supports KCPL's investing in wind generation resources if
2 properly -- done properly and in accordance with best
3 practices, and would like to see a commitment to
4 increasing amounts of renewable energy each year; is that
5 right?

6 A. That's right.

7 Q. So would it be correct to conclude that
8 your clients are supporting the development of wind
9 generation by KCPL?

10 A. That's right. Remember that this document
11 was prepared before I became involved in the case, and
12 they may have phrased it a little different than if I'd
13 been advising them at that time.

14 Q. Sure. I understand. I think what you said
15 was you'd like to see a little more wind but not too much?

16 A. No. I'd like to see a careful fit to the
17 company's load between the different resources that are
18 out there, wind, efficiency, perhaps peaking capacity, but
19 I am -- I'm not in a position to be able to design that
20 program at this time.

21 Q. Sure. And did I understand, though, that
22 you recognize there are concerns about capacity and
23 availability factors for wind --

24 A. Yes.

25 Q. -- that you have to take into account?

1 A. Yes. The Regional Authority Planning
2 Council said that wind is good for 7 percent. If you have
3 100 megawatts of wind, you have 7 megawatts of peaking
4 capacity on a reliable basis. And I know wind advocates
5 think it's a lot closer to 40 percent. I think the answer
6 is somewhere in between, and it's very site-specific and
7 it depends a lot on what the weather is like when your
8 peak occurs. So I don't advocate wind as a peaking
9 resource in particular. I just note there is a little bit
10 of a peak benefit.

11 Q. Is it your understanding that as a part of
12 the Stipulation & Agreement, the signatories are
13 recommending that 100 megawatts of wind be installed in
14 2006?

15 A. Right. And the potential for another 100
16 in 2008.

17 Q. After additional study --

18 A. That's right.

19 Q. -- we look at Missouri sites?

20 Is it your understanding that that
21 evaluation will be done as a collaborative effort as well
22 by the signatories that are interested?

23 A. That's my understanding.

24 Q. You haven't included any kind of a
25 cost/benefit analysis of adding additional wind beyond

1 that in your testimony; is that correct?

2 A. The company's analysis says the wind's cost
3 effective. I see no reason why a larger amount of wind
4 would be less cost effective than the smaller amount
5 that's proposed.

6 Q. But you did recognize there's issues about
7 availability and capacity factors and whether it fits into
8 a mix of the utility's existing --

9 A. There are certainly those issues.

10 Q. You agree if we install 100 megawatts in
11 2006 and then the additional 100 in 2008, that that will
12 represent an increasing amount of renewable energy over at
13 least that time period?

14 A. I would say that for an \$870-something
15 million company, that's a rather timid first step, but it
16 is a first step. I didn't come here to promote wind. I
17 came here to promote efficiency, and that's my primary
18 concern. If I get that message across, the rest of the
19 messages will take care of themselves.

20 Q. Well, I appreciate your candor about your
21 role and your focus here. I'm just trying to understand
22 your clients' perspective on some of the issues.

23 Let's go back to your curriculum vitae. I
24 just had a couple questions about that. At one point on
25 page 2 you say, the subject of my avocation is one that

1 can be studied to some degree by selected reading, but my
2 personal experience is to have watched the revolution of a
3 concept into a firm and important reality over a quarter
4 century.

5 My question was, when you talk about your
6 avocation, are you talking about your interest in energy
7 efficiency issues?

8 A. Yes, I am.

9 Q. Okay. Do you consider yourself to be an
10 expert in the area of energy efficiency?

11 A. Yes.

12 Q. What about in the field of climate changes?

13 A. Climate change is an enormous subject, and
14 I am some sort of an expert in it because most of the
15 technical experts are very narrowly restricted to one area
16 or another, whereas I have a less deep but very broad
17 picture understanding of climate change. I've spent most
18 of the last 15 years keeping abreast of everything in
19 terms of both the knowledge of science and the evolving
20 understanding of strategic solutions.

21 Q. Are you suggesting that you do consider
22 yourself an expert?

23 A. Yes, I do.

24 Q. Okay. Mr. Ford, you sometimes participate
25 in environmental bulletin boards or chat rooms?

1 A. We don't call them chat rooms, but yes.
2 It's an e-mail listserv. There's half a dozen of them
3 actually that I'm involved with on a regular basis.

4 MR. FISCHER: Okay. I'd like to have an
5 exhibit marked.

6 JUDGE PRIDGIN: You may.

7 (EXHIBIT NO. 30 WAS MARKED FOR
8 IDENTIFICATION BY THE REPORTER.)

9 JUDGE PRIDGIN: I believe this is Exhibit
10 No. 30 for identification purposes.

11 BY MR. FISCHER:

12 Q. Mr. Ford, does this exhibit appear to be a
13 copy of one of your postings on an environmental bulletin
14 board?

15 A. Yes, it does. It's dated 1998. The list
16 has evolved a little bit since then, but I believe I was
17 on and this is one of my messages.

18 Q. Okay. Would you review this posting and
19 confirm to me that in one of the messages you've indicated
20 that, quote, I'm not a qualified expert, so my showing you
21 things I research would be of little value to people who
22 assert that this all relies on proof?

23 A. The discussion, the paragraph, the sentence
24 immediately before has to do with satellite data, which at
25 the time was a very hot topic because the anti-global

1 warming crowd was under the mistaken impression that they
2 had disproven that climate change was occurring because
3 they had some preliminary data that didn't show a
4 large-scale warming in the upper troposphere.

5 I'm not an expert in those kind of things,
6 so I was disputing the fellow and I told him I'd give him
7 some references but I can't stand up and take them apart
8 and put them back together for you.

9 Q. It was my understanding -- or I was going
10 to ask you whether you were specifically talking about
11 climate change and global warming in that context.

12 A. I was talking about a very specific limited
13 area of climate science, yes.

14 Q. At least in that context you'd consider
15 yourself not to be an expert in global change?

16 A. Not in the context of the interpretation of
17 satellite data, no.

18 Q. Is it your understanding that this
19 Commission has to base its orders on competent and
20 substantial evidence or what laymen might refer to as
21 proof?

22 A. Yes.

23 Q. On page 2 of your vitae, you also indicate
24 that you don't have any academic credentials in these
25 areas but have spent much of my adult life bridging

1 discussions between disciplines which are apparently
2 lacking in the ability to communicate. It often has the
3 effect of making complex problems simpler to understand.
4 Is that correct?

5 A. That's correct, yes.

6 Q. And when you're talking about having no
7 academic credentials in these areas, you're talking about
8 energy efficiency and climate control?

9 A. Yes.

10 Q. So you haven't completed formal courses, I
11 guess, in those areas?

12 A. They didn't have courses in those areas
13 when I went to school.

14 Q. Okay. Do you consider yourself an expert
15 in the field of electric load forecasting?

16 A. No.

17 Q. What about integrated resource planning?

18 A. I would hesitate to say I'm an expert. I
19 am a very informed participant in some aspects of load
20 planning analysis.

21 Q. Have you ever completed an electric load
22 forecast for a public utility or a regulatory agency?

23 A. No.

24 Q. Or filed an integrated resource plan for an
25 electric utility or regulatory agency?

1 A. No.

2 Q. And you're not a professional engineer; is
3 that correct?

4 A. No.

5 Q. I didn't see any specific educational
6 training or specific professional experience listed in
7 your vitae; is that right?

8 A. That's right.

9 Q. And have you ever worked -- you said you're
10 self-employed, but have you ever worked for an electric
11 utility or a regulatory agency?

12 A. No.

13 Q. Is it your understanding that the Sierra
14 Club and Concerned Citizens did participate in the
15 workshops that were held in the context of EW-2004-0596?

16 A. If you put it that way, yes.

17 Q. And you didn't have the opportunity, I
18 don't believe, to attend any of those workshops; is that
19 right?

20 A. No. My exposure to the workshops has been
21 through a number of written comments, articles and
22 reports, including the company's analysis of those
23 workshops. It's sporadic at best.

24 Q. It looks like that's the kind of workshop
25 you did a lot of attending in Ohio; is that right?

1 A. That's right. Not that anyone in Ohio ever
2 put the next power plant on the block and said, let's talk
3 about this. We haven't needed a new power plant in Ohio
4 for 30 years.

5 Q. Based on your experience, is the kind of
6 collaborative process that's happened here where we talk
7 about these things rather unusual?

8 A. No. It's actually fairly typical.

9 Q. Fairly typical. Okay.

10 A. I couldn't make a rule. It's been a long
11 time since this country has needed much new base load
12 capacity, and there are a lot of efforts made to bring
13 people together and talk about the planning, because the
14 basic understanding is the industry is less certain than
15 it was 30 years ago about the need for this kind of thing.
16 They need to have some things worked out.

17 Q. Okay. I don't want to belabor things too
18 much, but I did have some additional questions regarding
19 -- well, the stipulation indicates that KCPL provided to
20 the Staff, the Public Counsel and other participants the
21 following information: among other things, a description
22 of KCPL's proposed efficiency, affordability and demand
23 response programs, the ten-year generation load forecast,
24 description of proposed distribution and transmission
25 infrastructure programs, description of the environmental

1 investments considered by KCPL to be necessary for the
2 future.

3 Is that your understanding of the kind of
4 thing that was provided in that workshop?

5 A. I would rather read the list carefully and
6 go over it, but I'm not going to disagree with anything
7 you said.

8 Q. Okay. Have you interviewed any of the KCPL
9 witnesses that participated in this proceeding regarding
10 the resource plan that's being recommended in the
11 stipulation?

12 A. No. I've read all the testimony that was
13 filed.

14 Q. Okay. Have you talked to any of the Staff
15 or Public Counsel experts --

16 A. No.

17 Q. -- or Missouri DNR that participated in
18 that process?

19 A. No.

20 Q. Now, you signed a non-disclosure agreement
21 on March 31st of 2005 in this proceeding; is that right?

22 A. Right.

23 Q. Prior to signing that non-disclosure
24 agreement, did you review any of the proprietary or highly
25 confidential information that was included and provided to

1 Sierra Club and Concerned Citizens?

2 A. No. It hadn't been delivered to me at that
3 point.

4 Q. Is that the approximate date that you began
5 your investigations?

6 A. No. There's a lot of non-confidential
7 material that I was looking at.

8 Q. When did you really begin your
9 investigation into this case?

10 A. Sometime in the beginning of May. I don't
11 really have the date.

12 Q. Would it be correct to say that you didn't
13 begin your investigation into the proprietary and
14 confidential materials until May 31st of this year?

15 A. It would be correct to say that.

16 Q. And would you also agree with me that much
17 of the relevant, important information in this proceeding,
18 including KCPL's generation and load forecasting,
19 integrated resource plans and analysis of various supply
20 options, were designated as proprietary and highly
21 confidential?

22 A. There was an utterly unpredictable pattern
23 of confidential and unconfidential material that
24 eventually resulted in my opinions being formed. I was
25 really surprised at some of the things that were

1 non-confidential, and the sum total of this picture is
2 that there's very little that was confidential that I rely
3 upon, because it's all pretty much standard for utilities
4 of this sort.

5 The environment that you're operating in is
6 not that much different from other utilities around the
7 country. You're dealing with a faltering load growth.
8 You're dealing with uncertainty about fuels and
9 environmental concerns and --

10 Q. I'm just asking whether you're basically --
11 after May 31st is when you looked at the important
12 materials that are confidential.

13 A. My actual notes for this hearing today are
14 two pages long of confidential notes, and there's not a
15 single point in there that I need the confidential
16 information for. All it does is reinforce points that
17 I've made from non-confidential sources.

18 MR. FISCHER: I believe this exhibit has
19 already been introduced, your Honor, so I won't ask that
20 it be introduced again. I would like to show it to the
21 witness. It is the Sierra Club and Concerned Citizens
22 response to Kansas City Power & Light's first Data Request
23 to Sierra Club and Concerned Citizens.

24 JUDGE PRIDGIN: You may approach.

25 MR. FISCHER: I don't recall what number

1 that was.

2 BY MR. FISCHER:

3 Q. Have you seen that response previously,
4 Mr. Ford?

5 A. I believe I have.

6 Q. On page 3 of the response, it indicates
7 that the information provided in these answers was
8 provided by Ned Ford and Troy Helming; is that correct?

9 A. Yes.

10 Q. Do you recall the date when you provided
11 that to Ms. Henry to be included in the response?

12 A. No.

13 Q. Ms. Henry sent me an e-mail with that
14 attached on May 28th. Would it be correct to conclude
15 that you provided Ms. Henry the information sometime
16 before May 28?

17 A. Yes, it would.

18 Q. And that information that you provided
19 included a summary of your opinions in this case?

20 A. That's right.

21 Q. The first opinion listed in that indicated
22 that KCPL's plan to respond to projected need for new
23 capacity is not the lowest cost plan; is that right?

24 A. That's right.

25 Q. Would it be correct to conclude that you

1 formed this opinion on or about May 28th, at which time
2 you provided that information to Ms. Henry?

3 A. I've been working with cost comparisons
4 between coal capacity and energy efficiency for over a
5 quarter of a century. I didn't have to read anything
6 about the case to know where I was going to come down on
7 that issue.

8 Q. So you had that opinion that KCPL's plan to
9 respond to projected need for new capacity is not the
10 lowest cost plan, you had that opinion before you looked
11 at anything in this case?

12 A. If you're proposing to build a new
13 coal-fired power plant is what I'm comparing to an energy
14 efficiency strategy, I know what the answer is before I
15 look at the details of the case. Now, of course I have to
16 look at the details of the case to make sure that there
17 isn't something wrong with my conclusion.

18 Q. Please answer my question. You had that
19 opinion about KCPL's plan before you looked at anything in
20 this case?

21 A. I had that opinion about KCP&L's proposal
22 based on the information that there was a coal-fired plant
23 proposed and there was a small or no energy efficiency
24 component.

25 Q. Which is all you needed to know to have

1 that opinion?

2 A. I knew there was an issue here.

3 Q. Now, your second opinion is that KCPL's
4 plan to respond to projected need for new capacity is not
5 the least economically risk plan; is that right?

6 A. Yes.

7 Q. Would your answer be the same, that you had
8 that opinion before you had any need to look at the
9 specific information in this case?

10 A. Yes.

11 Q. And your third opinion is KCPL's plan to
12 respond to projected need for new capacity will result in
13 substantially more pollution than other plans that would
14 cost consumers less; is that right?

15 A. Yes.

16 Q. And if I ask you again, you had that
17 opinion before you needed to look at any of the specifics
18 of this case?

19 A. Coal is coal.

20 Q. And finally you say that your further
21 opinion is that KCPL's plan to respond to projected need
22 is not accurate. Would it be correct that -- is that
23 right?

24 A. No, that's not. I didn't form that before
25 I started looking at some of non-confidential materials.

1 I didn't know anything about KCPL until early May.

2 Q. It was early May. It's now June 23rd.

3 A. Right.

4 Q. So you've been looking at this for less
5 than two months?

6 A. Right.

7 Q. And you don't consider yourself an electric
8 load forecast expert; is that right?

9 A. That's right.

10 Q. Would it be correct to conclude that at the
11 time you formed your opinions in this case, you'd not
12 discussed KCPL's projected needs for capacity, the reason
13 KCPL had chosen the specific resource plan included in the
14 stipulation or the relative cost of one option or another
15 with anyone at KCPL, including Chris Giles or John
16 Grimwade?

17 A. No, I've never had any discussions with
18 anyone at KCPL.

19 Q. Nor had you discussed these with Bob
20 Schallenberg, Lisa Mantle, James Watkins, Ryan Kind or
21 Russ Trippensee; is that right?

22 A. No.

23 Q. Are you familiar with those persons?

24 A. I believe I'm familiar with all those
25 names. They've filed testimony or they've been parties to

1 the case in one way or the other.

2 Q. With the exception of your counsel or
3 Wallace McMullen, who did you discuss the issues with in
4 Missouri?

5 A. I relied upon the materials that were
6 provided in terms of confidential and non-confidential
7 matters related to this case going back to the --

8 Q. But you didn't need those materials to form
9 your opinions?

10 A. I didn't need those materials to form the
11 basic opinion upon which I advanced the rest of my
12 argument. The materials were necessary to confirm the
13 specific details of a recommendation of perhaps how large
14 a program ought to be, what the timing is, whether there
15 is a real concern about not being able to do efficiency in
16 time. There's much more to it than just the basic
17 conclusion that the three points raised here.

18 Q. Would you agree with me, though, that the
19 listed opinions that you provided to Kansas City Power &
20 Light in the answer to that Data Request are specific to
21 KCPL, they're criticisms of KCPL and specific to the
22 company?

23 A. I believe at the time that I made those
24 criticisms, I had justification to make them.

25 Q. The articles and abstracts that you stated

1 were your work papers and supporting documentation for
2 your opinions don't mention KCPL at all, do they? The
3 abstracts that you provided -- let me ask you this
4 question.

5 A. No. They reflect on the potential
6 efficiency programs that could be developed. My effort
7 was to demonstrate that this is not something that's being
8 invented around the country. It's been done, and it's
9 well established.

10 Q. In answer to the Data Request, though, you
11 provide your work papers and underlying documentation; is
12 that correct?

13 A. That's right.

14 Q. And those were articles like the Vermont
15 article and abstracts involving energy efficiency around
16 the country; is that right?

17 A. There was one on climate change, several on
18 the state of efficiency in the country today.

19 Q. And would you agree with me that none of
20 those articles or abstracts reference Kansas City Power &
21 Light Company?

22 A. I don't believe they do.

23 Q. Would you agree with me that all of those
24 articles were published prior to the time that the
25 Stipulation & Agreement was filed in this case?

1 A. There might be one that was published
2 after. I don't know. But yes, the other ones were
3 published before.

4 Q. Would it be correct to conclude that none
5 of your work papers and supporting documentation address
6 the specific KCPL plan and its projected needs for
7 capacity?

8 A. None of the documents that were provided to
9 the company at that time could have, because I didn't know
10 much about the company at that time.

11 Q. Mr. Ford, I understand that from your
12 testimony that the Sierra Club is opposed to the
13 construction of a coal-fired plant at Iatan. That's
14 right, right?

15 A. That's right.

16 Q. Does the Sierra Club generally oppose the
17 construction of new coal-fired capacity around the
18 country?

19 A. It has been doing so for some time, yes.

20 Q. In your opinion, would the Sierra Club
21 support the construction of a new nuclear unit in Missouri
22 or elsewhere in the country?

23 A. No, but that wouldn't be a least cost
24 solution either.

25 Q. Does the Sierra Club support the

1 construction of pump storage facilities, such as the
2 Church Mountain pump storage facility that was recently
3 considered by AmerenUE in Missouri?

4 A. What I know about pump storage is that it
5 can be hideously expensive. But as far as environmental
6 concerns go, it is interesting and it is clearly of
7 relevance to the development of wind, because it can
8 offset the load performance problems that wind has, and I
9 understand it can do so cost effectively. I wouldn't
10 comment on a project until I had some more details about
11 it.

12 Q. So Sierra Club would support pump storage?

13 A. Sierra Club might support pump storage. It
14 would depend on the details, the specifics.

15 Q. Do you know if Sierra Club in Missouri has
16 opposed the construction of pump storage?

17 A. No, I don't.

18 MR. FISCHER: Ask that an exhibit be
19 marked.

20 JUDGE PRIDGIN: I'm showing Exhibit No. 31
21 for identification purposes.

22 (EXHIBIT NO. 31 WAS MARKED FOR
23 IDENTIFICATION BY THE REPORTER.)

24 BY MR. FISCHER:

25 Q. Mr. Ford, I'd like to show you an article

1 that came from the website of the Missouri chapter of the
2 Sierra Club entitled, Sierra Club Celebrates Huge Victory
3 at Church Mountain, by Wayne R. Miller. Are you familiar
4 at all with this situation?

5 A. No, I'm not.

6 Q. Okay. Just reviewing this article briefly,
7 would that indicate to you that the Missouri Chapter of
8 Sierra Club is not in favor of Ameren's pump storage
9 project at Church Mountain in Missouri?

10 A. I think the article's very clear. It's a
11 scenic area. You don't put pump storage in a scenic area
12 without paying some penalty, and the Sierra Club has a
13 105-year history of standing up for the protection of wild
14 areas.

15 Q. Do you know where Church Mountain is
16 located?

17 A. I have no idea.

18 Q. Does the Sierra Club support the
19 construction of natural gas combustion turbines in
20 Missouri?

21 A. I don't believe anybody's ever asked that
22 question. We do support the construction of natural gas
23 combined cycle and combustion turbines in other places.

24 Q. Do you know if -- okay. So they do support
25 natural gas CTs to be built?

1 A. Yes.

2 Q. Are you familiar with the rather large
3 price increases of natural gas in recent years?

4 A. Very much so.

5 Q. And I believe you were commenting about
6 that earlier, weren't you?

7 A. Yes.

8 Q. Does Sierra Club support widespread
9 reliance on natural gas as a source of energy for the
10 production of electricity?

11 A. We're concerned about the over-reliance on
12 natural gas. We have been supporting it because of its
13 environmental benefits. You naturally can't support
14 something that isn't available in larger supply as a
15 reasonable alternative, and we don't -- I don't know
16 anybody in the club who feels qualified to predict that
17 there will be large supplies of natural gas going forward
18 in the future.

19 Q. Earlier in your testimony, didn't you
20 indicate that if we do continue to rely on natural gas,
21 there's going to be a price impact on that alone and that
22 the electricity industry is using as much as 30 percent of
23 the natural gas? Didn't you indicate that?

24 A. Yes, I did.

25 Q. And that was a concern to you?

1 A. Yes.

2 Q. Okay. In your testimony in front of the
3 Senate, you expressed -- the Ohio Senate that you
4 provided, I think, to us and I think you provided the
5 Senate on May 17 of 2005 --

6 A. Right.

7 Q. -- did you express the opinion that within
8 the next ten years all proven natural gas in North
9 America, including offshore Canada and Mexico, will either
10 be contractually obligated or we will see a significant
11 price induced reduction of consumption?

12 A. That's right.

13 Q. Did you also indicate in that testimony
14 that natural gas wholesale prices have tripled since five
15 years ago?

16 A. That's right.

17 Q. And have you checked the natural gas prices
18 recently?

19 A. Not in the last two weeks, no.

20 Q. So you wouldn't be familiar with what the
21 NYMEX is predicting for February of next winter?

22 A. I would not assume anyone's prediction was
23 bound and delivered until it shows up.

24 Q. But \$9 gas wouldn't surprise you, would it?

25 A. It wouldn't at all.

1 Q. In your Senate testimony in Ohio, you
2 indicated that you recommended, among other things, that
3 the state of Ohio should expand efficiency through the use
4 of appliance standards, building codes and complementary
5 programs to encourage advance building energy practices;
6 is that right?

7 A. That's right.

8 Q. If I understood your testimony, that was
9 one of the things earlier you suggested might be done by a
10 state?

11 A. Well, I presented it to the Ohio Senate as
12 an option that they might pursue, and I presented it here
13 as a concern for the utility and its customers as an
14 option that might occur anyhow and make Iatan 2 more
15 risky. It depends on the context what purpose those
16 observations have.

17 Q. Such programs would have to be implemented
18 by governmental authorities probably at the federal and
19 state level, wouldn't you agree?

20 A. Actually, many of the programs that we're
21 interested in can also be implemented at the local level.
22 It's certainly that context I was speaking to a government
23 agency about things that they could do. So I was listing
24 things that are appropriate for government entities to do.

25 Q. Mr. Ford, would you agree that the Sierra

1 Club is not for the faint of heart?

2 A. We'll take anyone.

3 Q. Would you agree that the Sierra Club is a
4 vast organization with many internal conflicts?

5 A. You sound like a member.

6 Q. I'm just reading from one of your chat
7 board postings.

8 A. Okay.

9 Q. Would you agree with that?

10 A. Yes, I would.

11 Q. I think that's on the exhibit I've already
12 handed out. Maybe you can confirm that. Would you agree
13 that everyone that's a part of the Sierra Club may not
14 agree with the opinions you've expressed today in
15 opposition to the proposed coal-fired plant at Iatan 2?

16 A. You can find people in the Sierra Club who
17 will disagree with virtually anything. What is more
18 important is what the collective organization does, and
19 the collective organization supports the kind of solutions
20 that I have advanced here very fully after many years of
21 debate. I've traced club policy on coal-burning power
22 plants back to the 1960s, but the fact of the matter is
23 that the very second issue the Sierra Club ever took was a
24 power plant case back in 1898 or something like that.

25 Q. There's lots of opinions, though, in your

1 organization; isn't that true?

2 A. Sure there are, and we have roughly
3 Democratic processes to work them out. We are an old and
4 established organization because we manage to represent
5 something that people generally recognize, even if they
6 can't pin it down at any one moment.

7 MR. FISCHER: I appreciate your patience
8 today and your candid answers. I think there are a couple
9 exhibits I have not asked to be admitted, and I'd ask they
10 be admitted at this time.

11 And during the cross of Mr. Dottheim he
12 also visited with you about Chapter 22 and some of the
13 cases that were referenced. I'd like to ask the
14 Commission to take official notice of three cases and some
15 orders. I've got copies of them all related to Chapter 22
16 compliance and waivers, and I'd like to do that at this
17 time, if I can hand those out.

18 JUDGE PRIDGIN: That's certainly fine and
19 I've got -- Mr. Fischer, if you want to go ahead and get
20 those copies, I have what's labeled as Exhibit 30 and 31,
21 Mr. Fischer, that I believe you're offering. Is that
22 correct, sir?

23 MR. FISCHER: That's correct.

24 JUDGE PRIDGIN: Any objection to those two
25 exhibits? Hearing none, Exhibits 30 and 31 are admitted

1 into evidence.

2 (EXHIBIT NOS. 30 AND 31 WERE RECEIVED INTO
3 EVIDENCE.)

4 MR. FISCHER: And, your Honor, I'd ask that
5 the Commission take official notice of the Order Approving
6 Joint Agreement dated July 18, 1997 in Case EO-97-522.

7 JUDGE PRIDGIN: The Commission will take
8 official notice of that Order.

9 MR. FISCHER: And ask the Commission to
10 take official notice of the Order Granting Joint Motion
11 for Variance dated May 20th, 1999 in Case No. E0-99-44.

12 JUDGE PRIDGIN: The Commission will also
13 take notice of that order in Case No. E0-99-44.

14 MR. FISCHER: And that's probably
15 sufficient for this purpose.

16 JUDGE PRIDGIN: All right. Thank you. Any
17 more questions for this witness?

18 MR. FISCHER: No. That's all I have.
19 Thank you very much.

20 JUDGE PRIDGIN: Mr. Fischer, thank you.

21 This seems to be a good time to break for
22 lunch. I'm showing almost 12 o'clock on the clock back
23 there. Let's try to resume roughly 1:15, and I will warn
24 the parties that we still have a long way to go and a
25 short time to get there. Be prepared to perhaps stay

1 late, come back Monday or both.

2 (A BREAK WAS TAKEN.)

3 JUDGE PRIDGIN: Good afternoon. We're
4 ready to go back on the record.

5 Before I recall Mr. Ford to the stand, just
6 a couple of housekeeping things. Is counsel here for
7 Department of Natural Resources? I don't see
8 Ms. Valentine today.

9 MS. WOODS: She's been here.

10 JUDGE PRIDGIN: If somebody could relay to
11 her, I'm assuming this hearing is going to go on 'til
12 Monday, and we would likely want to have somebody from DNR
13 available to answer questions from the Bench. I think the
14 Commissioners would want to have a witness available.

15 MS. WOODS: We can arrange that.

16 JUDGE PRIDGIN: Thank you. And also
17 perhaps the Department of Energy, Mr. Phillips, I don't
18 know. The Commission may have questions either for you or
19 for a witness about the stipulation.

20 MR. PHILLIPS: We would have to think about
21 availability.

22 JUDGE PRIDGIN: I understand. I just
23 wanted to give you as much warning as I could.

24 MR. PHILLIPS: We can always answer
25 questions now, late this evening and then later this

1 evening.

2 JUDGE PRIDGIN: Okay.

3 COMMISSIONER GAW: In other words, you
4 won't be here Monday?

5 MR. PHILLIPS: Monday may be problematic.

6 JUDGE PRIDGIN: Okay.

7 MR. PHILLIPS: And our answers will not
8 change between now and later this evening or real late.
9 The latest I've been here, Judge Pridgin, was we did have
10 a hearing one time that went to 2 a.m., and we all got
11 through that, so we're willing to stay.

12 MR. CONRAD: There's a goal to which we can
13 all aspire.

14 JUDGE PRIDGIN: That's only 12 hours away
15 or so.

16 COMMISSIONER APPLING: I really would like
17 to see us set a new record.

18 JUDGE PRIDGIN: Mr. Phillips, thank you. I
19 think that's all the housekeeping that I have.

20 COMMISSIONER GAW: Do you have a witness?

21 JUDGE PRIDGIN: Do you have a witness,
22 Mr. Phillips?

23 MR. PHILLIPS: We have no witnesses, do not
24 intend to call any. We have a few questions of
25 Mr. Trippensee and perhaps Staff, Mr. Schallenberg, and

1 that would be it, and we would close after that.

2 COMMISSIONER GAW: Just checking to make
3 sure you don't have anybody available that could be a
4 witness.

5 MR. PHILLIPS: I think you would want
6 someone with some expertise.

7 JUDGE PRIDGIN: All right. Thank you.
8 Mr. Fischer?

9 MR. FISCHER: Yes, your Honor. Over the
10 lunch hour Staff counsel pointed out to me that one of the
11 Orders that I had distributed or at least asked official
12 notice be taken of had an appendices which was not
13 included.

14 JUDGE PRIDGIN: All right.

15 MR. FISCHER: And I've got a copy now that
16 does have the appendices, and that's in the Order
17 Extending Date for Commission Action in E0-99-365, and I'd
18 like provide that to the Bench.

19 JUDGE PRIDGIN: Thank you. We'll certainly
20 take official notice of that.

21 MR. FISCHER: And the other thing that
22 Mr. Dottheim pointed out to me is that there was a
23 subsequent Order of Clarification issued in the EO-99-522
24 docket, and I'd like to have the Commission take official
25 notice of that as well.

1 JUDGE PRIDGIN: I'll do that as well.

2 Thank you.

3 I'm sorry, Mr. Fischer. Are you
4 distributing copies of that?

5 MR. FISCHER: Yes.

6 JUDGE PRIDGIN: Let me give you a minute to
7 do that. Any other housekeeping matters before we recall
8 the witness?

9 MR. ZOBRIST: Judge, I was just going to
10 remind you that the exhibit that Mr. Fischer used that has
11 an expert disclosure that he didn't have the exhibit
12 number, it is Exhibit 10.

13 JUDGE PRIDGIN: Yes, sir, thank you.
14 Seeing nothing else?

15 All right. Mr. Ford, if you would please
16 come back to the stand. I'll remind you you're still
17 under oath. See if we have any questions from the Bench
18 for you. Commissioner Gaw?

19 QUESTIONS BY COMMISSIONER GAW:

20 Q. Mr. Ford, I didn't -- I don't recall
21 whether anyone asked you what your education was.

22 A. I went through high school and had a
23 college course that I took, that I finished and didn't
24 continue.

25 Q. Okay. And you've been affiliated with the

1 Sierra Club for how long?

2 A. About 25 years.

3 Q. And are you an employee of the Sierra Club?

4 A. No, I've never been.

5 Q. What is it -- what is it that you do for a
6 living?

7 A. I invest, stock market.

8 Q. Okay. Can you tell me, you were asked a
9 little earlier about pump storage?

10 A. Yes.

11 Q. And there was a particular reference to a
12 press release that was shown to you dealing with the
13 Tomsauk Mountains. Do you recall that?

14 A. Yes.

15 Q. Did you have any time to read that any
16 further than just glancing at that release?

17 A. I glanced through it. I think I understood
18 what the release was saying.

19 Q. What would be -- what was your impression
20 of the release itself --

21 A. Well, pump --

22 Q. -- with regard to what it was saying?

23 A. Pump storage is going to be attractive or
24 unattractive based on the circumstances of the individual
25 proposal. In this case, they were proposing to put a pump

1 storage lake in a scenic area that was considered to be of
2 high natural beauty and value.

3 Q. And would that be something that normally
4 the Sierra Club would be opposed to?

5 A. That's the very heart and soul of the
6 Sierra Club.

7 Q. And what's the general purpose of the
8 Sierra Club?

9 A. To preserve, protect and enjoy the natural
10 places or scenic -- I'm sorry -- it's on our masthead, but
11 I don't remember the exact wording.

12 Q. Not the exact wording, but generally what
13 is it?

14 A. Preserve, protect and enjoy. The group was
15 founded by John Murray in 1892 and he was personally
16 deeply disturbed at the development that was occurring in
17 the Sierras and had the not all that innovative idea that
18 he could get public policymakers to appreciate what he was
19 doing if he took them out there. So they took some very
20 prestigious people out to the mountains and showed them
21 Half Dome and the canyons and some of the beautiful areas
22 and got an agreement that these areas were worth
23 preserving. It was the starting point of the National
24 Park System.

25 Q. And so it is one of the major objectives of

1 the Sierra Club to preserve some of the natural areas of
2 beauty in the country; is that accurate?

3 A. Yes.

4 Q. So in regard to the opposition of the
5 Sierra Club of Eastern Missouri to blowing off the top of
6 one of the Ozark mountains, could it have something to do
7 with the fact that the scenic area and its sightliness
8 would be disturbed rather than whether it was particularly
9 for pump storage?

10 A. You said that the way one of my fellow
11 Sierra Club members would.

12 Q. I'm sorry I can't claim to be a member, but
13 I'm just asking you whether or not that would be something
14 that they would -- that would have been the reason for the
15 opposition?

16 A. Yes, absolutely. One of the hot subjects
17 right now in the club today is mountain top removal for
18 coal mining.

19 Q. So in regard to pump storage itself,
20 because I think you've already answered, just for my sake
21 for clarification, it depends upon the particulars of the
22 project that's being proposed, not something where you
23 would just oppose it because it was pump storage?

24 A. Absolutely. And that's even true of coal
25 plants. I can't imagine in 2005 the Sierra Club rallying

1 towards a coal plant proposal of any sort, but there are
2 some that we would oppose more vigorously than others, and
3 there could be tradeoffs. The local entity has a great
4 deal of discretion as to where we stand on these energy
5 issues. We're mounting an ever-increasing campaign about
6 climate change, so coal is increasingly looked upon with
7 disfavor.

8 But is -- the club is -- it's a single
9 entity nationally, but we're not a top-down command-type
10 organization.

11 Q. Earlier you said something that -- at least
12 I thought you said something generally opposing coal
13 plants, that the Sierra Club generally opposed new coal
14 plants?

15 A. Yes.

16 Q. I'm trying to understand if you're telling
17 me the same thing now. Is it possible that the Sierra
18 Club might not oppose a particular coal plant that was
19 using pulverized coal or --

20 A. Well, for instance, somebody's trying to
21 build a coal plant on top of Mammoth Cave right now, and I
22 think the people down there in Kentucky would be real
23 happy to see a different coal plant that wasn't on top of
24 an irreplaceable wonder. Those people aren't very fond of
25 coal plants under any circumstances, so I wouldn't speak

1 for them, but I could see a deal being made under certain
2 circumstances.

3 Q. In other words, if it were the lesser of
4 two -- of two things that had to do with environmental
5 change, there may be -- there may be a resolution that the
6 Sierra Club would live with in certain cases?

7 A. Yes.

8 Q. I'm trying to follow what you're saying.

9 A. We might -- we might be less concerned
10 about an experimental IGCC plant or a smaller coal plant
11 than we are against a larger coal plant. We might be
12 willing to negotiate a strong efficiency program in return
13 for some kind of concession that the coal plant could
14 proceed. I'm not in a position to make proposals like
15 that, and I just don't want to rule out the possibility.

16 Q. I see. Can you give me what it is in
17 particular, without getting very specific, about why the
18 Sierra Club opposes coal plants as a general rule? Is it
19 because of air pollution, water pollution, other kinds of
20 pollution? Is it broader than that? Does it include the
21 notion of global warming? Does it include other things?
22 Help me to understand why Sierra Club takes that position
23 that it does.

24 A. Well, we're very concerned about climate
25 change. Under the current law, the Clean Air Act ensures

1 that a new coal plant is very clean, and as we've
2 discussed this morning, this proposal is part of a larger
3 proposal that would result in a reduction of the regulated
4 emissions from the Iatan site when the two plants are put
5 together, but that's not -- that comment is not applicable
6 to CO2.

7 Were we faced with a situation where the
8 alternative to Iatan 2 were more expensive but CO2 free,
9 we probably wouldn't spend the time to fly me out here to
10 talk to you about it because we know that your
11 responsibilities are economic. We have a proposal that is
12 less expensive, substantially less expensive and is also
13 better in terms of CO2. So we're advancing it.

14 Q. Okay. Is CO2 the principal concern?

15 A. It's the only unregulated pollutant of
16 concern. I have a personal take on mercury. Mercury
17 isn't quite regulated yet.

18 Q. I was going to ask you about mercury. So
19 if you want to give me your take on that, I would
20 appreciate it.

21 A. Well, mercury is unlike SO and NOx where we
22 have a body count and the people who die from air
23 pollution related to cars and vehicles are -- outnumber
24 the people who die from traffic accidents, from guns, from
25 most other possibly controllable causes of death in this

1 country. It's a very serious problem.

2 We don't have a body count for mercury. It
3 is well established that it's a serious neurotoxin and has
4 a lot of other implications for reproduction. From my
5 point of view, you're going to get big mercury reductions
6 when you put scrubbers on power plants, and you're
7 probably not going to get anybody to spend the money to do
8 more than fine tune other mercury reductions.

9 I may not be fully up to date on the best
10 pollution control technology, but as I work towards
11 scrubbers and CO2 reduction, I feel like mercury gets
12 caught up there and taken care of, so I don't really speak
13 about it directly.

14 Q. Okay. So you don't know what the potential
15 is for -- or would not be able to testify about the
16 potential for mercury pollution as a result of this plant?

17 A. Well, I don't think mercury is regulated
18 yet. There are some regulations that are being developed,
19 as I understand it, and the specific amount for a new
20 source will be very low compared to the existing plants,
21 and whether that's a 60 percent reduction or a 90 percent
22 reduction is what's up in the air right now.

23 Q. All right. I'll ask someone else about it.

24 A. I'd certainly find someone who would give
25 you a more informed opinion about mercury, if you'd like.

1 Q. You mentioned the integrated gasification
2 combined cycle plants, I think, several times in your
3 testimony, and -- is that not true?

4 A. Yeah, I mentioned them.

5 Q. Are you aware of any plans -- I think you
6 also -- you also suggested that there were currently no
7 plants up and running that were of anywhere near the scale
8 that is being proposed for the pulverized coal plant by
9 KCPL?

10 A. Yeah, I don't believe there are.

11 Q. Do you know if there are any major utility
12 companies in the United States that are proposing to build
13 plants that are somewhere near or accumulatively over the
14 800 to 900 megawatt plant that's being proposed in Kan--
15 by KCP&L?

16 A. I don't know. What I know is that there
17 are about 25 proposed IGCC plants. I do not know how big
18 they are.

19 Q. Have you seen a press release from AEP --
20 do you know who AEP is?

21 A. Yes.

22 Q. Do they work in Ohio?

23 A. Right.

24 Q. Have you seen any press release from
25 March of this year announcing AEP's intent to build up to

1 1200 megawatts of new generation using IGCC?

2 A. I didn't know they were making that
3 specific announcement. I've heard them talk about that.
4 There's also the Future Gen project, which is a DOE
5 research program that people in Ohio are pitching for very
6 fiercely.

7 Q. What is that?

8 A. It's an IGCC plant that's to be built as a
9 consortium of different interests. It will be about
10 250 megawatts, and it will have add-on components so they
11 can experiment with developing the technology. It will be
12 largely paid for by DOE, and the one thing I know is that
13 it's intended to use eastern coal and it's intended to be
14 sited where they experiment with deep well injections of
15 CO₂. If they come up with deep well injections of CO₂,
16 then our concerns about coal are considerably lessened,
17 possibly evaporate.

18 Q. That's a method of carbon sequestration?

19 A. Right.

20 Q. Putting the carbon deep underground?

21 A. And it's unfortunately not applicable to
22 existing plants. An IGCC plant apparently allows a very
23 pure segregated stream of CO₂. It's not like they have to
24 separate it out of the flue gas.

25 Q. Do IGCC plants also allow for a recovery of

1 other byproducts that are salable?

2 A. Those are the claims that I've heard. Most
3 of the plants are run as chemical factories, I believe,
4 because they allow very tight manipulation of the chemical
5 output.

6 Q. Okay. I'll see if I can find someone else
7 who maybe knows a little bit more. I think maybe one of
8 the witnesses for KCPL has some background, and maybe we
9 have somebody from DNR and maybe somebody from our Staff
10 who can give me a little bit more assistance on that. I
11 think I'll -- oh, I may have -- hold on just a second,
12 Judge.

13 You had mentioned earlier about incentives.
14 Have you seen incentives in any programs around the
15 country that are given to consumers to implement certain
16 conservation measures?

17 A. Well, that's how many of these programs
18 work. They'll do a rebate when somebody goes and buys a
19 refrigerator or an appliance or light bulbs. Light bulbs
20 are actually kind of favored for rebate programs because
21 they can just mail people coupons with their monthly bill.
22 It becomes more attractive if you're willing to do a
23 program on a sufficiently large scale where you just go in
24 and work with the manufacturers and distributors, but
25 rebate programs are part of demand-side management.

1 Q. Is there a program that's run by the
2 Department of Energy that's called -- that's called Energy
3 Star?

4 A. Yes.

5 Q. What is that?

6 A. I'm not sure how far Energy Star goes.
7 It's a ranking of products and some building techniques
8 which rate a given product or construction as being
9 superior to the norm. One example which isn't really
10 pertinent to this company's proposed programs is an Energy
11 Star rated home today is about 30 percent more efficient
12 than code minimum. The state of the art allows someone to
13 build a home that's 80 or 90 percent more efficient.

14 So Energy Star has its limitations, too,
15 but it's an important aspect of educating the public about
16 where efficiency can be found and which products are more
17 worthwhile than others.

18 Q. Do they have Energy Star buildings for
19 industrial manufacturing?

20 A. Anybody who builds any sort of building can
21 apply for an Energy Star rating.

22 Q. Would it be -- have you ever heard of any
23 programs where the incentives given by the utility were
24 combined in with the Energy Star program?

25 A. I'd rather say no. I'm sure it's been

1 done, but Energy Star isn't so much of an incentive to the
2 construction as it is a signal to the buyer.

3 Q. What if it were more than that? Would it
4 be possible to construct a plan where special rates were
5 given in a tariff for industrial customers, let's say,
6 that had facilities that qualified as Energy Star
7 buildings?

8 A. Oh, absolutely.

9 Q. That would be perhaps a lower rate than
10 what was paid for by other industrial --

11 A. Yeah. You'd have to figure out some way of
12 benchmarking it to prove that you'd actually accomplished
13 something. An important part of an efficiency program is
14 the monitoring and evaluation. You have to develop each
15 aspect of it so that you can prove that you accomplished
16 what you set out to do. And there's a very wide different
17 set of approaches to doing that.

18 Q. I suppose you wouldn't -- Energy Star is
19 set up already, but I suppose you could do something that
20 was -- that had a different level of standard than Energy
21 Star?

22 A. Yeah.

23 Q. I'm using that as an example.

24 A. If it's necessary to provide rebates -- I
25 mean, our experience is that most of the efficient

1 buildings pay for themselves. If you take the steps to
2 make them meet the standard, you wind up with a combined
3 mortgage payment and utility bill that's lower than you
4 otherwise would have had.

5 Q. That sort of sounds like another program
6 that I've heard of out there, well, one of them is -- its
7 trademark name I think is Pays Program. Have you heard of
8 that?

9 A. No.

10 Q. Have you ever heard of programs where the
11 utility provides either as a conduit or actual financing
12 itself for improvements to a home or perhaps a business
13 with the idea that the combination of the new bill and the
14 financing of the improvement is less than the old energy
15 bill was?

16 A. Oh, I think that's the way all efficiency
17 programs have to work.

18 Q. But you're not particularly familiar with
19 the program that was originated somewhere up in the east
20 called Pays Program?

21 A. No. I'm in Cincinnati, Ohio, and we've had
22 programs that work with commercial and residential
23 buildings in Ohio.

24 Q. That are similar?

25 A. Yeah, very similar. I've read about them

1 in other states, but I can't say that -- I know New
2 England has a long and powerful history with these kind of
3 programs. They've been doing industrial rebuilds since
4 probably the 1970s.

5 Q. Is there a particular program in Ohio that
6 you think works exceptionally well?

7 A. No. Ohio is not a good example for what we
8 want to see happen.

9 Q. Do you have another example of one -- of
10 that nature that you think works particularly well?

11 A. Well, I have a list of programs that were
12 designed by the Vermont people for testimony that was
13 given in an Ohio case that I would hold up as one example,
14 but it wasn't my intention to come here and tell KCP&L how
15 to design their programs, but to kind of establish some
16 conceptual benchmarks like 3 cent per kilowatt hour.

17 And, you know, the real thing that matters
18 is the bill savings, the difference between the capital
19 cost of the program and the retail price of the
20 electricity that's saved. You know, there are people who
21 are more qualified than me to help with specific details
22 of program design, and they should be done with the local
23 community in mind.

24 Q. Okay. Your general recommendation in
25 regard to the proposal is to develop plans that actually

1 lower the need of additional generation in the short term,
2 is -- is your suggestion that your proposal is the least
3 cost solution?

4 A. An efficiency program will be less
5 expensive than anything else. You can add in a little bit
6 of wind capacity or a little bit of combustion turbines.
7 I don't know what the load shape details are for this
8 company, so I don't know exactly whether they need peak or
9 base load capacity. And I keep trying to make the point
10 that efficiency can be tailored extremely closely to
11 whatever load shape concerns there are.

12 Q. But you have not, as you've already
13 testified, developed a particular plan that you would
14 recommend in this case?

15 A. No, no. I put some parameters on it. I
16 think that if you feel that the 2.2 percent growth rate is
17 actually going to occur, you might need a program that
18 costs about 60 million, \$61 million a year. I think
19 that's probably very high. I think the program can be
20 done much less expensively and that the need will not be
21 for 82 megawatts per year, but somewhere between there and
22 the actual experience for the last five years, which is
23 35 megawatts per year

24 COMMISSIONER GAW: Thank you. Thank you,
25 Judge.

1 JUDGE PRIDGIN: Commissioner Gaw, thank
2 you. Commissioner Appling?

3 QUESTIONS BY COMMISSIONER APPLING:

4 Q. Mr. Ford, just one question. Sooner or
5 later I'm going to have to cast my vote to either build
6 this plant that KCPL is trying to put up. If we go
7 forward with this plant, in your best estimation who's
8 going to get hurt here?

9 A. I'm very concerned about the shareholders,
10 because if the plant is built, there is case law that
11 holds the shareholders of a regulated -- I'm sorry -- the
12 ratepayers of a regulated utility responsible for
13 expenditures that prove not to be in their best interest.
14 That's sort of the contract that you get with regulation.

15 I don't know to what extent Missouri law
16 differs with the old-fashioned regulated utility contract,
17 but one of the people who cross-examined me was talking
18 about whether I knew whether the company had ever
19 experienced a rate reduction. I don't know that. I just
20 know that it's illegal to reduce the rates to the point
21 where the company isn't making money, and if they go out
22 and do a huge capital investment like this, the ratepayers
23 will be responsible for some fraction of it, regardless of
24 what actually happens.

25 And this plant is a 15 percent increase in

1 rates, a 9 to 15 percent increase in rates. It serves
2 customers who don't exist today, and the people who exist
3 and are being served by the company don't need it. If
4 there was some way to segregate new customers from old
5 customers, that might be interesting to pursue, but I've
6 never heard of that being done.

7 And the point that I've been trying to make
8 most of all is that these programs, the efficiency
9 programs, even the wind programs can be ramped up and
10 applied very fast, and even if they're not fully
11 successful, if you set a goal of 70 or 80 megawatts per
12 year and you don't get it, you still have bought some
13 extra time. And I believe that this company, with the
14 proper mix of incentives, can indefinitely defer Iatan
15 before they run into trouble with not having time enough
16 to do something about it.

17 That's a game that's been played as long as
18 people have been working on this kind of thing. The
19 plant's too far away, we don't need to do anything about
20 it, oops, now it's too close, we don't have time. And the
21 efficiency programs never get used. That has to change
22 somewhere along the line.

23 COMMISSIONER APPLING: Okay. Sir, thank
24 you.

25 JUDGE PRIDGIN: Commissioner Appling, thank

1 you. I don't think I have any questions.

2 Mr. Ford, let me see if we have any
3 recross, and I believe on cross-examination we only had
4 questions from Praxair, Staff and KCP&L, if I remember
5 correctly.

6 Do we have any recross?

7 Mr. Conrad does not. Mr. Dottheim?

8 RE-CROSS-EXAMINATION BY MR. DOTTHEIM:

9 Q. Mr. Ford, you've used the 3 cents per KWH
10 number a number of times, I think most recently in a
11 question from the Bench. Did you have any work papers
12 associated with that calculation of yours?

13 A. It is certainly in the Vermont paper, but
14 it's an industry standard. I've seen reports for the last
15 15 years that hover around that benchmark. Now, that's
16 the program cost alone. That's not what the compensation
17 should be. The compensation should be larger than that.

18 Q. How much larger? What should it be?

19 A. Well, I think a -- probably somewhere in
20 the neighborhood of half of the cost of the retail price
21 of the electricity saved. This depends a lot on whether
22 you're going after trying to incentivize the company by
23 giving them an overall rate of return adjustment or trying
24 to treat them on a per kilowatt hour saved basis. And
25 that's something the regulators have to decide in concert

1 with the company.

2 MR. DOTTHEIM: Thank you, Mr. Ford.

3 JUDGE PRIDGIN: Mr. Fischer?

4 RE-CROSS-EXAMINATION BY MR. FISCHER:

5 Q. Just briefly. Commissioner Gaw asked you
6 about your employer, and I think you indicated you were
7 self-employed. Have you had previous employers?

8 A. Many years ago I was a legal secretary.
9 I've done consulting work in the last few years. It's on
10 and off. I don't need to, so I don't.

11 Q. Mr. Ford, are you by chance related to the
12 Ford family that was Ford Motor?

13 A. We like to say they're descended from our
14 line, but the fact is, I've never found anybody who knew
15 what Henry Ford's family tree was. So we know our Ford
16 ancestors all the way back to the 1600s, but I've never
17 figured out -- there should be a connection because
18 there's just so many of us.

19 MR. FISCHER: Okay. Thank you very much.

20 JUDGE PRIDGIN: Mr. Fischer, thank you.

21 Let me see if we have any redirect.

22 Ms. Henry?

23 MS. HENRY: I would just like to find out
24 if the Commissioners would be interested in reviewing the
25 Vermont report. I believe that it is hearsay, but it is

1 here if they would like to see some reports from other
2 utilities' experiences. I've got them. I can have
3 Mr. Ford read the titles and explain what they are about,
4 if the Commission is interested in reviewing some of these
5 studies done from other states.

6 JUDGE PRIDGIN: Well, I will leave it up to
7 you, Ms. Henry, if that's something you want to introduce
8 and see if counsel objects, and we'll go from there.

9 MS. HENRY: What's your feeling,
10 Mr. Fischer?

11 MR. FISCHER: If you're offering, I'm not
12 objecting.

13 MS. HENRY: Okay. Well, then I'll have him
14 briefly, very briefly discuss the five papers that he
15 provided to the other side and offer them into evidence.

16 MR. FISCHER: Your Honor, I wasn't by
17 indicating no objection indicating I wanted more direct on
18 testimony that could have been offered earlier on. I
19 won't object if she wants to put it on the record, but I'd
20 like to get on to try to get this done today.

21 MS. HENRY: You mean the titles of them, or
22 what do you mean?

23 MR. FISCHER: If you want to just admit
24 them into the record, we won't object.

25 MS. HENRY: Oh, just admit them. Okay.

1 But I didn't make 23 copies.

2 MR. FISCHER: Okay.

3 MS. HENRY: Okay. So I'll just have you
4 number them; is that right?

5 JUDGE PRIDGIN: So we can mark those and
6 identify them, admit them, and then if you can just
7 briefly describe them, and then we'll just move on.

8 MS. HENRY: Okay. I'll have Mr. Ford
9 briefly describe them.

10 JUDGE PRIDGIN: That's fine with me,
11 pending objections from counsel.

12 MS. HENRY: It will be very brief.

13 THE WITNESS: The first one is Four Years
14 Experience. It's a report from Efficiency Vermont, Blair
15 Hamilton.

16 JUDGE PRIDGIN: And how many of these
17 reports do you have, Ms. Henry?

18 MS. HENRY: Just five of them.

19 JUDGE PRIDGIN: Okay. Let me pull those.
20 I guess it would be a little cleaner maybe if we label
21 each one as a separate exhibit. I don't know how big they
22 are.

23 MS. HENRY: Right. And, actually,
24 Mr. Ford, if some of them don't deal with experience of
25 other utilities, you can skip those.

1 THE WITNESS: All right. Okay.

2 JUDGE PRIDGIN: I'll label that as Exhibit

3 No. 32.

4 (EXHIBIT NO. 32 WAS MARKED FOR

5 IDENTIFICATION BY THE REPORTER.)

6 JUDGE PRIDGIN: Whenever you're ready, you

7 can go through those one at a time.

8 THE WITNESS: Five Years In, Martin

9 Kushler, April 2004.

10 MS. HENRY: And just briefly say what it

11 is.

12 THE WITNESS: This is the report that

13 discusses the 18 utilities that have system benefit charge

14 programs presently, the 18 states that have them.

15 MS. HENRY: And what was the first report,

16 just a brief description?

17 THE WITNESS: First is Efficiency Vermont.

18 It's a detailed description of a very innovative approach

19 to running efficiency programs indirectly without using

20 utility. They have a private nonprofit corporation that

21 manages all the efficiency implementation.

22 JUDGE PRIDGIN: I'm sorry. I think I

23 missed -- I thought we were still on the first one. I

24 want to be sure to label these separately.

25 MS. HENRY: He's done 32 and 33, and now

1 he's on 34.

2 THE WITNESS: 33 is the Martin Kushler,
3 April 2004, Five Years In, which examines the 18 states.

4 JUDGE PRIDGIN: Okay. Thank you.

5 (EXHIBIT NO. 33 WAS MARKED FOR
6 IDENTIFICATION BY THE REPORTER.)

7 THE WITNESS: This next one is a PowerPoint
8 presentation from Arthur Rosenfeld, who's a Commissioner
9 in the California Energy Commission. Particularly eager
10 to call your attention to slides 10, 11 and 12. The rest
11 of this is interesting, but it's not particularly
12 pertinent.

13 MS. HENRY: And that would be No. 35; is
14 that right?

15 THE REPORTER: 34.

16 MS. HENRY: Okay. That's 34. And are
17 either of the other two related to other states?

18 THE WITNESS: I have three here, and two of
19 them are not. And I'm trying to make sure about the third
20 one.

21 (EXHIBIT NOS. 34 AND 35 WERE MARKED FOR
22 IDENTIFICATION BY THE REPORTER.)

23 THE WITNESS: It's John A. Laitner, Energy
24 Policy Models and Technology Characterization, 2004
25 Emerging Technology Summit. It's a PowerPoint

1 presentation.

2 MS. HENRY: Okay. Thank you. Is that all
3 of them?

4 THE WITNESS: Yes, that's all.

5 MR. FISCHER: Your Honor, could I ask a
6 couple of follow-up questions about those exhibits, just
7 to clarify what they are?

8 JUDGE PRIDGIN: You may.

9 RE-CROSS-EXAMINATION BY MR. FISCHER:

10 Q. Mr. Ford, those are the underlying
11 documents that you identified in your answer to Data
12 Request that you were relying on for your testimony that
13 we talked about during our cross-examination?

14 A. They are some of them, yes. You should
15 have seen all of these before.

16 Q. And those were the exhibits or the
17 documents that I asked about that didn't have any
18 references to Kansas City Power & Light at all in them; is
19 that correct?

20 A. That's correct.

21 MR. FISCHER: Thank you.

22 JUDGE PRIDGIN: Mr. Fischer, thank you,
23 Ms. Henry, any more questions?

24 MS. HENRY: No.

25 JUDGE PRIDGIN: Did I understand that

1 you're offering those exhibits?

2 MS. HENRY: Yes, I am.

3 JUDGE PRIDGIN: All right. I think

4 Exhibits 32 through 36 have been offered. Any objections?

5 MS. HENRY: I think it was 32 through 35.

6 JUDGE PRIDGIN: Excuse me, 32 through 35.

7 Thank you, Ms. Henry.

8 MR. CONRAD: What was 35?

9 JUDGE PRIDGIN: Could you repeat what 35

10 is?

11 THE WITNESS: 35 would be John A. Laitner's

12 Energy Policy Models and Technology Characterization.

13 JUDGE PRIDGIN: Mr. Dottheim?

14 MR. DOTTHEIM: I'm wondering if Exhibit 33

15 is the Martin Kuschler report.

16 JUDGE PRIDGIN: I believe that's correct.

17 MR. DOTTHEIM: When I look at Sierra Club/
18 Concerned Citizens first supplemental responses to KCPL's
19 first Data Request, under 3C, I'm trying to determine
20 which document it is. I don't see it characterized in
21 that response.

22 THE WITNESS: I did not have this at the
23 time of our first response. I believe we submitted it
24 independently later.

25 MS. HENRY: I did a second response, yes.

1 MR. DOTTHEIM: Okay.

2 JUDGE PRIDGIN: I'm going to show

3 Exhibits 32, 33, 34 and 35 are admitted.

4 (EXHIBIT NOS. 32, 33, 34 AND 35 WERE

5 RECEIVED INTO EVIDENCE.)

6 MS. HENRY: How many people would like

7 copies?

8 MR. PHILLIPS: I think you have to serve

9 all the parties.

10 MR. CONRAD: It really isn't a question of

11 how many of us would like them. I think I'm entitled to

12 it.

13 MS. HENRY: You're entitled to it.

14 JUDGE PRIDGIN: Any further questions for

15 this witness? Seeing none, Mr. Ford, thank you very much

16 for your time and your testimony, sir.

17 THE WITNESS: Thank you.

18 (Witness excused.)

19 JUDGE PRIDGIN: What I'd like to do is try

20 to get back on track of the original order of witnesses.

21 Now, obviously if counsel has other ideas or other needs

22 as far as getting people on who won't be available on

23 Monday, et cetera, please let me know, but otherwise I

24 would like to get back in the order of witnesses going

25 back to KCP&L's witnesses.

1 And if I understand correctly, only
2 Mr. Cline and Mr. Grimwade are going to be subject to
3 cross-examination, is that correct, for KCP&L?
4 MS. HENRY: And Ms. Nathan.
5 MR. FISCHER: And Ms. Nathan. Sue Nathan
6 is someone she had a question of.
7 JUDGE PRIDGIN: All right. I would like to
8 go on if Mr. Cline is available.
9 MR. ZOBRIST: He is.
10 JUDGE PRIDGIN: Mr. Cline, if you would,
11 please raise your right hand and be sworn.
12 (Witness sworn.)
13 JUDGE PRIDGIN: Thank you very much, sir.
14 If you would please have a seat.
15 Mr. Zobrist, whenever you're ready.
16 MR. ZOBRIST: Thank you, Judge.
17 MICHAEL CLINE testified as follows:
18 DIRECT EXAMINATION BY MR. ZOBRIST:
19 Q. Please state your name.
20 A. Michael Cline, C-l-i-n-e.
21 Q. Mr. Cline, do you have a copy of the direct
22 examination with the proprietary schedules that were filed
23 in this case?
24 A. I do.
25 MR. ZOBRIST: Let me hand these to the

1 court reporter and ask that they be marked as -- I believe
2 we're up to Exhibit 36.

3 (EXHIBIT NO. 36 WAS MARKED FOR
4 IDENTIFICATION BY THE REPORTER.)

5 BY MR. ZOBRIST:

6 Q. Sir, are you the same Michael W. Cline that
7 prepared and caused to be prepared Exhibit 36 and its
8 confidential portion?

9 A. I am.

10 Q. And they have been identified as
11 Exhibit 36, correct?

12 A. Yes.

13 Q. Okay. Mr. Cline, do you have any
14 corrections to your testimony at this time?

15 A. I do.

16 Q. And I believe the first one is on page 8;
17 is that correct?

18 A. That is correct.

19 Q. Could you please indicate the correction
20 that should be made on page 8 of your testimony?

21 A. Certainly. At line 20, the -- what
22 currently reads as 10 percent and then the number
23 10 percent in parentheses should be replaced with
24 9 percent and then the number thereafter. This is to
25 conform with the actual financing application which KCP&L

1 filed on 23 June -- 22 June rather.

2 Q. This week, is that correct, sir?

3 A. Yes.

4 Q. Do you have one other correction to be made
5 in your testimony?

6 A. There is one other correction, yes, on
7 page 9, starting in the middle of line 5, we would strike
8 all of the language beginning, finally the debt securities
9 may include, through the end of the paragraph.

10 Q. And what is the reason for that correction?

11 A. Again, it's to conform with the financing
12 application which KCP&L filed earlier this week. We did
13 not include that type of security in the app.

14 Q. Any other corrections to your prefiled
15 testimony?

16 A. No.

17 Q. If I asked you these questions, would you
18 be giving the answers that are contained in Exhibit 36?

19 A. Yes, I would.

20 MR. ZOBRIST: I move the admission of
21 Exhibit 36, your Honor.

22 JUDGE PRIDGIN: Any objections? Hearing
23 none, Exhibit 36 is admitted into evidence.

24 (EXHIBIT NO. 36 WAS RECEIVED INTO
25 EVIDENCE.)

1 MR. ZOBRIST: Thank you. Nothing further.

2 JUDGE PRIDGIN: Mr. Zobrist, thank you.

3 Let me make this witness available for cross. And just to
4 save time, I don't want to go through every single
5 counsel. Let me see. I assume, Ms. Henry, you'll have
6 questions?

7 MS. HENRY: Yes.

8 JUDGE PRIDGIN: Mr. Dottheim?

9 MR. DOTTHEIM: No questions.

10 JUDGE PRIDGIN: You don't have any
11 questions. Any other attorneys who have questions for
12 this witness? Okay. Seeing none. Ms. Henry?

13 CROSS-EXAMINATION BY MS. HENRY:

14 Q. Mr. Cline, I wanted to discuss the part
15 attached to your testimony that's labeled MWC-6. It
16 was -- the proprietary schedules were removed, and I
17 believe this one is public. It's the Standard & Poor's
18 report attached at the end of it.

19 A. The report dated April 1st, 2005?

20 Q. That's right. That's correct. On
21 page 2 of that -- so it's Schedule MWC-6, page 2 of 3. On
22 page 2 it says, while adoption of the agreement does not
23 ensure rating stability, it does provide KCP&L with access
24 to rate relief during implementation of the company's
25 large capital program.

1 MR. ZOBRIST: Could you direct us to the
2 line, please?

3 MS. HENRY: I'm looking for it. Hold on.

4 THE WITNESS: I believe it's in the middle
5 of the first paragraph, the outlook section.

6 MS. HENRY: Yeah, in the outlook section.
7 Seven lines down from where there's a large heading,
8 outlook.

9 MR. ZOBRIST: Thank you.

10 BY MS. HENRY:

11 Q. Could you explain the phrase, access to
12 rate relief, and what it means there?

13 A. I think it simply means that there is a
14 well-structured and communicated mechanism, rate case
15 mechanism in place as described in the Stipulation &
16 Agreement.

17 Q. Does KCP&L assume that if this plan is
18 adopted by the Commission after these hearings, that the
19 rate increases talked about in -- the two to four rate
20 increases talked about will be approved by the PSC in the
21 coming years?

22 A. I'm sorry. Could you repeat the question?

23 Q. Does KCP&L assume that if this stipulation
24 is adopted, that the rate increases that are discussed in
25 the stipulation will be approved by the Public Service

1 Commission in the coming years?

2 A. I mean, there were -- there were levels of
3 rate increases were provided in the data that we submitted
4 to Standard & Poor's, yes.

5 Q. I'm getting at, will KCP&L use the PSC
6 order approving this stipulation to show the PSC that the
7 rates asked for are prudent and reasonable?

8 MR. ZOBRIST: Your Honor, I think that
9 calls for this witness to render a legal conclusion about
10 some future possibilities. I don't think that's within
11 the scope of his direct testimony.

12 MS. HENRY: I thought it related to the
13 access to rate relief sentence that he -- that is in his
14 testimony.

15 JUDGE PRIDGIN: As I understand the
16 question, I'll overrule, and I'll let him answer if he
17 knows the answer. So far it appears he does not.

18 THE WITNESS: I do not.

19 BY MS. HENRY:

20 Q. Okay. Turn to page 1 of this Standard &
21 Poor's report --

22 MR. CONRAD: Judge, before we leave that
23 point, maybe I'm misunderstanding, but what I'm looking at
24 and I believe counsel was citing to was the Standard &
25 Poor's report, not something authored by this witness, am

1 I --

2 MS. HENRY: No, but it's attached to his
3 exhibit. He's filing it.

4 MR. CONRAD: I'm just asking the question.
5 Am I correct?

6 JUDGE PRIDGIN: That's correct. She's
7 referring to MWC-6, a schedule to Mr. Cline's direct
8 testimony.

9 BY MS. HENRY:

10 Q. Would you like to explain why it's attached
11 to your testimony?

12 A. This was the first report published by a
13 rating agency immediately following the filing of the
14 Stipulation & Agreement, so it evidenced Standard & Poor's
15 acceptance of the S&A that had been filed earlier that
16 week.

17 Q. On page 1, let me get the correct line, I'm
18 going to -- it says, the plan incorporates the amount to
19 file for annual rate cases for 2007 through 2009 without
20 the risk of intervention by signatories to the agreement.
21 I'll tell you the exact line. It's under rationale. It's
22 in the third paragraph, the fifth line. No, wait. Yeah,
23 that's right. Fifth, sixth and seventh lines.

24 Can you explain the significance of this
25 ability to file for annual rate increases without the risk

1 of intervention by signatories?

2 A. I think what S&P meant there was that there
3 would not be the ability for the signatories to challenge
4 the -- I don't know what the right word is I'm looking for
5 here -- the broad premise of the agreement.

6 Q. So the risk of intervention by the Sierra
7 Club and Concerned Citizens does not concern S&P?

8 A. I can't speak to their view of --

9 Q. But the risk of intervention by Ford and
10 Praxair apparently would concern S&P? What kind of deal
11 did you give Ford and Praxair in order to have them sign
12 this stipulation?

13 A. I can't address that.

14 Q. Did you make an offer to Sierra Club
15 members or Concerned Citizens that their rates would not
16 increase if they signed the stipulation?

17 A. I can't address that.

18 Q. On page 2 of your testimony -- I'm leaving
19 the exhibit and going to your testimony, on lines 20,
20 let's see --

21 COMMISSIONER CLAYTON: Judge, could I get
22 some clarification? She asked a question about -- your
23 response was that you couldn't address that. Does that
24 mean you don't know the answer?

25 THE WITNESS: I don't know the answer.

1 Yes, I'm sorry.

2 COMMISSIONER CLAYTON: I thought you said
3 you couldn't answer that, and I'm like, well, you can tell
4 us.

5 BY MS. HENRY:

6 Q. On page 2, reading from lines 20 through
7 23, you said, investors need to have confidence in KCP&L's
8 management and the regulatory process itself to feel
9 comfortable making this capital available to KCP&L on
10 attractive terms, particularly given the number of
11 investment alternatives otherwise available to them.

12 What does that phrase mean, particularly
13 given the number of investment alternatives otherwise
14 available to them?

15 A. Investors have many ways that they can
16 invest their money. I mean, there are any one of a number
17 of other companies, industries, et cetera, that are
18 alternatives. We're simply trying to put ourselves in the
19 best possible light to attract capital.

20 Q. On page 3, in lines 6 through 10 of -- you
21 said KCP&L's ability to refinance its debt efficiently,
22 effectively and on favorable terms will be heavily
23 dependent on bond holder and rating agencies, as with the
24 regulatory plan, and let me -- continuing, and equity
25 investor views of the regulatory plan will be a major

1 influence on the Great Plains Energy stock, NYSE ticker,
2 GSP general price for the next several years.

3 Could you please explain these sentences?

4 A. Well, in order to refinance debt, that
5 would require the company essentially to access the debt
6 capital markets in order to repay debt that is maturing.
7 And in order to access debt, the company needs to be able
8 to favorably position its fundamentals, its fundamental
9 story, and very clearly the regulatory plan and all of its
10 provisions are a very important part of what we call the
11 KCP&L story with investors, both fixed income and equity
12 investors, and that's essentially the meaning of the
13 second sentence there.

14 Q. Well, what will happen to KCP&L's ability
15 to refinance its debt if this plan is not approved?

16 A. It would be -- would certainly be more
17 difficult.

18 MS. HENRY: I have no further questions.

19 JUDGE PRIDGIN: Ms. Henry, thank you.

20 Let me see if we have any questions from the Bench.

21 Commissioner Gaw?

22 COMMISSIONER GAW: No.

23 JUDGE PRIDGIN: Commissioner Clayton?

24 COMMISSIONER CLAYTON: No questions.

25 JUDGE PRIDGIN: I have no questions.

1 Assuming we have no further questions, this witness can be
2 excused. Mr. Cline, thank you very much.

3 (Witness excused.)

4 JUDGE PRIDGIN: I believe I see as the next
5 witness Mr. Grimwade. Is he available?

6 MR. ZOBRIST: Yes, he is, your Honor.

7 JUDGE PRIDGIN: Please come forward to be
8 sworn, sir.

9 (Witness sworn.)

10 JUDGE PRIDGIN: Thank you very much, sir.
11 If you would please have a seat.

12 Mr. Zobrist, when you're ready, sir.

13 MR. ZOBRIST: Thank you, your Honor.

14 JOHN GRIMWADE testified as follows:

15 DIRECT EXAMINATION BY MR. ZOBRIST:

16 Q. Please state your name.

17 A. John Grimwade.

18 Q. Mr. Grimwade, did you prepare direct
19 testimony in this case?

20 A. Yes, I did.

21 (EXHIBIT NO. 37 WAS MARKED FOR
22 IDENTIFICATION BY THE REPORTER.)

23 BY MR. ZOBRIST:

24 Q. I've marked your direct testimony as
25 Exhibit 37. Do you have a copy of your direct testimony

1 before you?

2 A. Yes, I do.

3 Q. And are you the same John Grimwade that
4 prepared that direct testimony and caused it to be filed
5 in this case?

6 A. I am.

7 Q. Did you have any corrections to your
8 testimony, sir?

9 A. Yes, I have several minor changes. The
10 first is my title has changed to senior director,
11 construction. My responsibilities have expanded to
12 include development and execution of strategic projects,
13 including the wind project, the Iatan 2 project, and the
14 environmental projects at Lacine 1 and Iatan 1.

15 Q. And so that would change the testimony on
16 page 1, lines 8 through 10; is that correct?

17 A. Yes. I also have changes in several other
18 sections of the document. There was a misapplication of
19 one of the references. The first one appears on page 10,
20 line 14.

21 Q. And that is the question concerning
22 environmental regulation, and the response needs to be
23 amended in what regard?

24 A. In this particular case, it refers to
25 Appendix C of KCPL's response to MPSC Data Request

1 No. 1029, and that was misapplied. This reference
2 actually referred to the responses that KCPL made to the
3 workshop meeting that occurred on October 29th, 2004 in
4 Case No. EW-2004-0596.

5 Q. And that document was distributed to
6 participants at that time, correct?

7 A. To the workshop participants, yes.

8 Q. The next correction?

9 A. The next one -- and these are all pretty
10 much the same. Page 12, line 9, regarding the wind
11 generation, the same reference change also applies.

12 MS. HENRY: Where is that?

13 BY MR. ZOBRIST:

14 Q. It's on page 13, line 9.

15 A. Line 9.

16 Q. And lines 9 and 10 have that reference to
17 DR No. 1029?

18 A. Right.

19 Q. And what should the change read, once
20 again?

21 A. To participants in response to a workshop
22 meeting that occurred on October 29th, 2004 Case
23 No. EW-2004-0596.

24 Q. Then the next correction.

25 A. Occurs on page 13, line 15, I believe.

1 Q. That's the question. And the correction to
2 your answer?

3 A. Would occur on page 15, 7 and 8, I believe.

4 Q. I think we're on page 14.

5 A. I'm sorry.

6 Q. Line 12 by my reckoning?

7 A. I jumped ahead.

8 Q. And again, that should read the same as the
9 previous reference to the workshop, correct?

10 A. That's correct.

11 Q. Then I believe the next change is your
12 answer to the question that began on page 14, line 16, and
13 the correction is the next page, page 15, line 7 and 8?

14 A. That's correct.

15 Q. And again, is it the same correction?

16 A. The same correction, yes.

17 Q. And the final correction is in response to
18 the question asked on page 17, line 8, the correction
19 being in your answer on page 18, lines 9 and 10; is that
20 true?

21 A. Yes, that's true.

22 Q. And it is the same correction to indicate
23 the material was supplied at the workshop?

24 A. Yes, to clarify that that Data Request was
25 actually a workshop information request.

1 Q. Any further corrections to your direct
2 testimony?

3 A. No.

4 Q. If I asked you the questions contained
5 herein, would you be giving the same answers?

6 A. I would.

7 MR. ZOBRIST: I move the admission of
8 Exhibit 37, your Honor.

9 JUDGE PRIDGIN: Any objections? Hearing
10 none, Exhibit No. 37 is admitted into evidence.

11 (EXHIBIT NO. 37 WAS RECEIVED INTO
12 EVIDENCE.)

13 JUDGE PRIDGIN: Mr. Zobrist, thank you.

14 Ms. Henry, I assume you'll have questions.

15 Any other counsel have questions for Mr. Grimwade?

16 Mr. Dottheim? Any others? Seeing no other
17 volunteers, Mr. Dottheim, when you're ready.

18 CROSS-EXAMINATION BY MR. DOTTHEIM:

19 Q. Good afternoon, Mr. Grimwade.

20 A. Good afternoon.

21 Q. Mr. Grimwade, do you address in any
22 document that you produced the SPP white paper on wind
23 power?

24 A. I don't know if I specifically address the
25 white paper. I don't recall.

1 Q. Do you address the accreditation factor of
2 the Southwest Power Pool?

3 A. Yes, I do.

4 MR. DOTTHEIM: May I approach the witness?

5 JUDGE PRIDGIN: You may.

6 MR. DOTTHEIM: I'd like to have this
7 document marked as Exhibit 38, and the document is
8 Appendix E, Assessment of Renewable Wind Resources as Part
9 of KCP&L's Supply Portfolio, Kansas City Power & Light
10 Company Energy Resource Management, December 1, 2004. The
11 document is designated as highly confidential.

12 MR. ZOBRIST: My understanding,
13 Mr. Dottheim, is that that designation has been lifted.

14 MR. DOTTHEIM: Okay.

15 (EXHIBIT NO. 38 WAS MARKED FOR
16 IDENTIFICATION BY THE REPORTER.)

17 BY MR. DOTTHEIM:

18 Q. Mr. Grimwade, could you direct me to where
19 in this document, Exhibit 38, you address the
20 accreditation factor for wind power of the Southwest Power
21 Pool?

22 A. There's a reference on page E18 of this
23 appendix, under the section entitled Accredited Capacity.

24 Q. Okay. Would you please read that
25 paragraph?

1 A. Accredited capacity. Currently the
2 Southwest Power Pool does not have any accreditation rules
3 in place regarding wind generation facilities. The issue
4 is currently under study within the Southwest Power Pool.
5 Southwest Power Pool generation working group issued a
6 white paper at the October 27th, 2004 board of
7 directors/members committee meeting that addressed wind
8 facility accreditation. Using the methodology outlined in
9 the white paper, prospective sites under consideration by
10 KCP&L could be accredited at approximately 7 percent for
11 modeling purposes. The 7 percent accreditation factor was
12 used.

13 Q. And could you identify this document as to
14 when was it produced in response?

15 A. This was produced probably late November,
16 early December of 2004 in response to those October 29th
17 questions.

18 Q. When you say October 29th questions, was
19 there a workshop on October --

20 A. Yes, there was.

21 Q. -- 29th, 2004 relating to the workshop
22 docket Case EW-2004--

23 A. Yes.

24 Q. -- 0596?

25 MR. DOTTHEIM: Thank you, Mr. Grimwade. At

1 this time I'd like offer Exhibit 38.

2 JUDGE PRIDGIN: Any objections? Hearing

3 none, Exhibit No. 38 is admitted into evidence.

4 (EXHIBIT NO. 38 WAS RECEIVED INTO

5 EVIDENCE.)

6 JUDGE PRIDGIN: Any further questions,

7 Mr. Dottheim?

8 MR. DOTTHEIM: No, your Honor. Thank you,

9 Mr. Grimwade.

10 JUDGE PRIDGIN: Thank you. Ms. Nathan?

11 MR. ZOBRIST: Ms. Henry.

12 JUDGE PRIDGIN: Excuse me. Ms. Henry. I

13 apologize.

14 MS. HENRY: Ms. Nathan's coming next.

15 JUDGE PRIDGIN: Yes, she is. I was reading

16 ahead. You caught me.

17 CROSS-EXAMINATION BY MS. HENRY:

18 Q. I wanted to ask you about wind power. You

19 stated that on page 4 of your testimony, that the balance

20 of wind resources would provide mitigation against the

21 potential mandated renewable generation, and you went on

22 to talk about the federal government might impose

23 legislation saying a utility has to meet a certain

24 percentage of its energy portfolio. And you went on to

25 say that wind will provide mitigation against the

1 potential greenhouse gases legislation. And on page 7 you
2 said wind is recommended as early as 2006 to take
3 advantage of production tax credits.

4 Could you explain the PTC for us, please?

5 A. Production tax credit currently, at least
6 at a federal level, is granted under I believe Section 45,
7 which allows recovery of approximately, I think it's 1.8
8 to 1.9 cents per kilowatt hour produced by wind facilities
9 that would go into production by December 31st of 2005.
10 There's discussions currently in this current energy bill
11 and on other bills proposed to both the House and Senate
12 at the federal level to renew that energy bill for either
13 one to three years.

14 Q. So the reasons for wind -- for putting wind
15 generation into your portfolio include compliance with
16 fed-- including taking advantage of federal and state laws
17 pertaining to renewables and federal laws pertaining to
18 PTC and the federal law about the CO2 emissions; is that
19 correct?

20 A. Well, the PTC is currently being debated as
21 to its longevity. It's been a tool that's been used to
22 provide some incentive to wind development in the United
23 States that has had some positive effect at driving the
24 cost of overall wind generation down. There's fairly
25 strong debate right now at a federal level as to the

1 longevity of this PTC as to whether it will be around for
2 more than one to three years in the future.

3 So looking out over this horizon at which
4 the PTC may be a benefit to ratepayers, the sooner the
5 better, I think is the philosophy there.

6 Q. I had a question about the stipulation.
7 Are you familiar with the stipulation?

8 A. Parts of it, yes.

9 Q. Okay. Let me get my copy. I guess I'll
10 ask you to read a paragraph of it, on page 24, to read the
11 bottom paragraph O. And then I'll just ask you about
12 certain factors of it.

13 A. O, resource plan monitoring. KCPL agrees
14 to actively monitor the major factors and circumstances
15 which influence the need for and economics of all elements
16 of its resource plan.

17 MR. ZOBRIST: Judge, I'm going to interrupt
18 the witness, and ask his apology, but this is about a two
19 or three-page section.

20 MS. HENRY: Right. That's enough for him
21 to read, and then I was going to ask about just a couple
22 of these factors with the Roman numerals. You're right.
23 He's read enough.

24 BY MS. HENRY:

25 Q. Okay. Some of the factors include -- I

1 just want to make sure you see them -- Roman Numeral II, a
2 significant change in federal or state tax laws. So that
3 would -- that's one of the factors that will influence the
4 need for and economics of the elements of resource plan;
5 is that correct?

6 A. That's correct.

7 Q. And let's see. Roman Numeral XII,
8 significant change, would you like to read that?

9 A. A significant change in the cost and/or
10 effectiveness of emission control technologies.

11 Q. And the next, the Roman numeral on the next
12 page, XIII?

13 A. A significant change in federal or state
14 environmental laws.

15 Q. So does this mean that if the PTC or
16 greenhouse gas emissions or renewable mandate laws were
17 changed, that KCP&L would drop its plans for the 2006 wind
18 plant?

19 A. No, I don't believe that's what it says.

20 Q. But in light of in your testimony that
21 you're putting in the wind plant to take advantage of all
22 these federal laws and regulations and tax credits, what
23 if they all disappeared?

24 A. The purpose for putting the wind in is
25 multiple and it's not necessarily singly around production

1 tax credits or a contingency around carbon dioxide
2 legislation.

3 Q. On page 4, though, if I refer you back to
4 that, you said that it would provide mitigation -- page 4
5 of your testimony, provide mitigation against the
6 potential mandate of renewable generation. You didn't say
7 what -- why you were putting in wind. So why is KCP&L
8 committed to a wind plant?

9 A. I think it's fairly well spelled out in the
10 appendix that Mr. Dottheim just submitted into evidence.
11 We did a fairly extensive analysis on wind. We looked at
12 it from a revenue requirement perspective, which is a
13 metric of ratepayer cost.

14 We did a number of sensitivities around
15 that analysis that addressed wind availability or capacity
16 factor, the cost of the wind site, the intensity of the
17 wind, the issue that lies around carbon dioxide and the
18 renewal of production tax credit.

19 And each one of those was a scenario that
20 gave us a sense of the robustness of including wind in the
21 resource plan in order to see how it mitigated against
22 each of those prospective uncertainties.

23 The purpose of why wind went into the plan
24 is that KCP&L anticipates, No. 1, that there will be more
25 available and cheaper wind in the future. We believe that

1 it can provide a component of balance in our portfolio to
2 address some of the uncertainty regarding these future
3 environmental-wise, and it will allow us a chance to learn
4 how to build and operate wind plants so that we can become
5 more experienced down the road.

6 Q. So if all those federal and state laws are
7 changed, then you're going to go ahead with this 2006 wind
8 plant?

9 A. No. The agreement right now says that we
10 will move forward with the 2006 wind plant as it's agreed
11 to today.

12 Q. As it's agreed to with the existing federal
13 and state laws?

14 A. Correct.

15 Q. So if they're changed you might not go
16 ahead with it?

17 A. Well, the changes that are listed in the
18 section of the stipulation basically only move to basic
19 discussions among the parties as to the appropriateness of
20 the -- of the plan.

21 Q. Right. But the wind plant is part of the
22 plan, so it would have to be deemed appropriate.

23 A. Well, I think you're asking if I'm
24 precluding a decision based on any one of these
25 contingencies, and I'm saying we can't necessarily

1 preclude a decision. The decision would be made by a
2 collaborative effort of those parties.

3 Q. Will the 2006 wind plant serve KCP&L
4 customers?

5 A. Yes.

6 Q. If it will serve KCPL customers, then why
7 can't you decrease the size of the coal plant? You're
8 getting 100 megawatts of wind. You're building
9 100 megawatts of wind power. You're not getting
10 100 megawatts, but why can't you reduce the size of the
11 coal plant?

12 A. Well, I think when we looked at the
13 sensitivity around size of the coal plant with the effect
14 of having wind and various components of wind in the
15 resource plan, we found that it was more expensive for
16 ratepayers to actually reduce the size of the coal plant.
17 That is in the appendix that was just submitted into
18 evidence. So it was a collaborative effort of the
19 workshop participants in this case to include the
20 500 megawatts coal plant.

21 Q. So they need 431 megawatts, but you're
22 building into the 500 megawatt coal plant, and then you're
23 going to have more megawatts with the wind plant, then
24 you're going to have more extra megawatts that aren't used
25 because you'll be supplying some customers with the wind

1 plant. And what will you do with those extra megawatts
2 from the coal plant that aren't used?

3 A. I think it's important to recognize that
4 megawatts associated with reliability, which is what we
5 need to do to maintain adequate reserve margins or
6 capacity margins to keep the reliability levels where they
7 are, is different than the amount of benefit that a coal
8 plant provides to ratepayers in the amount of energy that
9 it can provide in that energy mix.

10 So there are different reasons why coal
11 plants are justified over just capacity and capacity
12 reconciliation.

13 Q. If you build the second wind plant, will it
14 serve KCP&L customers?

15 A. Yes.

16 Q. Then there'll be another 100 megawatts of
17 energy available to the customers, so why can't you
18 decrease the size of your coal plant again?

19 A. Again, the analysis that we ran that showed
20 decreasing sizes of coal plant with increasing sizes of
21 wind prove to be more expensive to ratepayers.

22 Q. Do you have an opinion about the amount of
23 time that will be required to provide a better sense of
24 the value of IGCC?

25 A. Yes. I don't know exactly when that

1 horizon will come, but we're following that technology as
2 most people are following it and, you know, I regard it as
3 something that may positively change the way we look at
4 coal plants. But with the current level of technology and
5 the amount of commercial products that are available --
6 and when I say commercial products, being able to go to a
7 company that specializes in the design and manufacturing
8 of these type of facilities, there are no companies today
9 that can offer commercial terms and conditions and
10 performance guarantees around this technology for the size
11 that we're looking at. And, in fact, they can't even for
12 the size of the demonstration plants that have been put
13 online up to this point.

14 So from what I read, and I'm not an expert
15 totally in this area, but from what I read, the
16 developments right now are primarily in a concept of
17 taking the technology as it exists in a number of these
18 pilots and escalating it up to where it's somewhere closer
19 to a utility's scale plan, which would probably be in the
20 600 megawatt range.

21 The projects that I know about today
22 include the G.E. Bechtel joint venture on the development
23 of a commercial utility grade power plant at which they
24 estimated would probably be five to ten years out in terms
25 of its commercial viability.

1 Q. And did KCP&L give any consideration to
2 combined heat and power, and if so, what?

3 A. We looked at it, but it's something that we
4 look at fairly regularly with customers in our region as
5 to the application of that within their systems, is us
6 potentially getting energy out to a customer. So it is a
7 more specific customer-based option, as opposed to
8 something that's generic that we can just plan to target.
9 You really need a customer post that has the appropriate
10 thermal conditions and electric conditions and heat
11 requirements in order to make that technology work.

12 So looking out in the future, if it's an
13 application that would work for us and give benefits to
14 our customers, we'd certainly look at it. But it isn't
15 something that we look to see as an opportunity that comes
16 up every day.

17 Q. On page 7 of your testimony, line 3 stated
18 that KCPL would need 41 megawatts of capacity in 2010 with
19 no other changes and considering a 12 percent reserve
20 margin. Do you agree that this -- or disagree if this
21 need were met entirely with efficiency or demand reduction
22 programs, the actual shortfall to be met would be
23 385 megawatts, because the reduction of demand eliminates
24 the need for additional reserve margin? Do you agree or
25 disagree with that?

1 A. No, I agree with the concept that if you
2 add demand megawatts, then you don't have to provide
3 reserve. But let me clarify, I guess, one
4 misrepresentation. The term reserve margin is a different
5 term than the term capacity margin. They equate to the
6 same thing, but they have to do it with a mathematical
7 formula for calculating how it was arrived at.

8 The 12 percent refers to a capacity margin,
9 which is basically your capacity minus the peak divided by
10 capacity. Reserve margin is capacity minus the peak
11 divided by peak. It actually equates to something closer
12 to 15 percent.

13 Q. And are you familiar with the SCC Data
14 Request No. 4, what is KCP&L's energy and demand growth
15 rate for the past five or ten years? Are you familiar
16 with the growth rate for the last five or ten years, that
17 chart that KCP&L provided to Sierra Club?

18 A. I'm familiar with the growth rate the last
19 five to ten years.

20 Q. And that it was .81 percent for the --
21 excuse me -- .81 percent for the last five years or
22 2.2 percent for the last ten years?

23 A. Yes, something in that range.

24 Q. Would you agree that the 385 megawatt need
25 projected is toward the high end of a very large range of

1 uncertainty?

2 A. No, I wouldn't. In fact, when you talk
3 about range of uncertainty, there's a specific fairly wide
4 range of uncertainty when it comes to load, but what we
5 found is the means that we projected over the years that
6 had fairly close to 2 percent or 1.5 to 2.5 percent range
7 over that time. So we did have a period, it was a period
8 that was experienced nationally around an economic
9 recession that did have some effect on electricity usage
10 in the Kansas City metropolitan area that is reflected in
11 that prior five-year forecast that you referenced.

12 Q. Do you believe the reduction of growth for
13 KCP&L during the last five years has a relationship to the
14 broad economic impact in the United States of rising
15 natural gas and oil prices?

16 A. To some degree, but most of the rising
17 natural gas and oil prices that I've seen have been more
18 the elasticity effects of that natural gas, have been more
19 to the usage of natural gas through industrial users,
20 fertilizer plants and that such. There's very little
21 amounts of energy that are produced by natural gas in the
22 midwest. So the elasticity of natural gas to electricity
23 prices at least from the midwest sector would likely be
24 critical.

25 Q. Are you familiar with the Missouri -- the

1 Missouri users -- the Missouri retails megawatt hours
2 rates for the last five years? This was a response to
3 Data Request No. 2014.

4 A. Not specifically, no.

5 Q. It showed that the Missouri rates, that
6 users' rates had gone down by a percentage point. Not --
7 I'm not saying the exact number. I don't believe it's
8 confidential.

9 But do you believe the Missouri
10 jurisdictional customer -- since the Missouri customers
11 reduced rates, that the Missouri customer would have a
12 strong interest in avoiding a new capacity addition since
13 their contribution to growth is substantially smaller than
14 Kansas customers?

15 A. I'm not sure you can conclude that from
16 that evidence.

17 Q. Which part can't you conclude?

18 A. Can you repeat your question, please?

19 Q. Okay. The Missouri users' rate of using
20 electricity has gone down for the past five years. I
21 don't believe response 2014 is confidential. Do I have
22 that correct?

23 Okay. May I show this to the witness?

24 MR. ZOBRIST: Sure.

25 BY MS. HENRY:

1 Q. I'm going to show you what was response to
2 a Data Request.

3 MR. ZOBRIST: Mr. Grimwade, you might get
4 just a closer to the mic. Thank you.

5 BY MS. HENRY:

6 Q. According to that chart, what is the
7 Missouri jurisdictional -- what has the Missouri
8 ratepayers' electricity usage done for five years?

9 A. Please repeat.

10 Q. What has the Missouri customers' kilowatt
11 hours done for the past years? What number is shown
12 there? What has happened to it?

13 A. Are you asking what is the change in retail
14 megawatt hour usage over that period?

15 A. Yes.

16 Q. From 1999 to 2004, this says it reduced by
17 negative .55 percent.

18 Q. So would you believe that the Missouri
19 customer has a strong interest in avoiding a new capacity
20 addition given their contribution to growth is -- they
21 haven't contributed to growth?

22 A. And again, I would not conclude that from
23 this data.

24 Q. You wouldn't conclude they haven't
25 contributed to growth?

1 A. Your question was, would they agree that we
2 didn't need an additional base load plant?

3 Q. Oh, okay. And you don't agree with that
4 part of it?

5 A. I don't agree that you conclude that.

6 Q. Okay. But the data does show that they
7 haven't contributed to growth?

8 A. It's -- when you say growth, their total
9 megawatt hour usage has not grown, but there are other
10 areas that -- depending on time of use that could
11 contribute to growth.

12 Q. On page 9, line 23 of your testimony, you
13 describe the analysis of coal versus natural gas to be
14 highly sensitive to natural gas prices, and mentioned that
15 that pushes desirability of Iatan 2 earlier in time.

16 A. Yes, that was our finding.

17 Q. Could you explain why?

18 A. The amount of revenue requirements that
19 basically our ratepayers would be exposed to is a function
20 of the amount of natural gas that would be used by our
21 generation plants to produce electricity, and embedded in
22 the cost of wholesale power that we would be purchasing in
23 order to provide electricity for our customers. So as the
24 price of natural gas goes up, the costs associated with
25 this type of generation and the wholesale price of

1 electricity in the marketplace is a function of natural
2 gas and would go up as well.

3 Q. Does this suggest that reducing natural gas
4 consumption by saving electricity would be valuable to the
5 company?

6 A. It's really a function of when you would
7 reduce electricity consumption, but in general, there are
8 times when it would be beneficial, yes.

9 Q. Does this suggest that a strong end use
10 efficiency program would be a valuable addition to the mix
11 of resources proposed in the stipulation?

12 A. It suggests that we should look at that as
13 a balanced set of options for looking at how we provide
14 electricity service to our customers going forward, which
15 is a fundamental part of our company's plan.

16 Q. And when you talked about distributed
17 generation on page 16, can you distinguish that from
18 combined heat and power? What did you mean there by
19 distributed generation?

20 A. Well, I would say that distributed
21 generation -- well, let's say that combined heat and power
22 is a form of distributed generation. Distributed
23 generation generally means generation at a customer level
24 basis as opposed to a system high voltage level basis. So
25 it could include just single peaking-type generation,

1 diesel, small combustion turbines, windmills, solar-type
2 generation, or it could infer or could apply to combined
3 heat and power cogeneration systems.

4 Q. Are you familiar with when KCP&L will file
5 its next IRP?

6 A. I think that's a subject of the regulations
7 that are being discussed right now at the state level. So
8 I don't know specifically when that requirement would be.

9 Q. So it's not planning to file one in July of
10 this year?

11 A. No.

12 MS. HENRY: Okay. Thank you. I have no
13 further questions.

14 JUDGE PRIDGIN: Thank you. And this looks
15 to be a natural time to take a break. I show the clock to
16 be about 2:45 there in the back. Let's try to resume at
17 about 3 o'clock.

18 (A BREAK WAS TAKEN.)

19 JUDGE PRIDGIN: We're ready to go back on
20 the record. When we went off the record, I think we ended
21 cross-examination from the parties, and I'll see if we
22 have any questions from the Bench for Mr. Grimwade.
23 Commissioner Gaw?

24 QUESTIONS BY COMMISSIONER GAW:

25 Q. Good afternoon, Mr. Grimwade.

1 A. Good afternoon.

2 Q. Let me -- I have a few questions, and I
3 will probably be bouncing around a lot. I apologize for
4 that ahead of time. You are in -- who's your security
5 coordinator?

6 A. Southwest Power Pool.

7 Q. And how long have they filled in that
8 capacity?

9 A. I don't know the answer, but it's been as
10 long as I've been with the company.

11 Q. A long time?

12 A. It's been a long time.

13 Q. And now recently Southwest Power Pool, SPP
14 for short, has been approved by FERC to become a regional
15 transmission organization; is that correct?

16 A. Yes, they have.

17 Q. All right. And are you familiar with the
18 2004 state of the market report from the Southwest -- of
19 the Southwest Power Pool that was prepared by Boston
20 Pacific Company, Inc., the independent market monitor for
21 SPP?

22 A. No, I'm not specifically familiar with that
23 report.

24 Q. Would you have -- let me ask you this: If
25 there -- if that report suggested, had within it

1 description of generation capacity by fuel type within the
2 SPP region, would you be familiar with numbers in regard
3 to generation capacity by fuel type?

4 A. In general I would, yes.

5 Q. I'm going to ask you if these -- and I wish
6 I had an additional copy of this, but I don't have one, so
7 I apologize for that as well.

8 There's a -- if there was a suggestion in
9 that report that within SPP natural gas is the primary
10 fuel for 55 percent or 30,551 megawatts of total
11 generating capacity in SPP, would you think that would
12 sound accurate?

13 A. Yes. Natural gas in the SPP is a fairly
14 predominant incremental fuel source, which means most of
15 the incremental megawatts that are occurring on peak times
16 come -- actually some of the shorter times come from
17 natural gas.

18 Q. And are you familiar with AEPW, or I think
19 that's AEP West?

20 A. Yes, that's the central and southwest
21 component of AEP.

22 Q. Where are they generally located?

23 A. Oklahoma and Texas primarily.

24 Q. All right. And OKGE, I think they go by
25 something that sounds like those letters together, but do

1 you know what that is?

2 A. I believe it's Oklahoma Gas and Electric.

3 Q. And where are they located generally?

4 A. Primarily central Oklahoma, central eastern
5 Oklahoma.

6 Q. If I said that -- if I -- would you be
7 surprised if this report said that natural gas-fired
8 capacity in SPP can be broken down so that 36 percent can
9 be found in the AEPW control area and 17 percent in the
10 OKGE control area, would that be surprising to you?

11 A. Referring to capacity or --

12 Q. Capacity. Capacity. Generation capacity.

13 A. It would not be surprising to me.

14 Q. All right. And then if it said coal is the
15 second most prevalent fuel source for power generation in
16 SPP, would that surprise you?

17 A. No, it wouldn't.

18 Q. And would it surprise you if it said that
19 it represents about 36 percent or 20,330 megawatts of
20 capacity in SPP? Would that surprise you?

21 A. No, it wouldn't.

22 Q. Would it surprise you if it said that load
23 is less than 20,000 megawatts 33 percent of the time in
24 SPP?

25 A. What did they refer to as the peak again,

1 30 --

2 Q. That load is less than 20,000 megawatts
3 33 percent of the time. I'll show this to you if you want
4 to read it, because it's hard to do this this way, I know.
5 Let me finish the sentence out. And approximately 15,000
6 megawatts of capacity operates in SPP during all hours of
7 the year.

8 A. I tend to believe that, yes.

9 Q. Okay. And if it suggested that
10 approximately 18 percent of the coal generation can be
11 found in AEPW, would that sound correct to you?

12 A. Again, it sounds reasonable.

13 Q. And if it said that KCP&L and WERE each
14 have 15 percent of the coal generation in their control
15 areas, would that be a surprise?

16 A. I guess I don't have a feel for that.
17 Predominantly, there's --

18 Q. If I drop out WERE?

19 A. That's Western Resources?

20 Q. Yeah.

21 A. It seems reasonable again, but --

22 Q. Okay. Would it -- is it accurate to say
23 that when we're looking at where the -- where there are
24 significant areas in SPP of base load capacity, one of
25 those areas is the KCP&L zone?

1 A. Yes. It's -- the northern part of SPP has
2 had a higher percentage of coal than the southern part of
3 SPP generally.

4 Q. And the southern part of SPP is more gas
5 oriented, and the northern is more coal oriented; would
6 that be accurate?

7 A. Yes.

8 Q. Now, in regard to SPP itself -- and if I
9 get into any HC material, just somebody signal me -- but
10 tell me again how it breaks down in between base load
11 generation and peaking facilities.

12 A. For Kansas City Power & Light?

13 Q. On capacity, yes.

14 A. I don't know if I have those specific
15 numbers in front of me, but you know, I believe the
16 numbers were somewhere around 50 percent of our capacity
17 mix is in the form of coal, probably around 20 percent in
18 the form of gas, probably 5 percent in the form -- maybe
19 10 percent in the form of oil. There's a component of
20 nuclear that's probably somewhere in the 5 to 10 percent
21 range.

22 Q. Nuclear would be considered base load as
23 well, would it not?

24 A. Yes, it would.

25 Q. So based on a total load capacity to

1 non-base load capacity for KCP&L, what is your percentage
2 of -- approximate percentage of base load capacity?

3 A. Again, without having the numbers, I'd
4 guess it's probably close to 60 percent.

5 Q. And is that a figure that you would say is
6 optimal for the native load that you have?

7 A. Well, I think it's a function of where you
8 are in looking at natural gas and the other components of
9 your portfolio. So as we've grown into the base load that
10 was built back in the late '70s and early '80s with Iatan
11 and Wolf Creek, Lacine 2, we've basically been able to
12 live off of that existing base load for almost
13 20 years.

14 We're getting to a point where we are
15 growing out of that as a company. We are growing out of
16 it as a region, and we are moving fairly quickly to where
17 the mix is changing or the optimal mix requirements are
18 changing because of the function of the way natural gas
19 price has moved over the last five years.

20 Q. And how does that impact what is optimal --

21 A. It would actually --

22 Q. -- change in natural gas prices?

23 A. It takes the amount of mix that you would
24 have from either combustion turbines or combined cycles
25 and it pushes to where the optimal capacity factors on

1 that gas-fired generation would go down and the amount of
2 coal energy in your portfolio would go up.

3 Q. When you're dealing with a coal-fired
4 plant, do you generally want to run that all of the time,
5 except for maintenance, or a portion of the time or little
6 of the time? Give me some idea what you're aiming for.

7 A. Yes. It's again a function of the other
8 components of the portfolio, but typically coal units are
9 optimal when they run 65 to 70 percent capacity factor and
10 above.

11 Q. What does that mean, 65 to 70 percent
12 capacity factor?

13 A. Well, technically it's the amount of energy
14 that's produced off the plant as a function of what the
15 plant's capable of producing.

16 Q. Okay. Now, is that a reflection of the --
17 of the amount of time that it's actually running or the
18 percentage of energy it's generating relative to its
19 capacity at a particular point in time?

20 A. It's typically --

21 Q. Or a mix of both?

22 A. It's a mix of both, yes.

23 Q. Break it down for me on days of the year,
24 out of 365, that you would normally see your coal plants
25 running.

1 A. Typically with outages, of course, and coal
2 plants have outages that range anywhere between a week and
3 seven or eight weeks, depending on what type of
4 maintenance is being done, but the remainder of the hours
5 per year a coal plant would typically operate, be
6 operational the remaining of those hours of the year when
7 it was available.

8 Q. And tell me -- I'm sorry. I think I jumped
9 over what you said. How many days would that normally be
10 a year?

11 A. That would be the 365 minus whatever normal
12 maintenance outage days you would have and forced outage
13 days that you have.

14 Q. All right. Normal maintenance, planned
15 maintenance for your coal plants I'm sure would vary
16 depending upon age and other factors, but do you have an
17 average that you would say you could point to for planned
18 outages for your coal plants in a year?

19 A. Sure. For non-major outage, a typical coal
20 plant planned outage is around one to two weeks a year.

21 Q. Okay. When do you try to do those planned
22 outages?

23 A. It's getting a little more tricky than it
24 used to be. It used to be we tried to plan them in the
25 spring and fall. Now, with the timing of other plants and

1 some of the volatility we're seeing in the spring and
2 fall, it gets a little bit tighter to where it's really
3 the end of February, March and April in the spring, and
4 probably October, November in the fall, maybe into
5 December a little bit.

6 Q. Okay. And then you also have outages that
7 are unplanned, and is there an average that you would
8 expect out of those unplanned outages?

9 A. Yeah. Typically our plants have I would
10 guess equivalent forced outage rates of somewhere between
11 5 and 8 percent, which means they're either out or derated
12 for a portion of the year.

13 Q. And that's not counting anything that might
14 have occurred as a result of the one plant that you had a
15 few years ago that was down for a considerable period of
16 time because of an explosion, right?

17 A. Those would be independent of that, yes.

18 Q. Okay. Now, in regard to looking at how the
19 natural gas prices are impacting the running of your coal
20 plants, does it mean currently without the additional --
21 considering an addition of more coal plants, that you
22 might run coal plants at a higher rate than you would
23 otherwise because of natural gas prices, or is it really
24 more of a function of whether or not it is -- it becomes
25 easier to build a coal plant or cheaper to build a coal

1 plant earlier, even though the capacity or the energy need
2 might not have been at the same -- at the same level?

3 Let me ask that again. That was too
4 confusing.

5 Tell me how the impact of natural gas
6 prices influences your decision to build a new coal plant.
7 And be somewhat specific for me on how the prices impact
8 that decision.

9 A. The way we translate natural gas is in the
10 way we did our integrated resource plan. We used varying
11 forecasts of natural gas that were based on primarily some
12 projections that were made by the National Petroleum
13 Council in a September 2003 report that they made to the
14 secretary of the Department of Energy, Secretary Abrams.
15 And in that report they provided some fundamental views of
16 what they thought natural gas would look like going over
17 time.

18 So when we ran the integrated resource plan
19 analysis, we incorporated both a base and a high gas price
20 forecast into that analysis. And then we looked for a low
21 gas price analysis that we really couldn't support with
22 the existing fundamentals, but we got it from a 2002
23 Energy Ventures analysis that we believed was at least a
24 proxy for what natural gas could do on the low side, even
25 though we couldn't support it with the current

1 fundamentals that we did the analysis of in 2004.

2 That analysis when you take natural gas and
3 it affects how it translates into the revenue requirement
4 analysis in several ways.

5 The first way is we project what we believe
6 the natural gas price effect on the wholesale electricity
7 market will be, and we run a fundamental, it's kind of a
8 fundamental technical model that looks at a combination of
9 a number of things in the eastern interconnect, including
10 natural gas price, the coal price, the units that are
11 constructed and the units that are available in that
12 market.

13 And then we develop a forward price curve,
14 and then we run that in our KCPL proprietary model to
15 where we're looking at dispatching our existing fleet and
16 what resources we might add to that fleet in order to get
17 a sense of what the dispatch costs will look like.

18 And we run that over a period of time, over
19 a 20-year horizon, and then we take that, along with
20 capital costs associated with each of those resource
21 alternatives, and we net present value back to current day
22 dollars for net present day dollars revenue requirements.

23 So natural gas influences not only the
24 market price that we're actually dispatching into and
25 buying from and selling to, but it also influences the

1 costs of specific generation alternatives that we have in
2 the portfolio that we're designing.

3 Q. And you would have similar ranges for the
4 price of -- anticipated price of coal?

5 A. Yes, we would.

6 Q. Also transportation by -- of coal by rail?

7 A. Yes.

8 Q. That would be a factor that you would have
9 to look at forecasts in plugging values in?

10 A. Yes, we have that.

11 Q. I'm sure there are a number of other things
12 as well that would be variables, but those things would be
13 for sure?

14 A. Yes, they would.

15 Q. So was there -- in looking at that, was
16 there a break-over point on the price of natural gas
17 where, if it were lower than a certain amount, that it
18 would be more advisable not to build a coal plant but to
19 look at some other kind of generation facility for
20 anticipated growth?

21 A. Well, we didn't necessarily look at a
22 bus bar-type thing where a specific dollar per million BTU
23 cost for gas would create that flip point, but we did
24 assess the three natural gas price expectations or
25 forecasts that we ran. And what we found is with the base

1 forecast and the high forecast provided by the National
2 Petroleum Council, the coal option was superior to the
3 natural gas options or the other options that we looked at
4 in the plan.

5 And I should note that I did a comparison
6 the other day just to what Henry Hub's natural gas price
7 forecast looks like over the next 18 months, and I think
8 as someone alluded here earlier, the February forecast for
9 '06 is approaching a \$9 figure right now, which far
10 exceeds the high natural gas forecast we used in the 2004
11 analysis.

12 Q. Of course, if prices were up higher than
13 what you had in your model, that would translate into
14 making coal even more preferable in comparison to a
15 natural gas solution?

16 A. Yes, it would.

17 Q. If you were looking at, then, the total
18 cost of things in your model, what if any -- what did you
19 put in for cost resulting from additional environmental
20 controls that might come into existence that are not
21 currently in existence today, if anything?

22 A. Are you referring to environmental
23 regulations and legislation or --

24 Q. Yes, that might cause you to -- or maybe
25 rules, but those things that might cause you to have to

1 retrofit what you're building or might be building with
2 plant that you were running through the model?

3 A. Right. We had basically ran several
4 analyses around sensitivities of pending legislation, is
5 how we kind of look at it, and we looked at how
6 legislation was framed in the Clear Skies proposal. We
7 looked at the Keene/Lieberman proposal. We looked at the
8 Jeffers proposal, and we looked at I think Kyoto in terms
9 of the CO2 proposals.

10 Q. Okay.

11 A. Then we used various sources that were
12 available, including the Energy Information Agency of the
13 Department of Energy. The EPA offered some projections on
14 emission allowance price forecasts, as well as the effect
15 of what carbon and carbon dioxide reduction might have on
16 the price of electricity. For each of those, we
17 synthesized scenarios around those various forms of
18 legislation to see what the net effect would have on our
19 plan.

20 Q. What did you find in those various runs?

21 A. Well, in general, we -- we put a fairly
22 high probability on at least compliance, increased
23 compliance for sulphur dioxide, nitrogen oxides and fine
24 particulate, primarily because of the timing of the Clean
25 Air Interstate Rule that was proposed by the EPA last

1 year.

2 So we were acting a lot of this analysis in
3 pretty much the time frame that we had proposed rulemaking
4 already established. So we framed some scenarios as to
5 what our specific PCPL compliance strategy might look
6 like, which resulted in some of the options that have been
7 provided in the comprehensive plan.

8 For the CO2 analysis, that was a little bit
9 broader, and we looked at that from two different
10 perspectives, one as just a pure CO2 effect that would
11 have on -- if you set a cap for CO2 at some of the more
12 stringent levels, how much coal-fired energy would have to
13 be reduced in order to meet that cap. And then we made
14 some fundamental assumptions as to what happens with the
15 remaining dynamics of the market, including natural gas
16 price, in order to accommodate that kind of change.

17 And we have basically a scenario that shows
18 the effect of carbon dioxide, increased carbon dioxide
19 would have a negative effect on the value of a coal plant
20 built in 2010. But when you combine that with the
21 assumption that natural gas prices would be responsive to
22 the amount of demand that would have to take place in
23 natural gas to make up for the loss of the coal-fired
24 generation, that elastic effect on the price of natural
25 gas would actually make the coal plant more economic and a

1 reasonable choice primarily because of its cost
2 effectiveness and the efficiency of that alternative
3 compared to the existing coal-fired generation that's
4 there.

5 Just to have a point, I was looking through
6 a document last week that just happened to be a summary on
7 gasification technology from EPRI. They did make a
8 comment in there that substantiated the assumption that we
9 made, and if I may, I'll just read this. It talked about
10 any legislation related to the reduction of CO2 emissions
11 is very likely to exert upward pressure on natural gas
12 demand and prices.

13 Q. So in other words, the idea would be that
14 if you started putting upward -- putting more restraint on
15 the amount of emissions, carbon dioxide emissions that
16 were occurring, that would likely force more pressure to
17 spin turbines with natural gas, which would cause more
18 demand on natural gas, which would presumably increase the
19 price of natural gas even further?

20 A. Yes.

21 Q. Am I following you?

22 A. I think that would be one dynamic. But I
23 think the other dynamic that we would see is that you
24 would see a reduction in the amount of coal-fired
25 generation, but it would come predominantly from those

1 units that are old, like our Montrose plant, that are 60
2 years old or will be 60 years old at the time we put
3 Iatan 2 online, that have relatively high heat rates as
4 compared to new generation. So those will be the first
5 ones that would typically drop out of dispatch.

6 Q. Is there a difference on the carbon
7 emissions on the older plants?

8 A. Well, it's a function of heat rate, so the
9 amount of BTUs per kilowatt hour you require produce a
10 kilowatt hour.

11 Q. So in essence, there's less carbon emission
12 per kilowatt hour?

13 A. Yes.

14 Q. Not that there's less carbon in that coal,
15 but you're generating less per unit of energy?

16 A. You're using less coal.

17 Q. Now, what does that do? What -- I'm just
18 curious. When you ran your model, did that also produce a
19 per unit cost of electricity? When you were running your
20 models about how to impact natural gas, I assume it was
21 also producing this -- you could have calculated some
22 assumption on how much you were -- your electric costs
23 were per kilowatt hour?

24 A. Yeah, we -- I'm not sure we actually
25 created that statistic --

1 Q. You could have?
2 A. -- in the model.
3 We generally looked at the net delta and
4 revenue requirements.
5 Q. I don't know if I could stand knowing what
6 that would be and sit in my chair, but you're telling me
7 you did not run that specific -- the model for that
8 specific result, so you don't know?
9 A. The model calculated the result, but no, I
10 don't have that.
11 Q. So it did calculate the result?
12 A. Yeah. I could probably get that for you if
13 you'd like to see it.
14 Q. I don't know if I can stand seeing it
15 because I'm afraid of what it says, but I would like to
16 see it.
17 A. I can give you some indication what the
18 revenue requirement impact would be with that case.
19 Q. Would you do that?
20 A. Yes. I'm going back to an early IRP
21 presentation that KCP&L made to the MPSC Staff and OPC,
22 May 12th of 2004. If I'm looking at the 2000 scenario
23 where a coal unit is built in 2010, the base without a
24 carbon tax had a net present value revenue requirement of
25 \$10,235,000,000. With the carbon associated with one of

1 the less stringent carbon reduction legislations, the
2 Clear Skies legislation, there was a net increase to
3 \$10,602,000,000, so somewhere in the order of
4 \$373 million.

5 Q. Okay. What about something that was
6 more -- that actually had some significant carbon
7 restrictions, more than just the minimum that you might
8 see on emissions from Clear Skies?

9 A. I'm not sure I have that particular
10 scenario, but we can get that for you.

11 Q. I'm assuming that some of them could be
12 significantly more than that?

13 A. Yes, they could.

14 Q. Okay. If you could, that would be helpful
15 to see. Give me an idea about -- I'm going to backtrack
16 for just a moment -- an idea about what your base load
17 percentage will be after this plant is constructed, if you
18 can tell me what that would be.

19 A. I can't give you the exact number. I'm not
20 sure where it is, but --

21 Q. Can you give me an estimate?

22 A. Well, we're adding 500 megawatts of coal to
23 roughly probably something like 2,000 to 2,100 megawatts
24 of coal.

25 Q. And we can figure out -- if everything else

1 stayed the same, of course, we know there's some wind
2 coming on, so that wouldn't be the case, but if everything
3 else remained the same, what's your total capacity now we
4 were talking about if -- I want you to add the nuclear in.
5 I'm looking for coal and nuclear as a percentage of your
6 total capacity.

7 MR. ZOBRIST: I think we gave Mr. Ford a
8 DR, and I'm not sure.

9 COMMISSIONER GAW: It has that?

10 MR. ZOBRIST: Yeah.

11 COMMISSIONER GAW: That would be great.

12 MR. ZOBRIST: I'll give it to Mr. Grimwade.

13 COMMISSIONER GAW: That would be great.

14 Yeah, I'm just looking for the information.

15 THE WITNESS: Just to repeat the numbers on
16 this Data Request, nuclear is 548 megawatts, which
17 represents -- I believe this is a 2000-- this doesn't say,
18 but I believe it's 2005 capacity. That represents
19 13.5 percent of our total. Coal is 2243 megawatts,
20 representing 55.3 percent. Natural gas is 808 megawatts,
21 representing 19.9 percent.

22 BY COMMISSIONER GAW:

23 Q. Let me ask you real quick, the natural gas
24 component, are those all peaking or is some of that
25 combined cycle?

1 A. The combined cycle, there is some combined
2 cycle that's made up Hawthorn 9 plant, which is a
3 repowering of the Hawthorn 6 combustion turbine, and the
4 old Hawthorn 4 steam turbine.

5 Q. Now, do you know off the top of your head
6 how many of that 808 is combined cycle?

7 A. It's roughly about 260 to 270 megawatts.

8 Q. That's fine. I interrupted you. Go ahead.

9 A. Fuel oil component is 460 megawatts, which
10 represents 11.3 percent.

11 Q. Okay. No hydro, right?

12 A. No. We do have some purchase contracts
13 that come and go off of that, as well as some sales
14 contracts that are selling off of that.

15 Q. Sure. Now, so we'd be adding in that
16 500 base load on top of that, so our percentage -- is our
17 percentage anticipated on base load to actually increase
18 over and above that 68.8 percent?

19 A. Yes, it would.

20 Q. Okay. Now, is that figure, that percentage
21 of base load something that is about average for utility
22 companies, electric utility companies, below average,
23 above average, would you say?

24 A. Well, I think it's probably somewhat
25 average for midwest utilities.

1 Q. All right.

2 A. But it really is a function, again, of what
3 load factor is and the timely use of electricity.

4 Q. I understand.

5 A. The type of units that you have and the
6 size of units that you have.

7 Q. But you think that's a fairly average
8 figure for the midwest?

9 A. Without looking at specific other -- we
10 were a fairly close representation of what's in
11 Mid-American or Ameren. I think we're fairly close on
12 that.

13 Q. All right. If we were comparing you to
14 some midwest, even Missouri utilities, that might be much
15 higher percentage of base load, might it not?

16 A. Yes. There are some utilities in Missouri
17 that are a much higher percentage of natural gas.

18 Q. But that higher percentage of natural gas
19 in their portfolio makes them more subject to changes for
20 natural gas?

21 A. Yes, it does.

22 Q. I'm going to go back with you again back to
23 the discussion on environmental costs, and you mentioned
24 the IGCC technology. Is there -- are you familiar with
25 whether or not there is a point where environmental --

1 additional environmental requirements make IGCC
2 technology -- put it on an equal footing on cost to a
3 pulverized plant? Do you know?

4 A. I don't know of a specific point where that
5 occurs, but the relative dynamics of that, if you look at
6 various environmental costs associated with that --

7 Q. Yes.

8 A. -- the sulfur dioxide removal of the newer
9 supercritical pulverized coal plant is fairly comparable
10 to what you get out of IGCC, at least on paper.

11 Q. Did you say -- I'm sorry. Did you say NOx
12 or sulfur?

13 A. This is sulfur dioxide. NOx is actually
14 probably about equal.

15 Q. Okay.

16 A. There's been some work with putting
17 selected catalytic reduction on IGCC that's proved to be a
18 little more difficult. So the numbers that we're looking
19 at for an Iatan 2 type facility are very comparable to
20 what you'd see with an IGCC plant. I think the things
21 that we're looking at in terms of the more promising
22 aspects, if you look at the particulate and SO2 and NOx,
23 there's not a whole lot of difference.

24 If you look at the heat rate effects of
25 IGCC versus supercritical pulverized coal, the newer

1 technologies that we're looking at with supercritical,
2 with higher pressures, higher temperatures, better
3 metallurgy in the furnace, better metallurgy in the
4 turbine, you're looking at heat rates that are comparable
5 to the high 8000s to low 9,000s, so around 9,000 is what
6 we're looking at for Iatan 2.

7 Q. Would you translate that for me? When you
8 get into a heat rate that's 8 to 9,000, what does that
9 mean?

10 A. It means that it takes 9,000 BTUs for every
11 kilowatt hour that you would produce in that plant.

12 Q. And compare that to something that would be
13 a more traditional coal plant that was not a supercritical
14 plant.

15 A. The typical subcritical plants like Iatan 1
16 that were built probably back in the late 1970s have heat
17 rates that are in the -- in the area of around 10,200 to
18 10,300 roughly BTUs per kilowatt hour. The older plants
19 when you get back to something that is the vintage of a
20 Montrose station that was built in the late '50s and early
21 '60s, the size and temperature and pressure of that plant
22 equate more to something that's in the low 11,000 BTUs per
23 kilowatt hour.

24 So in comparison to an IGCC, and this is
25 something that's probably important to point out, I think

1 it's widely misunderstood by people that look at and study
2 IGCC technology, is that most of the IGCCs that are
3 operating in pilot today are operating on petroleum coke,
4 and there are some that are burning some lower-grade
5 bituminous fuels, but there is a fairly -- at least in
6 terms of some of the research data that we're looking at,
7 a fairly significant increase in cost and decrease in
8 efficiencies as you move to burning the Powder River Basin
9 coals which are prevalent in this part of the country.

10 Q. Uh-huh.

11 A. So it would be likely if KCP&L were to
12 progress where we built an IGCC plant in the future, we
13 would look at Powder River Basin most likely as a fuel
14 source. And to give you some comparison based on an EPRI
15 report that we looked at here recently, this 2004
16 September gasification technology status report produced
17 by EPRI, they used in comparison for Powder River Basin
18 coal for IGCC something in the range 9,553 BTUs per
19 kilowatt hour, with a cost component that's -- have to
20 interpret that, but the cost multiplier is something in
21 the 1.2 to 1.25 range for IGCC with Powder River Basin
22 coal.

23 Q. What does that mean, the cost multiplier?

24 A. Whatever the base cost would be for this
25 continuing analysis, which would probably be in the \$1,400

1 per KW range to \$1,600 per KW range, you take that and
2 multiply that by the cost multiplier, come up with what
3 the equivalent would be if you were to build this to
4 design for Powder River Basin coal.

5 Q. Okay. As a pulverized coal plant?

6 A. As an IGCC.

7 Q. Okay. Now, what I'm trying to do is to get
8 a grasp of making that comparison of that number to what
9 you would get on a pulverized coal plant.

10 A. The typical numbers for Powder River Basin
11 PC or pulverized coal supercritical plants range anywhere
12 between 11 or 1200 BTUs per kilowatt hour up to probably
13 14 or \$1,500 per kilowatt hour. It really is a function
14 of the site conditions, whether you're building adjacent
15 to an existing plant, the -- you know, the amount
16 of activity in the marketplace and the demand for
17 equipment.

18 Q. Okay. So if you were looking -- if you
19 were doing an IGCC plant at 900 megawatts -- and I realize
20 there are all sorts of issues about doing a plant of that
21 size, but give me an idea about the cost comparisons, if
22 you can do that fairly easily.

23 A. Working just from what I think is -- I
24 believe it's somewhere in the \$1,600 range, but for IGCC
25 it's highly dependent on a lot of other things that you're

1 looking at, in terms of reliability today requires
2 multiple gasifiers in order to have the same availability
3 as what you would have for a typical pulverized coal
4 plant.

5 Q. And what's our figure for the plant that
6 you propose?

7 A. Right now, with our contingency number is
8 around 1,430, somewhere in that range.

9 Q. Okay. And if I were to look at the
10 advantages of the IGCC, then, what would they be,
11 carbon --

12 A. I think there's --

13 Q. -- and maybe mercury?

14 A. There's some probably potential for
15 mercury, although when you get into some of the
16 technologies that we're looking at with supercritical
17 pulverized coal, the research that's being done right now,
18 and I think somebody mentioned earlier with the selected
19 catalytic reduction, the placement of a baghouse prior or
20 after that selected catalytic reduction that some
21 oxidation occurs, so the mercury in the catalyst is
22 removed in the baghouse.

23 Then there's some additional removal in a
24 wet scrubber with what we're proposing, and there's a lot
25 of technology right now around certain either absorbents

1 that you would put into the gas stream to -- a carbon
2 injection to remove mercury, or some of the more promising
3 ones are probably more related to certain salts like
4 chlorides and bromides that you actually inject into the
5 combustion zone, which would oxidize the mercury that
6 point and result in fairly high captures in that equipment
7 that we're looking at installing.

8 The potential right now, the assumption is
9 at that we have a fairly good belief that we're going to
10 get at least 70 percent removal. The assumption is, with
11 certain enhancements, that we may actually be able to get
12 90 or 90-plus removal of mercury, which is comparable with
13 what they're talking about --

14 Q. With IGCC?

15 A. -- with IGCC.

16 So I think the promising things that we see
17 is, I think Mr. Ford referred to some sequestration
18 efforts that are going on right now with primarily the
19 Future Gen, which is touted as a zero emissions power
20 plant. And the primary attribute of that effort is to
21 look at sequestration of CO2 to where you can actually
22 minimize or mitigate the amount of CO2 that's produced by
23 burning coal.

24 Q. Is there any geographic capacity that
25 you're aware of at the Iatan site that would provide for

1 that at some point in the future?

2 A. Provide for the Future Gen project?

3 Q. Yes.

4 A. There's geographic capacity, yes.

5 Q. Below where Iatan is located?

6 A. In terms of the site and site parameters,
7 yeah. I should mention that I am on the task force which
8 is part of the effort in Kansas to look at Future Gen as a
9 state. There is discussion in Missouri that we're talking
10 about forming a task force to look at it as a Missouri
11 effort as well.

12 Q. Okay. Now, just a little more on IGCC. I
13 asked, I think it was Mr. Ford earlier about AEP
14 announcing that it intended to build up to a 1200 megawatt
15 -- up to 1200 megawatts of new generation with IGCC
16 technology. Are you familiar with that?

17 A. I'm familiar with the discussions and the
18 press releases and some of their strategy, yes.

19 Q. Can you give me a little information about
20 what you know what their plans are and, if you know, why
21 they've stated they want to go that way?

22 A. I think -- I'm not sure exactly why they
23 stated it. I think they believe that there's some
24 potential for IGCC, as do we. I think there's some
25 potential for IGCC. What I understand, they've agreed to

1 under the concept of IGCC, and they've recently issued a
2 press release -- I say recently, probably within the last
3 month and a half -- to work with General Electric and
4 Bechtel in their joint venture to develop a specific cost
5 structure and feasibility of that.

6 So I think the process is to understand the
7 cost and understand what the design and logistics of that
8 design would be, and then make a decision as to whether
9 they would move forward or not. Some issues about AEP
10 compared to KCPL --

11 Q. Yes, go ahead.

12 A. They've got capacity. And I don't know the
13 exact number, but it's probably something in the order of
14 30 megawatts.

15 Q. They're a much bigger company?

16 A. Compared to our 4000 megawatts, so for them
17 to undertake a project of this type with I'm assuming
18 their regulatory approvals as well, to do this, which is
19 my understanding is that they'll agree to move forward if
20 they have consensus from the regulators to do that, but
21 it's a much different risk proposal for AEP to undertake
22 that type of project than it is for a company like KCPL,
23 with the size and type of units that we have in our fleet.

24 Q. You're suggesting that it's much riskier
25 for KCPL because of the relative size of the project to

1 your total generation assets?

2 A. That is correct.

3 Q. Would it make any difference that -- as to
4 the coal that might be utilized by AEP in that project
5 compared to what you would be utilizing from the Powder
6 River? I'm not clear about their coal source, but it
7 appears that they're operating out of Ohio and Kentucky.

8 A. Yeah. And I would say that's probably one
9 of the attributes that makes AEP, potentially Synergy,
10 maybe Southern Companies as good candidates for working
11 with these consortiums to develop this technology. They
12 are looking at lower grades of eastern bituminous fuel
13 that has higher sulfur, has less applicable value in a
14 pulverized coal plant and it has some fairly high interest
15 among the states of Ohio, West Virginia, Kentucky to look
16 at -- and I believe Indiana and Illinois as well, as to
17 looking at that to basically revive their state mining of
18 that fuel and have more applicability for that for local
19 economies. So there's a cumulative interest in seeing
20 this technology evolve in those states.

21 Q. In looking forward here, I understand that
22 KCPL has made a decision that pulverized coal
23 supercritical plant is the most prudent selection at this
24 point in time in moving forward, over and above an IGCC
25 plant. That would be correct, correct?

1 A. For those specific technologies, yes, we
2 believe a PC supercritical is better technology than IGCC
3 at its current level of development.

4 Q. If there were changes in regard to the
5 carbon issues prior to 2010 from -- out of Congress, would
6 that impact what you believe to be true in regard to a
7 pulverized coal plant as compared to an IGCC plant?

8 A. Yes, I would still say it's true, and
9 probably for several reasons. One is --

10 Q. Go ahead.

11 A. -- if you look at the --

12 Q. Because I suspect that someone will be
13 looking back on this one of these days, and I'd like to
14 make sure that we have examined these issues to the best
15 of our ability. So give me your take on it, and of
16 course, we'll be asking that of Staff a little later, and
17 maybe DNR as well, so -- well, maybe next week.

18 A. I think there's several significant reasons
19 why that would -- why the case would be that the
20 pulverized coal -- the supercritical pulverized coal would
21 still be the preferred choice. The first would be that
22 it's unlikely that any form of carbon legislation or
23 carbon reductions would eliminate coal as a viable
24 resource for some portion of our national energy mix. And
25 the more efficient, the more newer plants that are

1 designed to burn cleaner but less coal, produce less
2 carbon, are going to be the ones we'll prefer to have in
3 our portfolio.

4 We probably will make different decisions
5 regarding the older type of plants that exist, like
6 Montrose and the 60-year-old type of plants that aren't
7 very effective.

8 The other reason I think is that if you
9 look at the timeline for having an effective sequestration
10 strategy in place, just look at the Future Gen timeline of
11 when they expect that, if this proves to be something that
12 works, the timeline is probably somewhere in the 2015 to
13 2020 time frame of seeing a viable application of
14 sequestration technology. That's not to say it couldn't
15 come sooner, but that's kind of a timeline.

16 So assuming that this plant is it built and
17 is operating more efficiently, more effectively than the
18 other plants in the system, if we were to get that type of
19 carbon legislation proposed, it would be the Montrose
20 plant and some of the others that would likely be retired
21 and removed with new options for new assets.

22 Q. Let me move on a little bit here. What is
23 the rating that SPP gives -- and this may have been asked
24 and answered -- for wind in regard to capacity, do you
25 know?

1 A. It's a function of the site and site
2 conditions, but we're using right now, based on the white
3 paper rules that they've given, a number of around
4 7 percent, so 100 megawatt plant would have a 7 percent
5 accredited capacity.

6 Q. And is that for purposes of determining its
7 value as a designated network resource for purposes of
8 transmission construction as well? Is that -- would that
9 be accurate or not?

10 A. Well, I think the rules around network
11 service and what constitutes the amount of capacity from a
12 transmission perspective would be both a function of the
13 capacity, accredited capacity, as well as the expected
14 energy flow on those transmission lines.

15 Q. So what does that mean?

16 A. It isn't solely a function of the
17 accredited capacity.

18 Q. Okay. But the accredited capacity in SPP
19 would average 7 percent?

20 A. For wind generation.

21 Q. For wind?

22 A. Yes.

23 Q. What is a figure for coal?

24 A. Coal is based on what your capability of
25 the specific unit is, so you would have to test every

1 three years and prove its capability.

2 Q. Is there an average for coal?

3 A. It's generally whatever the design capacity
4 of the unit is.

5 Q. But overall, have you ever seen an average
6 figure for coal plants in the SPP region?

7 A. Well, no, because they vary.

8 Q. They vary too much?

9 A. You have a lot of 700 megawatts,
10 800 megawatt units, and you have some 100 and 200 megawatt
11 units, so they're all depending on what the size of the
12 units are.

13 Q. Okay. I understand, but you gave me a
14 percentage figure for wind.

15 A. To put it on a apples to apples --

16 Q. That's what I'm looking for.

17 A. -- it's a hundred percent of what the unit
18 would be capable of.

19 Q. That's what I was asking. I'm sorry I
20 didn't ask it clearly enough. And would that be true
21 of -- what is less than 100 percent -- what other plants
22 are less than 100 percent generating units?

23 A. Typically most units that are solely for
24 the production of electricity, like combined cycles,
25 combustion turbines would be 100 percent of their rated

1 capacity.

2 Q. Okay.

3 A. The only difference would be something that
4 you would have some variability say is if you combined
5 heat and power to where you could make a thermal versus
6 electrical decision and target that to a time of day. So
7 you could influence that on that type of unit. Most of
8 the other units would be 100 percent.

9 Q. What about hydro?

10 A. Hydro would be the other exception, yes.

11 Q. Do you know what that percentage is
12 generally?

13 A. Well, it would be a function of whether
14 it's run a river or a storage type.

15 Q. Okay. How about storage?

16 A. Storage would be probably closer to
17 100 percent with factors associated with the capability to
18 store over a period of time.

19 Q. And something on the river would vary
20 fairly significantly?

21 A. It would probably have something closer to
22 wind.

23 Q. Yeah. I believe this week on the energy
24 bill in the Senate there was some amendment based on
25 regard to renewables. Do you know about that?

1 A. Yes, I do.

2 Q. Do you know what that figure was? And of
3 course, it's not law and it's a long ways from becoming
4 that, but give me -- what is it that you --

5 A. Well, the amendment that I'm familiar with
6 was the one that Senator Bingham proposed and was adopted
7 was something in the order of a renewable portfolio
8 standard set at the federal level of something like
9 10 percent. And the year -- I'm not sure exactly when
10 that would be, but it would probably start in the 2008 to
11 2010 time frame.

12 Q. Where is KCP&L today on percentage, if you
13 had to comply with that amendment?

14 A. We are --

15 Q. Where were you, where are you?

16 A. At this point we don't have any -- any
17 renewable energy, and with the proposed 100 megawatt and
18 200 megawatt potential, that would get us up to about
19 5 percent.

20 Q. So there would still be a ways to go if
21 that passed?

22 A. We'd have to probably get to something in
23 the 400 to 500 megawatt range. Most likely would be wind,
24 renewable technologies, but it could be biomass.

25 Q. Does Kansas have an RPS state standard?

1 A. They don't, no. They proposed legislation
2 that has not passed.

3 Q. All right. Can you -- are you the one I
4 should ask about the efficiency programs in this
5 stipulation?

6 A. I believe Sue Nathan would be the better
7 choice.

8 Q. I'll just wait for that, then. How big of
9 a factor is the production tax credit? I know you've been
10 asked this generally, but how big of a factor is it in
11 regard to the decision on moving forward with the wind
12 generation beyond the first 100 megawatts?

13 A. It's a factor of -- you know, again, from a
14 pure economic standpoint, it is the factor between whether
15 it's a lower cost resource or a higher cost resource.

16 Q. Do you know how much -- approximately how
17 much it's worth per megawatt?

18 A. Well, on -- it's a tax credit, but it
19 basically equates to roughly 1.8 to 1.9 cents per kilowatt
20 hour.

21 Q. Okay.

22 A. But there are tax ways that you need to
23 adjust that to see how it affects cost per kilowatt hour,
24 but that's what the number is that you would apply to your
25 financials.

1 Q. Okay. So have you translated that into
2 capacity amount instead of an energy amount? Have you
3 translated what it would be worth for 100 megawatts of
4 capacity of wind? Do you see what I'm asking?

5 A. In terms of millions of dollars?

6 Q. Yeah, or is it just around about?

7 A. We have, but I don't have that number with
8 me right now. We can get that for you if you'd like.

9 Q. That would be great, and if it's HC, then
10 whatever it needs to be filed as.

11 There's been some discussion about this
12 load growth issue, and I need some clarification, because
13 I've seen several suggestions in regard to what the actual
14 load growth has been for KCP&L. And I'm not clear at this
15 stage about what the actual load growth has been. Can you
16 shed some light on that for me?

17 A. I can try.

18 Q. And I want you to help explain to me, at
19 the -- I've got this in front of me. There was testimony
20 earlier, on page 38 of the transcript of the -- I think it
21 is Volume 2 of the public hearing, if someone has a copy
22 of that, beginning on line 20, I'll read this to you, just
23 to try to get some response more than anything else.

24 Briefly in 1999, the gentleman is saying,
25 13.8 percent of KCP&L's total sales were to other utility

1 companies. In 2003, that had risen to 29.1 percent of
2 total sales, and from 1990 to 2003 sales to other
3 utilities increased at an annualized rate of 28.3 percent
4 per year. From 1999 to 2003, sales to KCP&L's own
5 customers only increased their rate of -- their rate of
6 1.4 percent per year. And then he goes on with some
7 additional figures.

8 Give me some idea about what your actual
9 growth rates have been, and help me to understand whether
10 it is totally wrong or if it's not giving me the proper
11 picture.

12 A. Well, first of all, I think there's a
13 misrepresentation on the -- at least trying to tie the
14 amount of need for our native load customers versus what
15 we've been able to sell on the wholesale marketplace.
16 What's gone on in the wholesale marketplace is a function
17 of a number of things, including the price of natural gas
18 in making some of our excess energy that we have more
19 available to sell in the wholesale marketplace, which
20 ultimately the way the stipulation is structured that
21 would blow back above the line to ratepayers in future
22 rate cases.

23 I think some of the numbers that have been
24 thrown around haven't necessarily taken into account a few
25 things. One is a normalization of weather on our peak

1 load, which is one factor we take into account.

2 The other is when you calculate average
3 growth rate, depending on what years you select, you can
4 actually influence that number. And if you look at over
5 the last five years, which is some of these numbers that
6 have been kicked around, we've had last year the coldest
7 summer on record and in probably 20 years, and I don't
8 know the exact year but it probably dates back to 1983 or
9 '84, something in that time frame, to find an equivalent
10 period where the summer was that cool.

11 That combined with what I was referring to
12 earlier, some of the recession effects, make the last
13 three years not really a relevant comparison to what, say,
14 the last 12 to 15 years would have been. But just based
15 on some of the data that I have, you know, suggests that
16 since 1984 to 2001 we had a 2.25 percent growth rate in
17 actual peak megawatts. From 1990 to 2000, we had
18 2.21 percent actual growth rate in peak megawatts. From
19 1994 to 2004, we had a 2.23 percent growth in actual
20 megawatts.

21 So I think when you take it and look at the
22 trends over time, and then you compare it to -- you know,
23 we do our own forecast and we use our own climetric and
24 use modeling to do that, but we also look at outside
25 sources. You know, if you look at what the Energy

1 Information Agency is looking at nationally and they've
2 got in there a 2005 energy outlook, which is available on
3 the Internet, they show a national growth rate of
4 something in the order of 1.9 percent.

5 And typically when you look at their
6 assessment, they have a little bit higher growth rate for
7 the SPP region. And I'm not sure exactly what drives
8 that, but it's typically in the 2.1 to 2.3 percent range.

9 Q. What was the assumption that was made in
10 the modeling that was done on growth?

11 A. We used various growth analysis that had a
12 base assumption, and then we had a high growth rate and
13 low growth rate assumption model.

14 Q. What was the -- did you say average or base
15 growth rate that was used?

16 A. I'm not sure I know that number
17 specifically, but I think it would probably be consistent
18 with that, you know, 1.9 to 2.3 percent range that I was
19 talking about.

20 Q. Okay. Do you know what the low figure was
21 that you utilized?

22 A. I'll find it, if you give me one second.

23 Q. Sure.

24 A. Well, I don't have it in front of me
25 specifically.

1 Q. Maybe you can get that for me, too?

2 A. I can get that.

3 Q. Do you know what the percentage of
4 off-system sales was to total sales in '04? And if that's
5 HC, I'll have you give that at a different time.

6 A. No, I don't believe it would be. It's
7 publicly available information through the FERC Form 1 EIA
8 data or through FERC.

9 Q. Okay.

10 A. And I don't know the exact percentage, but
11 I can give what I think is probably a ballpark.

12 Q. Okay.

13 A. It's probably in the low 20 percentage
14 range.

15 Q. Okay. Is this figure for '03 that was
16 mentioned in the gentleman's testimony at the public
17 hearing of 29.1 percent an error, do you know, for '03?

18 A. Well, if it's based on public information,
19 I wouldn't say it's an error. It may be out of context in
20 what you're calling a sale.

21 Q. And I don't know --

22 A. What purchases are coming in to balance
23 those sales and those kind of things.

24 Q. Is there any way you can clarify that for
25 me?

1 A. We could reconcile it. I don't have that
2 today.

3 Q. But you could do that for me?

4 A. Yes.

5 Q. Good. The reason I'm asking this question,
6 obviously, is because it paints a picture that there is
7 very -- that appears to be a fairly stagnant or low
8 percentage of growth rate on native load but a very fairly
9 high growth rate on off-system sales. And I need you to
10 reconcile that for me and help me to understand whether or
11 not that's an accurate picture or not.

12 A. Without necessarily getting it, we will do
13 that.

14 Q. Sure.

15 A. But you don't really have to get into the
16 details of the numbers to look at what's happened over the
17 last few years with regards to the power market, and --

18 Q. Yes.

19 A. -- we've seen a fairly significant move in
20 the price of natural gas, which if you look at what our
21 traditional reach in terms of coal-fired megawatts would
22 be, excess coal-fired megawatts from Kansas City Power &
23 Light's area, it goes further, if you will. You can
24 overcome transmission costs to get to higher priced gas
25 incremental regions with higher gas prices. So as we've

1 seen higher gas prices, we've seen a more -- a broader
2 regional utilization of our asset base.

3 Q. And more opportunities for you to sell your
4 base load energy, right, because the prices of natural gas
5 incentivizes, encourages, creates opportunities for you to
6 sell your base load generation --

7 A. Correct.

8 Q. -- on the market?

9 A. And it decreases the utilization of that
10 asset base.

11 Q. So what I need to understand is whether or
12 not -- whether or not this additional capacity that we're
13 talking about building is really about serving native load
14 or about the potential for making more profit on
15 off-system sales, and not necessarily saying that that is
16 a reason not to do it. I'm just -- I need to understand
17 that fundamental issue, and then I need to understand how
18 that fits in to the picture for the ratepayers. That's
19 what I'm looking for.

20 A. Right. And that's a very good question,
21 and I think the issue that is misunderstood is that we're
22 building this plant to satisfy wholesale needs, and
23 ultimately the analysis that we've done has been almost
24 primarily around revenue requirements, which is a function
25 of ratepayer cost. So as we've looked at this resource,

1 the coal-fired resource and the wind resource and the
2 energy efficiency resources, they've all been in the
3 context of how they translate to the revenue requirements
4 that our customers pay.

5 So there is some off-system sales that you
6 get through the introduction of a coal plant, and I think
7 as Mr. Ford stated, they're a little lumpier investments
8 than you'd have if you had 10 megawatts of a smaller
9 efficiency program. That lumpiness is the timing and the
10 effect of how that lumpiness translates to the revenue
11 requirements is a function of whether you can sell
12 off-system in the early years as you grow into that.

13 But if you look at the structure of how
14 this Stipulation & Agreement is defined and the nature of
15 our ratemaking process as it exists today, off-system
16 sales, either firm or non-firm, translate in an
17 above-the-line reduction in expenses to the cost of
18 service that gets translated to our ratepayers.

19 Q. Okay. And if you could do that for me,
20 that would be helpful.

21 Then help me to recall, are there
22 significant transmission upgrades that need to occur if
23 this plant goes in?

24 A. I wouldn't say significant. What we've
25 defined right now in terms of the interconnection

1 requirements for this plant is -- the most significant of
2 those is transmission line that's required between our
3 Nashua substation and the Iatan substation, which I think
4 is something on the order of \$20 million line. Then
5 there's some other upgrades that are needing to be made to
6 various substations and transformers throughout the system
7 in order to accommodate that new generation on our grid.

8 The second component of that translates to
9 or is a function of the network service that you need to
10 carry the energy to the respective control areas of
11 companies of the Loma plant, and we're in the process of
12 having that study done by SPP, as well as we're
13 establishing what the partner base of that plant is going
14 to be, and then we plan to submit an aggregated study to
15 the SPP that would include all the partners and all the
16 partners' flows to determine what the optimum upgrade of
17 transmission requirements would be.

18 Q. Okay. There is an announcement in regard
19 to Associated Electric building a generation unit, I
20 believe, in the western part of Carroll County, maybe
21 almost in Ray. Are you familiar with that?

22 A. I'm familiar at least with what I've read
23 in their press releases and talking to them.

24 Q. Do you know how big that unit is supposed
25 to be?

1 A. I think they are still looking at that, but
2 last I heard, it was probably in the 600 to 650 megawatt
3 range.

4 Q. Does the construction of that plant have
5 any impact in regard to your decision to move forward with
6 the coal plant at all?

7 A. No, not at all.

8 Q. It doesn't have any impact on the
9 off-system sales ability that you would have with the new
10 plant, with the other plant also going in?

11 A. It may have some impact. One of the
12 sensitivities we ran in the IRP analysis that we did is we
13 did an analysis that had a lot of coal, additional coal
14 going in to the degree of every announced plant that was
15 out there, plus we added some. And the net effect of that
16 resulted in an increase of revenue requirement to our
17 customers, which would be directly a function of the loss
18 of benefit of margin that they would get on off-system
19 sales. But it still indicated that building the coal
20 plant was the right resource decision for our ratepayers.

21 Q. Do you know how much difference that plant
22 made to the revenue requirement?

23 A. I believe it was something around
24 \$100 million, of a total over a \$10.2 billion base.

25 Q. So that was just that plant by itself?

1 A. Just that piece with all of the other
2 plants.

3 Q. With all of them, that's what I wanted to
4 make clear. You weren't --

5 A. We didn't --

6 Q. When you said 100 million, you were talking
7 about all of the plants that you figured in, not just the
8 AECI plant?

9 A. We have not modeled AEC specifically.

10 Q. By itself?

11 A. Correct.

12 Q. Okay. How many other plants did you
13 include in that model?

14 A. We put in the ones that we know are getting
15 built right now, which is the --

16 Q. Can you tell me what those are without
17 causing a problem on the record with it being public
18 information?

19 A. I don't believe there's any information,
20 public information with regard to the Council Bluffs 4
21 plant, the Nebraska City 3 plant that Nebraska, Omaha
22 Public Power District is building. We included the
23 Sunflower plant.

24 Q. Where is that plant?

25 A. That's in, I believe, Holcomb, Kansas,

1 which is out in the western part of the state.

2 Q. Okay. Thank you. What else?

3 A. We looked at, I think, a plant getting
4 built in Oklahoma by OG&E. I believe we looked at an LS
5 Power plant, which is an IPP plant, south of here. I'm
6 not sure exactly the location. Probably others that I
7 just don't recall, but --

8 Q. Okay. And if all of those plants go up,
9 there's a \$100 million impact on the revenue requirement
10 for KCP&L?

11 A. Correct.

12 Q. Okay. The infrastructure requirement
13 contained in this SIP calls for environmental upgrades to
14 Iatan 1 and is it Lacine?

15 A. Lacine.

16 Q. Lacine. Thank you. As well as
17 state-of-the-art environmental facilities on the new
18 Iatan 2 facility; all of that's correct?

19 A. That's what's being proposed in the
20 five-year plan.

21 Q. Okay.

22 A. We do have a ten-year plan that does
23 accommodate or anticipate upgrades on our plants in our
24 system.

25 Q. Okay. Will there be any improvements made

1 to the Montrose units, Hawthorn units or Lacine 2?

2 A. The Hawthorn plant, as you recall, we
3 rebuilt that in the 1999/2000/2001 time frame.

4 Q. Okay.

5 A. And with that we installed what's called
6 best available control technology, and it meets something
7 comparable to current environmental requirements.

8 The Lacine 2 plant is one right now
9 anticipated for retrofit in the 2011-2012 time frame, so
10 it falls out of this five-year regulatory plan, but it
11 does fall in what we expect to do to comply with the Clean
12 Air Interstate Rule and the mercury rule, and potentially
13 the BART rule that was just passed here recently, or just
14 proposed recently, which is the best achievable -- best
15 achievable reduction technology, I believe, something like
16 that.

17 Q. Okay.

18 A. The Montrose station is an interesting one,
19 and there hasn't been a decision as to what to do with
20 that. In the ten-year plan we look at various
21 alternatives of compliance with scrubbers, baghouses and
22 SCRs. We also recognize that that plant will be close to
23 60 years old at the time we're looking at that compliance.
24 The amount of money that's required to comply is right now
25 estimated to be something in the 350 million plus or minus

1 type of number.

2 And if you look at that compared to some of
3 the alternatives that we may have, and that's one of the
4 things that an IGCC plant may be more applicable to, it
5 may be something that if we see improvement in energy
6 efficiency programs, that we're going to look at it. It
7 may be something different with that plant than
8 compliance. There may be wind technology that would be a
9 better use for that.

10 So that's a decision that we don't
11 necessarily have to make today, and it's something that we
12 would like to study and do it collaboratively with the
13 interested parties in this workshop environment to kind of
14 look at it over the next couple years.

15 Q. Okay. I think you've already dealt with
16 the subject, but I'll ask you very quickly, but would you
17 agree that the allowable emissions for fossil fuel
18 generating facilities, the laws and regulations in that
19 regard are somewhat -- are uncertain today looking into
20 the future?

21 A. They're -- they are uncertain. I would say
22 they're probably less certain than they were a year to
23 year and a half ago.

24 Q. Less certain or less uncertain?

25 A. Less uncertain. I'm sorry. Thank you.

1 The Clean Air Interstate Rule has provided, I guess, some
2 clarity for us. It makes it easier for us to plan for the
3 future. And we recognize that technologies like scrubbers
4 and baghouses are becoming more viable and it's something
5 that we should be able to adopt in our existing units, at
6 least the ones that we're planning on adopting that
7 technology outside of Montrose.

8 So that's helped clarify an awful lot of
9 our decision-making in the future, and we think the EPA
10 has established a fair position. The mercury rule is one
11 that we think right now is a little bit less certain
12 because of some of the opposition litigation associated
13 with the way that it was promulgated. And of course, the
14 CO2 is one that's, you know, a constant uncertainty.

15 Q. Okay. With this uncertainty that exists,
16 as succinctly as you can, tell me why this is a time to
17 commit to a specific course of action in regard to
18 building the Iatan 2 plant.

19 A. Well, in terms of sulfur dioxide and
20 hydrogen dioxides and particulate, there's absolutely no
21 uncertainty as to what we're going to be faced with in
22 terms of a new coal plant. In terms of the uncertainty
23 related to mercury, we'll be permitted under new source
24 performance standards for mercury in the new plant and
25 won't have any uncertainty there.

1 In terms of carbon dioxide, while we
2 recognize that that may be -- a regulation will be passed
3 in the future, it's one that will probably affect other
4 units other than this particular unit, and we'll regard
5 decisions on plants like Montrose and additional wind as
6 options or alternatives to that type of legislation.

7 Q. Okay. So you think that to the extent that
8 you can anticipate several of these factors, you believe
9 you have already dealt with and you know what's going to
10 happen and you have anticipated that with the construction
11 proposal?

12 A. Regarding?

13 Q. Regarding things like mercury and sulfur
14 and NOx as well, did you say?

15 A. NOx and particulate. And when I say
16 addressing, we are working collaboratively right now with
17 the EPA and with the Missouri Department of Natural
18 Resources on those specific permits required for Iatan 2.

19 Q. Okay. But there are still some things that
20 you don't know about and can't possibly know about today
21 in regard to carbon in particular?

22 A. We don't know what the outcomes are going
23 to be, but we can plan and run scenarios around those
24 uncertainties to look at the robustness of the plan we've
25 offered.

1 Q. Okay. Can you compare -- there's been a
2 lot of discussion and there have been some press releases
3 in regard to how the total emissions from Iatan will be
4 lower after the plant is built than they were with
5 Iatan 1 alone before anything is done to Iatan 1.

6 Can you tell me what the emissions change
7 will be if we compare the Iatan 1 plant with the
8 improvements to what we will have with Iatan 1 with the
9 improvements and Iatan 2?

10 A. On an Iatan site basis?

11 Q. Yes.

12 A. Yes, I believe I can.

13 Q. That would be great. And I think I'm
14 getting very close to being done, believe it or not.

15 A. I don't have that specific. I do have it
16 back at my -- on my computer.

17 Q. But you could get it for me?

18 A. I can get it for you.

19 Q. That would be great. That's fine. I hope
20 that you remember all of these things that I -- that we
21 talked about you getting for me.

22 A. Just for the record, just to go over what
23 that is, with the two plants, we're looking at something
24 in the order of probably 90 to 95 percent removal of
25 sulfur dioxide in Iatan 1, probably something a little

1 higher than that in Iatan 2. So we're making significant
2 reductions in the Iatan 1 plant that will accommodate the
3 additional emissions that we're going to have out of
4 Iatan 2 plant for sulfur, similar type of percentages for
5 the nitrogen oxides.

6 For the particulate, we're going with a
7 fabric baghouse, which is designed to remove the much
8 finer particulates that you would see in the PM
9 particulate size range of 2.5 microns, which electric
10 precipitators, while they're fairly efficient at removing
11 something like 99 percent of the ash, they don't get down
12 to as fine a percentage. With the baghouses we're looking
13 at we'll actually be able to achieve much higher levels.

14 So these three in particular will have
15 significant reductions. With the technology we're adding
16 to address those pollutants, they'll also have an effect
17 on mercury reductions, so we'll see some significant
18 reductions in mercury on a total site basis. And I think
19 the one that Mr. Ford talked about, which is carbon
20 dioxide, which I'll point out isn't designated as a
21 pollutant today by the EPA, would have higher emissions
22 because of the fact that there is no removal technology
23 right now.

24 Q. What I'm looking for, too, I understand the
25 frame of this and it's not -- I'm not saying it's unfair

1 to compare before and after in the Iatan site. I am
2 looking for, however, what would -- what the emissions
3 difference would be with Iatan 1 put into, having the
4 retrofits that are anticipated, and that site emission
5 compared to the retrofits on Iatan 1 and Iatan 2 at the
6 site as well.

7 The other -- oh, by the way, the ash that
8 comes off of this, will it be -- will it be able to be
9 utilized for some of the purposes that ash -- some ash can
10 be utilized for building roads and things. Will it -- or
11 will it be -- will it have materials in it that will
12 preclude that usage?

13 A. That was -- well, it will be salable. The
14 reason why we --

15 Q. Thank you. That's a better way of saying
16 it.

17 A. The reason why we went with a wet scrubber,
18 one of the reasons is the ability to collect the ash prior
19 to the scrubber after the SCR allows us to take that ash,
20 and that ash has a fairly high demand from Portland
21 Concrete as a substitute for Portland Cement in the
22 concrete business. So we'll be able to collect that and
23 won't have to landfill in this application.

24 Q. Okay. And back to the AECI plant very
25 briefly. How far is that plant away from this plant? Do

1 you have any idea, miles?

2 A. I don't specifically. It's probably
3 something -- it's close to our east district, which is
4 Brunswick, probably north of Boonville. So I'm not sure
5 what that equates to in miles. Maybe 125 miles, 150 miles
6 maybe.

7 Q. Does it have any impact with both of those
8 plants going into that area in regard to air, the
9 attainment standards, do you know?

10 A. In terms of attainment with regard to
11 Kansas City attainment, I would expect it to have fairly
12 low impact just due to the prevailing wind direction.

13 Q. Because it would be to the best of
14 Kansas City, the AECI plant?

15 A. Correct.

16 Q. Okay.

17 A. But the way that the environmental process
18 is set up, the permit that they will go through will look
19 at essentially the modeling and monitoring of the ambient
20 air within the region that they're putting that plant up,
21 and that will take into account sources like Iatan 2 in
22 that process.

23 Q. So I assume DNR would be suggesting
24 something to us if there was a big issue with that. I
25 guess they'll be saying something to me if there is. I

1 would assume they would have already done that in the
2 stip.

3 One last real quick, hopefully very brief
4 topic. The sulfa credits, the stip calls for, I believe,
5 a greater sale of those credits, am I correct about that,
6 in the near term, or is that incorrect?

7 A. The stip does address sale of emission
8 allowances in the near term, yes.

9 Q. Is it anticipated that there will be more
10 sales of those credits than what might have otherwise
11 occurred by KCP&L or is -- am I misunderstanding that?

12 A. This is approaching confidential
13 information. We can't answer that.

14 Just in general, the stipulation allows for
15 the sale of some emission allowances early on. Those
16 emission allowances will be sold and gone and they'll be
17 put into basically a regulatory account that would help
18 affect the amount of cash that would appear on our balance
19 sheet, in essence. And somebody like Mike Cline can
20 probably get into this in a lot more detail.

21 But the thinking is, is that you would have
22 that cash basically help through high construction cash
23 flow periods of the regulatory plan, and then those
24 dollars would be essentially given back to or dispensed
25 back to ratepayers after the 2010 time frame through some

1 type of process that would have to be established.

2 Q. Was there an analysis done as to the risk
3 of those sales being done early as opposed to saving those
4 credits and what -- and if you can't talk about it in open
5 session, we can do that some at another time or something.
6 But to the extent that you can give me some idea about
7 what kind of study and analysis was done, that would be
8 helpful.

9 A. In general I can. There was an analysis
10 done with sensitivities around allowance price, timing of
11 the sales and the amount of the sales. And the concept
12 was -- and this was something we worked fairly closely
13 with Staff and with the Office of Public Counsel, Ryan
14 Kind on -- is to ensure that we didn't necessarily put a
15 burden on ratepayers in creating a deficiency of
16 allowances where we would actually need allowances and be
17 exposed to high price in the marketplace. So we ran
18 sensitivities around how much would be appropriate to sell
19 in the near term to create this regulatory asset and the
20 relative exposure that that would create for ratepayers
21 downstream.

22 And the various scenarios that we ran went
23 through the workshop discussions, and we converged on the
24 one that ended up in the Stipulation & Agreement.

25 Q. What kind of risk factor did you find in

1 that regard?

2 A. Without getting into specific numbers, I
3 think it was regarded to be fairly minimal risk to
4 ratepayers in terms of their exposure, and that may be
5 something that Mr. Trippensee would like to comment on.

6 Q. Yeah. I think that would be fine. When we
7 get to that point, that would be helpful for me to hear.

8 COMMISSIONER GAW: And Judge, I appreciate
9 everyone's patience on this. I'll stop for the time
10 being, turn it over to somebody else.

11 JUDGE PRIDGIN: Commissioner Gaw, thank
12 you. Commissioner Appling?

13 COMMISSIONER APPLING: I think my colleague
14 has covered everything very well.

15 JUDGE PRIDGIN: Thank you. I have no
16 further questions for this witness, and don't want to
17 break your hearts, but this is our last witness of the
18 day. And I will offer some recross opportunities.
19 Mr. Fischer?

20 MR. FISCHER: Yes, your Honor. Given the
21 time of the evening, I want to raise just a scheduling
22 concern with the parties.

23 JUDGE PRIDGIN: Yes, sir.

24 MR. FISCHER: We very much have an interest
25 in accommodating all the interests of the parties and the

1 Commission, getting the information that you need and that
2 we want. We also have an interest in getting the case
3 submitted as soon as possible.

4 I have a concern that there might be a
5 party or two that might be of interest to the Commission
6 that might not be available on Monday, and if that's the
7 case, I would ask that we consider trying to resolve those
8 issues tonight and perhaps ask any questions. I think DOE
9 may have a need to be gone on Monday, and I wondered if we
10 could --

11 COMMISSIONER GAW: I don't have any
12 questions of DOE if they don't have a witness.

13 MR. FISCHER: I don't know if there's
14 anyone else. That's just a concern I have. We certainly
15 are available on Monday, and I think probably Staff and
16 Public Counsel are. If there are other people that might
17 not be, I'd like to know that.

18 MR. PHILLIPS: We have a question of
19 Mr. Trippensee, maybe a couple. If we could ask him a
20 couple of questions, I think that's all we would have.

21 JUDGE PRIDGIN: All right. Mr. Dottheim?

22 MR. DOTTHEIM: Yes. The Staff has with one
23 of its potential witnesses, Warren Wood, an availability
24 problem on Monday. He will be available here early Monday
25 morning until about 11:30.

1 Also, too, Commissioner Gaw, your questions
2 of Mr. Grimwade regarding the local public hearing in
3 Kansas City, the testimony of Mr. Byron Comb, Mr. Wood is
4 prepared to address that. In fact, since it was specified
5 that the Prehearing Brief should indicate what the
6 witnesses would testify to, the Staff has a paragraph or
7 two in the -- in its Prehearing Brief filed on June 15th
8 on pages 2 and 3 indicating what Mr. Woods would testify
9 to in general respecting Mr. Comb's testimony and his
10 Exhibit 3.

11 Also, earlier this afternoon I was advised
12 that Anita Randolph, the Director of the Department of
13 Natural Resources Energy Center, had directed one of their
14 staff from pollution control to come over to the hearing
15 room this afternoon. Now, that individual I think is
16 still here. In fact, I see that Ms. Randolph is here
17 herself. But it's my understanding that they don't have
18 counsel with them, and that in itself may present a
19 difficulty.

20 Now, Ms. Randolph may want to address that,
21 and of course, Commissioner, you may have your own
22 concerns about, and the RLJ, about proceeding forward
23 without counsel for DNR.

24 COMMISSIONER GAW: I would feel
25 uncomfortable if they didn't have counsel.

1 MR. DOTTHEIM: I don't know. Maybe there
2 could be an indication if the individual from DNR is
3 available on Monday. There has been an indication that
4 the person from DNR is available on Monday.

5 MR. FISCHER: Your Honor, just from my
6 perspective, it sounds like we may have just the need to
7 get a couple witnesses on so DOE can ask their questions
8 and then we can come back.

9 JUDGE PRIDGIN: Mr. Grimwade's available
10 Monday, I mean, if we have any more recross or redirect?

11 MR. FISCHER: Mr. Grimwade is available.
12 So is Sue Nathan from Kansas City Power & Light.

13 JUDGE PRIDGIN: So what I'm hearing is we
14 need to get Mr. Trippensee on to allow DOE to ask some
15 questions.

16 MR. PHILLIPS: If the Commission would be
17 willing to do that, that would be fine. I would also, at
18 the closure of that, I would be happy to answer any
19 questions of the Commissioners, but I'm not here as a
20 witness.

21 COMMISSIONER GAW: If you had somebody that
22 could be a witness, I might have some questions, but
23 barring that, I don't.

24 MR. PHILLIPS: I think you've heard enough
25 from the lawyers the last few days. But I would like to

1 make a statement at the end of cross-examining
2 Mr. Trippensee on our position relative to the
3 stipulation, which would be our final statement for you.
4 If you also want any kind of post-hearing pleadings, we'd
5 be happy to do that. Mr. Campbell can be here, but he
6 cannot answer any questions or ask any questions, but he
7 can at least monitor the process.

8 JUDGE PRIDGIN: All right. It sounds to me
9 the best way to go is to kind of change directions, then,
10 and have Mr. Grimwade be available Monday in case we have
11 any recross from the parties, redirect. And then
12 Mr. Dandino, if you're ready, if you want to put
13 Mr. Trippensee on. Again, this is only for the purposes
14 of DOE to cross-examine. Other parties, of course, will
15 have the chance to cross-examine Monday.

16 Mr. Grimwade, thank you very much for your
17 testimony and for your patience.

18 (EXHIBIT NO. 39 WAS MARKED FOR
19 IDENTIFICATION BY THE REPORTER.)

20 (Witness sworn.)

21 JUDGE PRIDGIN: Thank you very much. If
22 you'll have a seat, sir. Mr. Dandino, whenever you're
23 ready.

24 RUSSELL TRIPPENSEE testified as follows:

25 DIRECT EXAMINATION BY MR. DANDINO:

1 Q. Please state your name and position.
2 A. My name is Russell Trippensee. I'm the
3 Chief Utility Accountant for the Missouri Office of Public
4 Counsel.
5 Q. Are you the same Russell Trippensee that
6 prepared and caused to be filed in this case direct
7 testimony which has been marked as Exhibit 39?
8 A. Yes, I am.
9 Q. Do you have any corrections to that
10 testimony?
11 A. Not to my knowledge.
12 Q. Are the answers in Exhibit 39 true, correct
13 and accurate to the best of your information, knowledge
14 and belief?
15 A. Yes, they are.
16 Q. If I asked the questions that are contained
17 in Exhibit 39, would your answers be the same?
18 A. Yes, they would.
19 MR. DANDINO: Your Honor, at this point I'd
20 offer Exhibit No. 39, the direct testimony of Russell
21 Trippensee, and tender him for cross-examination.
22 JUDGE PRIDGIN: Mr. Dandino, thank you.
23 Any objection? Hearing none, Exhibit No. 39 is admitted.
24 (EXHIBIT NO. 39 WAS RECEIVED INTO
25 EVIDENCE.)

1 JUDGE PRIDGIN: And I will allow
2 Mr. Phillips to cross-examine, and the other parties will
3 have a chance to cross-examine Mr. Trippensee Monday.

4 MR. PHILLIPS: Thank you.

5 CROSS-EXAMINATION BY MR. PHILLIPS:

6 Q. Mr. Trippensee, in regard to your direct
7 testimony, let me turn your attention to page 11 of your
8 testimony. Do you have that?

9 A. Yes, I do, sir.

10 Q. And your testimony is lined, so if you
11 would look at the answer starting at line 2 through
12 line 7, and that is where you're talking about \$1 of
13 earnings relative to \$1.62 of revenue. And I appreciate
14 what you say there. Could you explain just a little bit
15 more on how you have get that differential of \$1.62 via \$1
16 and how that then is a benefit to the ratepayer?

17 A. The \$1, the purpose of rate of return
18 regulation is to allow the company to obtain earnings.
19 There's a couple of sure things in this country, and one
20 of them is taxes. So for a company to retain \$1, they
21 have to collect something more than \$1 from the
22 ratepayers.

23 The \$1.62 is simply a mathematical
24 calculation of the current federal and state -- federal
25 tax rate along with the state tax rate in Missouri. And

1 basically it's approximately 38, 39 percent effective tax
2 rate, in that neighborhood. If you take the 38 or
3 39 percent, 40 percent for round numbers times \$1.62,
4 you're going to get about 62 cents of taxes, and then that
5 leaves the dollar for the stockholders or for earnings
6 calculation.

7 The benefit to the ratepayer from -- that
8 I'm referring to is in the amortization as it's structured
9 here, it is designed to be utilized in the income tax
10 calculation as tax depreciation, be recognized.
11 As such, it would reduce the taxable income and,
12 therefore, not be subject to what we refer to in
13 ratemaking as grossing up a dollar to accommodate the tax,
14 potential tax liability.

15 I would point out that this is not a
16 guarantee that this will occur. It will be a function of
17 the investments of the company, their taxes, depreciation
18 at that time, which we will look at in each and every rate
19 case.

20 Q. So the first instance where this would be
21 tried up and you would find the actual amount herein would
22 be in the next rate case, which is scheduled for January
23 of 2006; is that right?

24 A. January of 2006? I think it's to be filed
25 in February, but somewhere sometime in there. I think the

1 effective date is January -- it anticipates effective
2 tariffs as of January 1st, 2007.

3 Q. Okay. On your next page, page 12, you talk
4 about the 125 basis points number related to AFUDC.

5 A. That's probably a change I would like to
6 make, but as soon as Kansas issues an Order, I definitely
7 will make that.

8 Q. Let me just for the record clarify that I
9 think it's been represented, and perhaps Mr. Giles might
10 have testified to this, and I think Steve Dottheim may
11 have mentioned this, but in Kansas there's a provision for
12 a 250 basis points AFUDC number; is that correct?

13 A. That's correct. There's also another term
14 in Kansas. There's a delay before that kicks in, I
15 believe it's January -- for all expenditures as of
16 January 1st, 2007 through the end of the project. That
17 additional language, I think the way the stipulation, we'd
18 have to look, incorporate that also.

19 But since most of the expenditures are
20 going to be post January 1st, 2007, our initial analysis
21 indicates that would be a better situation for Missouri
22 customers, and that's basically the spirit of the portion
23 of the Stipulation & Agreement that talks about adopting
24 provisions in Kansas.

25 Q. So you would see, then, for the next rate

1 case in Missouri jurisdiction that the AFUDC number
2 utilized there would be 250 basis points as opposed to
3 125?

4 A. That would be my belief. I mean, the
5 spirit is we will take anything that benefits Missouri
6 customers in Kansas. We're going to reject some of the
7 things that they have incorporated in Kansas, such as back
8 to the additional amortization, Kansas is calling it
9 contributions in aid of construction, and in looking at
10 the transcript in the Kansas proceedings, they
11 specifically said it would be taxable, and that is
12 something we wish to avoid in Missouri.

13 The original KCPL proposal talked about
14 increased earnings to provide this dollar cash flow, and
15 that is something that was basically a non-starter from
16 the Public Counsel's position, because 62 cents on this
17 amount of money is going to be a significant amount that
18 would just simply flow from ratepayers to the federal
19 treasuries, and while it might help DOE and other things,
20 it won't be helping Missouri.

21 Q. I wish we got our money that way, but we
22 don't.

23 Were you involved in the ER-94-199
24 negotiations and Stipulation and Order that came out of
25 that? I asked Mr. Giles some questions about the

1 amortization adjustment that flowed out of that docket.

2 Do you recall that?

3 A. I recall the docket. I do not believe I
4 was involved in the negotiations. I definitely did not
5 file testimony in the case.

6 Q. And how about in ER-99-343? Similar
7 amortization was adopted in that.

8 A. I believe I was involved in negotiations in
9 that case. The 94 case, I don't think it went where there
10 was actually testimony filed. I think there may have been
11 an earnings -- my sitting here memory kicking in a little
12 bit this late on a Friday afternoon after two days of
13 sitting here in the cold, I think there was a Staff
14 earnings investigation, and we were involved in discussing
15 that, and my position was the same at that point in time.
16 I would have had some input into the office's position.

17 Q. And have you compared that amortization and
18 the amount of that amortization compared to what's being
19 proposed in this docket?

20 A. As far as just the -- the amortization
21 being proposed in this docket is not a dollar specific. I
22 think there's 17 million put in the stipulation as
23 expected, 17 million that will be adjusted up and down.
24 The critical component of the Stipulation & Agreement is
25 Appendix F, pages 1, 2 and 3 of Appendix F, which sets out

1 the process that that amortization will be determined.

2 If it is 17 million, it will be higher than
3 the current I believe three and a half that's in that --
4 originally in that '94 case.

5 Q. I asked Mr. Giles some questions about that
6 illustration, and the illustration I believe he said was
7 based on a 2003 surveillance report.

8 A. Yes.

9 Q. And consequently a number that would flow
10 out of the next case would turn on audit, surveillance or
11 whatever that would take place subsequent to that
12 calculation; is that correct?

13 A. Well, I think what is anticipated is the
14 Commission will have to -- we often call them scenarios.
15 They will issue, tell the parties what the basic revenue
16 requirement is out of the case. We will then have to run
17 that data through this and inform the Commission of what
18 the amortization amount would be to meet the Stipulation &
19 Agreement. So it will come out of the Commission case, it
20 will be prudent expenditures and investments and the cash
21 flow generated from those, and that will be run through
22 the model.

23 The use of the 2003 surveillance data was
24 simply so that we had numeric data to check how this
25 process would work. It's really just a numeric test. It

1 doesn't have a lot of relevance. I believe the 17 million
2 that's in the Stipulation & Agreement flows more from the
3 modeling that was done by the parties in the -- in this
4 case, in looking at the revenue requirements that
5 Mr. Grimwade talked about and Mr. Cline referred to
6 earlier I believe also.

7 Q. Okay. Assuming the Commission were to
8 approve the Stipulation & Agreement in this docket, in the
9 next rate case, which would take place January or February
10 or whenever Kansas City Power & Light would file it, if we
11 were to intervene and if you were to participate, which I
12 assume you would, and Staff would participate, which I
13 assume they would, then we would all have an opportunity
14 to take that number and that formula and apply it in the
15 rate case?

16 A. That would be correct.

17 MR. PHILLIPS: Thank you. That's all I
18 have of this witness, and that's all the questions we have
19 of any of the filed testimony. I would be happy to answer
20 questions from the Commission relating to whatever we can
21 do to help you.

22 I would be happy also to just advise you,
23 if you were to have a closing argument Monday or Tuesday
24 or whenever, what we would say in that closing argument.
25 On the basis of what we have gone through and reviewed and

1 listened and the competent and substantial evidence, we
2 would submit that we do not oppose the Commission
3 approving the Stipulation & Agreement as proposed in this
4 case.

5 If there are any questions, I'll be happy
6 to try to answer them.

7 JUDGE PRIDGIN: Mr. Phillips, thank you.
8 Let me see if we have any questions from the Bench for
9 Department of Energy. Mr. Chairman?

10 CHAIRMAN DAVIS: No questions.

11 JUDGE PRIDGIN: Commissioner Gaw?

12 COMMISSIONER GAW: Is that the same thing
13 as supporting it?

14 MR. PHILLIPS: I think if we looked in
15 Law's dictionary we might be able to differentiate between
16 one and the other. I'm prepared to say that we do not
17 oppose it.

18 COMMISSIONER GAW: But not that you
19 necessarily support it?

20 MR. PHILLIPS: I did not say that.

21 COMMISSIONER GAW: Real quickly, since
22 you're representing the Department of Energy, does the
23 Department of Energy have any issues in regard to the
24 number of coal plants that are being constructed in the
25 U.S. at the present time and any position in regard to

1 whether or not that is a good thing, whether there are
2 enough, too many, not enough being constructed?

3 MR. PHILLIPS: Let me just say that we are
4 here in a capacity different from a capacity in which I
5 could answer that question.

6 COMMISSIONER GAW: That's why I was hoping
7 you had a witness so I could ask them that question.

8 MR. PHILLIPS: We are here pursuant to a
9 federal law which provides that we as customers of
10 utilities have a right to intervene before state agencies
11 in a customer capacity. The actual holder of that
12 authority is two agencies. One agency is the General
13 Services Administration. The second agency is the
14 Department of Defense.

15 The facility that we're representing today
16 is technically under the auspices of the General Services
17 Administration. The General Services Administration has
18 issued an Order of Delegation to the Department of Energy
19 to represent the Department of Energy's interests before
20 this Commission on behalf of the DOE, National Nuclear
21 Security Administration facility, which we call our Kansas
22 City plant, which years ago we all knew as the Bendicks
23 facility at 95th and whatever that street out there is in
24 southern Kansas City, and that's what I'm here for today.

25 We also can represent the policy interests

1 of the Department of Energy, but that is an authority held
2 by the Secretary of Energy, and if I were here in that
3 respect, our position would be substantially different
4 than it is and we would probably be advocating something
5 you may or may not want to hear.

6 So anyway, I don't have the authority to do
7 that. I could tell you this, Commissioner: All those --
8 all those reports that have been referred to, and many,
9 many more, if you would like them, you can make a request
10 and my office will end up processing it, and we would be
11 happy to provide you with any and all those reports, but I
12 really don't think we need to burden the record any more
13 than it is with any more paper.

14 COMMISSIONER GAW: Yes. That's why I was
15 looking for a witness.

16 MR. PHILLIPS: Yes. I'm sorry. I can't
17 help you with that.

18 COMMISSIONER GAW: Your background at this
19 Commission has served you well. I can see that.

20 MR. PHILLIPS: Well, it certainly has
21 helped, not only in this jurisdiction but in many others
22 as well.

23 COMMISSIONER GAW: I would love to know
24 what the Department of Energy's and the Secretary's
25 position is in regard to my question, but I see that I'm

1 not going to get that answer. So I'll leave that alone.

2 MR. PHILLIPS: Thank you. I appreciate it.

3 JUDGE PRIDGIN: Commissioner Gaw, thank
4 you. Commissioner Appling, any questions?

5 COMMISSIONER APPLING: Mr. Phillips, it was
6 really nice to meet you, and thank you for coming back
7 here. You've explained in about five minutes why it's so
8 tough to get things done in this country. Appreciate it,
9 and have a safe trip.

10 MR. PHILLIPS: Thank you. It's always a
11 pleasure to appear here, and especially to see some of the
12 staff members that I worked with over the years and the
13 Public Counsel and, yes, Kansas City Power & Light and the
14 other intervenors that appeared here as well. So it's
15 been a pleasure. Thank you.

16 JUDGE PRIDGIN: Mr. Phillips, thank you.
17 And I think what we can do now, Mr. Trippensee, you're
18 excused. You'll be recalled Monday.

19 As a matter of housekeeping, we will resume
20 Monday morning at 8:30. I will go over with counsel any
21 requirements they have to accommodate witnesses. I
22 understand we'll probably need to take Mr. Wood pretty
23 early, and I would be inclined to take him first and then
24 put Mr. Grimwade back on if the parties want any kind of
25 recross, redirect, and then we will proceed, go back to

1 the list of issues, procedural schedule that the parties
2 gave to me before the hearing.

3 Is there anything else from counsel before
4 we go off the record? All right. Hearing nothing, we
5 will go off the record. Thank you very much. You're all
6 invited back 8:30 Monday morning.

7 WHEREUPON, the hearing of this case was
8 recessed until June 27, 2005.

9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

I N D E X

SIERRA CLUB/CONCERNED CITIZENS OF PLATTE COUNTY'S EVIDENCE

NED FORD

Direct Examination by Ms. Henry	313
(In-Camera session - see index blow)	
Cross-Examination by Mr. Conrad	365
Cross-Examination by Mr. Dottheim	368
Cross-Examination by Mr. Fischer	376
Questions by Commissioner Gaw	431
Questions by Commissioner Appling	447
Recross-Examination by Mr. Dottheim	449
Recross-Examination by Mr. Fischer	450

NED FORD (In-Camera Session - Volume 6)

Direct Examination by Ms. Henry	355
---------------------------------	-----

KCP&L'S EVIDENCE

MICHAEL CLINE

Direct Examination by Mr. Zobrist	458
Cross-Examination by Ms. Henry	461

JOHN GRIMWADE

Direct Examination by Mr. Zobrist	468
Cross-Examination by Mr. Dottheim	472
Cross-Examination by Ms. Henry	475
Questions by Commissioner Gaw	491

OPC'S EVIDENCE

RUSSELL TRIPPENSEE

Direct Examination by Mr. Dandino	557
Cross-Examination by Mr. Phillips	558

	EXHIBITS INDEX	MARKED	RECEIVED
1			
2	EXHIBIT NO. 28		
	Ned Ford's Curriculum Vita	392	392
3			
	EXHIBIT NO. 29		
4	Concerned Citizens and Sierra Club's		
	Response to Stipulation Filed by KCPL,		
5	Case EW-2004-0596	394	
6	EXHIBIT NO. 30		
	Web Postings	405	427
7			
	EXHIBIT NO. 31		
8	Sierra Club Celebrates Huge Victory		
	At Church Mountain	420	427
9			
	EXHIBIT NO. 32		
10	Four Years Experience of the Nation's		
	First Energy Efficiency Utility	453	457
11			
	EXHIBIT NO. 33		
12	Five Years In	454	457
13	EXHIBIT NO. 34		
	Delaying Global Climate Change,		
14	Efficiency Lessons from California	454	457
15	EXHIBIT NO. 35		
	Energy Policy Models and Technology		
16	Characterization	454	457
17	EXHIBIT NO. 36		
	Direct Testimony of Michael Cline	459	460
18			
	EXHIBIT NO. 36HC		
19	HC Direct Testimony of Michael Cline	459	460
20	EXHIBIT NO. 37		
	Direct Testimony of John Grimwade	468	472
21			
	EXHIBIT NO. 38		
22	Appendix E: Assessment of Renewable		
	Wind Resources As Part of KCP&L's		
23	Supply Portfolio	473	475
24	EXHIBIT NO. 39		
	Direct Testimony of Russell W.		
25	Trippensee	556	557