

1 **STATE OF NEW HAMPSHIRE**2 **PUBLIC UTILITIES COMMISSION**3
4 **December 6, 2016 - 10:04 a.m.**
5 Concord, New Hampshire

NHPUC DEC23'16 AM 11:52

6
7 **RE: DE 16-097**
8 **LIBERTY UTILITIES (GRANITE STATE**
9 **ELECTRIC) CORP. d/b/a LIBERTY**
 UTILITIES: Least Cost Integrated
 Resource Plan.10 **PRESENT:** Chairman Martin P. Honigberg, Presiding
11 Commissioner Robert R. Scott
 Commissioner Kathryn M. Bailey

12 Sandy Deno, Clerk

13
14 **APPEARANCES:** **Reptg. Liberty Utilities (Granite**
15 **State Electric) Corp. d/b/a Liberty**
16 **Utilities:**
 Michael J. Sheehan, Esq.17 **Reptg. Residential Ratepayers:**
 D. Maurice Kreis, Esq., Cons. Adv.
18 Pradip Chattopadhyay, Asst. Cons. Adv.
 Office of Consumer Advocate19 **Reptg. PUC Staff:**
20 Alexander F. Speidel, Esq.
 Richard Chagnon, Electric Division21
22
23 Court Reporter: Steven E. Patnaude, LCR No. 5224
CERTIFIED
ORIGINAL TRANSCRIPT

I N D E X

PAGE NO.

WITNESS PANEL: CHRISTIAN BROUILLARD
ERIC M. STANLEY

Direct examination by Mr. Sheehan	6
Cross-examination by Mr. Kreis	9
Cross-examination by Mr. Speidel	14
Interrogatories by Cmsr. Scott	26, 58
Interrogatories by Cmsr. Bailey	37
Interrogatories by Chairman Honigberg	53, 60
Redirect examination by Mr. Sheehan	63

WITNESS: RICHARD CHAGNON

Direct examination by Mr. Speidel	66
Cross-examination by Mr. Sheehan	71
Interrogatories by Cmsr. Scott	73
Interrogatories by Cmsr. Bailey	75
Interrogatories by Chairman Honigberg	76
Redirect examination by Mr. Speidel	78

CLOSING STATEMENTS BY:

Mr. Kreis	79
Mr. Speidel	92
Mr. Sheehan	96

QUESTIONS BY:

Chairman Honigberg	89
Cmsr. Scott	100

E X H I B I T S

EXHIBIT NO.	D E S C R I P T I O N	PAGE NO.
1	Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities Least Cost Integrated Resource Plan filing, including attachments (January 15, 2016)	5
2	Testimony of Richard Chagnon (November 10, 2016)	5

P R O C E E D I N G

CHAIRMAN HONIGBERG: Good morning, everyone. We're here in Docket DE 16-097, which is Liberty Utilities (Granite State Electric) Corp.'s 2016 Least Cost Integrated Resource Plan docket. And we are here for a hearing on the merits this morning.

Before we do anything else, let's take appearances.

MR. SHEEHAN: Good morning, Commissioners. Mike Sheehan, for Liberty Utilities. Present with me is Heather Tebbetts, Chris Brouillard, and Eric Stanley.

MR. KREIS: Good morning, Mr. Chairman, members of the Commission. I am D. Maurice Kreis, the Consumer Advocate, here on behalf of residential utility customers. And I'm all by myself this morning.

MR. SPEIDEL: Good morning, Commissioners. A. Felix Speidel, with the New Hampshire Public Utilities Commission Staff. And I have with me Richard Chagnon, Utility Analyst of the Electric Division.

CHAIRMAN HONIGBERG: All right. How

1 are we proceeding this morning?

2 MR. SHEEHAN: In conversations with
3 Mr. Speidel yesterday, I have no particular
4 questions of my witnesses. We don't have
5 testimony. But we will put Mr. Stanley and Mr.
6 Brouillard on the stand, ask some introductory
7 questions, and make them available for whatever
8 questions the Commission may have.

9 CHAIRMAN HONIGBERG: Are there going
10 to be other witnesses?

11 MR. SPEIDEL: Other than the
12 Company's and Mr. Chagnon, in succession, no.

13 CHAIRMAN HONIGBERG: Okay. All
14 right. So, why don't we get started with that.

15 And while they're taking their
16 positions, there are no preliminary matters or
17 pending motions, are there, Mr. Sheehan?

18 MR. SHEEHAN: No motions. There are
19 two exhibits. Exhibit 1 would be the filing
20 with attachments. And Exhibit 2 would be
21 Mr. Chagnon's testimony.

22 (The documents, as described,
23 were herewith marked as

24 **Exhibit 1** and **Exhibit 2,**

[WITNESSES: Brouillard|Stanley]

1 respectively, for
2 identification.)
3 (Whereupon **Christian Brouillard**
4 and **Eric M. Stanley** were duly
5 sworn by the Court Reporter.)

6 CHAIRMAN HONIGBERG: Mr. Sheehan.

7 **CHRISTIAN BROUILLARD, SWORN**

8 **ERIC M. STANLEY, SWORN**

9 **DIRECT EXAMINATION**

10 BY MR. SHEEHAN:

11 Q. Mr. Stanley, your full name and your employer
12 and position with the Company please.

13 A. (Stanley) My name is Eric Matthew Stanley. I'm
14 employed by Liberty Utilities Service Corp.
15 And I'm the Manager of Energy Efficiency and
16 Customer Programs for the Company's business
17 unit in New Hampshire.

18 Q. And did you play any role in creating what has
19 been marked as "Exhibit 1", the Company's
20 LCIRP?

21 A. (Stanley) Yes.

22 Q. And, as an overview, what role did you play?

23 A. (Stanley) I provided input into the Company's
24 energy efficiency activities and its planning

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 in regards to those specific efforts with its
2 electric customers and as it pertains to any
3 system planning as benefits its energy
4 efficiency activities in that role.

5 Q. Thank you. Mr. Brouillard, your name and
6 employer please.

7 A. (Brouillard) My name is Christian Brouillard.
8 I am employed by Liberty Utilities Service
9 Corporation.

10 Q. And what are your job responsibilities with
11 Liberty?

12 A. (Brouillard) I am the Director of Engineering.
13 And, as part of my responsibilities, I oversaw
14 the development of the Least Cost Integrated
15 Resource Plan with respect to the -- the
16 requirements of the plan and respect to certain
17 criteria contained within the Plan.

18 Q. And we heard Mr. Stanley provided input. Who
19 else from the Company? What other positions,
20 if you will, provided input into the Plan?

21 A. (Brouillard) We had a wide array of
22 participants in the Plan, ranging from our
23 Forecasting group, Mr. Stanley's group, our
24 Planning group, our Regulatory group, and input

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 from our Operations group.

2 Q. And you're familiar with the statutory
3 requirement that the Company periodically file
4 these plans for submission to the Commission,
5 is that correct?

6 A. (Brouillard) Yes, I am.

7 Q. And, understanding you're not a lawyer, but do
8 you have an opinion as to whether the Plan, as
9 filed, satisfies the criteria set forth in the
10 statute?

11 A. (Brouillard) Yes, it does. We paid particular
12 attention to that as we were developing the
13 requirements of the Plan.

14 Q. We had a tech session in this docket and
15 conversations with the parties. And it's my
16 understanding that Mr. Kreis might have some
17 issues, not with the Plan itself, but with how
18 the Plan -- what role the Plan plays in the
19 Company's day-to-day activities. That is, is
20 it something that we use or is it something
21 that we prepare and basically put on a shelf?
22 Could you give us some -- the Commission some
23 understanding of how this Plan -- what role it
24 plays within the Company's daily work?

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 A. (Brouillard) Yes, I can. The Plan itself
2 serves as a repository for the way that the
3 Company goes about planning a summary document
4 of record regarding our planning criteria, and
5 the various steps that we will be employing
6 going forward as we develop initiatives to
7 address the safe and reliable operation of the
8 delivery system.

9 We also found that, during the course of
10 our rate case proceedings, that the document
11 itself also served as I'll say a very handy
12 reference, when it came to answering the
13 variety of data requests that we received from
14 Staff and from the OCA.

15 MR. SHEEHAN: Thank you. They're
16 available for cross-examination.

17 CHAIRMAN HONIGBERG: Mr. Kreis.

18 MR. KREIS: Thank you, Mr. Chairman.
19 I don't think I have very many questions for
20 the witnesses.

21 **CROSS-EXAMINATION**

22 BY MR. KREIS:

23 Q. Mr. Brouillard, you just testified that the
24 Least Cost Integrated Resource Plan we're

[WITNESSES: Brouillard|Stanley]

1 talking about today is a "repository of how the
2 Company goes about planning". Can you explain
3 what you meant by "repository"?

4 A. (Brouillard) Yes. There are various steps that
5 we undertake as part of the planning process.
6 We employ planning criteria as we evaluate the
7 system needs going forward. We essentially
8 combine our forward forecasts with the
9 operating parameters of the system, and the
10 criteria that we use to, you know, essentially
11 determine the health and effective capability
12 of the system. So, this serves as a very quick
13 reference document to ourselves, and also to
14 others who might also be involved in the
15 process and are looking to determine how we go
16 about planning the system and the various steps
17 that are involved.

18 CHAIRMAN HONIGBERG: Off the record
19 for just a sec.

20 *[Brief off-the-record discussion*
21 *ensued.]*

22 CHAIRMAN HONIGBERG: You may proceed.

23 MR. KREIS: Okay.

24 BY MR. KREIS:

[WITNESSES: Brouillard|Stanley]

1 Q. The Least Cost Integrated Resource Plan talks
2 about "wires solutions", "non-wires solutions",
3 it mentions "energy efficiency". Mr.
4 Brouillard, can you think of an example of a
5 wires solution that the Company has determined
6 not to pursue, because it found that either a
7 non-wires alternative or perhaps some
8 combination of a non-wires alternative and/or
9 energy efficiency caused the Company to do
10 that?

11 A. (Brouillard) I can't think of a ready example.
12 However, I will say that as we -- the non-wires
13 solutions are -- the impact of those solutions
14 are embedded in the historical load information
15 that the Company puts together, and hence
16 they're also essentially embedded in the future
17 forecasts, in that we assume that a similar
18 level of effectiveness of energy efficiency
19 programs or distributed generation on the
20 system is going to continue going forward. So,
21 to that extent, when we -- if we defer any
22 upgrades, whether they would be to a discrete
23 piece of equipment or say a system
24 reinforcement on a feeder position, if we defer

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 that even by say a year or so, there is an
2 embedded impact of the effect of energy
3 efficiency and distributed generation in that
4 regard.

5 Most of the -- actually, all of the major
6 facilities additions that we've undertaken to
7 date were in place and in our capital plans and
8 our overall plans prior to the preparation of
9 this, this version of the Least Cost Integrated
10 Resource Plan. So, we do look forward to, as
11 we go forward and we have projects that are out
12 in the future that meet the screening criteria
13 contained in the Plan, we look forward to, I'll
14 say, trying out some non-wires alternatives as
15 direct competitors to wires alternatives. I'm,
16 you know, actually, I'm really awaiting an
17 opportunity to try some of the non-wires
18 alternatives that we've thought of as part of
19 the development of the Plan, really to see, you
20 know, to see how effectively they work, to get
21 a, you know, a good handle on what the costs of
22 these alternatives are, and also to get a
23 better understanding of the time frame that's
24 involved to implement these non-wires

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 alternatives, you know, as compared to some of
2 the traditional alternatives that we've had a
3 history of implementing.

4 Q. Are there any circumstances in which a service
5 provided by either the customers themselves or
6 some third party might serve such a non-wires
7 alternative?

8 A. (Brouillard) It's indeed possible. And we've
9 briefly talked about such a possibility as part
10 of our grid mod. effort that's going on, you
11 know, simultaneously with other -- with other
12 efforts with Staff.

13 Q. Is that possibility reflected at all in the
14 Least Cost Integrated Resource Plan that we're
15 talking about today?

16 A. (Brouillard) I don't recall. There may be
17 some, some brief mention of data or other
18 suppliers, but probably isn't called out
19 directly, to my recollection.

20 Q. Okay. So, here's what I think I've heard from
21 your testimony, and you can tell me if I've got
22 this right. Your testimony is that, because
23 the effect of non-wires alternatives is
24 embedded in the future forecast that's

[WITNESSES: Brouillard|Stanley]

1 reflected in your Plan, as long as we're
2 satisfied with the way that you've done that,
3 the Commission can infer that the resource
4 deployment decisions that the Company is making
5 are, in fact, least cost?

6 A. (Brouillard) I would agree with that.

7 MR. KREIS: Thank you. Mr. Chairman,
8 those are all the questions I have.

9 CHAIRMAN HONIGBERG: Mr. Speidel.

10 MR. SPEIDEL: Thank you, Mr.
11 Chairman.

12 BY MR. SPEIDEL:

13 Q. Mr. Brouillard, are you familiar with this
14 proposed Exhibit 1, the LCIRP? You seemed to
15 indicate that you were and you were involved in
16 its preparation, is that correct?

17 A. (Brouillard) That is correct.

18 Q. Very good. I would like to turn, if you happen
19 to have it in front of you -- just one
20 moment -- to Bates Page 035 of Exhibit 1. And
21 there's a paragraph that begins on Line 11, and
22 I can read it out verbatim: "Liberty has
23 reviewed and refined its planning criteria
24 since the transition from National Grid. The

[WITNESSES: Brouillard|Stanley]

1 refined planning criteria are summarized in
2 Figure 4.3. The planning criteria refinements,
3 such as lowering the equipment rating "take
4 action" limit from 100 percent to 75 percent on
5 transformers and feeders, reflect Liberty's
6 philosophy to strategically plan well ahead of
7 system upgrade need dates."

8 So, the first question I'd like to ask is,
9 it seems that the "100 to 75 percent" is a
10 shorthand for some kind of technical criteria.
11 Could you just explain what those percentages
12 refer to?

13 A. (Brouillard) Yes, I can. And I can probably
14 best do so in comparing the past criteria of
15 100 percent to the current of 75. So, under
16 a -- under prior ownership, the planning
17 criteria was -- distribution planning criteria
18 was such that we typically did not plan to
19 upgrade the delivery facilities until the
20 thermal loading of those facilities had either
21 reached 100 percent or was projected to reach
22 100 percent of their normal rating capability.

23 Under the -- under Liberty's design
24 criteria, we will now begin to plan for

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 upgrades of those facilities when we project
2 the loading to reach 75 percent of either the
3 system or the discrete equipment thermal
4 loading capability.

5 Q. So, when you mention "thermal loading
6 capability", remembering high school physics,
7 it refers to the natural resistance of the
8 wires as the electrons flow through it. And
9 it's not like nichrome, where you have the
10 heater and it gets very hot, but it warms up
11 even a copper wire that has very good, shall we
12 say, flow-through still has some level of
13 resistance, and it warms up. Is that right?

14 A. (Brouillard) That is correct. And there is
15 a -- there is a limit to how much the equipment
16 can warm up, if you will. Eventually, the
17 degradation of equipment or what we would
18 technically call the "loss of life" of the
19 equipment, strays outside of the, you know, the
20 bounds that we have set through, you know, that
21 we have accepted through various standards.
22 So, we'll accept some nominal, very small loss
23 of life as part of just the normal -- normal
24 operating and, you know, day-to-day degradation

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 of equipment. But, when it reaches a certain
2 point, it's now exceeding that rate, and we
3 deem that to be unacceptable.

4 Q. Okay. So, you're doing this to prevent
5 outages, in the sense that you're concerned
6 that, if you're going up to that 100 percent
7 level, that, in the summertime, for instance,
8 when you have heavy load, a lot of air
9 conditioners working in the summertime, and
10 less ability for the ambient air to sort of
11 cool down the wires, you're concerned that
12 there could be an outage. Could you just
13 technically explain what that would look like
14 or sound like or feel like for the system?

15 A. (Brouillard) In it's -- in it's worst
16 condition, it would look -- look, sound, and
17 feel very bad. It would be an explosion, and
18 not only damage the piece of equipment itself,
19 but potentially the surrounding equipment, and
20 pose a significant hazard, to say the least, to
21 the workers or the public that may be in the
22 area.

23 In its -- I guess, in its most benign
24 state, there would be insidious degradation of

[WITNESSES: Brouillard|Stanley]

1 the equipment during the overload, and the
2 equipment would fail prematurely at some time
3 down the road.

4 Q. So, also relying on my experience from high
5 school science courses, I'm trying to remember,
6 there are instances where they give technical
7 ratings for materials for, for example, failure
8 ratings. You have a piece of metal, and it has
9 a certain tensile strength rating, so you can
10 submit it to so much physical force before it
11 snaps. But, you know, there's an actual
12 absolute number. But then don't rating
13 agencies usually give in a little bit of margin
14 of safety? Are you familiar with that? Or
15 would you be able to point that, in this
16 instance, as being a reliability? Or is the
17 100 percent level the absolute failure level
18 expected from the equipment?

19 A. (Brouillard) No that is not the absolute
20 failure level. That is the -- the 100 percent
21 level is a level deemed through standards,
22 through an ANSI standard. That, at that point,
23 you're exceeding the acceptable day-to-day loss
24 of life of the equipment. So, you're

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 accelerating loss of life beyond a -- what we
2 would call a "normal day-to-day loading
3 criteria". There are other standards that
4 apply to emergency loading criteria and that,
5 in order to respond to a system contingency,
6 will accept a higher level of loading during a
7 very short period of time, recognizing that
8 we're going to take some additional loss of
9 life. But, from a standards and ratings basis,
10 we deem that to be acceptable, in order to, you
11 know, maintain the reliability of the system.
12 So, there's actually a couple of criteria that
13 we apply. A "normal" rating criteria, with an
14 assumed loss of life factor, and an
15 emergency -- a "long-term emergency" rating
16 factor that carries with it another assumed
17 loss of life factor. And there are others,
18 depending on the piece of equipment that we
19 would apply to different pieces of equipment.

20 Q. So, the engineering philosophy that's at play,
21 to oversimplify, is, okay, you have an
22 automobile engine. There is a redline on your
23 tachometer. You don't want to go all the way
24 to failure, which is, say, 10,000 RPM. You

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 want to stay shy of the beginning of the
2 redline, if you can, even though the machine
3 won't fail. You kind of want to give yourself
4 a little bit of a safety margin there. Is the
5 engineering philosophy that you would make
6 additional investments in the equipment to save
7 the overall system from undue and unnecessary
8 expense from failure?

9 A. (Brouillard) I think you're headed down a very
10 good road there, in that we not only look at an
11 individual circuit, but we also broaden it to
12 look at the system view. So, where we -- when
13 we develop criteria, such as a 75 percent
14 criteria, we're not only looking to preserve
15 individual pieces of equipment, individual
16 circuits, but we're taking a system view,
17 recognizing that, as part of the normal
18 operation of the system, we are going to
19 experience outages, contingencies, or even a
20 very robust spot load growth in the system that
21 we need to respond to. So, if the entire
22 system is designed with a 75 percent loading
23 criteria in mind, then that -- that allows us
24 to react to normal, contingency, and other

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 operating conditions on a continuous basis
2 going forward.

3 Q. Okay. So, I would like to ask a couple of
4 questions about how this revision of criteria
5 was developed. Was it something that a team of
6 engineers within the Company and yourself and
7 other Engineering Department executives
8 developed independently? Was it suggested by
9 your parent company? Could you clue us in a
10 little bit as to how this came about?

11 A. (Brouillard) Yes. I would be happy to do that.
12 When Liberty -- Granite State Electric was sold
13 to Liberty Utilities, we realized at that point
14 in time that Liberty was a very different
15 company than the previous owner. The previous
16 owner was -- you know, had in excess of
17 3 million customers, operated on a regional
18 basis. Had tremendous resources, both
19 financial, equipment resources, access to labor
20 and vehicles, storm response was --
21 capabilities were very, very different. So, it
22 really required us, and "us" being the
23 Engineering group, the Operations group, the
24 Executive group, to take a step back and ask

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 ourselves what -- "what changes in the design
2 criteria or in our operations planning were
3 necessary, not only to continue to provide the
4 level of service previously provided, but also
5 to meet on our commitments to be local,
6 responsive, and caring to those jurisdictions
7 in which we operate?"

8 And, when we stepped back and took a look
9 at that, that we concluded that we did not have
10 that breadth and depth of resources. And,
11 furthermore, the expectations were
12 significantly higher in our ability to respond
13 to our customers, to respond to storms, and to
14 respond to even blue sky outages.

15 So, one of the key elements to this, and
16 there were others, others that are, as an
17 example, are contained in our Reliability
18 Enhancement Program. But, just focusing on the
19 LCIRP initiatives, one of those -- one of the
20 thoughts was to revisit -- revisit the design
21 criteria from a distribution feeder, a
22 sub-transmission, and a substation perspective,
23 and see if that criteria was still appropriate,
24 given the, you know, the resource mix available

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 through Liberty and the commitments that we've
2 made to our customers, our regulators, and our
3 community. So, that is what -- that is what
4 prompted the revisiting of the criteria.

5 We also did talk to -- we talked to some
6 of the planning folks at National Grid. Not
7 really from the perspective of, you know, "what
8 do you think it should be?", or more from the
9 perspective of "what changes do you see in the
10 future, given the expertise that National Grid
11 did bring to the table?

12 And some of their comments were quite --
13 were quite insightful, in that it touched on
14 the ability of utilities to build in a timely
15 fashion the changing customer expectations, the
16 change in expectations with regards to response
17 during storms. So, again, that further
18 prompted our team to go back and revisit the
19 criteria and to develop something that we felt
20 would be more appropriate for a utility of our
21 size, a utility that has made the commitments
22 that we have, and a utility with the resource
23 mix that we bring to the table.

24 Q. Thank you. Moving on, and I think this can be

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 addressed equally to Mr. Brouillard and
2 Stanley, and you can both offer your own
3 individual perspectives on behalf of the
4 Company, if you'd like. You obviously have
5 reviewed Mr. Chagnon's testimony, which is
6 expected to be marked as "Exhibit 2. Did you
7 have a look at the recommendation that written
8 policies and procedures be developed for
9 integration of the LCIRP planning guidelines
10 into enterprise planning for both management
11 and line employees?

12 A. (Brouillard) Yes. I recall reading that. I
13 don't have a copy in front of me.

14 Q. Would you like to borrow mine?

15 A. (Brouillard) Yes, I would.

16 Q. Sure. I'll allow you to refreshen your memory
17 about it, if you don't mind.

18 (Atty. Speidel handing document
19 to Witness Brouillard.)

20 WITNESS BROUILLARD: Thank you.

21 *[Short pause.]*

22 WITNESS BROUILLARD: Thank you.

23 MR. SPEIDEL: You're welcome.

24 BY MR. SPEIDEL:

[WITNESSES: Brouillard|Stanley]

1 Q. So, does the Company have any reaction or
2 position regarding this recommendation?
3 Obviously, the expectation by Staff is that the
4 Commission would order such a set of policies
5 and procedures to be produced, and the Company
6 would have some time to produce it, significant
7 time, in advance of the next LCIRP. Is the
8 Company still taking that under advisement? Is
9 it willing to work with Staff to move towards
10 that goal?

11 A. (Brouillard) Yes, we are. And we would look at
12 the current LCIRP as a first step towards, you
13 know, towards developing, you know, documented
14 procedures that we would employ as part of the
15 next LCIRP.

16 MR. SPEIDEL: Thank you very much. I
17 have no further questions from Staff for these
18 witnesses. And I'll allow them to keep the
19 Staff testimony for now.

20 CHAIRMAN HONIGBERG: Thank you,
21 Mr. Speidel. Commissioner Scott.

22 CMSR. SCOTT: Good morning. Excuse
23 my cough here. My usual caveat, whoever feels
24 best to answer, please do so.

[WITNESSES: Brouillard|Stanley]

1 BY CMSR. SCOTT:

2 Q. So, no particular order -- well, let's -- I
3 want to continue the line of questioning
4 regarding the "take action" limit change that
5 you were talking about. And I want to
6 understand a little bit, basically, what I'm
7 trying to understand is "why is 75 percent the
8 right number?" So, what you said is, National
9 Grid before you used 100 percent threshold.
10 Did that result in failures of some sort?

11 A. (Brouillard) It resulted in a constrained
12 ability to respond to system contingencies when
13 they occur near peak, and also resulted in a
14 constrained ability to respond to a significant
15 spot load growth on a distribution feeder. And
16 it made it very difficult, often resulted in
17 overloads, as we, and I'll give a case, an
18 example case, in Pelham, the reinforcements in
19 Pelham were not -- were not triggered until the
20 100 percent condition was forecasted to be --
21 excuse me -- to be hit. That resulted in the
22 Pelham transformer being potentially overloaded
23 until we -- until we were able to temporarily
24 off-load that. So, there's an example of the

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 criteria being set very high, and the Company
2 being challenged to react to that in time.

3 The 75 percent number really is embedded
4 in the -- in the ability for an area of four
5 feeders, if one of those feeders is lost, then
6 we can take the -- you know, the remaining
7 feeders in the area have the capability to pick
8 up that feeder that had -- that had experienced
9 an outage.

10 So, where we have sets of, you know,
11 groups of four -- groupings of four feeders, we
12 can essentially transfer the load amongst the
13 remaining feeders. We can do that in response
14 to a contingency or we could also do that in
15 response to, you know, spot load growth that
16 may occur, you know, essentially buying us time
17 to upgrade facilities in the area to meet those
18 service needs.

19 Q. So, is the four-feeder situation, is that the
20 standard through your distribution system?

21 A. (Brouillard) That's what we're heading to as
22 part of this criteria. So, where we look at --
23 and there are some other elements there, too,
24 that get intertwined. We look to have adequate

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 feeder ties between our circuits where
2 practical. So, we look to have a -- each
3 feeder to have a minimum of three feeder ties,
4 you know, two neighboring feeders, if it's
5 practical. There are some areas of our system
6 that just don't -- just aren't long enough or
7 broad enough to accomplish that. But, where we
8 can target that, we do. And, then, we also
9 couple it with some transmission and some power
10 transformer loading criteria also.

11 Q. So, obviously, just like a lot of things you
12 and we do, there's a balance between cost and
13 reliability, and trying to find that is always
14 difficult, right?

15 A. (Brouillard) That's what we get paid to do.

16 Q. And I'm an engineer. As an engineer,
17 obviously, we would gravitate to the most
18 conservative way, that way we're sure there's
19 not a problem, but that tends to be more
20 costly. So, that's really the nexus of a lot
21 of my questions.

22 Do you know what other utilities use for a
23 threshold?

24 A. (Brouillard) I believe that Eversource uses an

[WITNESSES: Brouillard|Stanley]

1 85 percent criteria. I'm not sure what
2 Unitil's is. I would caution, however, it
3 begins to become dependent on what the utility
4 has for backup equipment, what they have for
5 resources, what their transmission,
6 sub-transmission, and distribution system looks
7 like. And, you know, what their -- what their
8 general contingency and storm planning
9 philosophy is. So, it really requires a
10 holistic look as to how one is going to plan,
11 maintain, and operate the system.

12 Q. So, back to my more general concept of the
13 balance. So, you've applied -- you've at least
14 gave me one, anecdotally, one example of
15 100 percent caused problems. So, do you have
16 some kind of cost/benefit analysis that you
17 do -- that you did to get to 75 percent?

18 A. (Brouillard) No. We didn't undertake a
19 cost/benefit analysis to reach that, that
20 point.

21 Q. But your position is, for instance, and you
22 already went there with Eversource, I was going
23 to ask you "why not 85 or 90?" You know, what
24 -- so, it's really based on that four-feeder

[WITNESSES: Brouillard|Stanley]

1 scenario?

2 A. (Brouillard) That's correct, yes. And that was
3 the fundamental assumption there. Some of
4 the -- and we retained and we had some feeder
5 outage criteria that we also retained from the
6 past. So, we allow 16 megawatt-hours of outage
7 on a given feeder before we'll take action, and
8 we some similar criteria for power transformers
9 and for, you know, for sub-transmission
10 systems.

11 Our general guiding criteria is that, you
12 know, absent a, you know, a storm-type
13 condition, we should have the system in a
14 position where we can restore all customers
15 within 24 hours.

16 Q. Do you have a feel for what the price tag is
17 going from the 100 percent threshold to
18 75 percent threshold?

19 A. (Brouillard) Yes. Initially, we had developed
20 some conceptual numbers that ranged, you know,
21 in the \$14 million range over a number of
22 years. We've since, as part of further
23 refining the planning criteria, and also
24 simultaneously going forward with a couple of

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 studies, we've now determined that the new
2 criteria will require seven new distribution
3 feeders, some associated substation
4 construction, and the overall number is a
5 little -- just a shy above \$7 million. So,
6 that number has come down significantly. And
7 that would more or less take place over the
8 next five or so years at I think it's at four
9 substations, I believe, that involve feeders
10 that will help to achieve this reinforcement.

11 Q. Thanks. I'll change the topic now to the
12 non-wires alternatives. And just, again, I
13 think I understand, there are a lot of
14 complexities to look at a non-wires
15 alternative. But, if you look at energy
16 efficiency, I assume you have to be assured
17 that it will actually be there and where you
18 need it, I assume, and that's hard.

19 If you look at distributed resources,
20 especially if they're intermittent, the same
21 issue, right? You have to understand that.

22 But I was curious, has demand response
23 been something you've looked at? I mean, to
24 the extent you have especially a large

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 customer, you know, my concept would be, rather
2 than pay three or four million for a substation
3 upgrade, if you effectively, which is done on
4 the wholesale side, I think EnerNOC is a good
5 example, --

6 *[Court reporter interruption.]*

7 BY CMSR. SCOTT:

8 Q. EnerNOC. Where you pay a client to curtail
9 under contract. So, now, where you have for,
10 let's say, energy efficiency, you may -- it may
11 be hard for you to plan on. But, if you have
12 somebody under a firm contract, with a penalty,
13 then I think you'd be able to rely on a little
14 bit more. Is that something you've explored?

15 A. (Brouillard) Yes, it is. And you've just hit
16 on, really, the three areas that we think have
17 the most potential; energy efficiency, which
18 really becomes targeted energy efficiency, when
19 one looks at a discrete area, targeted
20 distributed generation, and targeted DSM.

21 You know, technically, we can certainly
22 identify, at a conceptual level, what would be
23 required to achieve the associated demand
24 reductions on the system. We believe the

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 challenge really goes beyond that. It goes
2 beyond how we -- how we research the areas, you
3 know, what type of research is necessary to
4 determine which one of -- which one or which
5 combination of those non-wires initiatives
6 might be the most effective, what sort of
7 customer research has to occur. Once we've
8 done that, you know, which specific customers
9 we're going to target, and with what -- with
10 what mechanisms? What tariff mechanisms do we
11 have available for targeted energy efficiency,
12 targeted DSM, and targeted DG? And, then,
13 what, you know, what the recovery would be for
14 the -- you know, for the Company, as we
15 implemented these.

16 And we did some high-level analysis. And
17 it was a little -- a little sobering, I guess
18 to view the potential costs of some of these
19 initiatives, relative to the wires initiatives.
20 It wasn't a straightforward, you know, this --
21 you know, a clear winner economically. If
22 anything, it was the other way around. It
23 looked like there were -- our conceptual
24 analysis indicated that it was going to be a

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 little more -- could be more expensive than
2 some of the wires alternatives.

3 Now, that certainly shouldn't be viewed as
4 an excuse not to take these initiatives
5 forward. Rather, I think it's just an excuse
6 to look for a way to perhaps pilot and get some
7 more information, as to the success, the
8 timing, the cost that would be involved in
9 implementing these alternatives to a wires-type
10 initiative.

11 Q. And, in your -- in the testimony, what I think
12 I read was, in looking at non-wires
13 alternatives, you would require to hire a
14 consultant and do a lot of legwork. And,
15 therefore, you weren't doing it, because you
16 didn't see a cost recovery mechanism there.
17 Did I read that right?

18 A. (Brouillard) I guess the cost recovery
19 mechanism remains in question at this point in
20 time, as were the costs to, you know, to
21 undertake a consultant to help us better
22 explore, you know, what's really involved here.
23 And I think it's safe to say, you know, we're
24 poised to take the next step with, you know,

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 with the Commission, with Staff, and with
2 whatever resources we need to. I think we're
3 just waiting for a little more clarity as to,
4 you know, the level of interest that we have
5 going forward and the potential to address some
6 of the issues that we identified in the report.

7 Q. So, I'd like to parse that out a little bit.
8 Because what I thought I read is, to me there's
9 two issues -- I'm sure there's a lot more than
10 two, but two cost recovery issues. If you
11 implemented a non-wires alternative, how would
12 you get cost recovery to do that? But what I'm
13 talking -- so, that's one thing I want to
14 discuss. But what I thought I was reading also
15 is, the Company was unwilling to even explore
16 or do the analysis, because they weren't going
17 to get cost recovery -- there was a concern
18 about cost recovery for the analysis?

19 A. (Brouillard) Those would be two of them. And a
20 third might be, you know, is there a decoupling
21 mechanism that may or may not come into play
22 here also? And I think part of it, at least on
23 the energy efficiency side, I think that's
24 already been addressed since the report was

[WITNESSES: Brouillard|Stanley]

1 prepared.

2 Q. So, on the cost recovery for the analysis, how
3 do you recover costs now, if you decide to put
4 a substation upgrade in? The analysis of doing
5 that, how do you cost recover that?

6 A. (Brouillard) So, depending on the timing,
7 presuming that we had already identified the
8 problem, and we were going to, at this point,
9 do preliminary engineering on a solution, those
10 costs would be captured under the preliminary
11 engineering FERC account. And, then, in turn,
12 assuming that the project went forward, those
13 costs would be capitalized along with the
14 capitalization of the assets themselves. So,
15 there's a -- there's an established recovery
16 mechanism for a study that we would undertake
17 to implement a wires alternative. Because
18 there are no capital assets involved in, you
19 know, targeted energy -- well, targeted energy
20 efficiency or targeted DG, you know, that
21 mechanism wouldn't be the appropriate mechanism
22 to recover the costs.

23 Q. And you've alluded to it, and it's in the
24 filing also in Exhibit 1, there's a reference

[WITNESSES: Brouillard|Stanley]

1 to that "regulatory action would be needed" to
2 fix these things. Does the Company have a
3 proposal?

4 A. (Brouillard) Not at this time. But, you know,
5 we stand ready to explore what proposals might
6 be applicable. And, you know, we've touched on
7 some of these very similar issues as part of
8 our grid modernization discussions that are
9 ongoing.

10 CMSR. SCOTT: Okay. Thank you. I
11 think that's all I have.

12 CHAIRMAN HONIGBERG: Commissioner
13 Bailey.

14 CMSR. BAILEY: Thank you. You guys
15 have the distinct pleasure of being the first
16 company under my preview of an LCIRP. So, I
17 have some really fundamental basic questions.

18 BY CMSR. BAILEY:

19 Q. Can you tell me, apart from this particular
20 document, what the word "plan" means to you?

21 A. (Brouillard) The word "plan" to me means the
22 ability to couple historical information with
23 current conditions, current operating
24 parameters and philosophies, and develop a

[WITNESSES: Brouillard|Stanley]

1 forward menu of actions that are consistent
2 with the Company's established risk profile.

3 Q. "Develop" -- say that again, "develop a" --

4 A. (Brouillard) I don't know if I can say it
5 again.

6 Q. "Develop a forward list of actions"?

7 A. (Brouillard) Correct.

8 Q. Is that what you said?

9 A. (Brouillard) Yes.

10 Q. Okay. And don't you think that this statute
11 requires you to develop a forward list of
12 actions that would be least cost?

13 A. (Brouillard) I'm not sure I understand your
14 question, but perhaps -- is your question
15 relative to discrete, you know, line item
16 plans? Is that your question?

17 Q. Yes. I mean, I guess what I -- I was really
18 surprised that this document looks to me like a
19 report, not a plan at all.

20 A. (Brouillard) So, if we went back somewhat in
21 time, the Least Cost Integrated Plan did look
22 just like that. It was a listing of planned
23 initiatives on the part of the Company,
24 typically contained in a detailed appendix.

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 So, there was a relatively short body to the
2 report, and then a very detailed list, in the
3 case of the predecessor company, of
4 distribution initiatives, and may have even
5 involved, at the time, transmission
6 initiatives.

7 The Company's understanding of the request
8 a couple of years -- I guess two versions ago
9 was that this report was to be less focused on
10 individual line item initiatives that, for
11 instance, would be contained in a capital plan.
12 And it was to -- it was to be a view of how we
13 go about our planning and what factors we take
14 into consideration versus the result of that
15 planning. So, the document that you see before
16 you was a direct result of those discussions.
17 We were essentially asked to shift from a
18 detailed plan, and more to a, you know, a
19 guideline plan.

20 Q. So, the Plan is just about the process?

21 A. (Brouillard) That's correct.

22 Q. Okay. So, I mean, the statute requires us to
23 adjudicate this. So, what I expected was maybe
24 a balance between those two things. An

[WITNESSES: Brouillard|Stanley]

1 establishment of some processes, and one of the
2 processes, I guess, or inputs that you've
3 raised is changing the load factor from 100
4 percent to 75 percent. And, then, you know,
5 some kind of indication of which distribution
6 facilities are at the 75 percent figure, and
7 then some alternatives to consider about how to
8 solve that problem.

9 And it seems like we just get "Well, we're
10 going to change it to 75 percent." And, so,
11 where are we supposed to adjudicate that? You
12 know, if you had given us a plan that said
13 "Looking forward five years, we think we're
14 going to need to add facilities here, here, and
15 here, and here are the different options that
16 we've considered, and this is why the option is
17 least cost." Then, we could adjudicate whether
18 that option was least cost or not. But you've
19 given us nothing like that.

20 A. (Brouillard) I would certainly apologize for
21 any confusion that may have -- may have come
22 about since the last plan was filed. When the
23 last plan was filed, you know, as I indicated,
24 you know, the clearest signal that we got was

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 that we -- it was not desired to have a listing
2 of projects, but we were specifically asked to
3 put together a methodology document. And we've
4 been through, you know, a couple of -- a couple
5 of technical sessions with Staff that, you
6 know, that was reinforced.

7 So, to the extent that somehow we, you
8 know, became confused over what it was we were
9 supposed to submit, and I apologize for coming
10 up short, if that's what happened. But our
11 feeling was that we were delivering exactly
12 what we were asked to deliver. Also, in view
13 of the -- you know, the last hearing that we
14 had on the matter a couple years ago.

15 Q. I don't think you need to apologize. It could
16 be my misunderstanding. I'm just going to take
17 a look at the order from last time.

18 *[Short pause.]*

19 BY CMSR. BAILEY:

20 Q. So, in the analysis from the order, it says
21 "provide a detailed methodology of how Liberty
22 intends to engage in distribution planning
23 performed in the past by Liberty's former
24 affiliate National Grid". So, how did you do

[WITNESSES: Brouillard|Stanley]

1 that?

2 A. (Brouillard) I'm sorry. Could you repeat the
3 question?

4 Q. "Provide a detailed methodology of how Liberty
5 intends to engage in distribution planning".

6 A. (Brouillard) So, we've described our
7 distribution planning process within the
8 document. And we've also, as part of the
9 document, we contrasted the change in the
10 planning criteria from the predecessor,
11 National Grid, to Liberty's new criteria. And
12 I believe that we included a table in the
13 document that contrasts those two -- those two
14 different planning philosophies. As well as,
15 you know, pointing out, more or less in the
16 same fashion as the previous line of
17 questioning, as to why it was appropriate for
18 Liberty to change its planning and design
19 criteria.

20 Q. And what did you interpret the next requirement
21 to mean: "Better integrate actual enterprise
22 planning within its LCIRP process, and provide,
23 as part of the filing, a business process model
24 that indicates the Liberty personnel

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 responsible for each stage"?

2 I saw the attachment with the sort of org.
3 chart development. But what does it mean to
4 "better integrate the actual enterprise
5 planning with the LCIRP process"?

6 A. (Brouillard) So, we interpreted that to mean
7 that we not only engage those groups that we
8 would typically interface with, such as the
9 Operations group. But it also involves
10 engaging the local leadership, you know,
11 through the president's office and through the
12 initiatives that come out of the planning
13 process, so that they're aware as to what the
14 result of this LCIRP process are and our plans
15 going forward. And they have an appropriate
16 feel for the -- for the steps that we're
17 undertaking, to ensure that the delivery system
18 is operating as intended.

19 So, I look at that as an integration
20 upward. Are we getting the -- are we getting
21 the right signals from executive management
22 relative, as an example, relative to our
23 appetite for risk. And, then, are we
24 developing planning criteria consistent with

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 that and are we communicating it back up in the
2 form of initiatives to address system
3 shortcomings.

4 Q. And, so, the result of this plan is that you
5 want to change the distribution thermal
6 capacity from 100 percent to 75 percent. Is
7 that the result of this Plan?

8 A. (Brouillard) No. It goes far beyond that.
9 That's merely one element of the Plan.
10 Actually, you know, a rather small element,
11 when one takes into account some of the other
12 feeder design criteria, some of the other
13 design criteria for sub-transmission and
14 substations. And we also take a look at our
15 ideas and plans to incorporate some of the
16 non-wires alternatives. Not only on a
17 going-forward basis, but to continue to capture
18 them on a historical basis and see those
19 results embedded in our forward load values.

20 Q. I think in response to Commissioner Scott's
21 question, you said you did some "high-level
22 analysis of the cost of the non-wires plan and
23 it was sobering". And, so, do you recall that?

24 A. (Brouillard) Yes, I do.

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 Q. Okay. So, is that analysis included in this
2 plan?

3 A. (Brouillard) Let me just check the appendices.
4 Thank you.

5 *[Short pause.]*

6 **BY THE WITNESS:**

7 A. (Brouillard) So, we don't have any specific
8 costs that are included in the -- I'm looking
9 at Appendix E. We give some of the -- we did a
10 hypothetical base case study, and we included
11 some of the results in tabular form. But we
12 didn't have the actual costs associated with
13 that.

14 BY CMSR. BAILEY:

15 Q. So, we don't really know whether that would be
16 least cost or the solution that you are
17 planning is least cost?

18 A. (Brouillard) Well, this is, of course, our way
19 forward. It wouldn't apply to any of the
20 current projects that are underway. We would
21 look to implement these solutions essentially
22 as a deferral mechanism to some of the projects
23 that we plan going forward that would meet the
24 screening criteria. I offered my observation

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 on the cost, just to put some relative
2 perspective to it, in that, you know, what we
3 found working with a consultant was an
4 indication that the -- it wasn't a slam-dunk,
5 as far as it being over and above an easy
6 economic alternative to, say, building a feeder
7 position. It required some substantial upfront
8 work, some substantial research, and some
9 implementation risk that goes along with it. I
10 mean, I think that, until we get a little more
11 experience with all three areas, you know,
12 there is a -- there is a risk that we could
13 implement, say, targeted energy efficiency
14 heavily into a particular area, and we might
15 find, in a year or a year and a half down the
16 road, you know, we didn't see the intended
17 results. But that's just part of trying
18 something new. I mean, we have to -- we would
19 look forward to coming up with a mechanism and
20 an environment that we can -- I really do want
21 to try, you know, some of these initiatives to
22 see if they work, and I hope they do. Because,
23 you know, it gives me, as a planner, it gives
24 me more tools in the toolbox, rather than just

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 building a feeder position or hanging another
2 step-down transformer somewhere, if I have some
3 tools that, even if they're less reliable, as
4 long as I know how reliable they are, I can
5 apply some success percentages, and I can say
6 I'm targeting energy efficiency, I could work
7 with Eric. And, as long as we know the steps
8 we have to undertake and how much it's going to
9 take, I would like to try to implement these.
10 Again, it's another tool in the toolbox.

11 Q. But we don't want to implement them unless
12 they're least cost. So, that's what this Plan,
13 to me, should be showing us, is not try
14 something and see what happens, but analyze the
15 cost of the traditional solution and the
16 alternatives that are possible.

17 Did you want to say something, Mr.
18 Stanley?

19 A. (Stanley) I was just going to add that, as part
20 of our plan development and looking at what the
21 process would be, we did, in looking at
22 non-wires alternatives, we did explore what
23 some of those options could be, what the costs
24 would be, what would the process be to

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 implement? We specifically examined specific
2 pilots that are happening elsewhere in the
3 region and also across the country. We looked
4 at the level of investment being made as part
5 of those pilots. We specifically looked for
6 pilots that could be parallel, in terms of
7 fitting into our respective geography, in terms
8 of similar customer make-up, the mix of
9 commercial versus residential customers.

10 And the sobering comment I think is a
11 response back to our analysis of some of those
12 pilots in place to date and some of the
13 preliminary results, where I think what was
14 anticipated by some of the pilots we examined
15 wasn't bearing some of the fruit that might
16 have been anticipated. And what was certainly
17 required was a lot of detailed research on
18 customer behavior, the specific potential, how
19 some of the technologies could work or not
20 work. And there's not necessarily a clear path
21 at this point for us to say "here's a slam-dunk
22 that could be deployed", but it does -- it will
23 require us more evaluation and research on our
24 part. But part of that was certainly a cost

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 examination and looking at the investment
2 required.

3 Q. But you --

4 A. (Brouillard) And given that we were -- I'm
5 sorry, I interrupted you.

6 Q. But you didn't put it in the Plan to show us
7 that this is way more expensive than the
8 traditional solution.

9 A. (Stanley) It's not definitive for us to say at
10 this point. I think what we've put in the Plan
11 was basically "Here's the process. Here's our
12 evaluation criteria of looking at some of these
13 alternatives and what we would go" -- what we
14 would be implementing going forward."

15 A. (Brouillard) I hesitated to, and I think others
16 shared my opinion, to put any hard costs in the
17 Plan. Because, given the level of
18 investigation that we did, you know, putting
19 the costs in and then ranking them, say, with a
20 current feeder or conversion or something,
21 almost looks like we're raining on the parade
22 before it starts. I really wanted to see if
23 there was a mechanism going forward that we
24 could try some of the non-wires alternatives or

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 at least take it to the next level. And it
2 seemed to me, by putting a very preliminary --
3 some very preliminary numbers in, it almost,
4 you know, casts a certain -- certain cost
5 category on non-wires alternatives before we
6 even get out of the gate. So, that was part of
7 the thinking as to why we didn't put specific
8 costs in there as part of this appendix. And
9 we certainly could have, but --

10 Q. Okay. When you reach the 75 percent mark on
11 your distribution facilities, can you tell me
12 about how long it takes to get from 75 percent
13 to 100 percent? I know it will vary, depending
14 on, you know, load growth and new customers and
15 that kind of thing. But in the ballpark?

16 A. (Brouillard) I would say we're looking at --
17 usually, we're looking at two to -- unless we
18 have a particular spot load, we're looking at
19 usually two to three years.

20 Q. And how long does it take to go through the
21 capital budget process to actually put money in
22 the budget to replace the distribution element
23 facility and get it built?

24 A. (Brouillard) So, annually, we prepare a

[WITNESSES: Brouillard|Stanley]

1 five-year plan, which is essentially a year
2 ahead and a four-year perspective plan, for a
3 total of five years. So, to the extent we get
4 a little momentum behind us, and this will
5 really be our first year with the new criteria.
6 So, we'll couple that capital budget with our
7 current load forecast and our current -- our
8 current summer peak readings on all of our
9 facilities, and that will give us some forward
10 view as to where we think -- where and when we
11 think those system reinforcements are going to
12 be required.

13 And we also take into account, it's not
14 only a loading issue, but we look to leverage
15 opportunities to improve reliability and to
16 address asset replacement needs, which is
17 becoming, you know, more and more a driver as
18 we go forward. We have some stations that were
19 built in the World War 2 and post-World War 2
20 era, that really are not -- they're not
21 economic, you know, to rebuild in their current
22 state and condition. So, we're trying to
23 couple all these factors going forward.

24 Nonetheless, I firmly believe that there

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 are some opportunities out there, given the
2 time frames, and given that we're initiating
3 this forward view, that we'll have adequate
4 time to evaluate some non-wires alternatives
5 for those projects that don't spill into the
6 asset replacement realm.

7 Q. Do you ever or have you ever attached that
8 five-year -- is it a capital budget plan that
9 you just talked about? Do you ever attach that
10 to this LCIRP document?

11 A. (Brouillard) I believe a couple of versions
12 ago, so that would be, I would guess, the 2000
13 -- might have been the 2010 plan from National
14 Grid. They may have attached either the
15 five-year budget or the year-ahead budget. We
16 do make -- we annually make an E-22 filing, of
17 course, that contains the capital plan. And we
18 have provided that five-year capital plan as
19 part of -- a number of data requests as part of
20 our current rate filing.

21 CMSR. BAILEY: Okay.

22 *[Short pause.]*

23 CMSR. BAILEY: Okay. Thank you.

24 WITNESS BROUILLARD: You're welcome.

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 BY CHAIRMAN HONIGBERG:

2 Q. The statute governing the submission and review
3 and approval of plans was changed between the
4 time of your last plan and today, was it not?

5 A. (Brouillard) I believe that's correct. I'd
6 have to --

7 Q. Commissioner Scott and I have been doing a
8 little quick research over here. And it looks
9 like the statute changed in 2014. Is that
10 consistent with your memory?

11 A. (Brouillard) Yes.

12 Q. It's true, I think, that before the most recent
13 statutory change, you couldn't get a rate
14 approval unless you could establish that what
15 you were requesting was consistent with your
16 plan, is that right?

17 A. (Brouillard) I believe that's correct.

18 Q. The decision to move in the direction of
19 treating filings like this as guideline-type of
20 documents, "how are we going to plan?" and "how
21 are we going to proceed?", rather than being
22 detail-specific plans, I'm going to ask you to
23 speculate, that change may have been, in part,
24 driven by the concern that, if you put together

[WITNESSES: Brouillard|Stanley]

1 a prescriptive plan, and then made a move that
2 departed from the prescriptive plan, you might
3 not get rate recovery. Is that a reasonable
4 surmise? I know, Mr. Brouillard, you appear to
5 have concerns about that hypothetical?

6 A. (Brouillard) I suppose. But that my
7 recollection was, at the time, that we were --
8 and, of course, this was all occurring during a
9 post-transition period, where we were moving
10 from, you know, National Grid's filed plan, we
11 developed the plan, as we were just discussing,
12 based on the previous LCIRP criteria. And, as
13 part of filing that plan, we were in technical
14 sessions with Staff and hearings with the
15 Commission. So, coming out of that, the
16 feedback that we received as part of that, as
17 part of that process, and also in reviewing the
18 Commission's order, that further moved us down
19 the road and away from a, I'll say, a more
20 detailed capital plan like filing, to more of a
21 guideline filing.

22 In terms of, I don't know, preparation or
23 visibility or -- we could certainly move to
24 either. It's, in some ways, it's easier, if

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 you will, to, you know, to file a capital like
2 plan. But the discussions were -- the
3 discussions and the work that we put into
4 developing this plan were actually
5 significantly -- significantly more difficult,
6 in that we had to, you know, identify some of
7 the true issues that come along with non-wires
8 alternatives.

9 Q. And I'm not questioning the wisdom or
10 appropriateness of the decision that you made
11 to file this type of plan, in light of the
12 history as it actually took place.

13 I am interested, though, and we don't
14 get -- we don't see this every day. This isn't
15 an everyday kind of thing, it's certainly not
16 an everyday kind of thing for you. But my
17 question is, is this useful? Is having gone
18 through this process and having this plan
19 developed and in place for you helpful to you,
20 in doing what it is you do, to benefit
21 ratepayers, to benefit shareholders, to benefit
22 the operations people who do this?

23 A. (Brouillard) We've made it helpful. Given that
24 we've -- well, given that we had to prepare

[WITNESSES: Brouillard|Stanley]

1 this filing, we prepared it in such a way that
2 we can use it, and we have. We've used it in
3 response to data requests. And we're actively
4 utilizing the planning criteria. And we'll
5 continue to use it.

6 I suppose, if you asked the question
7 another way and said "if the statute didn't
8 exist at all, you know, would we go ahead and
9 develop, you know, a least cost integrated
10 resource plan?" And the answer probably to
11 that is "no". But we would certainly -- we
12 would certainly have a planning criteria on
13 file. And we would certainly, if we were at
14 all innovative, we'd be looking at different
15 ways of meeting the needs of the system beyond
16 just the wires alternatives. And we'd probably
17 be identifying some of the -- some of the same
18 topics, concerns, and limitations that we
19 identified in this document.

20 So, I go back to, we've made it a useful
21 document by bringing all these elements
22 together in one.

23 Q. I was interested in the way you phrased your
24 own question and then answered it. I actually

[WITNESSES: Brouillard|Stanley]

1 expected you to say "yes" at the end of your
2 own hypothetical, because, in fact -- and, in
3 fact, what you then said was that you would "go
4 through a process that would produce a plan".
5 It wouldn't be a quote "Least Cost Integrated
6 Resource Plan", because that has a statutory
7 meaning. But it would touch on many of the
8 things that are significant in that plan,
9 because -- or, rather, in that statute, because
10 that statute was the product of work done by
11 the utilities and the Commission to try to
12 determine what would be helpful and useful to a
13 company. Isn't that right?

14 A. (Brouillard) That's correct.

15 Q. And, actually, I was interested in the way both
16 you and your counsel phrased the obligation
17 that the statute creates, and both of you, in
18 one way or another, characterized it as "I have
19 to prepare this document" or the Company has to
20 "do this document".

21 And I think the philosophy, instead of
22 that the document being what's significant
23 about it, it's the plan underlying the document
24 that is significant. And the document just

[WITNESSES: Brouillard|Stanley]

1 reflects that plan that I think most of us
2 would agree, and I think you would agree, is a
3 good utility practice, both for shareholders
4 and ratepayers. Isn't that a fair way to look
5 at this process?

6 A. (Brouillard) Yes, it is.

7 Q. And I think that going forward, we're going to
8 produce an order that's going to be the result
9 of some discussions you had with Staff, and
10 Staff's views about what it should look like.
11 But, ultimately, it's the underlying plan
12 that's important to both you and Staff, which
13 reflects the benefits that are both -- that are
14 for both ratepayers and shareholders. Isn't
15 that right?

16 A. (Witness Brouillard nodding in the
17 affirmative).

18 CHAIRMAN HONIGBERG: All right. I'm
19 done speechifying.

20 Commissioner Scott has another
21 question.

22 BY CMSR. SCOTT:

23 Q. Quickly, I want to go back to the very last
24 page of your Exhibit 1, Bates 164, which is

[WITNESSES: Brouillard|Stanley]

1 your hypothetical in your analysis. I just
2 want to make sure I'm understanding correctly.
3 So, you have this Risk Matrix, both graphically
4 and in chart form. And I was little surprised
5 to see, you know, I gave you the example
6 earlier that I thought perhaps demand response,
7 to the extent you could have a signed contract
8 and with penalties, *etcetera*, would be a little
9 bit more attractive to you. But I see that you
10 have on the highest risk scale as an example.

11 Am I correct, a lot of that risk scale has
12 to do with regulatory uncertainty, that you're
13 not -- you're groping for a mechanism, is that
14 what I'm seeing in this chart below it?

15 A. (Stanley) I would argue that it's more -- the
16 risk is more based on the ability to control
17 customer behavior, and you're trying -- for
18 example, if you're trying to enroll customers
19 to participate in a particular demand response
20 offering, what does it take to get them to
21 participate? Will they actually follow through
22 with the interest level? What's the investment
23 required in order to capture that customer
24 activity? And examining other pilots and

[WITNESSES: Brouillard|Stanley]

1 efforts across the country and the region, that
2 seemed to be the biggest -- one of the biggest
3 risk factors. Is, again, we can't directly
4 control if the customer wants to participate or
5 if they will participate and to what degree.
6 And, then, also similarly, the specific
7 potential in geography to actually capture the
8 opportunities that's necessary.

9 Q. Okay. So, I get, from your end, you're looking
10 at planning, "can I get the people in?" And
11 I'm looking at, "Gee, if you have signed
12 contracts, doesn't that give you the certainty
13 you need?" But you need to get there first, is
14 what you're saying?

15 A. (Stanley) You need to get there first, correct.

16 CMSR. SCOTT: All right. Thank you.

17 BY CHAIRMAN HONIGBERG:

18 Q. And I'm going to pick up where I actually
19 intended to go next, which was a very specific
20 question about the use of the word "targeted".
21 Mr. Brouillard, you used the word "targeted" to
22 associate -- associated with each of the
23 non-wires alternatives you talked about. Can
24 you talk a little bit about what "targeted"

[WITNESSES: Brouillard|Stanley]

1 means? Is it targeted to a circuit? Is it
2 targeted to a customer group? How do you --
3 what does it mean in this context?

4 A. (Brouillard) Typically, it would be targeted to
5 a circuit or an area. You know, there might
6 be -- you know, might be a couple of circuits
7 in an area that present an opportunity, you
8 know, targeted DSM, targeted DG, targeted
9 energy efficiency. To realize the potential of
10 that target, though, we need to go in,
11 understand the customer demographics, the
12 customer loads, commercial, industrial, you
13 know, residential, and, you know, how we would
14 go -- and what that means with each of these
15 initiatives, and what the -- what the
16 likelihood degree of success is as we go.

17 The "targeted" element is -- actually
18 brings some further interest to the table, in
19 that, unlike, you know, using Mr. Stanley's
20 current energy efficiency program, which is
21 more or less across the entire service
22 territory, here we'd be zooming in on a very
23 particular area. Could be an area in Lebanon,
24 where we might -- where we might have some

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 circuit loading concerns, and we would actually
2 target a very specific area of Lebanon. And,
3 now, where -- it brings to bear some other
4 issues. I mean, there might be one customer
5 perhaps in that area that presents a very
6 appealing demand reduction target. And, you
7 know, we could, in theory, go in and, with a
8 targeted DSM program, with funding that goes
9 above and beyond just the existing energy
10 efficiency program, we could go in and make
11 that facility one of the most efficient
12 facilities in the country. But how does that
13 relate to the rate recovery, the socialization
14 potential of those costs?

15 And it brought to bear some other
16 questions that we have. How does that affect
17 this customer's potential competitor in another
18 area of the state, if we have, you know,
19 swooped in and made that facility the most
20 efficient in the country, but his or her
21 competitor in some other area of the state has
22 paid to do that?

23 So, it just brought up a number of
24 interesting questions as we worked our way down

{DE 16-097} {12-06-16}

[WITNESSES: Brouillard|Stanley]

1 that road, just to take one example.

2 CHAIRMAN HONIGBERG: That's helpful.

3 Thank you.

4 Does anyone else up here have any

5 further questions, Commissioner Bailey?

6 Commissioner Scott?

7 *[No verbal response.]*

8 CHAIRMAN HONIGBERG: All right. I

9 think that's all we have.

10 Mr. Sheehan, do you have further

11 questions for the witnesses?

12 MR. SHEEHAN: Just one.

13 **REDIRECT EXAMINATION**

14 BY MR. SHEEHAN:

15 Q. I think the discussion, I don't think I need to
16 ask any more questions, but, on the issue of
17 what the Company files with the Commission with
18 regard to its capital plans, and you reference
19 an E-22 report. And that's, for the
20 Commission's benefit, is Puc 308, I believe.
21 What information is provided in that annual
22 report?

23 A. (Brouillard) In that annual report, we provide
24 the capital line items, that's our full year

[WITNESSES: Brouillard|Stanley]

1 ahead, approved capital budget, and it includes
2 a description of each of the project line items
3 and the approved funding for the year ahead.

4 Q. So, that's telling the Commission "we are going
5 to do these 14 projects this year" or whatever
6 it is?

7 A. (Brouillard) That's correct. And, typically,
8 that's -- there are some categorization of
9 those projects. So that, you know, some
10 further visibility as to what areas the funding
11 is going in.

12 Q. That does not include the five-year look
13 forward, is that correct, that particular
14 report?

15 A. (Brouillard) That is correct. The E-22 is the
16 year-ahead look.

17 Q. And you had mentioned in your testimony that
18 you've -- we've, obviously, provided
19 substantial information to Staff through the
20 pending rate case. That did include such
21 five-year look forwards, is that correct?

22 A. (Brouillard) That is correct.

23 Q. Outside of a rate case, is the Commission
24 aware, as far as you know, of what the

[WITNESSES: Brouillard|Stanley]

1 five-year plans are on a rolling basis?

2 A. (Brouillard) I do not believe there is
3 visibility of a five-year view in a formal
4 sense, similar to the E-22.

5 Q. And, if you had attached -- you referenced a
6 couple plans ago the focus was more on
7 disclosing in an LCIRP what the Company intends
8 to do specifically. If you had done that here,
9 would you have attached, in essence, what is
10 the E-22 report?

11 A. (Brouillard) I could have, or I could have
12 attached the five-year plan, one of the two.

13 MR. SHEEHAN: Thank you. That's all
14 I have.

15 CHAIRMAN HONIGBERG: All right. Is
16 there anything else for these two witnesses?

17 *[No verbal response.]*

18 CHAIRMAN HONIGBERG: Then, you
19 gentlemen can return to your seats. And I
20 think Mr. Chagnon can replace them.

21 (Whereupon **Richard Chagnon** was
22 duly sworn by the Court
23 Reporter.)

24 CHAIRMAN HONIGBERG: Mr. Speidel, you

[WITNESS: Chagnon]

1 may proceed.

2 MR. SPEIDEL: Thank you, Mr.
3 Chairman.

4 **RICHARD CHAGNON, SWORN**

5 **DIRECT EXAMINATION**

6 BY MR. SPEIDEL:

7 Q. Mr. Chagnon, could you please state your full
8 name and position at the Commission for the
9 record.

10 A. Yes. Richard Chagnon.

11 Q. And your position?

12 A. Is Utility Analyst.

13 Q. And did you produce this document, with a cover
14 letter dated November the 10th?

15 A. Yes, I did.

16 Q. And you did this as part of your
17 responsibilities of reviewing the LCIRP filing,
18 correct?

19 A. Correct.

20 Q. Excellent. Would you care to offer a general
21 summary of your conclusions that you presented
22 in this testimony?

23 A. Yes. Part of my testimony shows that the LCIRP
24 plan is adequate as written. However, making

{DE 16-097} {12-06-16}

[WITNESS: Chagnon]

1 recommendations to create training documents
2 for employees and managers, which coordinates
3 that with their least cost plan, and also found
4 issues with their planning criteria.

5 Q. So, regarding the integration piece, the
6 policies and procedures piece, could you
7 explain how your past experience at PSNH
8 informed your analysis there?

9 A. Yes. Through my 36 years at PSNH, we had
10 policies and procedures for just about
11 everything, which really coordinated employees
12 and managers knowing what the process was, and
13 it coordinated it with the plans of the utility
14 itself.

15 Q. So, in terms of some of the questions that
16 Commissioner Bailey was asking this morning, do
17 you think that the adoption of that
18 recommendation by the Commission would help to
19 make the next plan a little bit better, in
20 terms of making sure that there's life in the
21 Plan or there's some aspect of the Plan that
22 really does inform corporate decision-making on
23 a day-to-day basis?

24 A. Yes, indeed it would. As Mr. Brouillard had

{DE 16-097} {12-06-16}

[WITNESS: Chagnon]

1 mentioned that, the document now is used as a
2 quick reference for the Company. And, so,
3 having policies and procedures, it is really
4 just the next iteration of making sure that
5 everyone within the Company understands how
6 they move forward with least cost planning.

7 Q. Do you have any reaction to Mr. Brouillard's
8 statements to the effect that it's not best to
9 try to block the Company in to a specific set
10 of financial metrics regarding the different
11 options within the LCIRP, but rather it's
12 better just to present the planning
13 methodology? Do you have any thoughts about
14 that or will you take that under advisement?

15 A. Well, I do believe that the least cost plan
16 should have a process that the Company follows.
17 Do they stick to it? Possibly not completely.
18 However, it does give everyone an idea of what
19 the plan is and how to bring everyone back to
20 center, if they -- if something goes off focus.

21 Q. So, you think that having the policies and
22 procedures would -- it would also provide the
23 ability for the next plan to maybe have more
24 input from personnel, perhaps, in terms of not

{DE 16-097} {12-06-16}

[WITNESS: Chagnon]

1 just kind of a high-level overview, but maybe
2 more specific information?

3 A. Specifically, to each employee's responsibility
4 to make it happen, yes. It also would -- a
5 proper plan helps the PUC look at what their
6 process is, and then dig in deeper and say
7 "Now, show me. Show me what you did. Show me
8 that you actually have a process that's
9 effective, and that you followed the process."

10 Q. Thank you. Regarding your statements within
11 the testimony about the "take action" limit
12 being revised, you heard a discussion by Mr.
13 Brouillard about that. And, within the
14 testimony, you took a neutral position, but you
15 flagged this for the Commission's consideration
16 as something that might require a second look.
17 Is there a general context that you're involved
18 in right now where there may be more
19 information developed for the Commission's
20 review or more development of the Staff's
21 position in the near future --

22 A. Yes.

23 Q. -- that you're involved in?

24 A. Yes. Going forward, we currently are working

{DE 16-097} {12-06-16}

[WITNESS: Chagnon]

1 through the Liberty rate case. And we do have
2 a consultant, who's an engineer, Michael
3 Cannata, who will actually be addressing some
4 of those specific issues. And, so, my point
5 was to make sure that, although Staff does
6 support the Plan at this point, that doesn't
7 mean that we necessarily support the criteria
8 within the Plan, in regards to "take action".

9 Q. So, you're taking it under advisement, until
10 Mr. Cannata makes his final recommendations and
11 Staff reviews those, is that correct?

12 A. That is correct.

13 MR. SPEIDEL: Okay. There are no
14 further direct questions for Mr. Chagnon from
15 Staff.

16 CHAIRMAN HONIGBERG: Mr. Kreis?

17 MR. KREIS: I have no questions for
18 Mr. Chagnon.

19 CHAIRMAN HONIGBERG: Mr. Sheehan.

20 MR. SHEEHAN: Thank you. Good
21 morning.

22 WITNESS CHAGNON: Good morning.

23 **CROSS-EXAMINATION**

24 BY MR. SHEEHAN:

{DE 16-097} {12-06-16}

[WITNESS: Chagnon]

1 Q. On that 75 percent/100 percent issue, I
2 appreciate that what you're saying is "that's
3 not really a issue that needs to be resolved in
4 this docket, but is one better left for the
5 rate case." Is that essentially what your
6 position is?

7 A. Yes.

8 Q. And Staff will have an opinion that it's
9 appropriate, or not, and will explain why in
10 the rate case?

11 A. That is correct.

12 Q. Will you agree with me that the decision to
13 adopt a particular percentage, whether it's 75
14 or 85 or some other number, is a very
15 complicated decision that involves many, many,
16 many layers?

17 A. It absolutely does, yes.

18 Q. As far as the purpose of the IRP, there's been
19 some discussion this morning whether it is a
20 prescriptive document, as the Chairman
21 suggested, or a guideline document. And it
22 sounds like you are -- come down on the side
23 that the IRP should be more of a guideline
24 process document to guide the Company's

{DE 16-097} {12-06-16}

[WITNESS: Chagnon]

1 decision-making, is that fair?

2 A. That is fair. For as long as I've been here at
3 the PUC, that is how I have viewed the plan.

4 Q. And, if the Commission has concerns about
5 whether we decided to do Project A or Project
6 B, that would be a different look, perhaps in a
7 rate case, and you would use this guideline
8 document, in part, to decide "did they make the
9 right decision?"

10 A. Partially true, yes. However, we would also
11 look at that project and say "did they follow
12 their least cost resource plan?"

13 Q. That's what I'm saying. So, in the context,
14 most obviously, in a rate case, we chose A,
15 instead of B, and determining whether that was
16 a prudent decision, Staff and then the
17 Commission would say "Okay, they chose A. Did
18 they follow their own process in reaching the
19 conclusion to choose A?"

20 A. Correct.

21 Q. And that process, in part, might be the IRP?

22 A. That is true.

23 Q. And, as far as that goes, you think the
24 document that we have provided to you sets out

{DE 16-097} {12-06-16}

[WITNESS: Chagnon]

1 that process. I understand you have
2 recommendations for further steps, but you're
3 satisfied that the Exhibit 1 does set out a
4 process the Company intends to follow in
5 deciding whether it's Option A or Option B?

6 A. That's true. Yes.

7 MR. SHEEHAN: Thank you. I have
8 nothing further.

9 CHAIRMAN HONIGBERG: Commissioner
10 Scott.

11 CMSR. SCOTT: Thank you. I'm going
12 to ask kind of an open-ended question, so I'm
13 going to be unfair.

14 WITNESS CHAGNON: Okay.

15 BY CMSR. SCOTT:

16 Q. Do you have thoughts on how to prevent overly
17 conservative planning assumptions that would
18 unnecessarily drive up costs? Meaning is there
19 stuff the Company should be doing differently,
20 that we should be doing differently?

21 A. I believe that they're actually doing it now,
22 they are looking at all their different
23 options. My concern about the 75 percent, as
24 far as "take action", the Company has shown

{DE 16-097} {12-06-16}

[WITNESS: Chagnon]

1 that, within the next 15 years, their load is
2 going to potentially grow 10-12 percent. And,
3 meanwhile, they're looking at their criteria at
4 75 percent when they replace something or take
5 action. And, so, it just appears that that
6 could be inefficient, it could be
7 cost-prohibitive, in a time when all businesses
8 and residential customers are raising concerns
9 about high electric bills. It's not just the
10 energy portion, but it's also the distribution
11 side. And, so, the least cost plan is just
12 that, least cost. Not necessarily building in
13 for 15 or even 30 years from now.

14 Q. Thank you. And, obviously, we discussed a lot
15 with questions on the non-wires alternatives.
16 Do you have any thoughts on any regulatory
17 changes needed?

18 A. At this time, no. I do recognize, as does the
19 rest of the Staff, that it's a challenge for
20 all utilities to address properly. I think
21 that Liberty Utilities has done a good job of
22 at least addressing it, and then, from here,
23 they can move to the next step. But, in
24 regards to changes, no.

{DE 16-097} {12-06-16}

[WITNESS: Chagnon]

1 Q. Do you think our current structure, especially
2 regarding return, for instance, on investment,
3 business sense non-wires alternatives?

4 A. I don't really know.

5 CMSR. SCOTT: Thank you.

6 CHAIRMAN HONIGBERG: Commissioner
7 Bailey.

8 BY CMSR. BAILEY:

9 Q. Can you point to me in this guideline
10 document --

11 A. Uh-huh.

12 Q. -- where we can be sure that the guidelines
13 produce the least cost alternative? How does
14 the process that's outlined ensure that the
15 solution that they choose, when they need to
16 get a solution, will be least cost?

17 A. Just need a quick minute.

18 Q. Sure.

19 A. In the last docket on LCIRP, they were asked to
20 put together a planning process map and
21 timeline. And, on Page 147, they have done
22 that. Which shows that they look at every
23 single process and different options to come
24 out with the least cost for the solution.

{DE 16-097} {12-06-16}

[WITNESS: Chagnon]

1 Q. So, you're saying that, during a rate case, if
2 they chose Option A, they would show you the
3 analysis that prioritized the deficiencies and
4 evaluated the solutions?

5 A. Yes.

6 Q. And that's when we would decide that that was
7 the least cost?

8 A. That is correct.

9 CMSR. BAILEY: Okay. Thank you.

10 WITNESS CHAGNON: You're welcome.

11 BY CHAIRMAN HONIGBERG:

12 Q. The specific issue that you talked about with
13 the 75 percent versus the 100 percent standard,
14 is there a healthcare analogy that the Company
15 might want to make here that, if you do regular
16 preventative care to try and avoid something --
17 from something from getting bad, it may be, in
18 fact, lower cost than waiting until I need to
19 go to the emergency room, which as I heard Mr.
20 Brouillard discuss the risks to a circuit, that
21 the analogy came to mind during that context.

22 And, before you say anything, I understand
23 you've already had a conversation with Mr.
24 Sheehan in which the two of you have agreed

{DE 16-097} {12-06-16}

[WITNESS: Chagnon]

1 that this is a complex issue with many moving
2 parts.

3 But is that analogy, in your view, in any
4 way a valid one, useful for thinking about this
5 problem?

6 A. Yes, I believe it is. Yes.

7 Q. So, there's -- I mean, understanding that
8 there's lots of moving parts, --

9 A. Uh-huh.

10 Q. -- and it's probably premature for us to make
11 any firm judgments about the wisdom of 75
12 percent, versus 100 percent, versus 85 percent,
13 versus 60 percent. Is that fair?

14 A. That is fair. There's a difference between, in
15 healthcare, maybe at the 75 percent, that
16 there's a concern, that it's on the target
17 list, it's on the watch list. But it might not
18 necessarily require being on the "take action"
19 list.

20 CHAIRMAN HONIGBERG: All right.
21 That's helpful. Thank you. I don't have any
22 other questions.

23 Mr. Speidel, do you have any further
24 questions for Mr. Chagnon?

{DE 16-097} {12-06-16}

[WITNESS: Chagnon]

1 MR. SPEIDEL: Sure. I do have one
2 question.

3 **REDIRECT EXAMINATION**

4 BY MR. SPEIDEL:

5 Q. Mr. Chagnon, you had a little bit of a
6 interrogatory with Mr. Sheehan regarding the
7 interplay of rate case review for prudence and
8 compliance with LCIRP guidelines. And Staff's
9 current position that it's taking this under
10 advisement, this revision of the "take action"
11 level. It's considering all of the evidence
12 that will be, in large part, developed through
13 the analysis of engineer Cannata. Do you
14 recall that?

15 A. Yes, I do.

16 Q. So, is it fair to say that Staff saying "The
17 LCIRP as a whole meets the parameters in the
18 statutory standards for acceptance, does not
19 implicate a blanket approval of all the
20 planning criteria within the document itself
21 for prudence analysis in the future, is that
22 correct?

23 A. That is correct.

24 Q. So, you do reserve and Staff does reserve the

1 right in the rate case to say "well, on further
2 review we have more concerns than we had
3 expected about this issue", or, in the
4 alternative, Staff has no concern. Staff is
5 satisfied with the Company's explanations. And
6 you do reserve the right to make that kind of
7 recommendation in either direction in the
8 future, correct?

9 A. Yes. Correct.

10 MR. SPEIDEL: Very good. Thank you.
11 No further questions.

12 CHAIRMAN HONIGBERG: All right.
13 Thank you, Mr. Chagnon. I think you may return
14 to your seat.

15 Is there anything else we need to do
16 before we let the parties sum up?

17 *[No verbal response.]*

18 CHAIRMAN HONIGBERG: All right. Mr.
19 Kreis, I think you'll go first.

20 MR. KREIS: Thank you, Mr. Chairman.
21 My summing up really can largely be summarized
22 by offering up a heartfelt expression of thanks
23 to Commissioner Bailey.

24 The Office of the Consumer Advocate

1 neither supports nor opposes the approval of
2 the Liberty Electric LCIRP pursuant to RSA 378.
3 However, the Commission would like to draw the
4 attention -- or, the OCA, that is, would like
5 to draw the attention of the Commission to the
6 specific language of RSA 378:39, because it
7 recites certain substantive criteria to guide
8 the Commission in its review.

9 In relevant part, Section 39
10 initially says, and I'm reading, "In deciding
11 whether or not to approve the utility's plan,
12 the Commission shall consider potential
13 environmental, economic, and health-related
14 impacts of each proposed action" -- or,
15 "option", excuse me. "The Commission is
16 encouraged to consult with appropriate state
17 and federal agencies, alternative and renewable
18 fuel industries, and other organizations in
19 evaluating such impacts.

20 In our judgment, the reference to
21 "each proposed option" in the statute clearly
22 suggests the Legislature intended the LCIRP
23 review process to be an opportunity for
24 substantive examination of each utility's

1 specific decisions on how to deploy its
2 resources, as opposed to just an examination of
3 the adequacy of whatever processes the utility
4 has in place for examining such options itself.

5 This view of RSA 378:39 is buttressed
6 by the remaining language in the section. The
7 next sentence reads: "The Commission's
8 approval of a utility's plan shall not be
9 deemed a pre-approval of any actions taken or
10 proposed by the utility in implementing the
11 plan." Obviously, this presupposes that
12 Commission review of an LCIRP will involve
13 examination of utility actions, that is the
14 resource deployment decisions I've previously
15 referenced.

16 And the same point can be made about
17 the concluding language in Section 39, which
18 reads: "Where the commission determines the
19 options have equivalent financial costs,
20 equivalent reliability, and equivalent
21 environmental, economic, and health-related
22 impacts, the following order of energy policy
23 priorities shall guide the Commission's
24 evaluation: (1) Energy efficiency and other

1 demand-side management resources; (2)
2 Renewable energy sources; (3) All other energy
3 sources.

4 Now, the 2014 amendments that the
5 Chairman referred to earlier change none of
6 this emphasis on the substantive planning and
7 resource deployment decisions that the
8 utilities make.

9 The LCIRP document before you today,
10 and Mr. Brouillard confirmed this, is a process
11 document; it does not purport to reveal, much
12 less explain, the actual decisions this utility
13 has made. The report finishes up with six
14 conclusions, about capital budgets, about
15 non-wires alternatives, about energy
16 efficiency, about generation interconnections
17 for distributed generation, and the RPS
18 requirements, Renewable Portfolio Standard
19 requirements.

20 None of these conclusions, or the
21 underlying report that drives these
22 conclusions, provides a basis upon which the
23 Commission can determine that the utility is,
24 in fact, providing service to customers on a

1 least-cost basis.

2 Now, Mr. Brouillard testified, here's
3 what he said: He said "Annually, we prepare a
4 five-year plan that will give us some view of
5 where improvements will be required." What
6 that tells me is that the real planning is
7 happening somewhere else outside of this
8 process. That, in turn, reduces this process,
9 arguably, to busy work for all concerned. That
10 can't be what the Legislature intended. "Is it
11 useful?", asked the Chairman of Mr. Brouillard,
12 and Mr. Brouillard answered respectfully -- or,
13 Mr. Brouillard answered forthrightly that "This
14 company would not go through this exercise, if
15 it didn't have to."

16 Now, in fairness to the Company, and
17 out of respect for the many hours of work the
18 Company's able folks have devoted to preparing
19 this plan, Liberty is only doing what any
20 rational utility would do in these
21 circumstances. By "these circumstances", I
22 mean two things: (1) The need for all of us,
23 the utilities, the Commission, the OCA, and the
24 public, to try to fit the square peg of least

1 cost integrated resource planning into the
2 round hole of a restructured electric industry
3 that is in the midst of sweeping technological
4 change. (2) Prior Commission orders, and
5 we've heard about this already, that have
6 implicitly endorsed what I will call the
7 "process oriented" approach to drafting,
8 reviewing and approving least-cost plans. And
9 I'll take up these two circumstances in reverse
10 order.

11 As Mr. Chagnon noted, in his learned
12 testimony, the Commission's last order
13 approving an LCIRP for this utility, Order
14 25,625, was entered in January of 2014. The
15 order contains no discussion of the substantive
16 resource deployment decisions made by the
17 utility and, instead, adopts three
18 process-oriented suggestions made in that prior
19 proceeding by Staff.

20 Mr. Chagnon's testimony, which
21 concerns the extent to which Liberty has
22 complied with those process-oriented
23 improvements adopted by the Commission in 2014,
24 speaks for itself. My point here is simply

1 that the general approach the Company has
2 adopted here is consistent with the framework
3 for evaluating least-cost integrated resource
4 plans that is implicitly if not explicitly
5 adopted in that previous order from several
6 years ago.

7 The more important question is the
8 first of the two circumstances I previously
9 mentioned, the square peg/round hole problem.
10 Least-cost integrated resource planning was
11 cutting-edge in the 1980s world of vertically
12 integrated electric utilities. It reflected an
13 understanding that a piecemeal review of
14 utility resource deployment decisions against
15 the traditional prudent and used-and-useful
16 standards, as applied in rate cases, was not
17 enough if the goal is to assure safe and
18 reliable service at the lowest possible cost.

19 But, as the Commission has repeatedly
20 acknowledged, because electric distribution
21 companies have either divested or are about to
22 divest their generation resources, and because
23 customers can migrate to other sources of
24 energy, the "integrated" part of least-cost

1 integrated resource planning is no longer
2 operative. That's the reason the Commission
3 has allowed utilities to omit discussion of
4 generation and power purchases from their
5 plans.

6 That's not -- that is necessary, but
7 it is not sufficient. The problem isn't just
8 that utilities no longer own generation. It's
9 that transmission planning happens regionally,
10 pursuant to the complicated regime set forth in
11 FERC Order 1000, and, frankly, still being
12 worked out quite controversially here in New
13 England. It's that our regional energy and
14 capacity markets supposedly aren't working in
15 light of renewable procurement policies adopted
16 in southern New England states.

17 It's that state authority over the
18 electricity grid within their borders has
19 eroded significantly in light of the Supreme
20 Court's decision earlier this year in *Hughes*
21 *versus Talen Energy*. It's that new
22 technologies, utility scale storage, the
23 so-called smart grid, distributed generation,
24 energy management systems, are making even the

1 distribution utilities envisioned by the
2 Legislature in 1996 when it adopted the
3 Restructuring Act obsolete. And perhaps most
4 importantly, and relatedly, it's the fact that
5 in today's emerging electric grid there is
6 every reason to suppose that planning decisions
7 that are truly least-cost would rely at least
8 to some extent on services and assets provided
9 by third parties and customers themselves.
10 Again, Mr. Brouillard said as much during his
11 testimony.

12 In our judgment, it is imperative for
13 the Commission to confront this reality, though
14 not necessarily in this docket. We have been
15 endeavoring, and by "we" I mean the OCA, to
16 raise this issue in other places it's relevant,
17 specifically, the pending grid modernization
18 docket, the pending net metering docket, and
19 the pending Unitil and Liberty rate cases.

20 I have, in various conversations with
21 various parties, suggested that maybe the
22 Legislature needs to address this question. In
23 response, some stakeholders have suggested that
24 the waiver language in RSA 378:38-a gives the

1 Commission all the authority it needs to
2 reinvent least-cost integrated resource
3 planning to suit the electric grid of the 21st
4 Century.

5 If so, the Commission should take
6 that step as soon as possible. Signaling an
7 interest in reforming the LCIRP process would
8 be a very welcome and constructive outcome of
9 this docket, regardless of whether the
10 Commission approves the pending Liberty plan,
11 rejects it or takes no action.

12 A least-cost integrated resource
13 planning regime that holds investor-owned
14 utilities publicly accountable for optimizing
15 all available technologies, even at the cost of
16 their hegemony, is in the best interests of the
17 residential utility customers whose interests
18 my office represents.

19 For that reason, the call for reform
20 that I make here is something the OCA will echo
21 in other pending LCIRP dockets, in other
22 proceedings, and in public forums. We intend
23 no criticism here of either the Commission, its
24 Staff, or of Liberty. Our message is one of

1 eagerness to work with all of the good people
2 in this room to a reform of this process.

3 CHAIRMAN HONIGBERG: Mr. Kreis, I
4 have a question. In what -- in which direction
5 you think it would be best for the planning
6 process to go? Because I heard, and I feel, as
7 we discussed this, two competing things going
8 in two different temporal directions. There's
9 the concept of planning, the forward-looking,
10 "how are we going to do what it is that we do"
11 aspect of a plan. There's a more specific
12 "here's specifically what we plan to do", and
13 that is also forward-looking, but different.
14 And then there's a backward-looking "here's
15 what we have done, and was that prudent and
16 consistent with prudent utility management,
17 consistent with an appropriate plan."

18 Which of those do you think this
19 process should be focused on?

20 MR. KREIS: I think that the process
21 should focus in a forward-looking fashion.

22 CHAIRMAN HONIGBERG: Because I'm
23 concerned that some of what you said sounded
24 backward-looking, in duplicating or even

1 replacing the kind of review that goes on
2 during a rate case and a rate proceeding, about
3 whether decisions that were made and
4 expenditures that were made should be included
5 in rate base.

6 MR. KREIS: Well, you know, a rate
7 case is, in fact, backward-looking. And I
8 think, when least-cost integrated resource
9 planning was originally invented back in the
10 1980s, that was exactly the concern that those
11 folks were expressing by inventing this
12 planning process. The notion that a rate case
13 is backward-looking. It is a piecemeal kind of
14 review that focuses, if necessary, on
15 individual utility decisions to allocate their
16 resources that might not provide the
17 opportunity for a holistic look at what this
18 utility is doing overall, in a fashion that
19 makes sure that ultimately the customers are
20 getting their service for as least cost as
21 possible. And, you know, there are arguments
22 and debates to be had over what the phrase
23 "least cost" actually means. And, frankly,
24 there are some important conversations to be

1 had about to what extent a forward-looking
2 review like that inappropriately purports to
3 substitute someone else's judgment for that of
4 the management of these investor-owned
5 companies.

6 The whole reason we have
7 investor-owned utilities is that we think the
8 profit motive will incent them appropriately to
9 deploy their capital in a creative way. And I
10 don't think the Commission, or, certainly, I
11 don't think I should be in a position to
12 substitute my judgment about those things for
13 the utility's. On the other hand, this process
14 presupposes that the regulators, the Consumer
15 Advocate, and the public will have some
16 substantive impact on how these utilities make
17 their strategic decisions going forward. And
18 by that mean on the merits of those strategic
19 decisions.

20 So, I'm not saying that this is an
21 easy process that I'm proposing. I'm saying
22 that that would be a much better use of
23 everybody's resources than the homework
24 exercises that we're going through today.

1 CHAIRMAN HONIGBERG: Thank you, Mr.
2 Kreis. Mr. Speidel.

3 MR. SPEIDEL: Thank you, Mr.
4 Chairman. Staff will start off at the small
5 level, at the particular level. And I think,
6 in general terms, we would ask the Commission
7 to consider our recommendations carefully as
8 presented in Mr. Chagnon's oral and written
9 testimony, and we appreciate your consideration
10 of those recommendations.

11 But, on another level, I was involved
12 in the review of the last LCIRP, the
13 predecessor parent company's LCIRP really in
14 all but name. And I would say that this is a
15 superior product. It reads better. It has
16 more information. It holds together better.
17 And, so, Staff would like to commend the
18 Company for progress made in the direction of a
19 more substantive document, a more technically
20 interesting document.

21 And this leads to my next point,
22 which would be the Commission is the ultimate
23 arbiter of how to breathe life into the LCIRP
24 statute and a particular utility's filing. And

1 there's always going to be a dynamic tension in
2 the review of these filings, that's inherent in
3 the aspects of the regulatory system we have
4 over regulated electric distribution utilities.

5 There's many philosophies of
6 regulation, and the core philosophy seems to be
7 that electric distribution is a natural
8 monopoly. It's just about the last natural
9 monopoly in electric space right now, because,
10 until Nikola Tesla's ideas about wireless
11 electricity transmission come to fruition, this
12 is the technology that we have. And it's been
13 viewed as economically optimal to have a single
14 set of wires wherever you go in a given
15 territory.

16 So, what does regulation intend to
17 do? Well, certainly, to protect the interests
18 of the public, balance the interests of the
19 Company, the ratepayers, and other
20 stakeholders. But it also intends to simulate
21 the rigors of a market economy. If you have an
22 absence of monopoly, you always have customer
23 choices, the ultimate stick of discipline on a
24 company's capital investment decisions, if it

1 over-invests or under-invests, and customer
2 service or cost structure suffers as a
3 consequence, the market takes care of that on
4 its own.

5 But, in this instance, there's a
6 recognition that the Commission is responsible
7 for simulating the rigors of a market economy
8 on the decision-making of the company.

9 But, within the LCIRP space, there
10 certainly is a continuum of philosophies. You
11 have, at one extreme, the "AOP" philosophy,
12 which is "any old plan" will do. As long as
13 you check the boxes and have some summary
14 discussion, it's all good, don't worry about
15 it. And I've seen some low-quality LCIRPs come
16 through the door, where you can tell there is
17 no effort to really do anything other than to
18 have a blurb that fact-checks something or
19 drops the name or drops a terminology piece, so
20 that the Commission can say "Okay, it has it.
21 That's good enough."

22 But, at the other extreme, I mean,
23 the language of the LCIRP statute is generic
24 and general enough where you could almost say

1 "Well, it justifies creating the Commission as
2 a super board of directors, and Staff as a
3 super capital investment review committee, to
4 preapprove, prejudge, and predetermine
5 different invest strategies by the Company, in,
6 essentially, a command economy paradigm.

7 And Staff does not have any firm
8 position about these questions, because it
9 really depends on the facts and circumstances.
10 But, in general terms, we believe in the
11 philosophy where it's neither of those two
12 extremes. Where the Commission does have a
13 substantive document that informs its
14 decision-making regarding the LCIRP. And the
15 Company really does use it in its enterprise
16 planning. So, it's not an empty exercise as
17 Mr. Kreis cogently described. But it's not
18 something that really completely straitjackets
19 a private sector enterprise in a dynamic market
20 and investment environment.

21 So, we leave those general thoughts
22 for the Commission to ponder, because we are in
23 a time of transition. The 21st Century
24 technologies are coming along that really will

1 change the business, but we don't know exactly
2 how. So, putting everything into one basket,
3 saying "this is the five-year plan", and
4 there's no room for wiggle-room, might not be
5 the best approach in light of past historical
6 experience regarding a dynamic market economy
7 versus a relatively stagnant command economy.

8 So, Staff thanks the Commission, the
9 Company, and the OCA for its time and
10 consideration.

11 CHAIRMAN HONIGBERG: Thank you, Mr.
12 Speidel. Mr. Sheehan.

13 MR. SHEEHAN: Thank you. This has
14 been an interesting discussion. I thank
15 Mr. Speidel for his compliments on our work,
16 and I tend to agree with the -- I do agree with
17 the broad picture he just painted of the fact
18 that the statute is broad, and maybe to the
19 extent it's not broad, it's contradictory.
20 Mr. Kreis read sections that suggest you should
21 conduct a "rate case" kind of review.

22 The section that actually describes
23 what should be in the report, 378:78 [378:38?],
24 every section starts out with "a forecast" or

1 "an assessment". A forecast of this and an
2 assessment of all these things, which suggest
3 something other than a "rate case" kind of
4 review.

5 We think we've clearly presented the
6 forecast -- the assessment and policy and
7 guideline kind of document, I think you have a
8 couple categories. Is it a rate case
9 prescriptive kind of document? "This is what
10 we did, this is why we did it, and you have to
11 decide whether those decisions were right or
12 wrong", or this is the guidelines that are
13 going to support our decision-making, and you
14 can nudge that, saying "you should place more
15 weight on this" or "less weight on that", more
16 that kind of document. We believe the statute,
17 as interpreted by the Commission recently, and
18 as suggested by Staff, and as we filed our plan
19 is the latter. This is a process document.

20 The other note I'd like to make is
21 the phrase "least cost". The statute uses that
22 phrase, obviously. The first section -- the
23 first statute in the series related to the Plan
24 says 378:37, which is the policy one the

1 general court declares, and it uses the phrase
2 "lowest reasonable cost", while providing
3 reliability, safety and health and all these
4 other non difficult-to-measure factors. So,
5 it's not always a simply least cost. We can
6 either put in a new transformer or whatever the
7 non-wires alternative is. It's overlaid with
8 all of the reliability, safety, health,
9 etcetera, factors. And that's as Chris was
10 saying, there's a lot of judgment that goes
11 into those decisions. And sometimes the more
12 expensive short-term is the least cost in the
13 long run, and that was your analogy to
14 healthcare. How much of this is the well care
15 kind of money we're spending to save the bigger
16 costs down the road.

17 It could also be ultimately more
18 expensive, but a good policy thing. It's clear
19 that our customers, not just our customers, all
20 electric customers demand much more of their
21 utilities than in the old days. No longer is a
22 three-day outage okay. If it's more than an
23 hour, people are screaming. And that's fine,
24 and that's part of what we're moving towards.

1 We will never have the perfect system, nor
2 would Mr. Brouillard recommend that. But
3 that's part of the balance. The 75 percent
4 criteria is certainly our one benchmark of many
5 to get -- to walk that fine line between cost
6 and reliability of what the Commission will
7 support, what the customers want, etcetera.

8 So, to summarize, I do believe the
9 statute can be reasonably interpreted to allow
10 the kind of planning process document that we
11 filed. I believe the evidence supports that
12 this document does satisfy that reading of the
13 statute. It is adequate, as was suggested by
14 the Staff. And we ask that you approve it.

15 The condition that Mr. Chagnon put in
16 his testimony, we're okay with. We don't have
17 any objection to that condition going forward,
18 excuse me.

19 So, I look forward to this
20 conversation continuing in years down the road
21 as maybe this process wiggles. But thank you
22 for your time.

23 CHAIRMAN HONIGBERG: Commissioner
24 Scott.

1 CMSR. SCOTT: Thanks for your
2 comments. In the non-wires alternative
3 discussion, Mr. Brouillard mentioned he'd like
4 to do certain things, and a lot of talks about
5 next steps and that type of thing. Whose court
6 is that ball in? Is that -- do we need to do
7 something in an order for you or how do we move
8 this along?

9 MR. SHEEHAN: Well, and, of course,
10 you know my background if not in the running of
11 a utility or engineering, so I might be a
12 little out-of-school here.

13 But my sense is it's two-fold, partly
14 ours. If we see a non-wires solution that
15 looks like it will work, we will jump on it. I
16 can tell you, behind closed doors, Chris and
17 Eric are very supportive of those kinds of
18 things and would love to do them. Of course,
19 they also have to go through all the analysis,
20 and Eric is talking about all the other pilots
21 he is looking at, and some of them are not
22 picking up as well as they hoped.

23 The other court is, I think, in the
24 grid mod. docket. There's a lot of this very

1 same discussion, and the stakeholders are
2 pushing hard to get that kind of -- those kinds
3 of projects moving forward. And we're hoping
4 that out of that comes some real support for
5 letting us run a pilot, or maybe we propose a
6 pilot that may turn out to be more expensive,
7 and that's the risk. And that's why it's
8 difficult for us to go out on a limb and start
9 something, and we look back and say "You know,
10 if you just spent half of what you did and put
11 in the new transformer, you wouldn't have spent
12 all that money." And that's, obviously, the
13 rate -- the shareholder concerns we have going
14 down some of those roads.

15 So, I think it's partly us, it's
16 partly dockets like net metering and grid mod.
17 And I can tell you that very interesting
18 conversations are happening all the time in
19 those dockets.

20 CMSR. SCOTT: Thank you.

21 CHAIRMAN HONIGBERG: All right.

22 Well, if there's nothing else? Yes, Mr.
23 Patnaude?

24 *[Brief off-the-record discussion]*

1 *ensued.]*

2 CHAIRMAN HONIGBERG: Oh, yes. We'll
3 strike ID on all the exhibits. Thank you,
4 Mr. Patnaude.

5 And I think that probably wraps us up
6 with that reminder. Thank you very much. So,
7 thank you all for the interesting discussion of
8 something that I don't think we expected to be
9 quite as interesting when we came in here this
10 morning.

11 But we'll adjourn, take this under
12 advisement, and issue an order as quickly as we
13 can.

14 *(Whereupon the hearing was*
15 *adjourned at 12:00 p.m.)*