

STATE OF CONNECTICUT
SITING COUNCIL

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*
TEN-YEAR FORECAST OF * June 18, 2013
ELECTRIC LOADS AND RESOURCES * (1:30 p.m.)
*
DOCKET NO. F-2012-2013 *
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* * * * *

BEFORE: JERRY MURPHY, CHAIRMAN

BOARD MEMBERS: Robert Hannon, DEEP Designee
Edward S. Wilensky
Daniel P. Lynch, Jr.
Philip T. Ashton
Dr. Barbara Bell

STAFF MEMBERS: Melanie Bachman, Executive Director
Michael Perrone, Siting Analyst

APPEARANCES:

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....Verbatim proceedings of a hearing before the State of Connecticut Siting Council in the matter of F-2012-2013 Ten-Year Forecast of Electric Loads and Resources for Connecticut, held at the offices of the Connecticut Siting Council, Ten Franklin Square, New Britain, Connecticut, on June 18, 2013 at 1:33 p.m., at which time the parties were represented as hereinbefore set forth . . .

THE CHAIRMAN: Ladies and gentlemen, this hearing is called to order this Tuesday, June the 18th, 2013 at 1:33 p.m.

My name is Jerry Murphy, Vice-Chairman of the Siting Council for this meeting in the absence of our chairman who is away on vacation.

Other Council Members present with us at this time is Robert Hannon, Designee for Commissioner Dan Esty of the Department of Energy and Environmental Protection, Philip T. Ashton, Daniel P. Lynch and Dr. Barbara C. Bell.

Members of the staff are Melanie Bachman, Acting Executive Director and Staff Attorney; Michael Perrone, our Siting Analyst, and our Court Reporter Nancy Parette.

1 The Siting Council is holding this public
2 hearing on the 2012-2013 ten year forecast of electric
3 loads and resources in Connecticut, pursuant to General
4 Statutes 16-50r. The purpose of this hearing is to
5 examine the adequacy and reliability of electric
6 generation and transmission in the state while
7 considering the cost to consumers and protecting the
8 environment.

9 Pursuant to these statutory requirements
10 this proceeding will analyze load growth forecasts of
11 the state's electric utilities and plans to meet the
12 demand for electricity through the year 2022. Included
13 in this analysis will be:

14 estimated peak loads, resources and
15 margins for each year within the forecast period;

16 data on energy use and peak loads for the
17 five preceding calendar years;

18 existing generating facilities in
19 service;

20 scheduled generating facilities for which
21 property has been acquired for which certificates have
22 been issued and to which certificate applications have
23 been filed;

24 planned generating units and plant

1 locations for which property has been acquired, or at
2 plant locations not yet acquired, that will be needed to
3 provide estimated additional electrical requirements,
4 and the location of such facilities; and planned
5 transmission lines on which proposed route reviews are
6 being undertaken or for which certificate applications
7 have already been filed;

8 steps taken to upgrade existing
9 facilities and to eliminate overhead transmission and
10 distribution lines; and

11 electricity purchased from private power
12 producers.

13 The participants to the proceedings today
14 are as follows:

15 FirstLight Power Enterprises, Inc.,
16 Kenneth C. Baldwin, Esq. of Robinson & Cole, LLP;

17 Milford Power Company, LLC, Kenneth C.
18 Baldwin, Esq. of Robinson & Cole, LLP;

19 Lake Road Generating Company, LP, Kenneth
20 C. Baldwin, Esq. of Robinson & Cole, LLP;

21 Dominion Nuclear Connecticut, Inc.,
22 Kenneth C. Baldwin, Esq. of Robinson & Cole, LLP;

23 Connecticut Municipal Electric
24 Cooperative (CMEEC), Robin Kipnis, Esq., Assistant

1 General Counsel;

2 United Illuminating Company, Bruce
3 McDermott, Esq.; and

4 Connecticut Light & Power Company, Dan
5 Canavan, Esq., Senior Counsel and Elizabeth Maldonado,
6 Esq.

7 This hearing will continue tonight at
8 6:30 for the convenience of the public and thereafter if
9 necessary.

10 Any person who desires to make their
11 views known to the counsel can make an oral statement
12 this evening or submit a written statement to the
13 Council no later than July the 18th, 2013.

14 A verbatim transcript will be made of
15 this hearing and deposited at the Council's office in
16 New Britain for the convenience of the public.

17 Administrative notice to be taken by the
18 Council. I wish to call your attention to those items
19 shown on the hearing program marked as Roman Numeral
20 1-D. Items 1 through 10. Does any applicant have any
21 objection to any of those items being administratively
22 taken notice?

23 Hearing none, they will be
24 administratively noticed and taken notice by this

1 Council.

2 Our first participant is FirstLight Power
3 Enterprises.

4 Mr. Baldwin, do you have a panel?

5 ATTORNEY BALDWIN: Good Afternoon, Mr.
6 Chairman, Members of the Council.

7 My name is Kenneth Baldwin with Robinson
8 & Cole.

9 Here first this afternoon on behalf of
10 FirstLight Power Enterprises, Incorporated in this
11 proceeding, I would like to introduce the Council to our
12 witness today, Mr. Eric DeBarba.

13 Mr. DeBarba is the Director of New
14 England Origination for FirstLight Power. And I would
15 offer him to be sworn at this time.

16 CHAIRMAN MURPHY: Before we do that, if
17 the record will note that Council Member Edward Wilensky
18 has joined us.

19 MR. WILENSKY: Thank you, Mr. Chairman.

20 CHAIRMAN MURPHY: If you would rise, Mr.
21 DeBarba, Staff Counsel, Acting Executive Director, will
22 administer the oath.

23 (Whereupon the witness was sworn in.)

24

1 ERIC DeBARBA,
2 called as a witness by FirstLight Power Enterprises,
3 Inc., having been duly sworn, was examined and testified
4 on his oath as follows:

5 ATTORNEY BALDWIN: Mr. Chairman, we have
6 two exhibits to offer in this proceeding. The first is
7 FirstLight's Report of Forecast of Load and Resources,
8 dated February 20th, 2013 and FirstLight's responses to
9 the Council Interrogatories, which were submitted on
10 June 7th. And we offer them now for identification
11 purposes, subject to verification.

12 CHAIRMAN MURPHY: Is that June 7th or May
13 31st?

14 ATTORNEY BALDWIN: I apologize, May 31st.

15 CHAIRMAN MURPHY: Thank you.

16 ATTORNEY BALDWIN: The hearing program
17 will be corrected.

18 CHAIRMAN MURPHY: I just happened to be
19 looking at it and seeing different dates that you had
20 given.

21 Is there any objection to us taking it in as an
22 exhibit.

23 Hearing none, you may proceed, Mr.
24 Baldwin.

1 ATTORNEY BALDWIN: Thank you, Mr.
2 Chairman.

3 DIRECT EXAMINATION

4 BY ATTORNEY BALDWIN:

5 Q. Mr. DeBarba, did you prepare or assist in the
6 preparation of the two exhibits listed in the hearing
7 program under Roman II, Section B-1 and 2?

8 A. Yes, I did.

9 Q. And do you have any corrections, amendments or
10 modifications to offer to any of that information at
11 this time?

12 A. I do not.

13 Q. And is the information contained in those
14 exhibits true and accurate to the best of your
15 knowledge?

16 A. Yes.

17 Q. And do you adopt the information in those
18 exhibits as your testimony in this proceeding?

19 A. I do.

20 Q. Okay.

21 ATTORNEY BALDWIN: Mr. Chairman, I offer
22 them as full exhibits.

23 CHAIRMAN MURPHY: Is there any objection
24 by any participants?

1 Hearing none, they are so admitted.

2 I assume your witness is ready for
3 cross-examination, Mr. Baldwin.

4 ATTORNEY BALDWIN: Yes, Mr. Chairman

5 CHAIRMAN MURPHY: We will start with Mr.
6 Perrone.

7 MR. PERRONE: Thank you, sir.

8 CROSS-EXAMINATION

9 BY MR. PERRONE:

10 Q. I understand ISO New England publishes a
11 monthly seasonal clean capability report and the data
12 gets updated monthly. But how often are seasonal clean
13 capability audits performed for FirstLight facilities?

14 A. For our larger units twice a year. Once in
15 the summer and once in the winter.

16 Q. You have all your units listed in the forecast
17 report. Could you tell us which ones are peaking units
18 or baseload or intermediate?

19 A. All of the hydro units are baseload units.
20 The peaking units are Waterbury, TunnelTen or TunnelJet
21 and Rocky River, which is a pump storage facility.

22 Q. So, does Rocky River only run during peak
23 conditions or do you run it daily?

24 A. It's run in peak -- peak periods. On peak

1 days and only during higher priced time.

2 Q. About how long could that run?

3 A. From it's full state in the summer to its
4 licensed limit it would be about 60 hours.

5 Q. Do you have any plans for any new generating
6 facilities in Connecticut or upgrades to existing
7 facilities?

8 A. Our Scotland hydro facility is undergoing a
9 FERC license currently, and we would plan to add about
10 one megawatt there.

11 MR. PERRONE: Thank you. That's all I
12 have.

13 CHAIRMAN MURPHY: We will move to the
14 Council Members, Dr. Bell.

15 DR. BELL: Thank you, Mr. Chairman. I
16 have no questions for FirstLight.

17 ATTORNEY BALDWIN: Yes, Mr. Chairman.

18 CHAIRMAN MURPHY: Mr. Ashton.

19 MR. ASHTON: No questions. Thank you.

20 CHAIRMAN MURPHY: Mr. Wilensky.

21 MR. WILENSKY: Mr. DeBarba, nice to see
22 you.

23 THE WITNESS: Yes. You as well.

24 MR. WILENSKY: Just a question

1 CROSS-EXAMINATION

2 BY MR. WILENSKY:

3 Q. FirstLight in Waterbury, the peaking
4 plant, how often does that run, or how often is that
5 called upon?6 A. We run about 300 hours a year. It's mostly
7 during -- you know, afternoons, higher priced periods.
8 And runs are fairly short, only an hour or two, but....9 Q. In other words, it's called upon all year
10 long, not just summer or winter months when the -- so,
11 it could be called upon at any time?

12 A. Oh, yeah. And it is.

13 Q. Successful plant?

14 A. Very much so.

15 MR. WILENSKY: Thank you.

16 Thank you, Mr. Chairman.

17 CHAIRMAN MURPHY: Thank you, Mr.

18 Wilensky.

19 Mr. Hannon.

20 MR. HANNON: I just have one question --

21 CROSS-EXAMINATION

22 BY MR. HANNON:

23 Q. The Scotland facility you mentioned and the
24 FERC license, that's also competing with Norwich, I

1 believe?

2 A. That's correct.

3 MR. HANNON: Thank you.

4 CHAIRMAN MURPHY: Mr. Lynch?

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

6 CHAIRMAN MURPHY: Rather than go through
7 the list, is there any applicant who's in appearance who
8 cares to question this panel?

9 If not, Mr. Baldwin, I think you can
10 excuse your witness. But you will stick with us for a
11 little while.

12 ATTORNEY BALDWIN: Thank you, Mr.
13 Chairman.

14 CHAIRMAN MURPHY: Next is Milford Power
15 Company, LLC.

16 ATTORNEY BALDWIN: Mr. Chairman, I would
17 like to introduce to the Council Mr. Chris Curtis. He's
18 the General Manager for Milford Power Company, LLC, and
19 I would offer him to be sworn.

20 CHAIRMAN MURPHY: Please rise, Mr.
21 Curtis.

22 (Whereupon the witness was sworn in.)

23

24

1 CHRIS CURTIS

2 called as a witness by Milford Power Company, LLC.,
3 having been duly sworn, was examined and testified on
4 his oath as follows:

5 ATTORNEY BALDWIN: Mr. Chairman, the
6 Milford Power Company has two exhibits. They are listed
7 in the hearing program. The Report of Forecast of Loads
8 and Resources dated February 8th, 2013 and Milford's
9 responses to the Council's Interrogatories dated June 7,
10 2013. And we offer them now for identification purposes
11 subject to verification.

12 CHAIRMAN MURPHY: Is there any objection
13 to them being offered for identification?

14 Hearing none, they are admitted for
15 identification.

16 Mr. Baldwin.

17 ATTORNEY BALDWIN: Thank you, Mr.
18 Chairman.

19 DIRECT EXAMINATION

20 BY ATTORNEY. BALDWIN:

21 Q. Mr. Curtis, did you prepare or assist in the
22 preparation of the information contained in the two
23 exhibits listed in the hearing program under Roman III,
24 B-1 and 2?

1 A. Yes, I did.

2 Q. Is the information contained in those exhibits
3 true and accurate to the best of your knowledge?

4 A. Yes, it is.

5 Q. Do you have any corrections, amendments or
6 modifications to offer to any of those exhibits?

7 A. No, I do not.

8 Q. And do you adopt the information contained in
9 those exhibits as your testimony this afternoon?

10 A. Yes, I do.

11 ATTORNEY BALDWIN: Mr. Chairman, I offer
12 them as full exhibits.

13 CHAIRMAN MURPHY: Does any participant
14 have any objection to either of these two items being
15 admitted?

16 If not, they're so received into
17 evidence, Mr. Baldwin.

18 We will start the cross-examination of
19 Mr. Curtis.

20 Mr. Perrone

21 MR. PERRONE: Thank you.

22 CROSS-EXAMINATION

23 BY MR. PERRONE:

24 Q. How often are seasonal clean capability audits

1 performed for the Milford facility?

2 A. The seasonal clean capability audits are
3 completed in the winter and summer for all the units.

4 Q. My understanding is the plant is currently
5 fueled by natural gas only right now?

6 A. Yes, it is. The fuel oil is suspended. The
7 fuel oil capability on both units. It has fuel oil
8 capability but that's been suspended so we're not
9 operating on fuel oil right now.

10 Q. Is it permanently suspended or --

11 A. It's temporarily suspended and it can be
12 reinvigorated when we choose to.

13 Q. Hypothetically, if you were to bring the oil
14 capability back, how long would that take?

15 A. The prior documentation from Milford which,
16 were under a previous owner, I wasn't the general
17 manager at the time, stated -- it was 120 days is what
18 they stated in the prior documentation.

19 Q. Is Milford a baseload, intermediate, or
20 peaking facility?

21 A. Milford is baseload and intermediate. It
22 pretty much operates base load following the demand of
23 electricity. So, in the summer months we're base
24 loaded. In the colder months we typically cycle on a

1 daily basis or on the weekend. So, it operates in both
2 of those modes, depending on the demand.

3 MR. PERRONE: Thank you. That's all I
4 have.

5 CHAIRMAN MURPHY: Dr. Bell, do you have
6 any questions?

7 DR. BELL: Thank you, Chair.

8 CROSS-EXAMINATION

9 BY DR. BELL:

10 Q. Mr. Curtis, there was a prediction at the end
11 of last year from the Energy Information Administration
12 of the DOE that natural gas delivered to electric
13 generators this year will average 22 percent higher than
14 during 2012. Are you experiencing that?

15 A. No, I am not. I'm not experiencing the -- I
16 can tell you as far as the plant goes and any gas issues
17 that we've had at the plant, but as far as the
18 predictions from that agency, I'm not -- I don't think I
19 can comment on that right now.

20 Q. Well, you were just saying that you're not
21 experiencing that I understand. Are you experiencing
22 any significant --

23 A. Oh, excuse me. I misunderstood the question.

24 No. Milford Power has not experienced any

1 curtailments or issues with the natural gas supply.

2 Sorry.

3 DR. BELL: Thank you very much.

4 Thank you, Mr. Chair.

5 CHAIRMAN MURPHY: Mr. Ashton.

6 CROSS-EXAMINATION

7 BY MR. ASHTON:

8 Q. If my memory is correct, you're supplied off
9 the Iroquois Pipeline. Is that correct?

10 A. Yes, sir.

11 MR. ASHTON: Thank you. Nothing further.

12 CHAIRMAN MURPHY: Mr. Wilensky.

13 MR. WILENSKY: No questions.

14 CHAIRMAN MURPHY: Mr. Hannon.

15 MR. HANNON: I have no questions.

16 CHAIRMAN MURPHY: Mr. Lynch.

17 MR. LYNCH: Just one question, that I
18 should know the answer to but I forget a lot.

19 CROSS-EXAMINATION

20 BY MR. LYNCH:

21 Q. Mr. Curtis, are you still using portable water
22 or do you draw from the Housotonic?

23 A. We draw from the Housotonic for the riverwater
24 system for the cooling towers and we have a backup

1 supply from the portable water system.

2 MR. LYNCH: Thank you very much.

3 CHAIRMAN MURPHY: Does any participant
4 have any questions of the Milford Power Company, LLC?

5 Hearing none, I guess your panel is
6 excused, Mr. Baldwin.

7 The next utility is Lake Road Generating
8 Company, LP.

9 I guess we don't change too much, do we?

10 ATTORNEY BALDWIN: We don't change yet,
11 Mr. Chairman. Not yet. Soon.

12 Chris Curtis with EchoPower is also the
13 General Manager at Lake Road. And I would assume we can
14 -- can we tell him that he's still sworn?

15 CHAIRMAN MURPHY: Yes.

16 ATTORNEY BALDWIN: And I would offer him
17 as our witness this afternoon on behalf of Lake Road
18 Generating.

19 (Whereupon the witness was examined)

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1 CHRIS CURTIS

2 called as a witness by Lake Road Generating Company,
3 having been previously sworn, was examined and testified
4 on his oath as follows:

5 ATTORNEY BALDWIN: Mr. Chairman, as with
6 the others we have two exhibits to offer on behalf of
7 Lake Road. They are the Lake Road Forecast of loads and
8 resources dated Feb. 20, 2013, and Lake Road's responses
9 to the Council's interrogatory -- interrogatories dated
10 June 7, 2013. I offer them for identification purposes
11 subject to verification.

12 CHAIRMAN MURPHY: Does any participant
13 have any objections to either of those two items being
14 taken for identification?

15 Hearing none, they are admitted for
16 identification.

17 Proceed, Mr. Baldwin.

18 ATTORNEY BALDWIN: Thank you, Mr.
19 Chairman.

20 DIRECT EXAMINATION

21 BY ATTORNEY BALDWIN:

22 Q. Mr. Curtis, did you prepare or assist in the
23 preparation of the information contained in the exhibits
24 listed in the hearing program under Roman IV, Subsection

1 B, Items 1 and 2?

2 A. Yes, I did.

3 Q. And do you have any corrections, modifications
4 or amendments to offer to any of that information at
5 this time?

6 A. No, I do not.

7 Q. Is the information contained in those exhibits
8 true and accurate to the best of your knowledge?

9 A. Yes, it is.

10 Q. And do you adopt that information as your
11 testimony this afternoon

12 A. Yes, I do.

13 ATTORNEY BALDWIN: Mr. Chairman, I offer
14 them.

15 CHAIRMAN MURPHY: Is there any objection
16 by any participants to admitting these two documents as
17 full exhibits?

18 Hearing none, they are so admitted, Mr.
19 Baldwin.

20 ATTORNEY BALDWIN: Thank you, Mr.
21 Chairman.

22 CHAIRMAN MURPHY: We will start the
23 questioning again with Mr. Perrone.

24 MR. PERRONE: Thank you, sir.

1 CROSS-EXAMINATION

2 BY MR. PERRONE:

3 Q. What is the current status of Lake Roads
4 dual-fuel capability for Unit 1?5 A. Lake Road's dual-fuel capability for Unit 1
6 has been suspended.7 Q. And hypothetically if the capability to run on
8 oil were to be reinstated how long would that take?

9 A. Fifteen days.

10 Q. And only Unit 1 has that?

11 A. Yes. Unit 1 is the only one that's
12 commissioned on fuel oil. Units 2 and 3 have fuel oil
13 capability but they were never initially commissioned on
14 fuel oil.15 Q. Okay. Is Lake Road a baseload, intermediate
16 or peaking facility?17 A. Similar to Milford, it's baseload and
18 intermediate depending on the demand.19 MR. PERRONE: Thank you. That's all I
20 have.21 CHAIRMAN MURPHY: Thank you very much,
22 Mr. Perrone.

23 Dr. Bell.

24 DR. BELL: Thank you, Mr. Chair.

CROSS-EXAMINATION

1
2 BY DR. BELL:

3 Q. I have the same question, Mr. Curtis.

4 A. There have been no curtailments at Lake Road
5 for gas.

6 Q. Okay. But you don't -- you draw from
7 Algonquin as --

8 A. Yes, we do

9 Q. -- as opposed to Iriquois?

10 A. Yes.

11 DR. BELL: Thank you very much.

12 THE WITNESS: You're welcome.

13 CHAIRMAN MURPHY: Mr. Wilensky.

CROSS-EXAMINATION

14
15 By MR. WILENSKY:

16 Q. Mr. Curtis, where is most of the power going
17 to? Is it going to Rhode Island or to Connecticut?

18 A. We're on the main inner-tie between Rhode
19 Island and Connecticut, the 345 KV transmission line, so
20 it --

21 Q. What is it -- maybe you've answered the
22 question. I'm sorry. What was the percentage to Rhode
23 Island, what's the percentage to Connecticut?

24 A. I don't know off the top of my head. It goes

1 out and flows into our substation and heads in the
2 direction based on the system demand. So, it flows in
3 the direction that it's needed to flow. I don't have a
4 percentage of power which it flows to each state.

5 Q. Is Connecticut getting some of the power?

6 A. Yes.

7 Q. A small portion or a large portion or you
8 don't know?

9 A. I don't know. The plant right now is not
10 currently classified as a Connecticut resource, but
11 after the transmission upgrades are completed it can be.

12 Q. For some reason or another I thought that was
13 going to change. I thought that Connecticut was going
14 to get most of that power. That hasn't changed as far
15 as you know?

16 A. Again, I'm not an expert in the power flow
17 once it gets out of the plant, so I can't really comment
18 where it goes.

19 MR. WILENSKY: Thank you, Mr. Curtis.

20 Thank you. Mr. Chairman.

21 CHAIRMAN MURPHY: Mr. Ashton.

22 CROSS-EXAMINATION

23 BY MR. ASHTON:

24 Q. Mr. Curtis, with the present transmission

1 configuration this is considered a Rhode Island Unit?

2 A. Yes, it is.

3 Q. Right or wrong.

4 A. Uh-huh.

5 Q. Would the proposed and approved additional
6 line from Cards Street top Rhode Island, will the
7 dispatch of the unit likely change do you think?

8 A. I don't think it will change. I think it will
9 be classified as a Connecticut Unit, but as far as the
10 dispatch of the unit I think it will be pretty
11 consistent with what you see now.

12 Q. So, really what the output of the unit is
13 going into the New England pool?

14 A. Exactly.

15 Q. It's not -- we don't divide electrons between
16 Connecticut and Massachusetts or Rhode Island.
17 It just goes to the pool.

18 MR. ASHTON: Thank you. Nothing further.

19 CHAIRMAN MURPHY: Thank you.

20 Mr. Hannon.

21 MR. HANNON: I have nothing.

22 CHAIRMAN MURPHY: Mr. Lynch.

23 MR. LYNCH: I have no questions, Mr.

24 Chairman.

1 MR. CHAIRMAN: I guess we can excuse Mr.
2 Curtis for real this time.

3 THE WITNESS: Thank you, Mr. Chairman.
4 Thank you very much.

5 CHAIRMAN MURPHY: Dominion Nuclear
6 Connecticut, Inc.

7 ATTORNEY BALDWIN: Mr. Chairman, on
8 behalf of Dominion Nuclear Connecticut I would like to
9 introduce the Panel to Mr. Richard MacManus.

10 Mr. MacManus is the Director of Nuclear
11 Safety and Licensing for Dominion Nuclear Connecticut.

12 And I would offer him to be sworn at this
13 time.

14 CHAIRMAN MURPHY: Please rise Mr.
15 MacManus.

16 Attorney Bachman will administer the
17 oath.

18 (Whereupon the witness was sworn in.)
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1 RICHARD MacMANUS,
2 called as a witness by Dominion Nuclear Connecticut,
3 Inc., having been duly sworn, was examined and testified
4 on his oath as follows:

5 ATTORNEY BALDWIN: Mr. Chairman, we have
6 two exhibits to offer on behalf of Dominion Nuclear
7 Connecticut. They are Dominion's Report of Forecast of
8 Loads and Resources, dated February 28th, 2013 and
9 Dominion's responses to the Council's Interrogatories
10 dated June 11th, 2013 and I offer them at this time for
11 identification purposes, subject to verification.

12 CHAIRMAN MURPHY: Does any participant
13 here today have any objection to either of these two
14 items being taken in as exhibits.

15 Hearing none, proceed, Mr. Baldwin.

16 ATTORNEY BALDWIN: Thank you, Mr.
17 Chairman.

18 DIRECT EXAMINATION

19 BY ATTORNEY BALDWIN:

20 Q. Mr. MacManus, did you prepare, assist in the
21 preparation or supervise in the preparation of the
22 information contained in the exhibits in the hearing
23 program under Roman V, Subsection B 1 and 2?

24 A. Yes, I did.

1 Q. Do you have any amendments, modifications or
2 corrections to offer at this time?

3 A. No, I do not.

4 Q. And is the information contained in those
5 exhibits true and accurate to the best of your
6 knowledge?

7 A. Yes, it is.

8 Q. And do you adopt the information in those
9 exhibits as your testimony this afternoon.

10 A. Yes, I do.

11 ATTORNEY BALDWIN: Mr. Chairman, I offer
12 them.

13 CHAIRMAN MURPHY: Does any participant
14 have any objection to either of these two items being
15 accepted as full exhibits?

16 Hearing no objection, they are so
17 admitted, Mr. Baldwin.

18 ATTORNEY BALDWIN: Thank you, Mr.
19 Chairman.

20 CHAIRMAN MURPHY: Alright. We will
21 proceed with the cross-examination by Mr. Perrone from
22 our staff.

23 MR. PERRONE: Thank you.

24 CROSS-EXAMINATION

1 BY MR. PERRONE:

2 Q. How often are seasonal clean capability audits
3 performed for Millstone?

4 A. We perform those two times a year. One in the
5 summer, one in the winter. And the summer, June 1st
6 through August 31st, and winter, November 1st through
7 April 15th.

8 Q. And the response to Question #1 in the
9 interrogatories I noticed Dominion made some slight
10 updates to the seasonal claim capability numbers. Are
11 those the June numbers?

12 A. Those are not June 2013 numbers.

13 Q. Okay.

14 A. Those are from last year.

15 You're speaking to the summer clean
16 capability. Those are not for this June. The summer
17 ones are from last summer. The winter are accurate for
18 this past winter. Is that what you're asking?

19 DR. BELL: I'll just follow up, because
20 I'm looking perplexed.

21 THE WITNESS: Yes.

22 DR. BELL: But you did do -- you did or
23 didn't do a June update this year?

24 THE WITNESS: We did submit a new update

1 in the interrogatory as was stated that is inaccurate.
2 But the numbers that are reflected as 2012 -- the 2013
3 numbers would be being performed later on during the
4 summer period when we do that clean peak capability.

5 DR. BELL: It hasn't been done yet?

6 THE WITNESS: No. It has not been done
7 yet.

8 DR. BELL: Okay. I'm just trying --

9 THE WITNESS: I'm just trying to make
10 sure --

11 DR. BELL: -- to get it all straight.

12 THE WITNESS: -- it's clear for you all.

13 DR. BELL: Thank you very much.

14 Thank you, Mr. Chair.

15 BY MR. PERRONE:

16 Q. Approximately how many months apart are
17 refueling performed for a given Millstone unit?

18 A. It depends. Right now Unit 2 leads the Unit 3
19 refueling outages. Both are on an 18 month cycle. So,
20 that means Unit 2 has about six months before the Unit 3
21 refueling outage.

22 And then accordingly we have nine months
23 before Unit 3 will have the Unit 2 refueling outage.
24 So, every 18 months we have a refueling cycle. Two in

1 some years. That would be 2014 has two in that year,
2 one on the other two years, off years.

3 Q. Has construction been completed for the
4 replacement of the normal station service transformer
5 and reserve station service transformer for Unit 2?

6 A. We did do the replacement for the reserve
7 station service transformer for 2-R-21. That's our
8 refueling outage that we had last year in 2012, in the
9 November time period.

10 We have not done the normal station service
11 transformer replacement. That will be next spring in
12 2014, in the April time period.

13 MR. ASHTON: You do that when you're
14 going to do a refueling?

15 THE WITNESS: Yes. We do those during
16 refueling because of the potential safety risk
17 associated with that.

18 MR. ASHTON: Right.

19 BY MR. PERRONE:

20 Q. What is the current status of the EPA proposed
21 cooling water intake structure rule and how do you
22 expect it will affect Millstone?

23 A. Right now that's pure speculation on those
24 people's part. Right now they have a June 27th, 2013

1 deadline. The media indicates that that is running
2 tight to schedule and may not meet that deadline. But
3 right now we don't know. That's coming up next week.
4 We'll see if they do meet their deadline within EPA to
5 issue that. But we have not heard whether they'll be
6 successful in getting that out in time.

7 MR. PERRONE: Thank you. That's all I
8 have.

9 CHAIRMAN MURPHY: Thank you, Mr. Perrone.

10 Dr. Bell.

11 DR. BELL: Thank you, Mr. Chairman. I
12 don't have any further questions for Dominion.

13 CHAIRMAN MURPHY: Thank you.

14 Mr. Ashton.

15 CROSS-EXAMINATION

16 BY MR. ASHTON:

17 Q. Dominion has done very well. Mr. MacManus is
18 squeezing the last drop out of number 2 and 3 units.
19 Are there any more capacity upgrades?

20 A. Right now we have no upgrades planned at this
21 point in time, but as you said, we have worked very
22 efficiently to get the most out of both units.

23 Q. Back when I had hair and it was brown there
24 was a 10 megawatt gas turbine as I recall at Millstone.

1 It was stationed -- emergency power, and I think it was
2 on Number 1 Unit. Is there any -- are there any
3 emergency generators to give you backup power for
4 managing the plant down there?

5 A. We do have emergency diesel generators for
6 both Unit 2 and Unit 3. There's two of those. And we
7 have a station black out diesel that also services both
8 Unit 2 and Unit 3. The one you're speaking to is no
9 longer operational for the Unit 1.

10 Q. Number 1 sure isn't operational.

11 A. That is correct.

12 Q. Is there any -- can ISO dispatch those
13 emergency generators to meet its needs, system needs?

14 A. They are not for the grid. Those are
15 specifically and solely for the support of the --

16 Q. Okay. It's exclusive of --

17 A. -- nuclear safety in the systems.

18 Q. Okay.

19 MR. ASHTON: Nothing further. Thank you
20 very much.

21 CHAIRMAN MURPHY: Mr. Wilensky.

22 CROSS-EXAMINATION

23 BY MR. WILENSKY:

24 Q. Are there any plans for any new construction?

1 A. There is no plans of new construction of a
2 generating facility at Millstone Power Station, if
3 that's what you're referring to.

4 Q. So, as far you folks in Connecticut, this is
5 it?

6 A. This is it right now, yes.

7 MR. WILENSKY: Okay. Thank you.

8 Thank you, Mr. Chairman.

9 CHAIRMAN MURPHY: Thank you.

10 Mr. Hannon?

11 MR. HANNON: I have no questions.

12 CHAIRMAN MURPHY: Mr. Lynch.

13 MR. LYNCH: I have just a few.

14 CROSS-EXAMINATION

15 BY MR. LYNCH:

16 Q. I used to ask Mr. Winkley every year -- tell
17 him I said hello, by the way.

18 A. I will tell Dan that you said hello.

19 Q. I need to follow up on what Mr. Wilensky was
20 talking about.

21 Are there any plans at all to rehab Unit 1 in
22 any capacity, gas fired or anything, to put it on line
23 again?

24 A. No. There's no plans at all to do anything

1 with Unit 1 at this time to bring it back into a
2 generating mode.

3 Q. And another question I ask every year is the
4 -- we located a couple of the castings for the storage
5 facility down there. Are there any plans on a national
6 scale that you may know of now that Yucca Mountain is on
7 the way to Buffalo, to kinda -- a national repository
8 anywhere. Is anyone talking about that nationally.

9 A. There is a lot of discussion nationally about
10 a depository and that -- repository I should say -- for
11 the nuclear waste of the United States. That moves
12 around, and you hear rumors of different states
13 indicating interest, but nothing has been established.

14 They continue to have different councils of
15 blue ribbon committees meeting to take about Yucca
16 Mountain, even though that has been taken off the table.
17 So, the future is uncertain at this point in time as to
18 what will be done with the nuclear waste of the United
19 States and nuclear industry.

20 Q. Again, this comes up every year. Is there
21 something that we can do similar to what France does for
22 the -- I guess they reuse it again?

23 A. You have that capability, but the United
24 states back with President Carter, at Clinch River, did

1 decide not to go ahead and reprocess our fuel, so
2 therefore, we don't have any reprocessing facility on
3 the scale that would be needed.

4 There hasn't been any talk because of the
5 economy of scales with the current price of uranium.
6 So, I don't envision that right now for the United
7 States.

8 Q. And lastly, is there any construction of any
9 new nuclear power power plants in the U.S. under any
10 other construction or in the planning stage?

11 A. Yes. There's active construction both within
12 South Carolina and Georgia where new nuclear is being
13 built. That is underway and continues to move forward.

14 Q. Is there a possibility that that could move to
15 the northeast corridor somewhere?

16 A. There's always that possibility, yes

17 Q. Thank you, Mr. MacManus.

18 CHAIRMAN MURPHY: Thank you, Mr. Lynch.

19 Does any participant have any questions
20 of Mr. MacManus?

21 If not, I guess you're also excused.

22 ATTORNEY BALDWIN: Thank you.

23 MR. MacMANUS: Thank you.

24 CHAIRMAN MURPHY: Next is Connecticut

1 Municipal Electric Cooperative.

2 Good afternoon, Attorney Kipnis. Would
3 you introduce your panel for us please.

4 ATTORNEY KIPNIS: Good afternoon. My
5 name is Robin Kipnis. I'm the Assistant General Counsel
6 for the Connecticut Municipal Electric Energy
7 Cooperative.

8 And today I have with me two witnesses
9 from CMEEC. I would like to introduce Brian Forshaw.
10 He's our Director of Power Supply. And Mr. Charles
11 Carpinella, Load and Generation Analyst.

12 I would like to present them to the
13 Council at this point to be sworn.

14 CHAIRMAN MURPHY: Both rise. Attorney
15 Bachman will administer the oath.

16 (Whereupon the witnesses were sworn in.)
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24

1 BRIAN FORSHAW and CHARLES CARPINELLA,
2 called as a witness by Connecticut Municipal Electric
3 Cooperative, having been duly sworn, were examined and
4 testified on their oaths as follows:

5 CHAIRMAN MURPHY: Do you have some
6 exhibits?

7 ATTORNEY KIPNIS: I would like to offer
8 three exhibits listed in the hearing program as Roman
9 Numeral XVIII, Subsections B-1 through B-3.
10 These consist of the Report of Forecast of Loads and
11 Resources, dated March 1st, 2013, the response to
12 Council Interrogatories, dated May 30, 2013, and
13 response to Council Interrogatories dated June 7th,
14 2013. I would like to offer them to the Siting Council
15 for identification purposes, subject to verification.

16 CHAIRMAN MURPHY: Does any participant
17 have any objection to these three items being taken for
18 identification purposes at this time?

19 Hearing no objection, proceed.

20 DIRECT EXAMINATION

21 BY ATTORNEY KIPNIS:

22 Q. Mr. Carpinella, did prepare or assist in the
23 preparation of the exhibits listed in the hearing
24 program under Roman XVIII, Subsections B-1 through B-3?

1 A. Yes, I did.

2 Q. Do you have any additions, clarifications,
3 deletions or modifications to those documents?

4 A. Not at this time

5 Q. Are these exhibits true and accurate to the
6 best of your knowledge?

7 A. Yes, they are.

8 Q. Do you adopt these exhibits as your testimony
9 here today?

10 A. Yes, I do.

11 ATTORNEY KIPNIS: Mr. Chairman, I would
12 like to offer the exhibits listed in the hearing program
13 Roman Numeral XVIII Items B-1 through B-3 as full
14 exhibits.

15 CHAIRMAN MURPHY: Thank you.

16 Is there any participant who has any
17 objection to the admission of any one of these three
18 items, or more than one of these three items, as full
19 exhibits?

20 Hearing no objection they're so admitted.

21 I assume the panel is ready for
22 cross-examination. .

23 Mr. Perrone.

24 MR. PERRONE: Thank you, sir.

CROSS-EXAMINATION

1
2 BY MR. PERRONE:

3 Q. Does CMEEC submit a forecast to ISO New
4 England or forecast data to ISO New England for
5 infrastructure of planning purposes, or do they develop
6 their forecast completely independently?

7 A. (Mr. Carpinella) Their forecast is developed
8 independent of CMEEC's forecast. The only information
9 that CMEEC does supply to ISO New England on an annual
10 basis is a portion for the annual sub report, which is
11 issued April 1st. And most of that information that we
12 supply to the is verification of our generation
13 resources that we have on file with them.

14 Q. In the conservation and load management
15 section of the forecast report one of the items is the
16 Cool Choice, HVAC rebate Program. How does that program
17 work?

18 A. The program involves an arrangement with local
19 suppliers where rebates for energy efficient devices are
20 provided directly to the customer.

21 Q. So, that's like replacing their heating or AC
22 Units with more efficient units?

23 A. Correct

24 Q. Does CMEEC have time of use rates anywhere

1 within its service area?

2 A. We do have -- we have historically had what
3 are called real time pricing type rates for certain
4 large industrial customers.

5 Those -- under those arrangements the customer
6 bills are actually based upon the wholesale market costs
7 from the energy and other markets. And they get the
8 advantage of that.

9 We are in the process in conjunction with
10 development of an automated meter and infrastructure
11 system enabling several pilots to extend that type of
12 time bearing rate pricing to additional smaller customer
13 groups. But those are all -- those are pilot programs
14 right now.

15 Q. Have you seen any difference where their
16 customers have reacted with reduced usage due to higher
17 prices at peak demand periods, or is it too soon to
18 tell?

19 A. I think it's fair to say that certain of the
20 larger customers have changed their consumption patterns
21 in order to avoid charges that might be allocated on a
22 monthly peak basis. And there's a fairly active effort
23 to work with us and monitor that.

24 Q. Generally when we experience a heat wave,

1 let's say it's several days long, we usually find or
2 expect that the peak demand grows from the beginning of
3 the heat wave until the end, like the peaks are higher
4 with each following day?

5 A. Yeah. I would say. In fact, we experienced
6 one here recently on May 30th through Saturday June 1st
7 where the loads were. It takes a while to build up.
8 And also it's a function of the time of the year. You
9 know, sometimes during the month of May people may not
10 be ready to turn on their air conditioners yet, but
11 after a certain period of day -- the second or third day
12 is usually when you feel the full impact of a heat wave.

13 Q. I don't know if you have this off the top of
14 your head, but would you know the typical kilowatt usage
15 on average per month for a residential customer?

16 A. Yeah. This question was raised last year by
17 Mr. Ashton.

18 In our late file exhibit last year for
19 calendar year 2011 I believe the number came in at 740
20 kilowatt hours per customer. That was overall -- all of
21 CMEEC's members, participants.

22 The number for calendar year 2012 is over,
23 again, all customers, and that came out to be 717
24 kilowatt hours per customers. Again, that's residential

1 over all of CMEEC's members and participants.

2 Q. And my understanding is all of CMEEC's load is
3 Connecticut, except for about one megawatt going out to
4 Fisher's Island?

5 A. That is correct. Yes

6 MR. PERRONE: Thank you. That's all I
7 have.

8 CHAIRMAN MURPHY: Thank you, Mr. Perrone.

9 Dr. Bell.

10 DR. BELL: Thank you, Mr. Chairman.

11 CROSS-EXAMINATION

12 BY DR. BELL:

13 Q. Mr. Carpinella, just to follow up on your
14 answer just now. In last year's late file you came up
15 with 740 kilowatts.

16 A. Yes.

17 Q. So, the 717 is this year's

18 A. For calendar year 2012.

19 Q. Calendar --

20 A. The 740 number is for calendar year 2011.

21 Q. Okay. Thank you.

22 A. Yup.

23 Q. In the interrogatory from us, May 30th, number
24 7, you responded to a question about whether you had a

1 decommissioning plan. Could you just explain why you
2 answered no

3 A. Sure. On an ongoing basis we look at, you
4 know, what do we expect given normal operation of our
5 facilities, our peaking unit, what the normal service
6 life would be, and at this point it's indeterminate
7 because they don't run very often. We will keep on
8 monitoring that, and if that changes, obviously we
9 would. But so at this point we just don't have a
10 formal decommissioning plan because we just haven't set
11 a date.

12 Q. Okay. Thank you.

13 Could you tell us what the status is of the
14 Backus Hospital Microgrid Plan?

15 A. (Mr. Forshaw) The Backus Hospital project
16 where our -- has been formerly approved by our board
17 now. The project development plan is being finalized
18 right now. Part of that obviously will be any related
19 regulatory filings. It could come before this
20 commission, as well as the air permit process.

21 We're also participating in the State
22 Microgrid Program, as well, -- or actually, the City of
23 Norwich is. Is participating in it. And at this point
24 I believe the project is on track for an effective date

1 some time in the first half of 2014.

2 Q. So, have they received funding through the
3 state plan?

4 A. Not yet

5 Q. Thank you.

6 Do You have any smart grid technologies
7 planned for your transmission system during the next
8 forecast period? By which I mean something like faxed
9 devises or a phasor measurement units or transmission
10 grid storage or things like that?

11 A. Not at our level. Our members are mostly
12 down at the distribution level voltages and those are
13 the -- that's the focus of their existing sparkler
14 program.

15 DR. BELL: Thank YOU.

16 Thank you, Mr. Chairman.

17 CHAIRMAN MURPHY: Thank you, Dr. Bell.

18 Phil.

19 MR. ASHTON: Just following on that
20 question ...

21 CROSS-EXAMINATION

22 BY MR. ASHTON:

23 Q. Are you proposing TOD metering for residential
24 customers?

1 A. In fact, a number of our members are
2 implementing those.

3 Q. What's it cost to install a TOD meter? Time
4 of day meter. Approximately.

5 A. The AMI infrastructure -- this is subject to
6 check, but off the top of my head I believe our program
7 is on the order of 300 to 400 dollars per location.

8 Q. Per customer.

9 I have to confess a degree of unease about
10 these meters because if you take \$400.00, just as a
11 number, and take an annual carrying charge on them of 20
12 percent, which is probably maybe a bit high, but that
13 says you're going to spend \$80.00 per year as your
14 carrying charge. And on a small residential it doesn't
15 strike me that the benefits are going to be commensurate
16 with the expense. Especially when you get low use
17 customers. What's the incentive for them to change
18 their lifestyle? Which is dictated by extraneous
19 matters in many instances?

20 A. In -- that's a great question. We struggle
21 with that as well. I think there really ends up being,
22 as we've looked at it, there ends up being several
23 buckets of benefits, value that's brought out.

24 There are -- there is value that's brought to

1 the local utility just in terms of being able to monitor
2 what's going on on the distribution system to be able to
3 identify outages, unusual service characteristics,
4 things of that nature, which can lead to efficiencies of
5 not having to roll a truck to diagnose a problem, then
6 send someone else out to solve it and those sorts of
7 things.

8 Just the direct benefit of not having to
9 actually deploy meter readers in the field, but rather
10 get the data --

11 Q. That's automatic meter reading --

12 A. Right

13 Q. -- and I understand that. I'm very very
14 familiar with automatic meter reading.

15 A. And then from a --

16 Q. But that's not TOD metering. Automatic meter
17 reading can be separated from TOD meter reading.

18 A. It can be, although the AMI infrastructure
19 that's being deployed, at least within the municipal
20 areas actually do provide a level of, you know,
21 sub-hourly granularity if needed.

22 Q. Okay. I don't want to flog it to death.

23 AS I recall, Norwich has three little hydro
24 units. Tenth Street, Second Street and Oakum?

1 A. Yes.

2 Q. They were there when I was there 50 years ago
3 and I guess they're still running.

4 I lived on Boswell Avenue when it was a nice
5 neighborhood.

6 How big are those units? They're in the order
7 of 2 megawatts a piece; aren't they?

8 A. If that, yeah.

9 Q. And the output varies, obviously, by season.

10 A. The river hydro and --

11 Q. And what do they do -- come on by flood switch
12 or something like that?

13 A. There's flood switch. I think one of the
14 units actually has a small amount. It's -- it might be
15 equivalent of an hours worth of generation.

16 Q. The reasons I ask is that looking at the May
17 16th response, CS-2, page 1 of 1, which is the weather
18 normalize historical peak loads. And then looking at
19 those I'm wondering whether -- they're all pretty close
20 together. And I'm wondering whether or not they all
21 include the three hydro plants operating at the time of
22 peak?

23 A. Oh, in terms of the historical tables for
24 Norwich, those numbers are probably included on the

1 energy side. In terms of whether or not they were
2 operating at the time of the peak -- if that's something
3 that you want in a late file exhibit I can get that
4 information or you, sir.

5 Q. Well, --

6 A. They probably were.

7 Q. I don't want to flog this to death. If you
8 look at ten years of numbers, it's been flat growth.

9 A. When Norwich is running these units, obviously
10 -- because these are owned by Norwich.

11 Q. Right.

12 A. And they use it to offset their own load.

13 Q. Right. I understand that.

14 A. Let me try and put a little bit of clarify in
15 here.

16 I believe for the most part during this period
17 annual peaks are during the summer, and that's the time
18 when the output of those units is actually at its
19 lowest.

20 Q. Right. I understand. I'm familiar with hydro
21 operation.

22 Nonetheless -- in so far as there is any water
23 do you try and optimize the use of those units at all or
24 is it strictly turn them on in the morning and they'll

1 run until the float switch says they're out, and then
2 shut them down.

3 A. Yeah. That's about it. There's very limited
4 capability of controlling it.

5 Q. Okay. Would you agree that the -- that one
6 sheet, as I mentioned, the CS-2, page 1 of 1, the
7 weather normalized historical peak says you got a pretty
8 flat load for a ten year period.

9 A. Yes.

10 Q. Especially if you toss out 2011, which looks
11 like it's -- there might be some anomalous data in
12 there.

13 A. I think that's fair.

14 MR. ASHTON: Okay. Nothing further.
15 Thank you very much.

16 CHAIRMAN MURPHY: Mr. Wilensky.

17 CROSS-EXAMINATION

18 BY MR. WILENSKY:

19 Q. Mr. Carpinella, one of the questions asked of
20 you does -- do the units have blackstar capability?
21 Clue me in -- what is blackstar capability? I know it's
22 asked of several of the people here today.

23 A. (Mr. Carpinella) That is not my area of
24 expertise, so I would be the wrong person to ask that

1 definition.

2 Q. Then I don't feel so bad then. You don't have
3 the answer, and neither do I.

4 A. I just know that all of our units that are
5 filed on a March 1st document, and none of them had that
6 capability.

7 MR. FORSHAW: Blackstar capability
8 represents the ability of a generating resource to come
9 on line when there's no auxiliary power that's available
10 from the grid.

11 Q. And you don't have that ability then?

12 A. (Mr. Forshaw) We --

13 Q. I think your answer was that you have it on --
14 none of the units in the Connecticut listing in Question
15 2 have blackstar capabilities, so you don't have that?

16 A. That's correct

17 Q. Why?

18 A. Let me backup. Blackstar capability in the
19 context of ISO means a defined set of units that are
20 part of a system restoration plan. So, you need to bring
21 back units in an orderly fashion, in a coordinated
22 fashion, otherwise it have an impact on the transmission
23 system. So, none of our units are involved in the
24 system restoration plan. And that's why we don't

1 consider them having Blackstar capability.

2 MR. WILENSKY: Thank you very much.

3 Thank you, Mr. Chairman

4 CHAIRMAN MURPHY: Mr. Hannon.

5 MR. HANNON: The one question I have
6 deals with the Norwich Public utilities.

7 CROSS-EXAMINATION

8 BY MR. HANNON:

9 Q. I thought that Norwich was looking at
10 competing with FirstLight for the first license for
11 Scotland. Is that correct?

12 A. Again, not our --

13 Q. Okay. That's why we're going with that, just
14 to whether or not that was an issue that you were
15 involved in or not?

16 A. No. We're not involved in that. I'm
17 generally aware that Norwich has filed a competing
18 application, but that's about it?

19 MR. HANNON: Okay. Thank you.

20 CHAIRMAN MURPHY: So, in essence, Norwich
21 is a member. That's a venture onto themselves?

22 MR. FORSHAW: Correct.

23 CHAIRMAN MURPHY: Mr. Lynch.

24 MR. LYNCH: Mr. Carpinella, say hello to

1 Mr. Stern for us.

2 MR. CARPINELLA: I will.

3 MR. LYNCH: No questions, Mr. Chairman.

4 CHAIRMAN MURPHY: Thank you.

5 Does any participant here have any
6 questions for either member of this panel.

7 If not, I guess you're excused.

8 Next up is United Illuminating Company.

9 And after that is CL&P.

10 Is there any other generator or utility
11 here, other than those two that have exhibits that will
12 be offered today or want to offer?

13 (No response.)

14 Mr. McDermott, do you want to introduce
15 your panel for us please?

16 ATTORNEY McDERMOTT: Mr. Murphy, good
17 afternoon.

18 Bruce McDermott on behalf of the United
19 Illuminating Company.

20 I have with me today, to my immediate
21 right, Mr. Robert Manning, who is the Manager of System
22 Integrity. Next to him is Donna Wells, Manager of
23 Technical Support Services, followed by Mark Colca,
24 Manager for Pricing, and Devang Patel, Principle

1 Business Development Professional, following
2 Mr. Christian Bilchek, Director of Asset Planning.

3 CHAIRMAN MURPHY: All rise. Attorney Bachman
4 will administer the oath.

5 (Whereupon the witnesses were sworn in.)
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1 ROBERT MANNING, DONNA WELLS, MARK COLCA,
2 DEVANG PATEL, and CHRISTIAN BILCHEK,
3 called as witnesses by the United Illuminating Company,
4 having been duly sworn, were examined and testified
5 their oaths as follows:

6 CHAIRMAN MURPHY: Mr. McDermott, do you
7 have some exhibits for us?

8 ATTORNEY McDERMOTT: We have two exhibits
9 for identification. First the Company's Report of
10 Forecast of Loads and Resources dated March 19, 2013 and
11 then the company's responses to interrogatories dated
12 May 30th, 2013.

13 CHAIRMAN MURPHY: Does any participant
14 have any objection to these items being taken for
15 identification?

16 Hearing none, proceed, Mr. McDermott.

17 DIRECT EXAMINATION

18 BY ATTORNEY McDERMOTT:

19 Q. Mr. Manning, did you prepare, supervise or
20 assist in the preparation of the company's report dated
21 March 19, 2013?

22 A. Yes, I did.

23 Q. And do you have any changes or corrections to
24 that report?

1 A. No, I do not.

2 Q. And do you adopt that report here today?

3 A. Yes.

4 Q. And the same questions as to the company's
5 interrogatory responses dated May 30th, 2013. Did you
6 prepare or assist in the preparation or oversee the
7 supervision and the preparation of those interrogatory
8 responses?

9 A. Yes, I did.

10 Q. And do you have any changes or corrections to
11 those?

12 A. Yes, I do. To CSE-001, the interrogatory
13 response. I have a table that I'll read in, but we can
14 also provide that as a revised interrogatory response.

15 CHAIRMAN MURPHY: Why don't you do both.

16 MR. MANNING: Okay.

17 So, starting with 2003, the number should
18 be 1,221 megawatts;

19 2004 should be 1,229 megawatts;

20 2005, 1,235 megawatts;

21 2006, 1,241 megawatts;

22 2007, 1,247 megawatts;

23 2008, 1,253 megawatts;

24 2009, 1,259 megawatts;

1 2010, 1,265 megawatts;

2 2011 1,271 megawatts; and

3 2012, 1277 megawatts.

4 CHAIRMAN MURPHY: Thank you.

5 ATTORNEY McDERMOTT: And we will file a
6 corrected response.

7 BY ATTORNEY McDERMOTT:

8 Q. And for clarification, Mr. Manning what is the
9 reason for the changes that you just identified?

10 A. Oh, yes. The interpretation of the
11 interrogatory originally was -- we thought you were
12 looking for sales, and that was included in the answer.
13 Annual energy sales on a 50/50 basis.

14 I believe the question was relative to peak.

15 Q. And with those changes do you adopt those
16 interrogatory responses here today?

17 A. Yes, I do.

18 ATTORNEY McDERMOTT: Thank you,
19 Mr. Murphy. Everyone is ready for cross examination.

20 CHAIRMAN MURPHY: Does any participant
21 have any objection to these items being taken in as full
22 exhibits.

23 Hearing none, lets start cross
24 examination.

1 Mr. Perrone.

2 MR. PERRONE: Thank you, sir.

3 CROSS-EXAMINATION

4 BY MR. PERRONE:

5 Q. Does UI submit a forecast to ISO for
6 infrastructure planning purposes?

7 A. (Mr. Bilchek) ISO New England develops load
8 forecasts for the state of Connecticut and allocates
9 zero to UI, so we do not provide a forecast for planning
10 use; however, we do provide them information that allows
11 them to properly allocate their forecast to our
12 substation because they don't forecast to the substation
13 load.

14 Q. One question I had asked CMEEEC. Do you know
15 the average kilowatt hour usage for a typical
16 residential customer per month?

17 A. (Mr. Manning) Yeah. Per month is about 650
18 kilowatt hours.

19 Q. Also, when you experience a heat wave several
20 days long do you generally expect the peak load to
21 increase daily.

22 A. Typically we experience that unless it happens
23 like over a weekend or maybe on a Friday. Let's say the
24 last day of the heat wave, we may not see the peak then.

1 Or if it's a Saturday or a Sunday, or even a holiday.
2 But if it was a Monday, Tuesday, Wednesday -- Wednesday
3 would generally be the highest peak period.

4 Q. Is that because during the weekend you might
5 have less commercial and industrial customers?

6 A. Correct.

7 Q. Okay. In response to Question #3 of the
8 interrogatories I see there's a 2.85 percent grossed up
9 factor for line losses. So, basically are those
10 reductions in loads since -- with the conservation and
11 load management measures, you'd have less load, so then
12 you would have less line losses to go along with that?

13 A. Yes. Basically, yes.

14 Q. Is ISO's -- is UI's demand response program
15 associated with the ISO New England Motor Response
16 Program?

17 A. It's the -- Iso, yeah. Basically our response
18 in here is the ISO Program. So, when they do the calls,
19 this is what you're seeing as a reduction.

20 Q. Does the LREC L-R-E-C, or the ZREC, Z-R-E-C,
21 program affect your forecast at this time? And if so,
22 how?

23 A. So, what we did for distributed generation, we
24 included those bidders into the LREC and ZREC programs

1 that successfully bid in; however, we did not include
2 that as peak reductions.

3 For peak reductions the way we treated
4 that was actual DG interconnection applications that we
5 have -- have received and that are being evaluated.
6 Those are included as peak reduction.

7 Q. Also, on page 12 of the UI forecast it talks
8 about different lighting technologies. Do you see LED
9 lighting as like the next generation lightbulb after
10 CFL's?

11 A. (Ms. Wells) Yes, we do. We're planning --
12 that's part of the planning process in the conservation
13 work programs and promoting those -- that type of
14 product.

15 Q. Also, after LED it mentions induction
16 lighting. What is induction lighting and how does that
17 work?

18 A. I couldn't explain that.

19 Q. I'll move on.

20 Does UI have time of use rates in its service
21 area?

22 A. (Mr. Manning) Yes, we do.

23 Q. Has it been UI's experience that customers
24 have reduced usage during peak demand periods in

1 response to higher prices?

2 A. Generally we have not seen that. We have had
3 time of use rates for quite some time now. And I think
4 it's based on somebody's comfort level. So, as you
5 mentioned, you know, on a multiple day heat wave -- even
6 with a little increase in price, people want to feel
7 comfortable and be comfortable so, they will turn their
8 air conditioning on. And that is the main driver of our
9 peak, is the air conditioning load.

10 Q. Generally what kind of smart grid features has
11 UI implemented in its service area?

12 A. There are a few items that we're looking at
13 and that we have implemented. One item we are
14 investigating is what's called a field area network.
15 We're working with EPRI, E-P-R-I, to look at, you know,
16 basically cyber security issues, coverage issues, and
17 that would allow for two way communications with field
18 devices, like switches.

19 We're also in the process of implementing a
20 historian, which will allow basically the receiving of
21 large amounts of data for visualization and analysis.
22 So, this would be through our Scada, S-C-A-D-A, system.
23 So, if we had these field devices out -- you know, out
24 there, we could collect, you know, watts, bars,

1 different information, fault data, and be able to
2 process that data.

3 On the transmission side, I don't know if
4 Mr. Bilchek wants to add what we're doing. Some
5 analysis with Geomagnetically induced currents. We're
6 monitoring some of our larger transformers. Add some
7 of the -- see if we're seeing any currents based on
8 geomagnetic disturbances.

9 Also, we're moving towards microprocessor
10 based relays on the transmission system to allow for
11 better fault analysis. More data to allow for fault
12 analysis.

13 I think in last year's hearing we talked about
14 our pilot with the home area network where we're
15 allowing consumers to basically look at their usage and
16 each appliance in their home. You know, what the
17 refrigerator is using, what the -- different appliances
18 are using. Were they could make educated decisions on,
19 hey, let me change the thermostat to turn off my air
20 conditioning. And the idea of that would be to put
21 pricing signals into the display to allow them to make,
22 you know, economic based decisions. Participation on
23 that was somewhat low, so we had to discontinue that
24 pilot.

1 Some other items we're looking at is updating
2 our capacitor communications. Right now it's really a
3 one way communication to the capacitor banks in the
4 field for our control. We're looking at implementing a
5 two way communication system there to allow for patrol
6 and verification that the capacitor bank closed and came
7 on line.

8 MR. PERRONE: Thank you. That's all I
9 have.

10 CHAIRMAN MURPHY: Thank you, Mr. Perrone.
11 Dr. Bell.

12 DR. BELL: Thank you, Mr. Chair.

13 Just following up on Mr. Perrone's last
14 question.

15 CROSS-EXAMINATION

16 BY DR. BELL:

17 Q. I'm not sure if Mr. Bilchek got a chance to
18 add anything he wanted to say?

19 A. (Mr. Bilchek) No. I believe you -- Dr. Bell,
20 you asked a question to CMEEC regarding PM use -- if
21 there were any plans to install PM use, which are phasor
22 measurement units, which --

23 CHAIRMAN MURPHY: Mr. Bilchek, can you
24 speak up.

1 MR. BILCHEK: Yeah. It's not working too
2 well, is it?

3 Is that better now?

4 So, we -- UI has installed four phasor
5 measurement units on our system in collaboration with
6 ISO New England, and we provide that data to ISO New
7 England for their purposes of situational awareness and
8 future plans to use in daily operations.

9 Bob Manning also mentioned about
10 monitoring geomagnetically induced currents. We have
11 four 345 KV to 115 KV auto transformers on our system
12 which we have begun monitoring for these geomagnetically
13 induced currents and trying to correlate the magnitude
14 of those currents with solar storm disturbances. And
15 we've been working with ISO in collaboration with that?

16 DR. BELL: Thank you.

17 BY DR. BELL:

18 Q. In Exhibit 2 of your initial report, which has
19 to do with transmission system planned modifications.
20 It's page 25 of the report. It looks to me as if you
21 left out the station in Shelton. Am I missing
22 something?

23 A. (Mr. Manning) Well, we talk about shelton in
24 the report. The way this exhibit is laid out is it's

1 list of planned transmission projects, which
2 applications are being contemplated or maybe subject to
3 declaratory ruling, or have already been filed, or
4 projects which have received CSE declaratory ruling.

5 For Shelton, at the time of this report we did
6 receive approval, so we did not include it in this
7 exhibit.

8 Q. Oh, I see. I was trying to put it into the
9 have already been filed. But you're saying it even got
10 beyond that because it was already approved

11 A. Correct

12 Q. Thank you.

13 You have a program to encourage CHP, which is
14 called zero capital upfront; ZCAP.

15 A. (Mr. Patel) I can talk a little bit about
16 that. In our business development efforts, it's one of
17 those efforts that's trying to look at how we can put
18 them all together to allow customers to install
19 distributed generation at their locations with zero
20 capital and expense by involving other parties in the
21 transaction too. And it's just one of those efforts
22 where -- considering just to support some of this effort
23 for customers that are interested, but have not taken
24 any further steps, but we haven't really formalized any

1 plans associated with it yet.

2 Q. Just to ask about the last part of what you
3 said. You have the program. You've made it known to
4 people -- some of your customers, but nobody has taken
5 advantage of it. Is that more or less a paraphrase?

6 A. No. It's more or less just discussions at the
7 moment. And folks who are interested following, you
8 know, events of the storms where perhaps they may be
9 considering some sort of generation on their location to
10 mitigate some issues they may have experienced, but have
11 -- don't have the ability to necessarily finance those
12 kinds of projects themselves. And the ability to
13 involve other parties, like other energy service
14 companies or commercial companies that can help
15 customers to actually implement solutions?

16 Q. Are you testing this or are you -- are you
17 actively seeking participation and how long will it
18 continue?

19 A. Well, I think that all we've basically done is
20 talk to a few customers who have indicated that they
21 want to pursue some effort along these lines. And just
22 supporting those efforts from a sales and customer
23 management perspective what we're trying to do is just
24 help them understand better what their options are.

1 Q. I see. Okay. Thank you.

2 DR. BELL: Those are my questions,
3 Mr. Chair.

4 CHAIRMAN MURPHY: Mr. Wilensky.

5 CROSS-EXAMINATION

6 BY MR. WILENSKY:

7 Q. Do you see any projected growth in the area
8 that you service as far commercial or industrial in the
9 several years?

10 Are there any projects that might be coming on
11 line? I don't mean as far as energy goes, but as far as
12 industrial or commercial complexes that you will be
13 servicing?

14 A. (Mr. Manning) Well, we do have specific
15 customers that are growing

16 Q. Yes. That's what I'm getting at, yeah

17 A. We have a chlorine manufacturer -- I don't
18 want to go into specific names, but a chlorine
19 manufacturer that's expanding in the next couple of
20 years. So, yeah, there is some growth.

21 We also have some commercial areas that are
22 looking to expand in the Bridgeport area. So, we are
23 seeing commercial and industrial growth, or we have
24 forecasted commercial and industrial growth.

1 Q. Do you see any need for new energy coming on
2 -- energy plants coming on line or being built to supply
3 these areas, or do you think there's an adequate amount
4 of energy at the present time?

5 A. Well, I think this is the forum to kinda
6 discuss that. You know, basically on the annual report
7 that comes out, the Council looks at the match of the
8 resources and loads. And I think the latest report
9 showed we do have sufficient generation to meet the
10 projected load.

11 MR. BILCHEK: Bob, I could help with that
12 too.

13 So, ISO New England is looking forward at
14 the capacity needs in New England going forward. They
15 have the forward capacity market and their analysis has
16 showed that we have enough generation and supply to meet
17 the demand. Of course, that's been helped in
18 Connecticut by projects like News that have allowed for
19 increased transfer capability into Connecticut.

20 But we are at risk if some of these older
21 fossil generators retire -- right, so ISO New
22 England has all this other interest that they're keeping
23 a close eye on, how that all transpires and to make sure
24 that we're not short in the future should a large amount

1 of generation retire.

2 Q. Okay.

3 MR. WILENSKY: Thank you, gentlemen.

4 Thank you, Mr. Chairman.

5 CHAIRMAN MURPHY: Mr. Ashton.

6 MR. ASHTON: Following on

7 CROSS-EXAMINATION

8 BY Mr. ASHTON:

9 Q. Are you aware of any of the generators in your
10 service area, and New Haven Harbor and Bridgeport Harbor
11 I guess covers it pretty well, that are tending to
12 retire any of the units in the near future?

13 A. (Mr. Bilchek) Not specifically retire, though
14 I am aware from the filings through this process that
15 Bridgeport Harbor II does not have an obligation to ISO
16 New England to run in any of their markets, and they are
17 in our service territory.

18 Q. Yup. And they're a fairly old unit, aren't
19 they?

20 A. Yes.

21 Q. I want to talk for a second about the UI
22 forecast versus the ISO forecast. ISO has opted not to
23 participate in this year's hearing, and that inevitably
24 leads to a little wondering as to how compatible your

1 work is that of ISO. Do you reconcile differences in
2 your forecast with that of ISO, and I'm not sure who I'm
3 addressing this to.

4 A. Yeah no. I'll take that one.

5 So, we do work very closely with Iso New
6 England because the load forecast that ISO New England
7 uses for regional transmission planning purposes is the
8 ISO New England Load Forecast. And like I said with the
9 earlier response, we -- as UI and CL&P does this same
10 thing, we give ISO New England information so they can
11 properly allocate that load to our substations.

12 We have looked at ISO New England's forecast
13 compared to UI's forecast and we're actually running
14 very close to -- to each other. We're not exact, but
15 we're very close.

16 Q. So, would you accept the ISO forecast within
17 the noise levels of forecasting?

18 A. I do.

19 Q. Okay.

20 MR. ASHTON: I guess that's it. Thank
21 you very much.

22 CHAIRMAN MURPHY: Mr. Hannon.

23 MR. HANNON: Just a general question

24 CROSS-EXAMINATION

1 BY MR. HANNON:

2 Q. With some of the issues that we've had with
3 weather over the last couple of years, and I've heard
4 people talking about how much power residential
5 customers are using, but I'm curious as to plans that
6 may be ongoing to deal with maybe some of the
7 substations and things of that nature that are at a
8 relative low elevation compared to some of the storms
9 we're seeing. Because if you can't get the power out of
10 there, the peak one can be used in --. Is anything
11 being planned in that capacity?

12 A. You're absolutely right. During Storm Irene
13 in 2011 and Super Storm Sandy in 2012 UI did have some
14 issues with flooding at our substation. So, we have put
15 together a plan project to address it this fall from a
16 -- like a short term, temporary perspective to make sure
17 that if we had the same type of storm surge that we had
18 with Sandy, even plus some level about three feet above,
19 that we would be able to ride through that without
20 having to de-energize our substations, like we've had to
21 do in the past.

22 We're currently also evaluating long term
23 permanent solutions to that. We're at the very early
24 stages of contemplating what those might be. But those

1 run the gambit from protecting substations, raising
2 equipment at substations, relocating substations, and,
3 you know, a few other considerations around that.

4 So, we are implementing short term
5 improvements for this fall and are looking at longer
6 term solutions.

7 MR. HANNON: Thank you.

8 CHAIRMAN MURPHY: Mr. Lynch -- excuse me
9 ... Dr. Bell?

10 DR. BELL: I'm sorry, Mr. Chair. I just
11 wanted to ask a follow up to Mr. Hannon's question.

12 CROSS-EXAMINATION

13 BY DR. BELL:

14 Q. Mr. Bilchek, can you tell us roughly how many
15 substations you've been -- are in this pool that you've
16 been considering for active intervention, if you call it
17 that?

18 MR. ASHTON: Can we limit it to full
19 substations, because I know you have little distribution
20 substations scattered all over the lot.

21 MR. BILCHEK: Yeah, so the ones --
22 actually we have no concerns -- are you talking about
23 the distribution stations being like the 13a to 14b
24 substations?

1 MR. ASHTON: Right.

2 MR. BILCHEK: We actually have on
3 concerns with those substations.

4 MR. ASHTON: So, it's the bulk stations
5 that are worrisome?

6 MR. BILCHEK: It is.

7 There's about six or seven substations
8 that we have concerns about. We actually had flooding
9 at three of those substations with Sandy.

10 DR. BELL: Thank you.

11 Thank you, Mr. Chair.

12 CHAIRMAN MURPHY: Mr. Lynch.

13 MR. LYNCH: One of my questions just got
14 answered here.

15 And my other questions was -- I think,
16 Mr. Bilchek, you might have answered it earlier when you
17 talked about News. The two transmissions lines. East
18 and West helping out with the load.

19 CROSS-EXAMINATION

20 BY MR. LYNCH:

21 Q. Could you maybe elaborate a little bit more on
22 the eastern part from Lake Road Generating and how that
23 may impact the load?

24 A. Northeast Utilities may be better to answer

1 that question because it's --

2 Q. But you're also --

3 A. I am familiar with it

4 Q. Don't you also have a part of the line?

5 A. We do. We have an investment in that line.

6 So, yes, Lake Road -- the news projects, and I
7 think you're talking about the interstate portion of the
8 news project?

9 MR. LYNCH: Yes.

10 MR. BILCHEK: Does allow Lake Road to be
11 considered on the west side of -- inside Connecticut, I
12 think as Mr. Ashton talked about it earlier.

13 So, yes. That allows Lake Road to be
14 considered electrically in Connecticut.

15 MR. LYNCH: I have no further questions.

16 MR. BILCHEK: Is that what your question
17 is?

18 MR. LYNCH: Pretty much, but we'll get
19 CL&P's answer to it.

20 Thank you.

21 That's it, Mr. Chairman.

22 CHAIRMAN MURPHY: I guess Mr. Ashton has
23 a follow-up question, .

24 MR. ASHTON: Regarding your examination

1 of substations and their exposure to storm damage, when
2 you propose remedial action what will it be. Will it
3 protect to 100 year storm, the 500 year storm or the
4 maximum probable storm, or what?

5 MR. BILCHEK: That's a very good
6 question. It doesn't have an easy answer because the --
7 the once in a 500 year storm may be a category 3 storm
8 with winds going toward the north and produces a storm
9 surge that would -- would totally flood control rooms at
10 some of these substations that we're worried about, and
11 the cost -- there's a cost to go along with that
12 mitigation.

13 So, I believe our plan is going to look at the
14 costs and the solutions involved with mitigating
15 different levels of severe weather and storm surge. And
16 then we'll have to make some decisions based on those
17 costs and the risk.

18 MR. ASHTON: For whatever comfort it's
19 worth, my experience is that once you get past 100 year
20 storm, an incremental level of protection will take you
21 to a 500 year, or a PMF, probably maximum flood, is not
22 much.

23 MR. BILCHEK: So, are you specifically
24 talking like if you're building a new substation --

1 MR. ASHTON: Yes.

2 MR. BILCHEK: That incremental cost.

3 MR. ASHTON: Yeah.

4 MR. BILCHEK: And I think we've --

5 MR. ASHTON: If you go to protect against
6 a hundred year storm, the incremental cost to protect
7 against the PMF is not too bad.

8 MR. BILCHEK: Right. And --

9 MR. ASHTON: Because it's not a lot of
10 work.

11 MR. BILCHEK: And I think we've observed
12 the same thing for new installations.

13 When we're talking about dealing with an
14 existing substation, protecting to a hundred year flood
15 may be manageable at a low cost, but if you looked at a
16 once in a 500 year that might get you to have to
17 relocate that substation, which could be much more
18 expensive.

19 MR. ASHTON: Also, I hope that as you
20 modified substations -- and I'm thinking of the East
21 Shore substation, which is right smack on the edge of
22 the harbor, you did a breaker replacement project there
23 a year or so ago, as I recall.

24 When you do that kind of work do you look

1 at jacking up the breaker and the control schemes and so
2 forth to keep them out of whatever. Even though the
3 rest of the station maybe in it, the new work at least
4 conforms to a good plan guide.

5 MR. BILCHEK: I think it might have --
6 the weather we've had over the last two years we keep a
7 much more keen eye on it now than -- you know, because
8 we used to plan to the 100 year flood plain. East Shore
9 is an interesting substation in that though it's right
10 near the water it's actually elevated higher.

11 MR. ASHTON: Yeah.

12 MR. BILCHEK: So, that substation is
13 actually less of a concern for us than other
14 substations.

15 MR. ASHTON: I use it only by example.

16 MR. BILCHEK: But yes -- the answer is we
17 look at it much differently now than we did 20 years
18 ago, in light of what we've seen over the last couple
19 years.

20 MR. ASHTON: Okay. Thank you.

21 Nothing further. Thanks.

22 CHAIRMAN MURPHY: Any other member have
23 any follow-up questions?

24 If not, Mr. McDermott, I guess your panel

1 can be excused.

2 ATTORNEY McDERMOTT: Thank you very much.

3 CHAIRMAN MURPHY: CL&P.

4 ATTORNEY MALDANADO: Good afternoon.

5 Beth Maldanado for CL&P.

6 At this time I would like to ask each of
7 the members of our panel to introduce themselves by
8 providing their name and title for the record please.

9 MR. ANANTHACHAR: Vinay Ananthachar,
10 Program Planner, Conservation Load Management
11 Department.

12 MR. BENTLEY: Brad Bentley, Director of
13 Transmission System Planning.

14 MR. GOODWIN: Charles Goodwin, Director
15 of Rates and Forecasting.

16 MR. HONAN: Tim Honan, Manager of
17 Wholesale Power Contracts.

18 MR. ERRICHETTI: David Errichetti, Equal
19 NEPOOL Markets, Power Supply Planning and Policy.

20 CHAIRMAN MURPHY: Thank you.

21 If you gentlemen will all rise, Council
22 will administer the oath.

23 (Whereupon the witnesses were sworn in.)

24

1 VINAY ANANTHACHAR, BRAD BENTLEY, CHARLES GOODWIN,
2 TIM HONAN and DAVID ERRICHETTI,
3 having been called as witnesses by CL&P, having been
4 duly sworn, were examined and testified on their oath as
5 follows:

6 CHAIRMAN MURPHY: Thank you.

7 Ms. Maldonado, do you have some exhibits?

8 ATTORNEY MALDANADO: Yes, we do.

9 CL&P has two exhibits to offer for
10 identification. The first is our Forecast of Loads and
11 Resources dated March 1, 2013, and the second is our set
12 of responses to the Council's interrogatories dated May
13 30, 2013. We'd ask that those be marked for
14 identification, subject to verification.

15 CHAIRMAN MURPHY: Does any participant
16 object to these two items being taken for identification
17 purposes only?

18 Hearing none, proceed, Ms. Maldonado.

19 ATTORNEY MALDANADO: Thank you.

20 DIRECT EXAMINATION

21 BY ATTORNEY MALDANADO:

22 Q. I would like to ask each of the members of our
23 panel individually whether they have prepared or
24 assisted in the preparation of the forecasted loads and

1 resources that's been marked as Exhibit 1?

2 MR. ANANTHACHAR: Yes.

3 MR. BENTLEY: Yes.

4 MR. GOODWIN: Yes.

5 MR. HONAN: Yes.

6 MR. ERRICHETTI: Yes.

7 ATTORNEY MALDANADO: And with respect to
8 that portion of the report that each of you has assisted
9 in the preparation of do you have any modifications,
10 changes or additions?

11 MR. ANANTHACHAR: No.

12 MR. BENTLEY: No.

13 MR. GOODWIN: No.

14 MR. HONAN: I have two. One is just to
15 correct a typo and the other is an update to information
16 that was provided.

17 The typo, and it's a pretty obvious one,
18 on page 16. We refer to a table --

19 MR. ASHTON: 16 of what?

20 MR. HONAN: 16 of the FLR, Forecasted
21 Loads and Resources.

22 And on page 16 we talk about the power
23 that CL&P purchased in the year 20012. That obviously
24 should be 2012.

1 The update is really for the same
2 document, Table 2.4. There's five projects in there
3 under Project 150 that are listed as in-service in 2013
4 that are under five megawatts. When we prepared this
5 document the projects had to be in service by 2013 or
6 the contracts would have ended.

7 Recent legislation allowed these projects
8 to request a two year extension. And in four of the
9 five cases those requests have been made and granted.
10 So, I would suspect that some of these in service years
11 will be later than 2013 at this point, but I don't have
12 any additional information on that. It's too recent
13 knowledge to know exactly what year at this point.

14 CHAIRMAN MURPHY: You say it's four of
15 the five?

16 MR. HONAN: Four of the five have already
17 requested --

18 CHAIRMAN MURPHY: Which one is not in the
19 four?

20 MR. HONAN: The one that is not in the
21 four is Stamford Hospital Fuelcell. I do not believe
22 they have requested that extension at this point.

23 CHAIRMAN MURPHY: Proceed, Attorney
24 Maldonado.

1 ATTORNEY MALDANADO: I would again ask
2 the panel, with respect to the FLR report, do you adopt
3 the FLR report?

4 CHAIRMAN MURPHY: Oh, you have no
5 changes?

6 MR. ERRICHETTI: I have no changes.

7 ATTORNEY MALDANADO: Oh, I'm sorry, Dave.
8 Do you adopt the FLR report as your
9 testimony in this proceeding?

10 MR. ANANTHACHAR: Yes.

11 MR. BENTLEY: Yes.

12 MR. GOODWIN: Yes.

13 MR. HONAN: Yes.

14 MR. ERRICHETTI: Yes.

15 ATTORNEY MALDANADO: Mr. Ananthachar,
16 with regard to the interrogatories that we submitted,
17 did you sponsor some of those interrogatories?

18 MR. ANANTHACHAR: Yes, I did.

19 ATTORNEY MALDANADO: Do you have any
20 changes or additions to those responses?

21 MR. ANANTHACHAR: No.

22 ATTORNEY MALDANADO: And do you adopt
23 those responses as your testimony in this matter?

24 MR. ANANTHACHAR: Yes.

1 ATTORNEY MALDANADO: And, Mr. Goodwin.

2 MR. GOODWIN: Yes.

3 ATTORNEY MALDANADO: Did you sponsor
4 responses to interrogatories in this proceeding?

5 MR. GOODWIN: Yes, I did.

6 ATTORNEY MALDANADO: Do you have any
7 changes or additions to those responses?

8 MR. GOODWIN: No.

9 ATTORNEY MALDANADO: And with that, we'd
10 like to offer our Exhibits 1 and 2 as full exhibits to
11 the Council.

12 CHAIRMAN MURPHY: Does any participant
13 have any objection to either of these two items being
14 admitted as full exhibits.

15 Hearing none, they are so admitted,
16 Attorney Maldanado.

17 ATTORNEY MALDANADO: Thank you.

18 CHAIRMAN MURPHY: Mr. Perrone, I guess
19 they're ready for cross-examination.

20 MR. PERRONE: Thank you.

21 CROSS-EXAMINATION

22 BY MR. PERRONE:

23 Q. What is your typical kilowatt hour usage for a
24 residential customer per month on average?

1 A. (Mr. Goodwin) It's about 700 kilowatt hours.

2 Q. Does CL&P submit a forecast to ISO New England
3 for infrastructure and planning purposes?

4 A. (Mr. Bentley) No. We do not submit a
5 forecast. However, similar to United Illuminating, we
6 also check and submit the data for us so that they can
7 do the ratios for the allocation of the load forecast.

8 Q. In the response to question #9 of the
9 interrogatories it mentions real time emergency
10 generation. Are those generators that are like on the
11 sites of commercial/industrial customers that they can
12 turn on to reduce their load?

13 A. (Mr. Ananthachar) Yes. That's correct.

14 Q. Okay. Do you know the rough number of
15 megawatts of available emergency generation?

16 A. I don't.

17 Q. Can you explain generally how the LREC, ZREC
18 and renewable energy credits affect your forecast?

19 A. (Mr. Goodwin) Yes. On page 10 of our
20 forecast filing in the second data column that's labeled
21 renewable energy credits. That shows there for both the
22 annual gigawatt hours and then the effects on the peak.
23 And it displays the customer participation in that -- in
24 the ZREC/LREC program.

1 Q. And are these all Connecticut based projects,
2 or not?

3 A. Yes, they are.

4 Q. As far as your nonrenewable DG projects are
5 those generally fueled by natural gas?

6 A. Largely.

7 Q. Does CL&P have time of use rates for its
8 customers and if so is it CL&P's experience that
9 customers of reduced usage during peak demand periods?

10 A. (Mr. Goodwin) Well, first of all we do have
11 time of use rates. They're mandatory for certain
12 customer classes. They're mandatory for business
13 customers at 200 KW and larger peak demands. And it's
14 difficult to say the impact of that pricing for those
15 customers because they've been on mandatory time of use
16 rates for many, many years.

17 We have optional voluntary time of use rates
18 for residential and smaller customers, but we don't have
19 a significant number of customers taking the voluntary
20 time of use rates. The only information I have relevant
21 to customer behavior for TOU rates is that CL&P did a
22 pricing pilot about four or five years ago and we tested
23 a number of different types of pricing scenarios. One
24 was time of use pricing at traditional on and off peak,

1 with some fairly severe on and off peak differentials.
2 And we also tested what's known as a critical peak
3 pricing scheme and then we also tested something called
4 a peak time rebate pricing scheme. And we were able to
5 measure a load response in each of our customer classes
6 across those various tasks. And as you would expect,
7 the proportion of customer response was directly related
8 to the severity of the pricing structure itself. So,
9 there was an elasticity effect that was measurable.

10 Q. One question that I had asked before last
11 year, just to confirm this number, the number of homes
12 per megawatt. I believe it was about 2 KW per home or
13 about 500 homes per megawatt. Is that value still
14 reasonable?

15 A. That sounds about right. Yes.

16 Q. What kinds of smart grade measures has CL&P
17 adopted or seeks to in the near future?

18 A. (Mr. Bentley) So, we've completed the -- our
19 installation of our Sinctor phasor, I think PM uses --
20 United Illuminating called it. Those are in place.
21 They're available to be used, for the operations to get
22 data. In addition digital fault recorders have been
23 installed on our system to identify data that can be
24 used to see what went on in the system during a

1 disturbance on the system, so a lot of the measures
2 we're put in place are available for use.

3 Q. The next topic is import capability for
4 Connecticut. In our forecast report we usually have the
5 based level import for Connecticut. Some conservative
6 number. And then, of course, there can be additions for
7 transmission upgrades. But as a base number, is 2,000
8 megawatts a conservative number?

9 A. So, I would say that for purposes of the
10 Connecticut IRP there are assumed numbers in that filing
11 there that are -- would be best reflective of what's
12 available during the before and after the interstate
13 project, before and after the greater Springfield
14 reliability project.

15 Each one of those projects increase the
16 transmission capability into Connecticut. And I believe
17 those -- I don't have the exact numbers with me, but
18 somewhere between 2,000 and 25,000.

19 CHAIRMAN MURPHY: Mr. Bentley, could you
20 please speak up. Your voice is fading.

21 MR. BENTLEY: I'm sorry. I will move
22 this closer.

23 Is this better?

24 CHAIRMAN MURPHY: Yes.

1 MR. BENTLEY: Okay. Sorry.

2 MR. ASHTON: Excuse me one minute.

3 Those numbers are the transfer capability
4 into Connecticut of what -- under what conditions? All
5 lines in, peak load, or otherwise.

6 MR. BENTLEY: Generally what's in the
7 Connecticut IRP is the all lines in service number, and
8 under contingency conditions that -- the amount of load
9 -- or the amount of power that could flow into
10 Connecticut would be reduced. Depending on the
11 contingency.

12 MR. ASHTON: At peak load?

13 MR. BENTLEY: At peak load.

14 MR. ASHTON: Okay.

15 MR. PERRONE: And lastly, I asked CMEEC
16 and UI this also.

17 BY MR. PERRONE:

18 Q. Generally if you have a heat wave several days
19 long, do you generally expect that the peak demand grows
20 daily?

21 A. (Mr. Goodwin) Yes. It's -- yes.

22 Q. And that's because initially people may be
23 reluctant to turn their AC on, but after a day or more
24 you get more people running their air conditioning?

1 A. I think that's part of it. There's also a
2 heat gain build up in the house over a course of two or
3 three days of a hot spell.

4 MR. PERRONE: Thank you. That's all I
5 have.

6 CHAIRMAN MURPHY: Dr. Bell.

7 DR. BELL: Thank you, Mr. Chair.

8 CROSS-EXAMINATION

9 BY DR. BELL:

10 Q. On page 11 of the March 1st submission you say
11 CL&P doesn't use any of the forgoing purchases which are
12 listed to serve load, but rather uses them in the ISO
13 New England whole market to offset contract cost
14 obligations. Could you just explain what you mean by
15 offsetting contract cost obligations. Are you talking
16 about the forward capacity market or the energy market?

17 A. (Mr. Honan) Typically in the energy market.

18 What we do is we cannot use the energy or recs
19 that we get from these contracts to serve our load under
20 the current rules. So, as a result, when we get energy,
21 we sell the energy back into the spot markets and use
22 the cash that we receive from there to offset the
23 payments to the projects.

24 In the case of recs we would get whatever --

1 we would sell the recs into the secondary rec markets,
2 and whatever value, again, offsets the cost of the
3 contract.

4 Q. Okay. On page 19 you're talking about the
5 demand response programs, and you say in 2013 demand
6 responsibly fully funded by the ISO New England forward
7 capacity market. From the context I gather this means
8 that CL&P will no longer fund DR Programs on its own.
9 Or use REGI funds for that purpose. How much money will
10 this yield?

11 A. I don't remember off the top of my head. I
12 have to check.

13 ATTORNEY MALDANADO: Can we provide that
14 as a late file, perhaps?

15 CHAIRMAN MURPHY: Yes.

16 DR. BELL: Thank you.

17 BY DR. BELL:

18 Q. Now, I guess I'll stick with the March 1st
19 report. And this question -- I guess if ISO were here
20 I'd have to ask ISO the question, but since you're here
21 and since you did talk about it in your March 1st report
22 I'll ask you.

23 You talk about the Eastern Interconnection
24 planning collaborative, which is the first ever effort

1 to involve other planning authorities. And there's a
2 sentence in there that you are -- refer to. My question
3 is what planning authorities are being referred to here
4 in this first ever Eastern Interconnection Planning
5 collaborative. Are you referring to all the RTO's in
6 the eastern connection, which would be something like
7 eight RTO's, and I'm curious about when this started,
8 who initiated this planning collaborative and I'm also
9 interested in what options you're talking about.
10 Whether we're just talking about hydro Quebec, for
11 instance, or whether we're talking about other options
12 within a very -- this very large scale planning
13 collaborative.

14 A. (Mr. Bentley) So, this initiative started a
15 couple of years ago by the Department of Energy. They
16 were given funding to start a program to look at how the
17 system could be built out under various scenarios and
18 they wanted to bring together all the regional players,
19 including the planning authorities which were -- New
20 England is ISO New England, or the planning authority.
21 So, this would include all the other RTO's planning
22 authorities, depending on how they're registered with
23 MERC. So, typically the ISO is like the Midwest ISO,
24 PGM, New York ISO. They all participate in the EIPC, as

1 well as a lot of state regulatory bodies, transmission
2 owners, utility companies, generators, developers. So,
3 it was really a gathering of the industry in general to
4 look at scenarios that the group felt would produce a
5 worthwhile study and result of how the system could be
6 built out under those scenarios.

7 So, a couple of the scenarios that they've
8 looked at was large scale wind development. They also
9 looked at generation retirement scenarios. So, a large
10 portion of this was moving power in various directions
11 across the eastern inner connection.

12 They did produce a report, and I believe
13 that's available. I believe. That's subject to check.
14 I'm not sure if it's out yet, but I know that it's --
15 the majority of the work has completed for the initial
16 effort. What had happened was there was excess funds
17 that were still available, and they have decided to
18 reallocate those funds to do a natural gas study to look
19 at the electric gas coordination effort that you're
20 hearing about in New England a lot. So -- but this
21 would be across the eastern interconnect as well.

22 So, they're looking at reforming the same
23 people that got together and adding in now the gas
24 industry to the group and looking at what scenarios they

1 want to study. So, they're at the beginning stages of
2 that effort. But they did produce a large report.

3 Your reference to hydro Quebec, it was
4 included into this scenario as one of the New England
5 upgrades. That was included in the work.

6 They identified how much power could be moved,
7 what facilities would be needed to be built. So,
8 they're looking at large DC lines, large -- what works
9 for a long distance across the United States. Coming
10 from the Midwest into New York, New England, as well as
11 going into the south, so

12 A lot of work went into it, and the report is
13 either available or should be available soon.

14 Q. And this was independent of FERC because FERC
15 has made efforts in this direction; right, with --
16 particularly with wind, to move wind out of the -- well,
17 that isn't exactly across the eastern interconnection,
18 but within the Midwest portions of the eastern
19 interconnection to the coast, the east coast. I mean,
20 they've have large scale reports of that type, but this
21 one you say was sponsored by the Department of Energy.
22 So, that was not including FERC or

23 A. I don't remember if FERC staff actually
24 participated in the group, and if they did to what

1 extent. I know that the DOE staff and FERC talk a lot.
2 So, I think what they did was probably reviewed with
3 FERC staff at some point.

4 But, you know, this was an industry effort and
5 a collaborative effort, as such is the name. And they
6 produced a good amount of information that the industry
7 had probably been lacking in previous attempts.

8 I think there had been a lot of individual
9 efforts by region to try and identify how power might
10 move across the eastern interconnect. But the eastern
11 interconnect stretches all the way to the Rocky
12 Mountains, so when we talk about moving stuff in
13 the Mantel Hydro and down in Wisconsin, Minnesota, all
14 the wind development in there was looked at. So, it's
15 the first of its kind effort to really get all the major
16 players together and have an idea of what the future
17 might looking like.

18 DR. BELL: Thank you.

19 Thank you, Mr. Chair.

20 CHAIRMAN MURPHY: Mr. Wilensky.

21 CROSS-EXAMINATION

22 BY MR. WILENSKY:

23 Q. With the upgrade in the various transmission
24 lines throughout the state that have been approved by

1 this Council over the last several years. Do you see
2 any need for new generation in the State of Connecticut
3 -- new generation plants being built in the State of
4 Connecticut?

5 A. (Mr. Errichetti) I'll take the first cut at
6 that.

7 Q. You're on

8 A. In the near term, no. In the longer term,
9 quite possibly. The big concern -- I think UI mentioned
10 it -- is the potential for retirement.

11 Q. Why do you say in the longer term yes, in the
12 shorter term no?

13 A. Well, the forward capacity market has already
14 lined up obligations through May 2017. And for
15 resources to bow out between now and then they need to
16 find resources to replace them. You've taken on an
17 obligation. If you want to relieve yourself of an
18 obligation you need to find someone to step into your
19 shoes.

20 You know, market economics are going to say a)
21 is there somebody available to step into my shoes, and
22 if there are what's the price. And if the price is too
23 high, I'll stay in.

24 So, in the near term I think Connecticut is in

1 good shape, and, you know, that's through May 17.

2 Looking beyond that, one of the rule changes
3 that is taking place for that auction, the FCA-8 is
4 there is no longer going to be a floor, which means the
5 market has to find a clearing price by resources leaving
6 the market, leaving the auction, or it's going to go to
7 zero. And that creates a dynamic where resources in
8 Connecticut and throughout New England who can't stomach
9 no revenues from the capacity market may decide to
10 leave.

11 Q. With the ability to import electricity through
12 Hydro-Quebec?

13 A. That's a possibility.

14 Q. With the transmission lines as they've been
15 upgraded. Why would it be necessary to build -- have
16 new energy in the state of Connecticut? New energy
17 plants.

18 In other words, you have the ability now to
19 import more energy than you've ever imported before.
20 So, would that take care of whatever is necessary in the
21 future as you're talking about?

22 A. Well, in the extreme I don't think Connecticut
23 could have no generation and import everything. I don't
24 think even -- you know, Mr. Bentley can speak to that,

1 but I don't think we built --

2 Q. What I'm asking about is do you think the
3 present generation is enough to carry the State of
4 Connecticut, plus what you're able to import?

5 A. If nothing retires I think we're good for a
6 long time with these upgrades that we're in the process
7 of doing, in my opinion.

8 Q. So, in other words, you're saying --

9 A. But my concern --

10 Q. -- you would be good for a long time? For
11 long term?

12 A. Absent retirements.

13 Q. Okay. Thank you.

14 MR. WILENSKY: Thank you, Mr. Chairman.

15 CHAIRMAN MURPHY: Mr. Ashton

16 CROSS-EXAMINATION

17 BY MR. ASHTON:

18 Q. What does long term mean, Mr. Errichetti?

19 A. Until I retire -- no.

20 If all the transmission upgrades that I'm
21 aware of, and I'm not in transmission, so Mr. Bentley
22 will have to speak after me.

23 Q. I'll pick on him in a minute

24 A. In my opinion, I think Connecticut, absent

1 retirements, is probably good to the middle of the next
2 decade. You know like 2025. The IRP that we're going
3 to work on for next January will test that, but that's
4 my opinion.

5 Q. In formulating your opinion, which I
6 understand goes with the kind of planning you do
7 collectively and individually, what do you assume as to
8 retirements of existing generating plants in the state?

9 A. Well, again, that was premised on no
10 retirements.

11 Q. On no retirements?

12 A. Right

13 Q. Okay. So, you're saying no retirements?

14 A. I think based on what we found in the last
15 IRP, assuming all parts of news got built out, we were
16 --- Connecticut was good until the early part of the
17 next decade.

18 Q. And you're pushing 75 year old former coal
19 units, aren't you, to get that though?

20 A. Yes.

21 Q. Is that --

22 A. Well, actually in the Connecticut IRP the last
23 time around I think we had like 1,400 megawatts retire
24 in Connecticut.

1 Q. Okay.

2 A. But we also had all aspects of news built out.

3 Q. Has there been any indication of the Norwalk
4 Harbor units being retired shortly?

5 A. Sir, I truly wished that NRG had shown up
6 today because --

7 Q. I'm sorry?

8 A. I wished NRG had shown up today.

9 Q. So, do I.

10 A. Because I would have liked to have heard their
11 answer to that question.

12 Q. Okay. Mr. Bentley, your turn.

13 A. (Mr. Bentley) Yes.

14 Q. Given the fact that your document on page 3
15 highlights, quote, "CT's electricity consumption
16 declined sharply during the economic recession and it is
17 not expected to exceed 2005 levels until 2022," and
18 given the fact that you've got a substantial beefing up
19 of the 345 KV connection between Manchester and the
20 Springfield area. And another beefing up between Card
21 Street and Rhode Island, why in the world do you need
22 the Bloomfield to Frostbridge 345 Line, which you show
23 in here as probability.

24 A. Let me first address that first bullet on page

1 3. I believe that's talking about energy consumption
2 and not demand -- peak demand.

3 Q. Well, demand looks like it's going down rather
4 than up.

5 A. Actually it -- I mean, I'll let Mr. Goodwin
6 here speak to that.

7 Q. I'm going to pick on Mr. Goodwin because I
8 like him very much

9 A. You know, the way I read the data was that the
10 energy demand was flat and the peak demand was actually
11 growing like a percent or two. Am I misspeaking.

12 MR. GOODWIN: Over the forecast period
13 the energy is declining very slightly and the peak is
14 increasing very slightly, but they're both very close to
15 flat over the forecast.

16 BY MR. ASHTON:

17 Q. Okay. For argument sake let's say they're
18 flat within a reasonable probable. How can you justify
19 that Bloomfield to -- North Bloomfield to Frostbridge
20 line?

21 A. (Mr. Goodwin) As were stated in our report,
22 that is actually being analyzed at ISO again

23 Q. But you're going to build it, so you'd better
24 have 50 cents -- at least 50 cents of the argument.

1 A. Right. So, you know, we're currently going
2 through the ISO process to do the assessment of the
3 needs and to determine what remaining issues are on
4 there given the current cell load forecasts, the impacts
5 of energy efficiency. So, it's really predicated upon
6 the FCA market as well. We have to include the
7 generation. So, when we started the project, you know,
8 many, many, many years ago there were different load and
9 generation assumptions within there. And now we have to
10 factor in the changes to that, as well as the generation
11 of retirements and the adjustments that are in there.
12 So, these are the factors that we're putting into this
13 assessment to determine whether or not the North
14 Bloomfield to Frostbridge line is the right solution or
15 if there's an alternate solution that needs to be built.
16 So, it's understudy and under review and going through
17 the ISO New England Planning Advisory Committee process
18 right now.

19 Q. ISO likes its forecast, you like your
20 forecast. Are the two com sa or are they com sa?

21 A. Well, I'll -- you asked that of Mr. Bilchek
22 and I'll agree and I'll do a slight modification to his
23 answer for CL&P.

24 The ISO forecast is an echo metric top down

1 forecast, whereas CL&P's distribution forecast is a
2 bottom's up.

3 Q. Yup.

4 A. And the theory goes that the two should be
5 relatively close.

6 What probably gets missed in the gap in
7 between is the identification of any specific areas that
8 have either new customers or load growth that the echo
9 metric model misses. And so there can be load pockets
10 that need to be analyzed with a little bit more rigor,
11 and that is, I think, the job of CL&P to identify those
12 areas to ISO to make sure that we are correctly studying
13 it and not missing the potential for a liability issue.

14 So, I think the overall high level scale is
15 fairly decent, but there are pockets of our system
16 whereby the natural way of the calculation, it just will
17 not hit all the marks.

18 Q. It's fair to say, isn't it, that albeit the
19 load not growing grows -- not growing very much, the
20 load within the service area can shift.

21 A. Absolutely

22 Q. It can shift from the urban areas to the
23 suburban areas, and from what I'm reading, there tends
24 to be a move now from the rural areas back to the

1 center, in the City. So that that's a fair indicator
2 that facilities may be required, albeit the fact the
3 load doesn't grow.

4 A. Right. And that's where when we do the ratios
5 -- and we'll do the task the make sure that the ratios
6 are being allocated properly. The demand that -- you
7 know, it does have to sum up to a total that is
8 reasonable. And so it's -- it's not a perfect world
9 between ISO and CL&P

10 Q. If you find one let me know.

11 A. I think all the utilities I've worked for
12 we've been -- everyone has been searching for that.

13 Q. In that same -- I read you off page 3. I want
14 to read another sentence -- another bullet says, quote,
15 "The deliverability of natural gas fuel to electric
16 generators requires monitoring to assure the reliability
17 of electricity supply. Isn't that a truism of any fuel
18 source?

19 The only -- to my recollection the only
20 interruption of fuel to generators has been the Arab oil
21 embargoes. Isn't that true?

22 A. Yes.

23 Q. Okay.

24 A. I think it's this decade's flavor --

1 Q. You think it's what?

2 A. It's this decade's flavor.

3 Q. Well, I think there's bias towards gas that is
4 showing through here, and I experienced it myself back
5 when, but

6 You know, if you're a good manager you damn
7 well better look at all your fuel sources and monitor
8 them, otherwise you're risking getting into trouble.
9 Is that fair to say?

10 A. Yes.

11 Q. Okay. Mr. Goodwin, the counter has sort of
12 acknowledged the fact that gas is very low cost compared
13 to oil in recent years and the supply picture certainly
14 has dramatically changed since you and I were looking
15 over gas forecast. What is the new pricing of natural
16 gas going to do to electric load growth?

17 A. (Mr. Goodwin) To electric load growth?

18 I don't know that it's going to have a fuel on
19 fuel competition to that degree where electric
20 technologies are not going to be chosen because of gas.
21 I mean, that could happen to a small degree, but I think
22 it's more of a gas and oil technology competition. The
23 price of gas though, at least in the current ISO
24 clearing price methodology will largely drive where

1 electricity prices are in the longer term. And I think
2 that favorable prices in gas is probably going to result
3 in favorable electricity prices. We're are federally,
4 you know, going to keep consumer electric costs down.
5 So --

6 Q. You make a point of that. I can see if you do
7 it, but if the point is made in the 2012 DEEP report,
8 IRP report, they state that between -- Connecticut is
9 experiencing a lower rate, a downward trend is expected
10 for the next five years, but then an upward swing. And
11 that's a pure shot in the dark, I understand that. But
12 my thinking of gas on oil is also gas on electricity,
13 because gas is a much cheaper form of heating hot water
14 than is electricity. And according to my bill, it's a
15 heck of a lot cheaper for drying too.

16 A. I think that -- as you know, the challenge is
17 getting into the house.

18 Q. And according to Mr. Powell, with whom I had a
19 very good lunch a couple of days ago, they're going hell
20 for leather to try and hook up new services, and they
21 expect another 100,000 new customers before very long.

22 A. Right. And we filed a plan just last Friday
23 with DEEP around gas -- a ten year gas expansion plan
24 that the gas utilities in the state filed collectively

1 with DEEP, and it details a very aggressive build out
2 plan in the next ten years for each of the service
3 territories. It's very much focused on conversion of
4 oil heated businesses and homes.

5 Q. I have no doubt about that. But don't you
6 think -- you don't think that's going to have any
7 material impact on electric load?

8 A. Well, sure. Material is hard to say. What I
9 can say is in our plan we have very much focused on oil
10 heat and hot water conversion. So, from the standpoint
11 that an oil heated house may have an electric hot water
12 heater, than there could be some ancillary values on
13 electric load growth, but

14 Q. Okay.

15 A. But what I would say, Mr. Ashton is that the
16 primary focus of the build out plan is on oil heated
17 facilities.

18 MR. ASHTON: Those are my questions.

19 Thank you very much.

20 CHAIRMAN MURPHY: Mr. Hannon.

21 MR. HANNON: I'll ask the same question I
22 asked of UI because I know there were a number of
23 municipalities in the eastern part of the state that
24 were without power for quite a while because of some of

1 the storms. So, I'm just kind of curious

2 CROSS-EXAMINATION

3 BY MR. HANNON:

4 Q. to what may be looked at as far as
5 substations. Do you have any active plans in trying to
6 deal with issues of elevation?

7 A. (Mr. Bentley) In terms of flooding?

8 Q. Yes.

9 A. Really the -- as far as I'm aware, the only
10 substation that we were concerned with during the storm
11 for flooding was our southbound substation in which we
12 took some active measures to try and mitigate that. We
13 did not see flooding during either of the storms.
14 So, with regards to flooding, I think we're in a
15 different place than UI was.

16 Q. Than was the issue more dealing with tree
17 branches and things of that nature and that was sort of
18 the main culprit for the duration of power outages?

19 A. I'm the Director of Transmission System
20 Planning, so, you know, you're a little bit outside my
21 window of expertise here, but the transmission
22 system held up fairly well and we were able to restore
23 the transmission system in a very short -- or I believe
24 we filed a number of records on our performance on the

1 transmission side. And then the distribution side I
2 believe those things were also filed, so

3 I guess I'll let those speak for themselves
4 since I'm not really the expert on that side.

5 Q. And then just sort of a general question on
6 conservation. I believe there are probably still
7 millions of mercury thermostats in houses across the
8 state which are rather inefficient. But has the company
9 done anything to try to promote programmable
10 thermostats, things of that nature, because they seem to
11 have a pretty good impact on the usage of power in
12 homes. So, has there been any type of active
13 involvement in that program?

14 A. (Mr. Ananthachar) Yes. We do have incentives
15 for programmable thermostats for our residential
16 customers, as well as small business customers.

17 Q. Because I didn't see anything in the document
18 dealing with the conservation measures, so I just wanted
19 to make sure that that was one other component that
20 you're dealing with?

21 A. Yes. We do have that in our annual
22 conservation and load management plan.
23 And we have hopefully a level as well as measure details
24 that we offer customers.

1 MR. HANNON: Thank you. I have nothing
2 further.

3 CHAIRMAN MURPHY: Mr. Lynch.

4 MR. LYNCH: No questions, Mr. Chairman.

5 CHAIRMAN MURPHY: Thank you.

6 Does any member have any follow up
7 question?

8 Does any other participant have any
9 questions of CL&P's panel?

10 Attorney Maldonado, you're all set.

11 Attorney Maldonado: Thank you.

12 CHAIRMAN MURPHY: Thank you.

13 At this point the Council will recess
14 until 6:30, at which time we will commence the public
15 comment session of the hearing.

16 (Whereupon the hearing was adjourned at
17 3:31 p.m.)

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	Tim Honan	
18	David Errichetti	

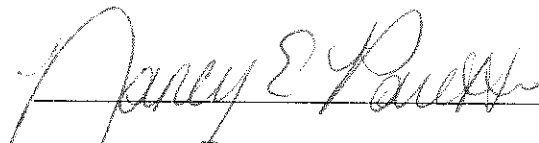
C E R T I F I C A T I O N

1
2 STATE OF CONNECTICUT)
3)
4 COUNTY OF HARTFORD)

5
6 I, Nancy E. Paretti, a Notary Public in
7 and for the State of Connecticut, do hereby certify that
8 the forgoing record is a correct and verbatim
9 computer-aided transcription of the proceeding herein
10 set forth.

11 I further certify that I am neither
12 counsel for, nor related to, nor employed by any of the
13 parties to the action in which this proceeding is taken,
14 and further certify that I am not related to, nor an
15 employee of any attorney or representative employed by
16 the parties thereto, nor am I financially interested in
17 this action.

18 In witness whereof I have hereunto
19 set my hand and affixed my notarial seal this date
20 July 14, 2013.

21 
22 Nancy E. Paretti
23 Notary Public

24 My commission expires February 28, 2017