1	STATE OF NEW HAMPSHIRE
2	PUBLIC UTILITIES COMMISSION
3	
4	November 26, 2013 - 10:06 a.m.
5	Concord, New Hampshire NHPUC DEC12'13 PM 2:17
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7	RE: DE 12-347 GRANITE STATE ELECTRIC COMPANY
8	d/b/a LIBERTY UTILITIES: Least Cost Integrated Resource Plan.
9	and the second
10	PRESENT: Chairman Amy L. Ignatius, Presiding Commissioner Robert R. Scott Commissioner Michael D. Harrington
11	commissioner michael D. narrington
12	Clare E. Howard-Pike, Clerk
13	
14	APPEARANCES: Reptg. Granite State Electric Company d/b/a Liberty Utilities:
15	Sarah B. Knowlton, Esq.
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17	Reptg. PUC Staff: Alexander F. Speidel, Esq.
18	Steven E. Mullen, Asst. Dir./Electric Div. Leszek Stachow, Electric Division
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23	Court Reporter: Steven E. Patnaude, LCR No. 52
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19	(11-29-12)	
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1	PROCEEDING
2	CHAIRMAN IGNATIUS: Good morning,
3	everyone. I'd like to open the hearing in Docket DE
4	12-347. This is Liberty Utilities' Least Cost Integrated
5	Resource Plan, which was submitted on December 3rd, 2012.
6	We are at the point today of having a hearing on
7	considering the plan. I have no record of any intervenors
8	in the file, and there's no one appears today. And,
9	so, I think what I'd like to do, we'll start with
10	appearances, and then I'd be interested in hearing from
11	the Company or Staff what your plan for today is, in terms
12	of witnesses, order of proceeding today.
13	So, let's begin first with appearances.
14	Ms. Knowlton.
15	MS. KNOWLTON: Good morning,
16	Commissioners. My name is Sarah Knowlton. I'm here today
17	on behalf of Granite State Electric Company, which does
18	business as Liberty Utilities. With me at counsel's table
19	is Christian Brouillard and Stephen Hall, both from the
20	Company.
21	CHAIRMAN IGNATIUS: Welcome.
22	MR. SPEIDEL: Good morning,
23	Commissioners. Alexander Speidel, representing the Staff
24	of the Commission. And, I have we me Les Stachow, and
	{DE 12-347} {11-26-13}

1also Steve Mullen of the Electric Division.2CHAIRMAN IGNATIUS: Good morning.3MR. SPEIDEL: And, if I may, I would be4happy to provide the succinct description of the5proceeding today. The Staff and the Company have agreed6that we would like to call, as a witness panel, Mr.7Stachow and also Mr. Brouillard to the stand. And, there8will be a series of general interrogatories regarding the9content of the LCIRP, and also some of the Staff's10suggestions for the next LCIRP filing, and also the Staff11overall recommendation for the current LCIRP filing before12the Commission. And, I think some of those questions13will, of course, be engaged in by Ms. Knowlton through14direct interrogatories, and myself through cross, and vice15versa.16CHAIRMAN IGNATIUS: All right. Is that17acceptable?18MS. KNOWLTON: That's acceptable. And,19I would add that there is one document that the Company20would propose to mark for identification as "Exhibit 1",21and that's the Least Cost Integrated Resource Plan of		[WITNESS PANEL: Brouillard~Stachow]
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	19	I would add that there is one document that the Company
and that's the Least Cost Integrated Resource Plan of	20	would propose to mark for identification as "Exhibit 1",
	21	and that's the Least Cost Integrated Resource Plan of
22 Granite State Electric Company dated November 29th, 2012.	22	Granite State Electric Company dated November 29th, 2012.
23 CHAIRMAN IGNATIUS: So marked, and that	23	CHAIRMAN IGNATIUS: So marked, and that
24 will be as "Exhibit 1".	24	will be as "Exhibit 1".

	[WITNESS PANEL: Brouillard~Stachow]
1	(The document, as described, was
2	herewith marked as Exhibit 1 for
3	identification.)
4	CHAIRMAN IGNATIUS: And, then, why don't
5	we go ahead then with the panel, if you want to have
6	people seated. And, Mr. Patnaude, you can swear them.
7	(Whereupon Christian P. Brouillard and
8	Leszek Stachow were duly sworn by the
9	Court Reporter.)
10	CHAIRMAN IGNATIUS: All right.
11	Ms. Knowlton, do you want to proceed?
12	MS. KNOWLTON: Yes. Thank you.
13	CHRISTIAN P. BROUILLARD, SWORN
13 14	CHRISTIAN P. BROUILLARD, SWORN LESZEK STACHOW, SWORN
14	LESZEK STACHOW, SWORN
14 15	LESZEK STACHOW, SWORN DIRECT EXAMINATION
14 15 16	LESZEK STACHOW, SWORN DIRECT EXAMINATION BY MS. KNOWLTON:
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14 15 16 17 18	LESZEK STACHOW, SWORN DIRECT EXAMINATION BY MS. KNOWLTON: Q. I'll start with Mr. Brouillard. Good morning, Mr. Brouillard.
14 15 16 17 18 19	LESZEK STACHOW, SWORN DIRECT EXAMINATION BY MS. KNOWLTON: Q. I'll start with Mr. Brouillard. Good morning, Mr. Brouillard. A. (Brouillard) Good morning.
14 15 16 17 18 19 20	LESZEK STACHOW, SWORN DIRECT EXAMINATION BY MS. KNOWLTON: Q. I'll start with Mr. Brouillard. Good morning, Mr. Brouillard. A. (Brouillard) Good morning. Q. Would you please state your full name for the record.
14 15 16 17 18 19 20 21	LESZEK STACHOW, SWORN DIRECT EXAMINATION BY MS. KNOWLTON: Q. I'll start with Mr. Brouillard. Good morning, Mr. Brouillard. A. (Brouillard) Good morning. Q. Would you please state your full name for the record. A. (Brouillard) Christian P. Brouillard.
14 15 16 17 18 19 20 21 22	LESZEK STACHOW, SWORN DIRECT EXAMINATION BY MS. KNOWLTON: Q. I'll start with Mr. Brouillard. Good morning, Mr. Brouillard. A. (Brouillard) Good morning. Q. Would you please state your full name for the record. A. (Brouillard) Christian P. Brouillard. Q. By whom are you employed?

		[WITNESS PANEL: Brouillard~Stachow]
1		Liberty Utilities.
2	Q.	What is your position with the Company?
3	Α.	(Brouillard) I am the Director of Engineering.
4	Q.	And, in that capacity, do you have any responsibilities
5		for Granite State Electric's Least Cost Integrated
6		Resource Plan?
7	Α.	(Brouillard) Yes, I do.
8	Q.	Would you describe those?
9	Α.	(Brouillard) Yes. The Plan was prepared under my
10		direction, with assistance from individuals within
11		within Liberty Utilities, and also within National
12		Grid, under the terms of our Transition Services
13		Agreement that we have with them.
14	Q.	Would you describe, you indicated that there are a
15		number of individuals at Liberty that participated in
16		this plan, can you describe the functional areas from
17		the Company that participated in its development?
18	Α.	(Brouillard) Yes. We had representatives from our
19		Energy Efficiency DSM Group, we also had
20		representatives from our Energy Procurement Group. We
21		had counterparts from National Grid in both of those
22		areas, and also, you know, my counterpart and his
23		direct reports in the distribution planning area.
24	Q.	Were there particular sections of the report that were

1		[WITNESS PANEL: Brouillard~Stachow]
1		prepared by National Grid?
2	Α.	(Brouillard) Yes. For the most part, the report is
3		based on the process that National Grid had instituted
4		up to the sale. So, National Grid had a very driving
5		role in the preparation of all of the material that you
6		see in this report, albeit Liberty Utilities, you know,
7		reviewed them, and also assisted National Grid in the
8		assembly of all that material.
9	Q.	Do you have a copy before you of the Plan that we've
10		marked for identification as "Exhibit 1"?
11	Α.	(Brouillard) Yes, I do.
12	Q.	And, that is the Plan that you supervised the
13		production of?
14	Α.	(Brouillard) That is correct.
15	Q.	And, are you familiar that we have a statute RSA 378:38
16		in New Hampshire that governs the submission of least
17		cost plans to the Commission?
18	Α.	(Brouillard) Yes. And, I am familiar with the statute.
19	Q.	In the preparation of the Plan, did you review that
20		statute?
21	Α.	(Brouillard) Yes, I did.
22	Q.	And, do you have an opinion about whether or not the
23		plan, as submitted, complies with the statute?
24	Α.	(Brouillard) Yes. It's my opinion that the filing is
		{DE 12-347} {11-26-13}

[WITNESS PANEL . Brouillard~Stachow]

	[WITNESS PANEL: Brouillard~Stachow]
1	indeed consistent with the adequacy requirements within
2	that statute for a least cost integrated resource plan.
3	MS. KNOWLTON: I think, at this point,
4	I'm going to turn to Mr. Speidel. It may be that there's
5	he has some cross-examination questions for
6	Mr. Brouillard, and may want to move to Mr. Stachow at
7	this point. So, I'll turn it over to Staff.
8	MR. SPEIDEL: Thank you.
9	CHAIRMAN IGNATIUS: That's fine.
10	MR. SPEIDEL: Thank you, Ms. Knowlton.
11	CROSS-EXAMINATION
12	BY MR. SPEIDEL:
13	Q. Mr. Brouillard, does the phrase "wires versus non-wires
14	planning alternatives" mean something to you?
15	A. (Brouillard) Yes, it does.
16	Q. Could you just describe it generally for the
17	Commission?
18	A. (Brouillard) Yes. I'd be happy to. In the course of
19	planning our well, analyzing our delivery system and
20	planning for the future needs of the system, we
21	typically look at what we'll call "wires alternatives",
22	and that would involve some of the traditional
23	reinforcements to the system, such as reconductoring of
24	a smaller size conductor with something larger,

1 replacement of electrical equipment that is likely to
2 be loaded beyond its thermal ratings, you know, absent
3 any action on our part, upgrading of transformer sizes
4 as another example.

We also look at, and, again, as part of 5 6 the process that was utilized by National Grid in prior 7 years, we would take into account the opportunity to employ any non-wires alternatives, which might include 8 energy efficiency, demand-side management initiatives, 9 10 or even distributed generation, into that planning 11 process, as a competitor, if you will, to some of the 12 more traditional wires alternatives. We do have some 13 screening criteria that we would employ as part of that 14 process to ensure that we're making a like-to-like 15 comparison between wires and non-wires alternatives. 16 Q. And, would you expect that, in advance of the next 17 LCIRP filing, that there will be some level of informal 18 consultation between the Company and Staff regarding 19 such alternatives in the planning process? 20 Α. (Brouillard) Yes, I would. And, we would look forward 21 to that opportunity. I would further state that it was 22 our plan all along that, as we came to the end of the 23 Transition Services Agreement in the planning arena, 24 that Liberty Utilities would be revisiting its own

	[WITNESS PANEL: Brouillard~Stachow]	
1	approach to planning and its planning criteria. And,	
2	in conjunction with that, we would also be looking at	
3	how the non-wires alternatives would best fit into the	
4	Liberty-centric process going forward.	
5	MR. SPEIDEL: Thank you. Staff doesn't	
6	have any further questions of Mr. Brouillard. We could	
7	proceed with direct interrogatories of Mr. Stachow or the	
8	Commission could ask Bench questions of Mr. Brouillard or	
9	wait until after?	
10	CHAIRMAN IGNATIUS: Why don't you go	
11	ahead and we'll take all of our questions as a group.	
12	MR. SPEIDEL: Okay. Thank you,	
13	Chairman.	
14	DIRECT EXAMINATION	
15	BY MR. SPEIDEL:	
16	Q. Mr. Stachow, could you please state your full name for	
17	the record please.	
18	A. (Stachow) My name is Leszek Stachow.	
19	Q. And, what is your position and role at the Commission?	
20	A. (Stachow) I'm an Analyst in the Electrical Department.	
21	Q. Did you review the filing that has been marked as	
22	"Exhibit 1"?	
23	A. (Stachow) Correct.	
24	Q. And, that would be the LCIRP filing?	

		[WITNESS PANEL: Brouillard~Stachow]
1	Α.	(Stachow) I did.
2	Q.	In general terms, Mr. Stachow, would you concur that
3		the Company's filing generally comports with the
4		standards of acceptance by the Commission under the
5		LCIRP statute?
6	Α.	(Stachow) In general, yes.
7	Q.	And, would you describe that as Staff's general
8		position on this filing?
9	A.	(Stachow) Correct.
10	Q.	Are there certain suggestions that you would like to
11		make for a future filing that would be worthy of the
12		Commission's consideration and also the Company's
13		consideration?
14	A.	(Stachow) There are.
15	Q.	Would you like to outline those now for us?
16	A.	(Stachow) Certainly. Based upon Staff's reading of the
17		report, we understand that distribution planning that
18		was formally provided by National Grid engineers will
19		now be embraced by Liberty Utilities itself. And, so,
20		it would be helpful if the Company would be able to
21		provide Staff with a detailed methodology of how it
22		will go about carrying out this function.
23		My second comment relates to the filing
24		itself. Although the filing fulfills the requirement,

1		[WITNESS PANEL: Brouillard~Stachow]
1		as I understand it, of the statute, it reads as a
2		report and less as a methodology that is applied and
3		informs Liberty Utilities in its planning. I would
4		like that the Company provide a detailed process for a
5		diagram that indicates who is involved in each stage,
6		the inputs that are involved in that stage, the outputs
7		that come out of that stage, the period of time under
8		which it takes place, so that I have a full
9		understanding of each step of the planning process,
10		who's involved, and the input and the output variables.
11	Q.	Is that limited to the capacity planning process or
12		does it interrelate to all of the planning processes?
13	Α.	(Stachow) I had indicated "capacity planning", but my
14		concern is that, when I read the report, I can see
15		primarily how this report informs the internal
16		distribution planning process at the Company. And,
17		that is all I'm looking for.
18		I might add that I have carried out a
19		discussion last week with Public Service of New
20		Hampshire over the same matter, and that particular
21		technical discussion has been extremely helpful in
22		getting a clearer understanding of how the planning
23		process is pursued.
24		My third concern, which relates to the

	[WITNESS PANEL: Brouillard~Stachow]	
1	second, is to see how demand-side and supply-side	
2	options are integrated into the Plan, and to understand	
3	how the impact of environmental, economic, and, I think	
4	perhaps to maybe a lesser extent, health-related	
5	impacts inform the decision-making process. That's it.	
6	MR. SPEIDEL: Thank you. The Staff	
7	would like to make the panel, including Mr. Stachow,	
8	available for questions from the Bench.	
9	CHAIRMAN IGNATIUS: Thank you.	
10	Ms. Knowlton, other questions?	
11	MS. KNOWLTON: I had I just had one	
12	question for Mr well, for either of the witnesses.	
13	CROSS-EXAMINATION	
14	BY MS. KNOWLTON:	
15	Q. The Plan that was submitted contains a detailed section	
16	on the energy efficiency programs that are approved as	
17	part of the CORE docket here at the Commission. To the	
18	extent that the Company were to identify energy	
19	efficiency measures in the future that might be a	
20	competitive alternative to a wires side option, would	
21	the Staff, you know, be willing to work in a flexible	
22	manner with the Company, in order to have that energy	
23	efficiency solution considered as an option?	
24	A. (Stachow) By all means.	

	[WITNESS PANEL: Brouillard~Stachow]
1	Q. And, I think the concern that you might imagine that
2	the Company might have is that we have a fairly
3	prescriptive process for approval of energy efficiency
4	measures as part of the CORE Program. And, we're
5	trying to understand how Staff might view those coming
6	together, given that separate approval process. So,
7	any insight that you can provide on that, Mr. Stachow?
8	A. (Stachow) Not at this time.
9	MS. KNOWLTON: Okay.
10	CHAIRMAN IGNATIUS: All right. Are
11	there questions? Commissioner Harrington.
12	CMSR. HARRINGTON: Yes. Just a couple
13	of questions.
14	BY CMSR. HARRINGTON:
15	Q. Just getting back to the energy efficiency programs,
16	the ISO is proposing some major changes to the Forward
17	Capacity Market in the form that they're referring to
18	as the "Performance Enhancement", or "PI FCM", and that
19	could be implemented coming up in the future. And, it
20	will make some major changes to the M&V programs for
21	energy efficiency programs. Has the Company looked
22	into this and figured out what the impact might be of
23	those changes?
24	A. (Brouillard) That isn't my particular area of

[WITNESS PANEL: Brouillard~Stachow]

1 expertise. Rather, I am, you know, gathering, really, 2 the results of the energy efficiency programs on a 3 historical basis, and then using that information as a tool to plan forward. But, you know, recognizing that 4 5 that will take place, I would anticipate that we'd see a more robust contribution of energy efficiency towards 6 7 further reducing the embedded demand levels that we use in our forecast. 8

But what I was referring to was, and now I think, and 9 Q. 10 don't quote me on the exact hours, but, generally, the 11 energy efficiency programs are measured on their performance, I think it's from 1:00 to 5:00 during the 12 13 summer months, and then 5:00 to 7:00 p.m. during the 14 winter months, and the rest of the time they don't have 15 to show what they do. Under this new proposal, they 16 would have to show what they -- how much they reduce 17 energy 24/7/365. And, if, for example, there was a 18 factory that let's just say it was closed on Sundays 19 and didn't use or used very little power, so they 20 wouldn't have their energy efficiency from their new 21 light bulbs or new motors that were more efficient, 22 they would be susceptible to penalties during those 23 times, because they weren't delivering the lower amount 24 of energy, or they would also have to expand their M&V

		[WITNESS PANEL: Brouillard~Stachow]
1		programs substantially. There's been a lot of
2		discussion on the cost associated with doing that, and
3		whether it would even be worth to continue in the
4		Forward Capacity Market. And, of course, if they don't
5		continue in the Forward Capacity Market, then that
6		would be a loss of some revenues, which would cut down
7		on the expansion of potential expansion of energy
8		efficiency in the future. So, maybe that's something
9		we need to address at least in the next plan. It's not
10		going to be implemented for a little bit, but it's
11		something that's generally there.
12		Also, just a different question now.
13		There was talk about, you said, I was trying to catch
14		all of this when you were talking then, about
15		"demand-side versus supply", and then and something
16		with "environmental impact" you wanted them to cover.
17		Can you give us a little more? I wasn't quite sure
18		what you were getting at there.
19	Α.	(Stachow) My concern is to understand the
20		decision-making throughout the distribution,
21		specifically, distribution planning process, and I want
22		to understand how environmental concerns, economic
23		concerns, and health-related concerns as itemized in
24		the statute inform the decision-making process and how

		[WITNESS PANEL: Brouillard~Stachow]
1		the ultimate decisions are prioritized.
2	Q.	Okay. That's I guess that's where I'm having a
3		little confusion. We have a Renewable Portfolio
4		Standard, which says that the Company has to buy so
5		much qualified renewable energy. There's obviously
6		environmental laws in effect on both the state and
7		federal level. So, are you saying that the Company
8		should go beyond that and do some additional analysis
9		as to, if they buy power in the portfolio is going to
10		come from a nuclear plant, that they should be saying
11		"well, what's the impact of the potential long-term
12		storage of nuclear waste on the environment?"
13	Α.	(Stachow) No, I'm not. What I'm saying is that I need
14		to have a clear understanding of how those elements are
15		factored in to the transmission planning process
16		itself.
17	Q.	So, you're assuming that they are factored in?
18	Α.	(Stachow) I am indeed.
19	Q.	Okay. And, what if the Company were to say simply "we
20		comply with the environmental laws and the Renewable
21		Portfolio Standard laws, and we could always solicit
22		our power based on the agreement that we have, which is
23		basically to get all legal power at the lowest price we
24		can for our customers"?

i	[WITNESS PANEL: Brouillard~Stachow]	
1	A. (Stachow) I would consider that acceptable.	
2	CMSR. HARRINGTON: Okay. Thank you.	
3	That's all I had.	
4	WITNESS BROUILLARD: If I could just ask	
5	for a clarification? You mentioned the "transmission	
6	planning process". Just to clarify, that Liberty	
7	Utilities doesn't own any transmission assets. We're	
8	our transmission service is provided by National Grid.	
9	So, I'm assuming that you meant the "distribution process"	
10	in the general term?	
11	WITNESS STACHOW: I thought I had said	
12	"distribution process", perhaps I was misled.	
13	CMSR. HARRINGTON: Yes. Yes, you did	
14	say "transmission", and I thought you meant	
15	"distribution".	
16	WITNESS STACHOW: My apologies.	
17	BY CMSR. HARRINGTON:	
18	Q. I was referring more to, not so much the distribution	
19	system planning, but you were talking about	
20	"demand-side" and "supply-side", so, you're talking	
21	about acquisition of the power that they buy?	
22	A. (Stachow) Not at all.	
23	Q. Okay. Well, then, you've got me completely confused	
24	then. You're talking simply about the let me get	

		I9 [WITNESS PANEL: Brouillard~Stachow]
1		back to that. When you were talking about it in the
2		beginning, you said something about "balancing" or
3		"knowing more about demand-side versus supply", that
4		was where I thought you were heading towards how they
5		procured the power to distribute to their customers.
6	Α.	(Stachow) I'm accepting the fact that the process by
7		which power is procured is beyond the scope of my
8		analysis here.
9	Q.	Okay. So, you're just referring to the environmental
10		impacts of their distribution system then?
11	Α.	(Stachow) That's correct.
12	Q.	As far as where they run the wires or whatsoever?
13	Α.	(Stachow) Yes.
14		CMSR. HARRINGTON: Okay. All right.
15	Th	at helps a little bit. All right. Thank you.
16		CHAIRMAN IGNATIUS: Commissioner Scott.
17		CMSR. SCOTT: Good morning.
18	BY C	MSR. SCOTT:
19	Q.	Either one of you, I well, actually, for the
20		utility, I suppose. Obviously, this report was
21		prepared in November last year. And, I assume you
22		didn't have a crystal ball to see the gas spikes and
23		everything that happened over last winter. Well, if
24		you did, I assume you'd be on Wall Street and not here.

		[WITNESS PANEL: Brouillard~Stachow]
1		Given all that, you understand what I'm talking about,
2		though, the big spikes we saw last winter due to the
3		gas pipeline constraints?
4	Α.	(Brouillard) Right.
5	Q.	With that, I was just curious, would that, if you had
6		knowledge of that, I understand this was presented
7		before that, would that have any impact on your
8		analysis and the LCIRP that you submitted?
9	Α.	(Brouillard) Not likely. And, the reason I say that is
10		most of well, not most of, the bulk of our focus is
11		on identifying the need to reinforce the delivery
12		system and, to a large extent to a great extent,
13		that is, you know, independent of the, you know, of the
14		market forces behind the gas supply. There's certainly
15		a link to economic activity that we'll see trickle
16		through eventually. But, if we look back in the past
17		historically, we can see a relatively stable load
18		growth pattern that, you know, absent any impact of
19		spot loads, it is rather predictable.
20	Q.	Okay. And, one of the reasons I asked is, obviously,
21		in RSA 378:38, it does talk about "provisions for
22		diversity of supply sources". So, again, it was just
23		an open question. Okay. Thank you. In Mr. Speidel's
24		Attorney Speidel's questioning, it almost implied,

1	[WIINESS PANEL: Brouillard~Stachow]
1	when he asked "moving forward would you use a
2	collaborative consulting process with Staff before the
3	next submission", and, of course, the answer was "yes".
4	That begged the question, was there no I know you
5	worked with National Grid more closely on this
6	submittal, but was there no collaborative process with
7	Staff for this submittal?
8	A. (Brouillard) Going back, you know, the short historical
9	version is we, and I'm not an attorney, but we did have
10	an open docket that was covered in the 2010 time frame,
11	while we were under National Grid ownership. And, it's
12	my understanding that there was a meeting with Staff in
13	that time frame. Then, the docket was stayed as part
14	of the sale docket. And, subsequently, in the December
15	of 2011 time frame, we also met with we also met
16	with Staff to discuss the forward plans for filing
17	this, this particular docket. So, there were a couple
18	of meetings, you know, that had occurred in the
19	preparation of this document.
20	CMSR. SCOTT: Okay. Thank you. That's
21	all I have. Thank you.
22	CHAIRMAN IGNATIUS: A few questions
23	about items in the Plan itself that I wanted a little more
24	explanation of. And, I may just go in order. We'll see
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1		[WITNESS PANEL: Brouillard~Stachow]
1	if	that makes any logical sense.
2	BY C	HAIRMAN IGNATIUS:
3	Q.	If you turn to Page 10, it says in that top paragraph
4		that "Studies are ongoing, but it appears significant
5		pipeline infrastructure upgrades are necessary." Can
6		you provide a little more detail on what you're
7		describing there?
8	Α.	(Brouillard) That particular area of the report was
9		prepared by our Energy Procurement arena. And, I
10		apologize, but that's not that's not my area of
11		expertise. So, I don't feel qualified to comment on
12		that particular section of the report.
13	Q.	In general, can you give me a sense of how those
14		infrastructure upgrades might be factored in to your
15		to your integrated resource planning?
16	Α.	(Brouillard) Yes. As we to the extent that has
17		an impact on the price of gas, the price of
18		electricity, and also, you know, the general impact on
19		the economy driven by any pipeline constraints, we
20		would expect to see that trickle through eventually,
21		either in the form of reduced demand directly or in the
22		form of reduced economic activity, which would
23		translate into reduced demand. I would expect to, if
24		that continued, we would expect some impact on see

1 2	some impact on our power supply area forecast for the two areas going forward being somewhat tempered due to
2	two areas going forward being somewhat tempered due to
3	those two factors.
4 Q	. On Page 20, there's a reference in the end of Section
5	5, regarding demand-side resources, that talks about
6	"smart metering systems", and although you didn't
7	discuss smart metering. What is the status of metering
8	within Liberty? Do you have efforts to advance the
9	amount of smart metering deployed?
10 A	. (Brouillard) We currently have no plans to escalate any
11	smart metering systems at this juncture. We do have an
12	AMR system that we use. And, there's some limited
13	very limited time-of-use metering that's out there,
14	really, on a legacy basis. But we currently have no
15	plans to expand a smart metering program.
16 Q	. So, there's no expectation of going to a time-of-use
17	system?
18 A	. (Brouillard) I think we'll be looking to, as we alluded
19	to somewhat a little later on in this report,
20	particularly when it comes to electric vehicles,
21	there's probably going to be an opportunity there to
22	consider, you know, with Staff and with the Commission,
23	opportunities for a time-of-use rate off of smart
24	metering. It's projected, based on our discussions and

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		[WITNESS PANEL: Brouillard~Stachow]
1		analysis with National Grid, it's projected that that
2		would have quite a significant impact to lower the
3		effect of electric vehicles on demand on the electric
4		grid. So, that would certainly be something that, you
5		know, going forward, as we see the electric vehicle,
6		you know, begin to penetrate into the delivery system,
7		that we'd like to take a look at.
8	Q.	Well, let's jump ahead to your forecast. And, the
9		report itself, the Plan itself has a lengthy 30-40 page
10		attachment, so I'm not asking you to go through all the
11		detail there. But what are the what are the high
12		points, sort of major findings on your power
13		forecasting?
14	Α.	(Brouillard) It's worthwhile noting some of the, you
15		know, some of the splits. We're about 200 megawatts
16		overall demand in Granite State, roughly an even split
17		between Granite State East, which is mostly Salem and
18		Pelham, and Granite State West, which is driven
19		predominantly by load in the Lebanon/Hanover area. The
20		more robust areas are Pelham has grown at around a
21		three percent rate, and the Lebanon area has grown
22		somewhat over two percent. The drivers there being the
23		loads at the hospital and Dartmouth College.
24		Overall, it's been, you know, I'll say

	[WITNESS PANEL: Brouillard~Stachow]
1	relatively relatively predictable. If you look over
2	time, you know, the growth rate is somewhere in the
3	two percent range. There are some, you know, there are
4	some pluses and minuses along the way. But, I think,
5	going forward, just taken in aggregate, it's a
6	relatively predictable forecast, absent any, you know,
7	significant spot loads that might come into being.
8	And, we do take spot loads into account. We don't just
9	we don't just base our forecast for system
10	reinforcements just based on the raw PSA. We do add to
11	that any spot loads that we're aware of. And, as part
12	of the forecast, we also take into account the
13	econometric data. We take into account the, you know,
14	housing starts in the area. We take into account the
15	impact of weather. Interesting to note that I believe
16	2011 was actually an extreme weather case year, based
17	on the weather data out of the Concord Weather Station.
18	So, that would be a, you know, 1-in-20 year scenario
19	that we actually had in 2011. 2012, the forecast was
20	down about 4 percent, in terms of actuals, from what we
21	had seen the prior year. So, there is some, you know,
22	as I said, there are some pluses and minuses along the
23	way.
24	We also take into account some of the

1		[WITNESS PANEL: Brouillard~Stachow]
1		in addition to the county level data, we take into
2		account town usage data within New Hampshire itself, to
3		further drive down the power supply area forecast down
4		to a feeder, a circuit level, if you will, so that we
5		can couple that information with the thermal ratings of
6		the equipment that's on those circuits.
7	Q.	In light of some of those spot loads, it makes me think
8		that distributed generation is a useful tool. And, in
9		the Plan itself, on Page 21, it says that there's
10		"relatively modest amount of DG applications within
11		your territory." And, in the next line it says "The
12		decision to install and run DG systems is made by
13		customers based on economic, environmental, and
14		operational drivers." But, in fact, the utility could
15		be making its own investments in DG under our state
16		statute. I don't know if you're aware of that. But
17		374-G allows for some degree of investment by a
18		utility. Do you know if there's any consideration of
19		any distributed generation driven by the utility,
20		rather than awaiting a customer's request?
21	Α.	(Brouillard) I'm not aware of anything at this point in
22		time in New Hampshire. I wouldn't preclude that from
23		happening. But I'm not aware of anything that's, you
24		know, that's immediately in the pipeline where we would

		[WITNESS PANEL: Brouillard~Stachow]
1		see an immediate impact on something of this nature. I
2		do know that, when we were part of National Grid, that
3		was part of the forward thinking. There were several
4		installations within Massachusetts that were in that
5		particular category. So, you know, given an
6		opportunity, it could potentially become something that
7		we could look at going forward. But, again, I'm not
8		aware of anything immediately in the pipeline.
9	Q.	And, in the planning to look at that, how would the
10		possibility of a company-driven DG investment be
11		handled? How does it fit into your planning process?
12	Α.	(Brouillard) When we when we do develop our forward
13		planning approach beginning in 2014, I would suspect
14		that, if there were an opportunity to do something like
15		that, we would look, you know, as we were discussing
16		earlier in the energy initiatives front, we'd probably
17		look to selectively apply something like that in an
18		area where it would ultimately provide customers with,
19		you know, with the greatest benefit. That is, with the
20		greatest possibility of deferring facility additions.
21		We would need to keep in mind the size of such a
22		facility. I mean, for instance, when we're adding a
23		feeder position, that adds, you know, about 8 to
24		10 megawatts of capacity into an area. A one-megawatt

		[WITNESS PANEL: Brouillard~Stachow]
1		solar installation is, you know, quite substantial in
2		terms of the area that it occupies, and the impact on
3		the feeder, you know, the capacity factor, and, you
4		know, there are other issues that all come into play
5		that we would want to calculate out in great detail.
6	Q.	And, I know you're not a lawyer, and I wouldn't expect
7		you to have the statute memorized. But, just for your
8		own thoughts back in the office, you should take a look
9		at 374-G:4, II, which allows an electric utility to
10		invest in distributed generation up to "a maximum of
11		6 percent of the utility's total distribution of peak
12		load measured in megawatts." So, see what the options
13		are, how far you could go with that, if it's the right
14		thing, and reduces peak load, or if it offsets another
15		more costly investment.
16	Α.	(Brouillard) Thank you.
17	Q.	In the plan, turning to the next page, Page 22, there's
18		a reference at the top of the page that PV systems have
19		been running at about I'm sorry, it's the very
20		bottom of 21, at about "20 to 25 percent of their
21		ratings". And, you also mentioned "wind systems", but
22		I didn't see any measurement of their performance. Do
23		you know how the wind systems have been running?
24	Α.	(Brouillard) I don't know specifically for New

		[WITNESS PANEL: Brouillard~Stachow]
1		Hampshire. But I would my guess would be that it's
2		in the, you know, in a similar range, perhaps a little
3		bit more, given that, you know, it's less impacted by
4		cloud cover. So, somewhere between 25 and 50 percent.
5	Q.	You said 25, between 25 and
6	Α.	(Brouillard) Twenty-five and fifty, somewhere in that
7		general range.
8	Q.	Fifty percent would be extremely high for the
9	Α.	(Brouillard) It would be.
10	Q.	facilities that we've reviewed. Mr. Stachow, a
11		question to you. I was interested in your thoughts
12		about seeing real process flow and understanding how
13		the mechanics of the planning process work, because
14		we've seen, I think through no fault of the utilities,
15		these plans are created, but they don't seem to
16		translate into day-to-day operational guidelines. Is
17		it your sense that a utility can develop a solid
18		planning methodology that it can really stick to or is
19		it are these things at best good concepts, but then
20		reality hits every day and people makes the decisions
21		they have to make, given conditions in the market and
22		in their operations?
23	Α.	(Stachow) My own experience from the industry suggests
24		that a utility would normally define its planning

	[WITNESS PANEL: Brouillard~Stachow]
1	process through the form of some business process
2	engineering. That is to say, it would have to indicate
3	which departments are involved in the process, what
4	inputs they would need to receive, in what schedule of
5	time, who would be reviewing the information, what
6	would be the output of that process, how that would
7	move to the next stage. And, so, that it would be
8	possible, if one had mapped out that process, to be
9	able to target instantly the person or the people who
10	are involved in making the decision at that level, and
11	also ask them to see specific outputs of that process
12	at each stage, so that one could see how the process
13	evolved.
14	For example, if you have a series of
15	projects that you have identified, then, one useful
16	thing for Staff would be to understand how those
17	projects are prioritized, and what cost/benefit
18	analysis has taken place around them, and to what
19	extent they have been conditioned by, for example,
20	environmental or economic considerations.
21	As it turned out, in the discussion with
22	PSNH that I mentioned earlier, once the president of
23	that division had sat down and thought about it
24	himself, he was able to lay out a very detailed process

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30

		[WITNESS PANEL: Brouillard~Stachow]
1		that explains every step, and raised the Staff's
2		comfort that the evaluation process taking place around
3		the planning was indeed there. Whereas, reading a
4		narrative account of a least cost plan, that is more
5		for informational purposes than as a document that is a
6		live document that informs planning, may not
7		necessarily give you that level of granularity.
8	Q.	The discussion that Mr. Brouillard and I had about
9		distributed generation just a moment ago, how do you
10		see something like that fitting into a planning
11		process? Is that is there room for the ability to
12		identify individual spot loads that could benefit from
13		a distributed generation installation that could
14		forestall a more expensive larger system investment?
15	Α.	(Stachow) Of course, it depends upon how that planning
16		process in that given company takes place. The simple
17		answer is "yes, of course." But then that has to be
18		mitigated by other issues; issues of reliability,
19		issues of urgency, issues of capacity. There may be a
20		whole host of issues that need to be taken into account
21		to determine whether that distributed generation might
22		be of interest at that particular point in time. So,
23		yes, of course, it should be considered. But whether,
24		in a given instance, it is the appropriate solution

I		[WITNESS PANEL: Brouillard~Stachow]
1		remains to be seen. And, clearly, when there are
2		issues of reliability and safety that take precedence,
3		they may direct the Company to act otherwise.
4	Q.	And, a planning process should enable all of those
5		discussions to feed together to get to the right
6		result?
7	A.	(Stachow) Correct. And, my concern, and, therefore, my
8		recommendation, is an effort to try and make that
9		process transparent as much as possible.
10		CHAIRMAN IGNATIUS: Commissioner
11	Ha	rrington.
12	BY C	MSR. HARRINGTON:
13	Q.	I just wanted to follow up on something that Chairman
14		Ignatius brought up. And, that is talking about the
15		distributed generation. And, the reason I wanted to
16		bring that up is because we seem to be approaching what
17		could be a very dramatic change in the Forward Capacity
18		Markets. Going into FCA 8, which will be held this
19		February, there's the possibility, depending on what
20		happens with these recent filings made at FERC, that we
21		could see capacity prices go from FCA 7 prices at less
22		than \$3, to as high as \$11. That's a huge amount of
23		money. I mean, if you think about that, that's for
24		if you had a one-megawatt distributed resource, that's

	[WITNESS PANEL: Brouillard~Stachow]
1	\$132,000 in reduction in capacity payments for the year
2	from that one resource. And, that's because capacity
3	payments are determined by the peak hour of the year.
4	Whatever the highest peak hour for the year is,
5	normally going to happen in the summertime, in July and
6	August, whatever your load is at that particular time,
7	that's your the percentage of that is that's your
8	share of the capacity payments for the entire year.
9	So, it may be a, you know, a time to revisit some of
10	the planning on this with energy efficiency that could
11	be that could be peak trimming or distributed
12	generation that could do the same. Because, with that
13	kind of money involved, you know, cutting off a few
14	hundred megawatts through various methodologies, or
15	even 10 megawatts or 20 megawatts is a lot of money, if
16	you can, you know, only if it coincides with that hour
17	that you're being measured by. So, going you know,
18	just the Company should be aware and should actively be
19	pursuing, following what happens in FCA 8, because it
20	could be significant enough to have a major change in
21	your planning process going forward with this kind of
22	additional money. We're looking at the possibility of,
23	in New England as a whole, seeing capacity payments go
24	up by over three and a half billion dollars in one

1	year. And, that's a lot of money. So, if there's
2	anything the Company can do planningwise to mitigate
3	the possibility of that, and it might not happen, but
4	it's possible, it would be something that I think would
5	be worthwhile. And, either way, we're getting into an
6	era where we're now seeing a lot of retirements, we're
7	seeing Brayton Point, we've seen Salem Harbor, even
8	Vermont Yankee, now we're losing nuclear plants.
9	There's probably going to be more oil plants that go
10	down in the future, if the systems don't run that
11	often. So, I think we're going to go from a time of
12	capacity surplus, where the floor price was basically
13	setting in, to a time of possible capacity shortages,
14	which means the prices could go up substantially. And,
15	I think the Company should be planning for some wide
16	variation in forward capacity costs. I mean, it could
17	be FCA 9 or 10, we could see a new resource set the
18	price for the entire zone, for the entire region, which
19	could mean we'd be up over \$15 a kilowatt-month. So,
20	those are things I think the Company needs to be
21	actively planning for.
22	I'm looking through your section in here
23	on forward capacity market, you do a nice narrative on

how it came about and what it does, but there's nothing

24

1	[WITNESS PANEL: Brouillard~Stachow]
1	really looking to the future. And, the future is not
2	certain, but there's certainly a potential for very,
3	very large increases in capacity payments, which would
4	be worthwhile having a planning process that takes that
5	into account.
6	A. (Brouillard) Thank you.
7	CHAIRMAN IGNATIUS: One question on
8	that, before we go to Commissioner Scott.
9	BY CHAIRMAN IGNATIUS:
10	Q. I think there's a typo on Page 7, in talking about the
11	forward capacity auctions. That bottom paragraph, the
12	third line down says that FCA 7 is scheduled for
13	"February 2013", and then two lines below that it says
14	that FCA 8 will be "in February 2013".
15	CMSR. HARRINGTON: That's '14.
16	CMSR. SCOTT: Fourteen.
17	BY CHAIRMAN IGNATIUS:
18	Q. So, that second one should be "2014"?
19	A. (Brouillard) Yes. I believe that should read "2014".
20	CHAIRMAN IGNATIUS: Thank you.
21	Commissioner Scott, questions?
22	BY CMSR. SCOTT:
23	Q. Back to the "distributed generation" discussion, again,
24	this is I'll put this in the category of "moving
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		[WITNESS PANEL: Brouillard~Stachow]
1		forward", not necessarily looking back. Obviously, in
2		the last legislative session, there was a law change
3		regarding net metering. I was just curious if the
4		utility had any thoughts yet on what impact that will
5		have?
6	Α.	(Brouillard) Yes. We have been certainly following
7		that legislation. My discussions with my counterparts
8		in Massachusetts, who, of course, already have a net
9		metering provision, they saw a substantial increase in
10		the amount of applications that they had for DG,
11		roughly over a five-year period, beginning at around
12		2007, 2008, they saw about a fivefold increase in the
13		applications that they had, primarily, they believe,
14		driven by net metering. It indeed not only presents an
15		opportunity, but also, you know, presents an
16		obligation, in terms of the, you know, the amount of
17		the the time frame, the turnaround, the technical
18		studies, depending on which tranche, if you will, of,
19		you know, whether it's a small, medium, expedited type
20		review, or, you know, a rather complex technical
21		review, mostly driven by the size of the proposed
22		installation. And, they have seen some rather
23		significant sized installations, developers, you know,
24		coming in, buying, leasing fields, constructing

1	photovoltaic arrays, you know, in the field, and then
2	tying into the delivery systems. So, these are some of
3	the, you know, some of the forward-looking that we've
4	done, based on the experience that they have had in
5	Massachusetts. And, again, we anticipate a significant
6	uptick in the amount of applications that we will have
7	here in New Hampshire.

Q. So, for future plans, do you, I'm not sure I know the
answer to this, this is probably unknowable, but does
the utility wait for these projects, people to come
forward, or do you -- you know, are you proactive or
reactive, I guess? And, I'm not sure I know if there
is a right answer, I was just curious.

14 Α. (Brouillard) At this point, I would anticipate that 15 we'll begin in some reactive mode. And, there's some 16 advantage to that, in that we can begin to get a feel 17 for whether or not the impact will be the same as 18 experienced in Massachusetts or not. And, as we get a 19 feel for that, and recognizing, you know, the comments 20 earlier on opportunities for the Company, you know, we 21 can, you know, we can certainly take that into account. 22 Again, for my own perspective, I'm most interested in, 23 you know, what the impact on -- of PV is going to have 24 on the demand of individual circuits, and in particular

	[WITNESS PANEL: Brouillard~Stachow]
1	areas. You know, one megawatt, even at, you know, even
2	at 25 percent, nonetheless is, you know, can be
3	significant. It may represent, you know, perhaps a
4	year's worth of load growth on a particular circuit.
5	So, that, in my mind, is an opportunity for deferral
6	for a year.
7	CMSR. SCOTT: Thank you.
8	WITNESS BROUILLARD: You're welcome.
9	CHAIRMAN IGNATIUS: I had one other
10	question, just notes, when, Mr. Stachow, when you were
11	testifying, I didn't follow an answer, and I want to be
12	sure the record is clear.
13	BY CHAIRMAN IGNATIUS:
14	Q. You had talked about an interest in a detailed process,
15	and describing the inputs and outputs in a planning
16	process. And, then, I think Mr. Speidel asked "is this
17	to deal only with capacity planning or with more than
18	capacity planning?" And, I wasn't sure if your answer
19	was a "yes, more than capacity planning" or "no,
20	capacity planning is all you're talking about"?
21	A. (Stachow) Yes, more than.
22	CHAIRMAN IGNATIUS: Thank you. Any
23	further questions from Commissioners? All right. Any
24	redirect from either Ms. Knowlton or Mr. Speidel?

	[WITNESS PANEL: Brouillard~Stachow]
1	MS. KNOWLTON: I have none.
2	MR. SPEIDEL: I have none as well.
3	Thank you, Chairman.
4	CHAIRMAN IGNATIUS: All right. Thank
5	you. Then, the two of you are excused. Thank you very
6	much for your testimony this morning. Is there any
7	objection to striking the identification on Exhibit 1 and
8	making it a full exhibit?
9	(No verbal response)
10	CHAIRMAN IGNATIUS: Seeing none, we'll
11	do that. Is there anything else we should take up before
12	final closing remarks?
13	(No verbal response)
14	CHAIRMAN IGNATIUS: Doesn't appear any.
15	So, Mr. Speidel, do you want to begin?
16	MR. SPEIDEL: Yes. I will make a very
17	brief closing statement. I would like to thank the
18	Company for its cooperation through the review process and
19	the discovery process that the Electric Division engaged
20	in with Liberty regarding this LCIRP. As mentioned by Mr.
21	Stachow, there is an understanding that this is something
22	of a work-in-progress, as is every LCIRP. There's a hope
23	that the next LCIRP will incorporate enhancements and
24	suggestions from Staff, designed to provide more of a

value-added product that the Company could even use for
perhaps its own internal use, on the basis of some of the
management concepts and ideas that Mr. Stachow was
describing.
And, we do support the acceptance by the
Commission of this LCIRP as adequate under the terms of
the statute, in that it does address all of the major
issues that the statute requires the Commission to
consider. And, for that, we thank you.
CHAIRMAN IGNATIUS: Thank you.
Ms. Knowlton.
MS. KNOWLTON: Thank you. As Mr.
Brouillard indicated, this is very much a transitional
IRP. This was prepared in conjunction with National Grid,
under its Transition Services Agreement with Liberty.
And, based on when this plan was filed, we're already
almost one year into the Plan. The Company very much
looks forward to the opportunity to establish its own
process for planning independent of National Grid. And,
it will take into account the recommendations of the
Staff, as well as the Commission, as it develops the
process, not just in process, but the content of, you
know, what we will consider going forward. And,
certainly, am mindful of the Staff's concerns and

1 testimony about perhaps the need to have a confluence of planning that happens for business, internal operational 2 3 purposes, with the statutory requirements that we submit a plan to the Commission. So, we'll be mindful of that as 4 5 we put together our own process on a going forward basis. 6 The testimony demonstrates that the Plan 7 is adequate and that it meets the statutory requirements governing least cost planning. We request that the 8 9 Commission find the Plan adequate, and also, in any order 10 on the Plan, indicate the date for the filing of the next 11 plan, which I believe would be two years from the date of 12 the Commission's order on this Plan. 13 And, with that, you know, we thank the 14 Staff, and we'll continue to have discussions with them as 15 we move forward to our next plan on that process. And, 16 thank the Commission for its time today. 17 CHAIRMAN IGNATIUS: Thank you. And, I 18 appreciate people trying to think creatively about how 19 best to make this sort of a document really meaningful, 20 not just satisfy terms of the statute, but operationally, 21 in an extremely complex area. So, thank you for that this Thank you, Staff, for the sort of new ideas 22 morning. 23 you're bringing to it. 24 Unless there's anything further, we'll

1	take this under advisement. And, we are adjourned.
2	(Whereupon the hearing was adjourned at
3	11:00 a.m.)
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