1	STATE OF NEW HAMPSHIRE
2	PUBLIC UTILITIES COMMISSION
3	
4	November 26, 2018 - 11:15 a.m.
5	Concord, New Hampshire MARIA ILLES
6	DE. DC 18-002
7	LIBERTY UTILITIES (ENERGYNORTH
8	LIBERTY UTILITIES:
9	and Maintain a Natural Gas Pipeline Beneath the Ashualat Piwar in Kasaa
10	(Hearing on the merits)
11	<b>PRESENT:</b> Chairman Martin P. Honigberg, Presiding
12	Commissioner Michael S. Giaimo
13	Sandy Deno, Clerk
14	APPEARANCES: Reptg. Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a
15	Liberty Utilities: Michael J. Sheeban, Esq.
16	Reptg. Terry Clark:
17	Richard M. Husband, Esq.
18	Reptg. Ashuelot River Local Advisory Committee (ARLAC):
19	Barbara Skuly
20	Reptg. PUC Staff: Paul B. Dexter, Esg.
21	Randall Knepper, Dir./Safety Division Paul Kasper, Asst. Dir/Safety Div.
22	Bill Ruoff, Safety Division
23	Court Reporter: Steven E. Patnaude, LCR No. 52
24	
	CERTIFIED ORIGINAL TRANSCRIPT

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1 INDEX 2 3 PAGE NO. 4 WITNESS PANEL: ANDREW MILLS STEPHEN ROKES 5 16 Direct examination by Mr. Sheehan 6 54 Cross-examination by Mr. Husband Cross-examination by Ms. Skuly 66 7 Cross-examination by Mr. Dexter 70 Interrogatories by Cmsr. Bailey 81 8 Interrogatories by Cmsr. Giaimo 86 Interrogatories by Chairman Honigberg 92 9 Redirect examination by Mr. Sheehan 96 10 PATRICIA A. MARTIN 11 WITNESS: 12 101 Direct examination by Mr. Husband Cross-examination by Mr. Sheehan 106 13 Cross-examination by Mr. Dexter 108 Interrogatories by Cmsr. Giaimo 109 14 109 Redirect examination by Mr. Husband 15 16 WITNESS: BARBARA SKULY 17 Direct examination by Mr. Dexter 111 (as a courtesy) 18 Cross-examination by Mr. Dexter 117 120 Cross-examination by Mr. Sheehan 121 19 Interrogatories by Cmsr. Bailey 122 Interrogatories by Cmsr. Giaimo 20 21 22 23 24

1		
2	INDEX (continued)	
3		PAGE NO.
4	WITNESS PANEL: PAUL KASPER BANDALL KNEPPER	
5		
6	Direct examination by Mr. Dexter Cross-examination by Mr. Husband	125 137
7	Cross-examination by Mr. Husband Cross-examination by Ms. Skuly Cross-examination by Mr. Sheeban	147
8	Interrogatories by Cmsr. Bailey	151
9	Interrogatories by Chairman Honigberg Redirect examination by Mr. Dexter	155
10	Redifect examination by Mr. Dexter	100
11		
12	* * *	
13		
14	CLOSING STATEMENTS BY:	
15	Mr. Husband	162
16	Ms. Skuly	163
17	Mr. Dexter	163
18	Mr. Sheehan	164
19		
20		
21		
22		
23		
24		

1			
2		EXHIBITS	
3	EXHIBIT NO.	DESCRIPTION PAGE	NO.
4	1	Liberty Utilities Ashuelot River Crossing Project Description	14
5	2	NH DES Shoreland Permit	14
6 7	3	Liberty Utilities Ashuelot River Crossing Project Description, with attachment	14
8		showing Option B	
9 10	4	Liberty Utilities Ashuelot River Crossing Project Description, with attachment	14
11		showing Option A and Option B	
12	5-A	Liberty Utilities System Map {Confidential & Proprietary}	14
13	5-B	Liberty Utilities System Map [Redacted - for public use]	14
14 15	6	Liberty Utilities Response to Data Request Clark 2-1	14
16	7	Comments of Patricia A. Martin	14
17	8	Direct Testimony of Patricia A. Martin	14
18 19	9	E-mail exchange between Ms. Skuly of ARLAC and Mr. Ted Diers of DES	14
20	10	Keene Sentinel article - "Liberty Works toward compliance in bid"	14
21	11	ARLAC's Testimony at public hearing	14
22	12	PUC Safety Div. Review of Crossing	14
23 24	13	<b>RESERVED</b> (Safety Div. re: Option B)	14

PROCEEDING 1 CHAIRMAN HONIGBERG: Good morning, 2 3 everyone. We're here in Docket DG 18-092, which is a Petition for a Crossing License from 4 5 Liberty (EnergyNorth Natural Gas). This is a 6 hearing on the merits. 7 Before we do anything else, let's take appearances. 8 9 MR. SHEEHAN: Good morning, 10 Commissioners. Mike Sheehan, for Liberty 11 Utilities (EnergyNorth Natural Gas). 12 MR. HUSBAND: Attorney Richard 13 Husband, for Terry Clark, intervenor. 14 MS. SKULY: Barbara Skuly, with 15 Ashuelot River Local Advisory Committee. 16 MR. DEXTER: Paul Dexter, for the 17 Commission Staff. 18 CHAIRMAN HONIGBERG: How are we 19 proceeding this morning? Mr. Sheehan. 20 MR. SHEEHAN: Thank you. We have 21 marked a number of exhibits, started over the 22 weekend and, frankly, finished a few minutes 23 ago. And I will walk through those, with 24 the -- obviously the parties can pipe up after

1 I identify them if I don't characterize them 2 correctly. 3 Otherwise, we just -- the Company did file a Motion for Confidential Treatment over 4 5 the weekend of the discovery responses. There 6 are a few confidential pieces of information. 7 So, according to Puc 203.08, we filed a motion to confirm that confidentiality. Briefly, 8 9 there were two dollar figures in discovery of a 10 bid to do the HDD involved in this crossing, 11 and have a Company estimate to do another 12 alternate project that we will talk about in 13 testimony. 14 We ask that those numbers remain confidential, because, if the Commission 15 16 approves this, we will have to go out to bid. 17 And if those numbers are public, it may 18 negatively influence the bid amounts. 19 And the other third piece of 20 confidential information is a map of our 21 distribution system in Keene. It is the 22 Company's practice to keep that confidential, 23 and that's recited in the motion, and it is 24 also an exhibit here that we've asked to be

1 confidential. And we also filed a redacted 2 version of that map. 3 So, that's the Motion for Confidential Treatment that was filed. 4 5 CHAIRMAN HONIGBERG: Let's stop 6 We haven't seen that motion. As I there. 7 think Staff and the Company certainly know, motions for confidential treatment, the things 8 that are the subject of those motions are held 9 10 as confidential until all rights regarding them 11 are exhausted. So, people may disagree and 12 you'll be able to file something. 13 But, for now, we're going to be 14 treating them as confidential. So, if they are 15 used during the hearing, if there are 16 references to them in the hearing, we'll have 17 to work out with the stenographer and make sure 18 that there's no one in the room who shouldn't 19 be seeing confidential information. 20 That's your understanding as well, 21 Mr. Sheehan? 22 MR. SHEEHAN: Correct. 23 CHAIRMAN HONIGBERG: Mr. Husband, 24 Ms. Smith [Skuly?], Mr. Dexter, everybody else {DG 18-092} {11-26-18}

1 understands that? 2 MR. DEXTER: Yes. 3 MR. HUSBAND: I do. 4 CHAIRMAN HONIGBERG: Ms. Smith, do 5 you understand what I just said? MS. SKULY: Skuly. Yes. 6 7 CHAIRMAN HONIGBERG: "Skuly", sorry. I don't know why I wrote "Smith". "Because I'm 8 I'd idiot", is the short answer. 9 10 What do you got next, Mr. Sheehan? MR. DEXTER: Before we leave the 11 12 question of confidentiality, I have --13 CHAIRMAN HONIGBERG: I'm glad you're 14 going to turn to that topic, and not the other 15 topic I just broached. 16 Go ahead, Mr. Dexter. 17 MR. DEXTER: On the question of 18 confidentiality, I have not had a chance to 19 read the motion in detail. But I was hoping 20 that the Company today could provide some 21 greater detail regarding the protecting the 22 disclosure of the map. 23 And I should start by saying that 24 Staff doesn't have any objection to the

1	protection of the figures that Mr. Sheehan
2	talked about. That makes perfect sense.
3	But if this is an appropriate time?
4	CHAIRMAN HONIGBERG: I mean, I don't
5	think we're going to argue and resolve the
6	Motion for Confidentiality. If you you are
7	free to file something in response, work with
8	the Company on limiting the request, if that's
9	a more efficient way to proceed. But, for now,
10	it's going to be treated as if it's
11	confidential, and we'll work out whatever
12	logistics we have to during the hearing.
13	Mr. Sheehan.
14	MR. SHEEHAN: The other piece of this
15	hearing is witnesses. As a crossing petition,
16	we did not file testimony, as is the custom.
17	Given the course this case has taken, we do
18	intend to put two witnesses on the stand. Both
19	these witnesses were subjected to discovery
20	requests, several rounds, and two tech sessions
21	where they were present answering questions.
22	So, there's no surprise to them or what they're
23	going to say. So, we will propose to put
24	Mr. Rokes and Mr. Mills on the stand.

1 I understand others are planning to do the same, but I'll leave that to them to 2 3 indicate who they're calling to say what. So, I would, if now is a good time to 4 5 walk through the exhibits briefly to identify them, or would you rather -- we could also do 6 7 that through the witnesses when they're on the stand? 8 CHAIRMAN HONIGBERG: Well, I am going 9 10 to want you to go through the exhibits. But 11 let's find out who the other witnesses are, 12 just so we have it all in mind. 13 Mr. Husband, we're going to be 14 hearing from Ms. Martin today, is that correct? 15 MR. HUSBAND: Correct. I did submit 16 written testimony for Ms. Martin. To the 17 extent that you would like to have her sit on 18 the stand and ask questions, you're quite 19 welcome. 20 CHAIRMAN HONIGBERG: I expect that 21 others, if not us, --22 MR. HUSBAND: Right. 23 CHAIRMAN HONIGBERG: -- will have 24 questions for her. And is Ms. Martin your only {DG 18-092} {11-26-18}

1 witness? MR. HUSBAND: Yes. 2 3 CHAIRMAN HONIGBERG: Ms. Skuly, do 4 you have any witnesses you intend to call? 5 MS. SKULY: Well, I'm not sure, but I intend to speak. So, am I the witness? 6 7 CHAIRMAN HONIGBERG: Depends on what you're planning on doing. Are you going to be 8 offering factual information or opinions based 9 10 on your experience or expertise? MS. SKULY: And based on the exhibits 11 12 that I have submitted. 13 CHAIRMAN HONIGBERG: It may just be 14 that you intend to argue based on those. 15 MS. SKULY: All right. CHAIRMAN HONIGBERG: I'm not sure. 16 17 MS. SKULY: Yes. 18 CHAIRMAN HONIGBERG: Maybe at a 19 break, you and Mr. Dexter and Mr. Sheehan and 20 Mr. Husband can talk through what will make the 21 most sense as to how to present whatever it is 22 you want to present. 23 MS. SKULY: Okay. 24 CHAIRMAN HONIGBERG: And then, Mr.

{DG 18-092} {11-26-18}

2from Staff?3MR. DEXTER: It will be Paul Kasper4and Randy Knepper from the Safety Division.5CHAIRMAN HONIGBERG: Okay. Thank6you.7Mr. Sheehan, let's talk exhibits.8MR. SHEEHAN: Sure. You have in9front of you 12 exhibits, and there has not10been agreement yet that they will be admitted,11but we certainly agree to mark them.12Exhibit 1 is the it's not in front13of you in paper, that was the version of the14plan attached in the original filing. So, it's15in the docketbook. And it is up on the screen16we'll have available, if necessary.17Exhibit 2 is the Shoreland Permit.18Exhibit 3 is another version of the plan19showing what's been called "Option B". There20was discussion in the tech session, if we21could, that we may have to slightly alter the22could, that we may have to slightly alter the23Exhibit 3.24Exhibit 4 is the same drawing again	1	Dexter, who are we going to be hearing from
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1 that shows both options side-by-side, so the Commission can see the difference. Exhibit 5-A 2 3 and 5-B is a distribution map of Keene, the whole city, and then a blow-up showing the 4 5 relevant area. And it's 5 that is -- A and B that is confidential. 6 7 Those are the Liberty exhibits. And Exhibits 2, 3, 4, and 5 are marked in a header 8 9 on the -- the typed header on the documents 10 themselves. Exhibits 6, 7, and 8 - -11 12 CHAIRMAN HONIGBERG: Stop. Hang on. 13 MR. SHEEHAN: Sure. 14 CHAIRMAN HONIGBERG: I think we're 15 going to have to understand what's going on 16 with 5 again. Because I have what looks like 17 an unredacted document labeled "5-A", that's a 18 two-sided document. 19 MR. SHEEHAN: Correct. 20 CHAIRMAN HONIGBERG: And then I have 21 a redacted 5-B, is that what I'm looking at? 22 MR. SHEEHAN: Correct. They are the 23 same document; one confidential, one redacted. 24 CHAIRMAN HONIGBERG: Oh, okay. So,

1	5-A is the unredacted version, 5-B is the
2	redacted. Got it. Thank you.
3	MR. SHEEHAN: Yes. Mr. Clark is
4	offering Exhibits 6, 7, and 8; 6 is a data
5	response, 7 is written comments of Ms. Martin,
6	8 is prefiled Testimony of Ms. Martin.
7	And Exhibits 9, 10, 11 are being
8	offered by the Committee, ARLAC; and 9 is
9	we've been calling it an "Email exchange
10	between Ms. Skuly and a representative of DES",
11	Exhibit 10 is a <u>Keene Sentinel</u> article, and
12	Exhibit 11 is in the form of it's titled
13	"Testimony of Ms. Skuly".
14	And then Exhibit 12 that's been
15	marked is Staff's recommendation filed last
16	week.
17	(The documents, as described,
18	were herewith marked as
19	Exhibit 1 through Exhibit 12,
20	respectively, for
21	identification.)
22	CHAIRMAN HONIGBERG: Okay. Thank
23	you.
24	Just based on what I've seen so far,

1 my inclination then, with respect to Ms. Skuly, 2 is that she's probably a witness. So, you're 3 probably going to be offering what you're going to offer as testimony under oath, given what 4 5 you've filed and how you've presented it. All right. Anything else we need to 6 7 know before we start? MR. SHEEHAN: That's all I have. 8 9 CHAIRMAN HONIGBERG: So, we have two 10 witnesses who are ready to go. Why don't we 11 have them go to the witness box. 12 Mr. Husband, Ms. Skuly, and Mr. 13 Dexter, anything else we need to talk about 14 before the witnesses get sworn in? 15 MS. SKULY: No. 16 MR. DEXTER: Staff has nothing. MR. HUSBAND: None from my 17 18 perspective. 19 CHAIRMAN HONIGBERG: Thank you. Off 20 the record. 21 [Brief off-the-record discussion 22 ensued.] 23 CHAIRMAN HONIGBERG: Mr. Patnaude. 24 (Whereupon Andrew Mills and

{DG 18-092} {11-26-18}

1		<b>Stephen Rokes</b> were duly sworn by
2		the Court Reporter.)
3		CHAIRMAN HONIGBERG: Mr. Sheehan.
4		MR. SHEEHAN: Thank you.
5		DIRECT EXAMINATION
6		ANDREW MILLS, SWORN
7		STEPHEN ROKES, SWORN
8	BY M	R. SHEEHAN:
9	Q	Mr. Mills, could you please identify yourself
10		and your position with the Company.
11	A	(Mills) My name is Andrew Mills. I graduated
12		with a Bachelor's degree in Mechanical
13		Engineering from Norwich University in 2013. I
14		also possess my engineering training
15		certification from the State of Vermont. For
16		the past year and a half, I have been the
17		Planning Engineer for Liberty Utilities. Prior
18		to that, for three and a half years, I was also
19		doing planning engineering with a previous gas
20		company.
21	Q	And has all your experience been in gas
22		planning?
23	A	(Mills) I was a gas engineer, which is more
24		design fieldwork for a bit of my period at the

[WITNESS	PANEL:	Mills	lRokes	1
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1		start with my other previous employer and with
2		Liberty Utilities, until the previous planning
3		engineers took other roles elsewhere.
4	Q	Were you involved in the filing that's in front
5		of us today, the proposed crossing of the
6		Ashuelot River in Keene?
7	А	(Mills) Yes, I was.
8	Q	And at a high level, what work did you do
9		related to this proposed crossing?
10	А	(Mills) I conducted numerous site visits. I
11		did the plan that you have up and is the
12		initial plan, design plan of the crossing. I
13		outreached to drilling companies to get initial
14		bids and did all the estimates within this
15		case.
16	Q	Did you have communications with the City of
17		Keene related to this crossing?
18	А	(Mills) As typical with all complex projects,
19		we have high-level meetings/discussions with
20		the City to iron out any kinks or any planned
21		work they have, and then worked out best
22		placement of our gas main to address conflicts,
23		future conflicts, and stay out of their way.
24	Q	And what department within the City of Keene

3		Engineer.
4	Q	After the filing of this Petition, were you
5		involved in responding to data requests and
6		attending technical sessions?
7	А	(Mills) Yes. I responded to all every
8		single data request we had in some capacity,
9		and I was at each of the tech sessions.
10	Q	Mr. Rokes, your name and your position with the
11		Company.
12	А	(Rokes) Yes. My name is Steve Rokes. I'm the
13		Operations Manager for Keene.
14	Q	How long how long have you been the
15		Operations Manager from Keene, either that
16		title or a similar title with prior companies?
17	А	(Rokes) Operations Manager for approximately
18		four years. And I've worked in the Keene
19		system, gas system, through various owners for
20		18 years.
21	Q	And what involvement did you have in the
22		preparation, if any, of the Petition and the
23		documents related to this crossing?
24	А	(Rokes) I just assisted Andrew with some of the

1

2

А

		[WITNESS PANEL: Mills Rokes]
1		data for history, the types of pipe and
2		materials and things involved with the
3		crossing.
4	Q	And are you familiar with the distribution
5		system in Keene?
6	A	(Rokes) Yes.
7	Q	And you have worked, as you say, on that
8		system, with that system, for 18 years?
9	A	(Rokes) Correct.
10	Q	Mr. Mills, I've put on the screen, and we'll go
11		through them, the five documents, five exhibits
12		that the Company marked. The ones up on the
13		screen now is Exhibit 1, which was the drawing
14		attached to the original Petition. Do you
15		recognize that?
16	А	(Mills) I do.
17	Q	And the first page shows a map with the
18		location of the crossing?
19	A	(Mills) Yes, a high-level overview of the
20		proposed work.
21		MR. SHEEHAN: Everyone gets to see me
22		work with a mouse for the next hour.
23		CHAIRMAN HONIGBERG: Let's go off the
24		record for just a second.

1		[Brief off-the-record discussion
2		ensued.]
3		CHAIRMAN HONIGBERG: All right. You
4		may proceed.
5	BY M	R. SHEEHAN:
6	Q	Mr. Mills or Mr. Rokes, could you give us
7		some well, first of all, the red line
8		drawn or, the purple line drawn on this map
9		is the proposed location of the proposed
10		crossing, is that correct?
11	A	(Mills) That is correct.
12	Q	And the two red circles are what?
13	A	(Mills) The proposed tie locations, tie
14		locations to existing gas main.
15	Q	Could either of you give us some landmarks on
16		this map or this aerial view of where we are in
17		Keene and what other just to orient the
18		Commission to where we are?
19	А	(Rokes) Yes. Down to the south would be the
20		Wal-Mart shopping plaza and the rotary at Route
21		101 and Route 10. The red circle to the east
22		would be near Waliers Chevrolet, a car
23		dealership in town. And the other tie-in
24		point, if I'm correct, is at the Pearl Street

		[WITNESS PANEL: Mills Rokes]
1		intersection with Island Street.
2	Q	And the labeling of the Ashuelot River is
3		runs under the purple line, is that correct?
4	A	(Rokes) Correct.
5	Q	And it actually travels in this direction
6		[indicating], up towards what is labeled
7		"Liberty Utilities"?
8	A	(Rokes) Yes.
9	Q	And that label "Liberty Utilities" is marking
10		what?
11	A	(Rokes) That is our Business Office and
12		Operations Center.
13	Q	And is the Company's production facility in
14		this photograph?
15	A	(Rokes) I think it's, yes, just to the north a
16		little bit, approximately where you have your
17		pointer, I believe.
18	A	(Mills) It's actually one street away. At the
19		top, center of the map, it's that's it, yup.
20		Right there.
21	Q	So, what my pointer is on right now are some of
22		the tanks that are at the propane production
23		facility, is that correct?
24	A	(Rokes) Yes. That's the propane-air production

	-	[WITNESS PANEL: Mills Rokes]
1		facility.
2	Q	Okay. The second page of Exhibit 1 is a
3		drawing showing let me ask you. This is a
4		drawing that is located where the purple line
5		was on the prior page?
6	A	(Mills) Yes. So, that is, basically, a more
7		detailed image zoomed in with showing all the
8		other utilities in the area with records we
9		received from telecom, sewer, water, and
10		basically anything we witnessed in the field
11		when we were conducting the initial drawing to
12		kind of scope out this phase of the project.
13	Q	And the purple line on this page, Page 2 of 2,
14		is that the proposed location of the crossing?
15	A	(Mills) That is the exact proposed location of
16		the crossing.
17	Q	And where will the explain to me how the
18		Company installs this pipe. The pipe is going
19		underneath the river, is that correct?
20	A	(Mills) That is correct.
21	Q	How would, if I were to be watching that site
22		for the next if you were to start
23		construction today for the next week, what
24		would I see?

		[WITNESS PANEL: Mills Rokes]
1	A	(Mills) So, if we were in construction today,
2		we would have a basically, it's called a
3		"horizontal directional drilling rig", that
4		would set up on the eastern end, right where
5		you see that it's labeled "HDD PIT -
6		CONTRACTOR TO MODIFY AS REQUIRED". That is a
7		sending pit, where they basically take a
8		drilling rig, and they set it up there, and
9		they take steel rods and they drill a hole
10		underneath the river, and all the way through,
11		following that purple line, until it reaches
12		the other end, on the western end, which is
13		also a receiving part, there's an HDD pit on
14		that end as well.
15		Once the drill reaches that end of the
16		pipe traveling under the river, it will
17		basically, we'll hook on a big our normal
18		gas plastic gas main, and it will back-ream.
19		So, it will pull our gas main back through the
20		hole they just created, underneath the river,
21		back to the machine.
22	Q	So, the drilling rig goes past number one,
23		drills a hole to the other end, grabs the pipe,
24		and then pulls the pipe through?

		[WITNESS PANEL: Mills Rokes]
1	A	(Mills) Yes. So, the initial hole is smaller
2		than the second hole. So, when you're pulling
3		the pipe back through the hole, it actually
4		becomes larger as well.
5	Q	And the distance of this drill, from when it
6		goes underground until when it pops back out at
7		the other end, roughly how far is that?
8	A	(Mills) Roughly 720 feet.
9	Q	And the river crossing itself, when it goes
10		beneath the river, is roughly in the center of
11		that 720 feet?
12	A	(Mills) More or less, yes.
13	Q	Were there any complicating factors in the
14		design of this route?
15	A	(Mills) There were. We're doing our best to
16		avoid the bridge structure itself and try to
17		stay within the public right-of-way.
18		Unfortunately, looking at radiuses of the
19		drill, you can't turn the drill terribly fast,
20		so you have to curve it slowly to dodge
21		structures.
22		It was going to be very difficult to do
23		that and stay within the public right-of-way.
24		So, we looked at there's actually, right on

		[WITNESS PANEL: Mills Rokes]
1		where the river takes that kind of turn to the
2		left, it's actually a city park. So, one of
3		the options we were our primary option was
4		to obtain an easement from the City of Keene to
5		drill through that park.
6	Q	Let me just stop you there. From the road
7		itself, up to the curve of the river, you're
8		saying this whole lot here [indicating], where
9		the writing is, is a city park?
10	A	(Mills) Correct.
11	Q	Okay.
12	A	(Mills) So, by going through that, we could
13		lessen the radius of the drill path, which
14		makes it, pulling the pipe back, easier, less
15		stress on the pipe, which is in line with good
16		practice of drilling, and we could stay a
17		decent distance away from the bridge
18		foundations, not putting any chance of causing
19		any harm to the bridge.
20	Q	And that's the route that is proposed in the
21		Petition?
22	A	(Mills) Correct. And in some of the later
23		exhibits, it's labeled as "Option A".
24	Q	And is that the preferred route that the

		[WITNESS PANEL: Mills Rokes]
1		Company would like to take?
2	A	(Mills) It is.
3	Q	And as you say, most of the route is within a
4		state or a road right-of-way, except for a
5		small piece that is beneath the city park?
6	A	(Mills) Correct. All but the majority is in
7		the city existing city public right-of-way.
8	Q	And for the short distance where it's beneath
9		the city park, it is beneath the city park,
10		correct?
11	А	(Mills) Correct. And we won't need any
12		physical digging within the city park for the
13		project.
14	Q	But we would need a easement from the City
15		granting us the right to go beneath that
16		section of the park?
17	A	(Mills) Correct. Which is a custom whenever
18		[Court reporter interruption.]
19	CONT	INUED BY THE WITNESS:
20	A	(Mills) Which is the same, is our custom when
21		we put gas main on private property.
22	BY MI	R. SHEEHAN:
23	Q	I've now clicked on Exhibit 2, which is what?
24	А	(Mills) So, at the same time we filed the

1		initial river crossing petition with the
2		Commission, we also, at the same time, filed a
3		environmental permit, which is required when I
4		believe you're working near rivers. This we
5		have attached is the approval of the said
6		environmental application with New Hampshire
7		DES.
8	Q	I've now clicked on Exhibit 3. I'll show you
9		the second page. Exhibit 3 looks like Exhibit
10		1. Tell us what's different about it.
11	A	(Mills) So, based on input from Staff, we
12		basically added some more detail to the plan.
13		There was one or two typos that I,
14		unfortunately, made in the initial filing that
15		have since been corrected. And basically, what
16		you see are station numbering. Staff requested
17		that we label each station, basically, where
18		were each station number reflects a point
19		where we're crossing another utility.
20		So, if you actually scroll down to,
21		basically, the side view of the project, each
22		of those station numbers correspond to a
23		existing utility crossing. So, we, in this
24		proposed drill path, I believe we're crossing

	-	[WITNESS PANEL: Mills Rokes]
1		four, four or five different utilities all
2		labeled and correspond to a station number.
3	Q	And these are the utilities with a water pipe
4		or a sewer pipe or the like?
5	A	(Mills) One is a proposed storm water pipe the
6		City intends on upgrading, the other is a sewer
7		communication duct, and a water main.
8	Q	Otherwise, is the route in Exhibit 3 the same
9		route that was initially proposed in Exhibit 1?
10	A	(Mills) It is.
11	Q	I've now clicked on Exhibit 4. Which again
12		looks pretty similar to Exhibits 1 and 3.
13		Again, tell me what is different.
14	A	(Mills) So, just to clarify a few things and
15		make it easier for everyone to see, we've made
16		a drawing that shows Option A and Option B on
17		one map, and we showed the area that we are
18		requesting an easement from the City of Keene.
19	Q	So, the easement area would be the black
20		checkmarked area
21	А	(Mills) Correct.
22	Q	labeled "Easement", correct?
23	A	(Mills) Yes. The proximate dimensions.
24	Q	And tell us why there's an Option A and Option

		[WITNESS PANEL: Mills Rokes]
1		B. Is Option A the route you've described as
2		depicted in Exhibits 1 and 3?
3	A	(Mills) Yes.
4	Q	What is Option B?
5	A	(Mills) Option B is a I'll call that a
6		"backup plan". In the tech session, Mr. Terry
7		Clark expressed that the City of Keene may not
8		grant us an easement. Since we are the gas
9		operator, the franchise owner in the City of
10		Keene, we came up with an alternative option
11		that keeps us with 100 percent in the city
12		public right-of-way.
13	Q	So, Option B is the route the Company would
14		take if it did not get the right to go under
15		the city park?
16	A	(Mills) Correct.
17	Q	And both Options A and B depicted on Exhibit 4
18		that's up on the screen now?
19	A	(Mills) Yes.
20	Q	And which is which?
21	A	(Mills) So, Option they're a little bit hard
22		to see, if you could zoom in for me a little
23		bit. So, Option A is kind of the more northern
24		pipe route that swings us out into the city

1		park. Option B is kind of the more southern,
2		close to the bridge. The reason why it's the
3		alternative option is it puts up underneath the
4		bridge wing walls. Bridge wing walls are still
5		well beneath them. But, generally, when we
6		have HDD applied, we try to stay outside the
7		bridge structure.
8	Q	So, both Options A and B are in purple on this
9		document, correct?
10	A	(Mills) Correct.
11	Q	Option A is further towards the top of the page
12		and travels through the hash marked easement
13		area?
14	A	(Mills) Correct.
15	Q	And Option B runs just below the easement area?
16	A	(Mills) Yes.
17	Q	And as you said, Option B goes under the "wing
18		walls" of the bridge. What are "wing walls" of
19		a bridge?
20	A	(Mills) A bridge wing wall is just a means, is,
21		basically, as the river comes in, it's to keep
22		the dirt back. It's more of a think of it
23		as a "retaining wall", the best description of
24		it.

1	Q	Is it something different than a bridge
2		foundation?
3	A	(Mills) Yes. The bridge foundation is more of
4		a structural component to the bridge, that
5		physically supports the bridge structure itself
6		and the vehicular traffic and pedestrian
7		traffic over it.
8	Q	And is there a difference in the depth into the
9		ground that the wing wall is as compared to the
10		foundation?
11	А	(Mills) Yes. I don't have the exact depths in
12		front of me. But the pilings go down 100 plus
13		feet. The wing wall only extends roughly
14		10 feet below grade.
15	Q	How far underground will the pipe be when it
16		if we were to choose Option B, how far to the
17		wing wall would the pipe be?
18	A	(Mills) Five (5) to 7 feet, at minimum.
19	Q	And that would be shown in the side view at the
20		bottom of this and the other diagrams, is that
21		correct?
22	А	(Mills) It's not so, the bottom of this
23		diagram only reflects Plan A. I don't know if
24		we have the other drawing or that just shows

		[WITNESS PANEL: Mills Rokes]
1		Plan B, that drawing, I don't know if we have
2		it.
3		So, this drawing shows the bridge
4		abutments. And if you were to zoom in, it has
5		the distance that we are below the bridge
6		abutment right on it. You can barely see it.
7		So, I think on one side it says "17 feet" and
8		the other side is "24 feet".
9	Q	This says "19", "17", and "24"?
10	A	(Mills) Yes.
11	Q	So, the 19 is beneath the bridge abutments?
12	А	(Mills) Correct.
13	Q	Seventeen (17), in the middle, is the distance
14		beneath the river?
15	А	(Mills) Correct.
16	Q	And the "24", on the right-hand side, is again
17		the distance beneath the other abutments?
18	А	(Mills) Yes.
19	Q	And these are all from Exhibit 3, is that
20		correct?
21	А	(Mills) Correct. And the depths of the
22		abutments are based on the bridge design plans
23		that the City of Keene provided us.
24	Q	So, Option B was a route that the Company could

		[WITNESS PANEL: Mills Rokes]
1		take if it did not get the easement. Is Option
2		B a safe route to take?
3	A	(Mills) It is. It has a slightly there is a
4		very, very minute chance that you could
5		undermine the bridge wing wall that we would be
6		on the hook for repairing it. So, obviously,
7		that's why it's Option B and not Option A.
8	Q	Otherwise, is there any change in the location
9		of the pits for the entry and the exit of the
10		drill?
11	A	(Mills) No.
12	Q	Any other change in the process of installing
13		Option A versus Option B?
14	A	(Mills) None.
15	Q	It's simply a slightly different path beneath
16		the river?
17	A	(Mills) Correct. The only minor thing is we
18		definitely would monitor the wing wall with a
19		little bit more I guess we'd keep an eye on
20		it. Make sure it doesn't crack, the
21		foundation the concrete doesn't have any
22		visual defects before and after.
23	Q	Now, can you tell us why Liberty is proposing
24		this crossing?

1	A	(Mills) The main the first reason is
2		reliability. It is good engineering practice
3		to have multiple feeds to serve any number of
4		customers downstream. Currently, the
5		downstream customers of this pipe are served by
6		one main across the river. I'll let Steve talk
7		to the flooding of that river in a little bit.
8		But that pipe is on a bridge, and it's near the
9		end of its service life.
10		MR. SHEEHAN: And if I may interject.
11		Mr. Chairman, this is the confidential
12		document. We don't have a problem showing it
13		in the hearing room today. The concern is
14		copies of it being distributed. So, I've
15		talked to our engineering people. Again, the
16		reason for the confidentiality is to have a map
17		out there where people could go find where the
18		pipe is at particular locations. Frankly,
19		we're not concerned about that risk in this
20		context.
21		So, we're not asking that those who
22		haven't signed an NDA or otherwise should be
23		excluded from this discussion.
24		CHAIRMAN HONIGBERG: You just don't
		{DG 18-092} {11-26-18}

1		want them leaving with copies of it?
2		MR. SHEEHAN: Correct. And they
3		don't have copies. They have been provided the
4		redacted version. So, they don't have copies
5		in their possession, but they will be able to
6		watch as we walk through this presentation.
7		CHAIRMAN HONIGBERG: Okay.
8	BY M	R. SHEEHAN:
9	Q	So, Mr. Mills or Mr. Rokes, I've put up Exhibit
10		5-A, which is the confidential version of what?
11	A	(Mills) That is the entire Keene distribution
12		<pre>map, showing all of everywhere there's a red</pre>
13		line we have a gas main on that street.
14	Q	And I zoomed in to where I believe the crossing
15		is, but tell me, have I?
16	A	(Mills) You have. It's a small gap, basically,
17		in the center of your screen where the pipes
18		don't connect.
19	Q	Where I am circling the mouse right now, is
20		that correct?
21	A	(No verbal response).
22	Q	Yes?
23	A	(Mills) Yes.
24	Q	Could you give us some other landmarks here?

		[WITNESS PANEL: Mills Rokes]
1		Where is the production facility?
2	A	(Mills) The production facility is, basically,
3		one block due north, right where your cursor is
4		right now. You see a bunch of concentrated
5		pipes, because there's a lot of pipes
6		crisscrossing our production facility.
7	Q	And the crossing will travel from this
8		[indicating], the end of this red line on
9		Winchester Street, to the beginning of a red
10		line traveling the same lateral direction where
11		my cursor is now, is that correct?
12	A	(Mills) That is correct.
13	Q	What is the pipe that is going vertically right
14		in the gap between the two pipes that you want
15		to connect?
16	A	(Mills) So, currently, Keene has two different
17		distribution pressures. They upgraded the
18		center pipe that runs north-south down to
19		Island Pond to five pounds a number of years
20		ago, in order to support a new load in the
21		Monadnock Marketplace. That has an MAOP, max
22		operating allowable operating pressure, of
23		five pounds. While the rest of the Keene
24		distribution system is low pressure, with an
		[WITNESS PANEL: Mills Rokes]
----	---	---
1		MAOP of 13.8 inches for PVC pipeline.
2	Q	And how does 13.8 inches translate into pounds?
3	A	(Mills) It's roughly a half a pound.
4	Q	So, the pipe that goes vertically through the
5		crossing area is the high pressure line?
6	A	(Mills) Correct.
7	Q	And it starts at the production facility, goes
8		through the crossing area, then travels west,
9		and the far west piping is at the Monadnock
10		Marketplace?
11	A	(Mills) It is.
12	Q	And just for reference, below that is
13		Production Avenue, where the temporary CNG skid
14		now sits?
15	A	(Mills) That is correct.
16	Q	So, when you do the if the Company is
17		allowed to install the crossing through this
18		gap on a east-west direction, what will happen
19		to that high pressure line traveling through?
20	A	(Mills) We won't even touch it. It will
21		continue on its course and remain unaffected.
22	Q	So, you will be either under it or over it?
23	A	(Mills) Correct. I think, currently, we're
24		looking at going under it.

		[WITNESS PANEL: Mills Rokes]
1	Q	You also testified, when I asked you the
2		reasons for the crossing, you said the main
3		reason was reliability, and you referenced how
4		a number of customers are served by a single
5		feed. Who are those customers on the map?
6		Where shall we find those customers?
7	A	(Mills) So, basically, that's a single feed
8		right now is fed from the West Street river
9		crossing of the Ashuelot River. Roughly,
10		Bridge Court is roughly where the river
11		that's just west of the river crossing. So,
12		everything west of that point is fed by that
13		one main. And that includes Pearl Street,
14		Crescent Street, West Street, all those streets
15		you see.
16	Q	So, right where the map, Exhibit 5, says
17		"Bridge Court", the river crosses roughly where
18		the "CT" is in "Court", is that correct?
19	A	(Mills) That is correct.
20	Q	And from that point, "downstream", as you say,
21		are all fed by that single crossing at the West
22		Street Bridge?
23	A	(Mills) Correct. And it's roughly 107
24		customers.

Q	And so, I'll scroll down the map, it shows a
	number of customers up in the northwest
	direction, and the customers in the south
	direction that bring us back towards the
	location of the crossing, is that correct?
A	(Mills) Yes.
Q	The second page of 5-A is a less-than-clear
	blow-up of what we were just looking at. And
	there's a yellow highlight, that indicates
	what?
A	(Mills) That is roughly where the Ashuelot
	River resides.
Q	And again, it shows the West Street crossing
	the river right by Bridge Court, and it shows
	the river going beneath the area where we
	propose the crossing, is that correct?
A	(Mills) That is correct.
Q	So, you say there's a reliability reason to
	having a second crossing at Winchester Street,
	and that reliability reason is what? What do
	you mean by a "reliability" reason?
А	(Mills) So, basically, it doesn't provide a
	complete redundancy. But having that second
	pipe at Winchester Street, down to a specific
	Q A Q A Q A

		[WITNESS PANEL: Mills Rokes]
1		temperature, not to our design day, which is
2		minus 6 degrees Fahrenheit in Keene, but up to
3		about 10, 10-15 degrees, if we were to lose the
4		West Street pipe, we could still support all
5		the downstream customers off the crossing
6		proposed in this hearing.
7	Q	So, instead of the gas traveling over West
8		Street south into this neighborhood and
9		northwest into the other neighborhood, the gas
10		could flow from the proposed crossing to those
11		areas?
12	A	(Mills) Yes.
13	Q	And you had some qualification to that,
14		10 degrees versus minus 6 degrees. What did
15		you mean by that?
16	A	(Mills) So, based on sound distribution design,
17		we design our gas distribution system to
18		accommodate a kind of "worst case" temperature
19		scenario. This is based on historical weather.
20		For this, we use the Manchester Airport, since
21		that's where we have the longest history of
22		weather data for New Hampshire. So, based on
23		that, looking back 25 years, Natural Grid, and
24		they were part of a did a write-up and a

[WITNESS	PANEL:	Mills	Rokes]

1		study, and found that the average daily
2		temperature never basically falls, in that 25
3		year, an average, once every 25 years we should
4		hit that minus 6 degree design day temperature.
5	Q	And you said the new crossing would allow
6		redundancy, but not all the way down to that
7		minus 6 degrees?
8	A	(Mills) That is correct.
9	Q	And why is that?
10	A	(Mills) Because it's a slightly smaller pipe,
11		and it doesn't tie into the full-size West
12		Street 8-inch cast iron, instead ties into a
13		6-inch plastic pipe.
14	Q	So, it's a slightly smaller pipe. So, there's
15		redundancy, but not complete redundancy?
16	A	(Mills) That is correct.
17	Q	What are other for are there other reasons
18		for the proposed crossing at Winchester Street?
19	A	(Mills) Yes. There's a few. First of all, we
20		already mentioned "redundancy". It also
21		provides us other options, if we want to
22		perform repair or replacement work on the
23		existing crossing of West Street. Right now.
24		since it is the single sole feed to those
-		

	r	[WITNESS PANEL: Mills[Rokes]
1		customers, we can never take it off-line.
2		In the summer, and if anyone else wants to
3		do work on that bridge in the future, we could
4		shut it down in the summer, allow them to do
5		their work, and then turn it back on.
6	Q	We could shut down only if we had the new
7		crossing?
8	A	(Mills) Yes.
9	Q	If we didn't have the new crossing, and needed
10		to do work on West Street, how will that
11		happen?
12	A	(Mills) So, we have actually conducted repair
13		work in the past. I don't know if, Steve, can
14		you talk about how you guys had to do the
15		repair last time?
16	A	(Rokes) Excuse me, yes. I believe it was 2004,
17		we rebuilt the pipe coming through the bridge
18		abutments on the West Street Bridge river
19		crossing. And that required, because we
20		couldn't shut it down, take it off-line to do
21		this, we had to build a bypass that ran across
22		the sidewalk. So, we had to shut down a lane
23		of traffic in the pedestrian crossing on that
24		side and shift it to the other side of the

		[WITNESS PANEL: Mills Rokes]
1		road, and have continuous 24/7 security on the
2		site while those pipes were left there until
3		the work was completed.
4	Q	And roughly how long did that particular
5		project take?
6	A	(Rokes) I believe it was about a week to a week
7		and a half.
8	Q	So, for that week or so, there was a bypass on
9		the sidewalk while the pipe underneath the
10		bridge was being repaired?
11	A	(Rokes) Correct.
12	Q	And either of you, is that if the proposed
13		crossing is built, what would be the process
14		for doing any future work on the West Street
15		Bridge?
16	A	(Mills) So, any future if we have the
17		proposed crossing installed and flowing gas, we
18		could easily disconnect the West Street feed,
19		shut it down on both sides, and allow our
20		redundant feed in the summer, when we have
21		capacity, to backfeed the system, provide
22		continuous service to all the existing
23		customers, and conduct our repair work with the
24		gas basically turned off, which is always safer

		[WITNESS PANEL: Mills Rokes]
1		to work in a gas-free environment than a
2		gaseous environment.
3	Q	And is there a cost difference for the for
4		doing repairs on the West Street Bridge,
5		between doing it using a bypass without the new
6		crossing or doing it by shutting it off because
7		you do have the new crossing? Is there a cost
8		difference in doing repairs those two different
9		ways?
10	А	(Mills) Yes. So, the main cost difference in
11		that, obviously, if we can shut it down, we
12		don't have to put the above-ground bypass in
13		place, and therefore we don't need the $24/7$
14		security.
15	Q	And I don't want you to say the numbers,
16		because those are confidential. Have you done
17		an estimate comparing the cost of looking at
18		the cost of such a shutdown/bypass repair?
19	А	(Mills) Yes. In a couple different repair
20		options, depending on if we have the feed in
21		place, if we don't have the feed in place, we
22		try to look at every option to prudently spend
23		the ratepayer capital.
24	Q	And there's also an estimated cost for the

		[WITNESS PANEL: Mills Rokes]
1		proposed Winchester Street Project as well, is
2		that correct?
3	А	(Mills) Yes.
4	Q	And again, without using actual dollars, can
5		you give us an order of magnitude of the
6		difference or the similarity between those
7		costs?
8	А	(Mills) Yes. So, depending it all depends
9		on which kind of repair, replace, insert method
10		you choose for the West Street Bridge. But, if
11		we have the Winchester Bridge installed, and we
12		go with inserting the West Street Bridge with a
13		smaller pipe, because you can't insert the same
14		size pipe, it was about 10 to \$15,000 more.
15		And that's all together. So, either looking at
16		just replacing the West Street Bridge in kind,
17		versus inserting the West Street and installing
18		the new pipe under Winchester Street, which
19		gives us more reliability as well.
20	Q	So, if I understood you correctly, doing the
21		proposed crossing, and inserting West Street,
22		was around \$10,000 more than just doing a
23		theoretical repair on West Street?
24	А	(Mills) It's actually a complete replace in

i		[WIINESS PANEL: MIIIS[ROKES]
1		kind.
2	Q	Okay. Which means take out the existing pipe
3		and put in new pipe?
4	A	(Mills) Yes.
5	Q	Mr. Rokes, is there any concern on your part,
6		being the Manager of Keene, for the condition
7		of the West Street crossing?
8	A	(Rokes) Well, there's always been concern, due
9		to the fact that it is a one-way feed, and it's
10		the only way to service the customers on the
11		west side of town. As I think I mentioned in
12		the tech session, I was, early on in my career,
13		early 2000s, I had to stand at the bridge
14		during a storm when the water level was high,
15		and there were concerns about losing the
16		bridge, which, of course, would take out our
17		pipe that's attached to the bridge. And I had
18		to stand there to turn the gas valve off
19		feeding across the bridge, if it were to go
20		down.
21	Q	Do you know how old the piping is that crosses
22		the West Street Bridge?
23	A	(Rokes) We believe it was installed when the
24		bridge was, which was 1966.

{DG 18-092} {11-26-18}

1	Q	And that's roughly 50 years ago. Is that
2		what would be the expected life of the pipe
3		let me start over. What type of pipe material
4		is crossing the West Street Bridge now?
5	A	(Rokes) It's an 8-inch steel.
6	Q	And is there a life expectancy of an 8-inch
7		steel pipe?
8	A	(Rokes) Andrew could probably answer that
9		better than I.
10	А	(Mills) Yes. So, a typical steel on a bridge
11		is about 50 to 60 years, what we've seen how
12		long they last, based on past experiences.
13	Q	And is it reasonable to conclude that we may
14		need to replace that West Street Bridge pipe in
15		the relatively near future?
16	А	(Mills) Yes. And just when we had the repair
17		on it a few years ago or, about ten years
18		ago, that it's telling us that it's starting to
19		be near the end of its life. And, eventually,
20		it won't be cost-effective to repair it
21		anymore.
22	A	(Rokes) Just to clarify, when we did the repair
23		in 2004, it was just the pipes through the
24		abutments of either side of the bridge, the

		[WITNESS PANEL: Mills Rokes]
1		east and west sides. So, the original pipe
2		that was supported and hanging from the bridge,
3		that's probably about 80 feet of pipe, that was
4		not replaced.
5	Q	Have you had a chance to review Ms. Martin's
6		testimony that was filed this morning?
7	A	(Mills) I did briefly.
8	Q	And do you have a couple comments that you'd
9		like to make based on what Ms. Martin has said
10		in her testimony?
11	A	(Mills) Yes. There were a few quick things
12		that stood out to me. I think she may have
13		misunderstood the pipe sizing on the West
14		Street Bridge that we mentioned in the tech
15		session. She quotes it as "6-inch". It's
16		actually 8-inch cast iron that currently exists
17		on West Street. The 6-inch plastic I think
18		she's referring to is the pipe that's on
19		Winchester Street.
20	A	(Rokes) Or Pearl Street.
21	A	(Mills) Or Pearl Street, yes.
22	Q	And would that change in the size of pipe in
23		her testimony affect any of the conclusions she
24		made about what could be done at West Street?

		[WITNESS PANEL: Mills Rokes]
1	А	(Mills) Yes. So, she, in her testimony, when
2		we do talk about "inserting 6-inch", she's
3		under the assumption that it's 6-inch on the
4		other side, so there's no risk no risk in
5		capacity in downsizing the pipe. Since it's
6		actually 8-inch on the other side, by putting a
7		6-inch, basically, restriction on the gas
8		stream, it curtails the amount of downstream
9		capacity we can provide to customers west of
10		the bridge.
11	Q	Stated differently, is there a is there
12		reason you can't simply, and putting aside the
13		redundancy piece of the Company's rationale,
14		could the Company simply insert a new pipe, a
15		new plastic pipe, inside the existing steel
16		pipe that crosses West Street?
17	А	(Mills) No. Based on the rough load profile of
18		the downstream customers, if we had a design
19		day condition, as previously mentioned, of the
20		negative 6 degrees Fahrenheit, there is a risk
21		we would have a small customer outage from not
22		having enough pressure downstream of the
23		bridge.
24	Q	And roughly how many customers are downstream

		[WITNESS PANEL: Mills Rokes]
1		of that bridge?
2	А	(Mills) 107.
3	Q	And do you know the well, strike that.
4		Mr. Rokes, are you aware of any growth on this
5		section, potential growth on this section of
6		the system?
7	А	(Rokes) There is a potential growth, a proposed
8		fast-food restaurant has been proposed on the
9		west side of the bridge, near the out near
10		the highway, Route 12 crossing. Yes, right in
11		that area.
12	Q	Somewhere where I have my cursor now?
13	А	(Rokes) Yes. Just slightly to the east of
14		that.
15	Q	And do you know where in the process that
16		proposed fast-food restaurant is, as far as
17		conversations with Liberty or approvals with
18		the City?
19	А	(Rokes) The conversation with Liberty was that
20		they were hoping to be constructing this year,
21		but they did not obtain all necessary permits
22		from the City. And they're expecting to start
23		that project in the Spring of 2019.
24	Q	Do you have a basic estimate of the magnitude

		[WITNESS PANEL: Mills Rokes]
1		of use that such a customer would have on the
2		system?
3	A	(Rokes) The expected load, gas load for that,
4		would be approximately 2.5 million Btus.
5	Q	And can you give us an order of magnitude of
6		how that would compare to the 107 customers
7		that are now on that section of the system?
8	A	(Rokes) That would be similar to adding
9		approximately 25 residential customers or homes
10		to the system.
11	Q	Mr. Mills, would an insert have any ability to
12		serve that additional load?
13	A	(Mills) No.
14	Q	Is the Company able to serve that additional
15		load through the proposed crossing?
16	A	(Mills) Yes. And if I can walk back, I said
17		"no", but it could provide service, basically,
18		it could provide service, but it would,
19		basically, right now at 10 to 15 degrees we
20		would start to lose customers, that temperature
21		would get warmer if we insert. So, it would be
22		like 20 to 25. I haven't conducted the exact
23		analysis, but 10 to 15 degrees warmer we'd have
24		an outage temperature I was referring to.

		[WITNESS PANEL: Mills Rokes]
1	Q	This exchange started with comments that you
2		had about Ms. Martin's testimony, and one was
3		the size of the pipe crossing the bridge. Are
4		there any other pieces that you wanted to
5		comment on?
6	A	(Mills) Yes. I think her calculations based on
7		the restriction of 6-inch are the numbers,
8		her math is right. Unfortunately, not being
9		familiar with gas, she used PVC piping. And
10		per Part 192, we're not allowed to use PVC pipe
11		as a gas carrier.
12	Q	What do we use?
13	A	(Mills) We use high-density polyethylene
14		[Court reporter interruption.]
15	ВҮ Т	HE WITNESS:
16	A	(Mills) So, we can't use PVC. We use
17		high-density polyethylene or medium-density
18		polyethylene.
19	BY M	R. SHEEHAN:
20	Q	And would that affect the calculations
21		contained in this section of Ms. Martin's
22		testimony that I have up, which is Page 5?
23	A	(Mills) Yes. So, from what I looked at, she
24		went to the Engineering ToolBox, which is an

1		online website that lists PVC internal
2		diameters. Our medium-density polyethylene is
3		actually slightly smaller internally, internal
4		area, than PVC pipe.
5	Q	Which means less gas could flow through the
6		same nominal size pipe?
7	A	(Mills) Yes.
8	Q	Any other comments that you wanted to raise?
9		About the heating/nonheating customers?
10	A	(Mills) Yes. So, she mentioned that we have
11		"54 heat" I think she refers to them as
12		"heat only". That is kind of a factually
13		incorrect statement. In Keene, we have
14		tariffs. We have a non-heat tariff and a heat
15		tariff. We know that 54 customers are on the
16		heat tariff. That does not mean they also
17		don't have cooking, hot water,
18	Q	Let me stop you there. A "heat tariff" means
19		what?
20	A	(Mills) They use gas for heat.
21	Q	And what would a "non-heat tariff" mean?
22	A	(Mills) It means they don't use gas for heat.
23	Q	And what are the kinds of things a non-heat
24		customer could be using gas for?

		[WITNESS PANEL: Mills Rokes]
1	A	(Mills) The two principal things are hot water
2		and cooking service.
3	Q	And I think Ms one point of Ms. Martin's
4		testimony is, that with relatively few non-heat
5		customers, it would be easy to shut them down
6		in the summer to do a repair. Is that how you
7		interpreted it?
8	A	(Mills) Yes.
9	Q	And why is that not appropriate, in your view?
10	A	(Mills) Because, since we don't track what the
11		heat customers do besides heating with their
12		gas, there's an untold amount of those specific
13		customers that may have hot water and a stove
14		as well.
15		MR. SHEEHAN: Thank you. Those are
16		all the questions I have.
17		CHAIRMAN HONIGBERG: Mr. Husband,
18		questions for the panel?
19		MR. HUSBAND: Yes. Thank you.
20		CROSS-EXAMINATION
21	BY M	R. HUSBAND:
22	Q	Mr. Mills, at the technical session in
23		November, you stated that the West Street
24		Bridge pipe is not currently leaking, is that

		[WITNESS PANEL: Mills Rokes]
1		correct?
2	A	(Mills) As of the last leak survey, it is not.
3	Q	Okay. And that is the pipe that's at issue in
4		this proceeding that you claim has to be
5		repaired or replaced, correct?
6	A	(Mills) That is the proposed crossing is the
7		Winchester Street HDD, the reliability of that
8		provides reliability to West Street.
9	Q	But part of the reason why you wanted to add
10		the crossing to Winchester Street is because
11		you, being Liberty, claim that the West Street
12		Bridge pipe has to be repaired or replaced,
13		isn't that correct?
14	А	(Mills) It allows us an easier means to repair
15		and replace it. And, yes, it does need to be
16		repaired or replaced in the near future.
17	Q	In the near future, but could you quantify that
18		a little more closely? Is it months? Years?
19	A	(Mills) If it leaks tomorrow, we're going to do
20		it tomorrow. If it otherwise, probably one
21		to three years.
22	Q	And is that going to be part of isn't
23		Liberty also replacing some eight plus miles of
24		old pipeline in the City of Keene alone?

1	А	(Mills) I think that number is correct.
2	Q	And is that pipeline of roughly the same life
3		expectancy as the pipe on the West Street
4		Bridge that is at issue?
5	A	(Mills) The eight miles I believe you are
6		referring to is a cast iron pipe, is that
7		correct?
8	Q	I believe so, yes.
9	A	(Mills) The cast iron pipe, by all means, is
10		past its service life. EnergyNorth, we have
11		active replacement programs to replace all cast
12		iron pipes in the system. Since Keene was
13		recently incorporated into the EnergyNorth
14		tariff, we hope to take part in the CIBS
15		Program and use that money in Keene and get
16		accelerated recovery, thus replacing the cast
17		iron.
18	Q	So, all of the cast iron pipe in Keene, which
19		you said is probably eight miles or more, is in
20		need of replacement right now?
21	A	(Mills) Yes. And we actively replace footage
22		every year of it.
23	Q	Okay. This particular crossing at issue
24		here strike that. What is the diameter and

		[WITNESS PANEL: Mills Rokes]
1		composition, being cast iron or steel or
2		whatever, of the main line feeding the 8-inch
3		West Street crossing?
4	A	(Mills) It varies. But, up to that point, it's
5		either 8-inch cast iron or I believe 12-inch
6		steel, if you backtrack all the way to plant,
7		the gas plant.
8	Q	So, what would be the main on the other side?
9	A	(Mills) On the west side of the West Street
10		Bridge?
11	Q	Yes.
12	A	(Mills) That would be 8-inch cast iron.
13	Q	And if what is the diameter and composition
14		of the mains on the 8-inch side of the crossing
15		that feeds the 107 current customers? Is that
16		the east side you already testified to?
17	A	(Mills) Yes. So, the bridge right now, just to
18		clarify and hopefully can get this all clear,
19		is the bridge itself is a steel crossing where
20		it crosses the river directly, on both sides it
21		ties into an existing 8-inch cast iron main.
22	Q	All right. So, in terms of the feed into the
23		107 customers, is there any pipeline
24		restrictions smaller than 8-inch?

WITNESS PANEL: Mills	Rokes	
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1 A (Mills) No. It gets smaller as you get f to the end of the system, but there's less less customers on it at that point. 4 Q Okay. But I'm talking about feeding into as opposed to the output? 6 A (Mills) Oh, no. It's either bigger or 8- Q All of the pipelines leading into the Wess Street Bridge pipe? 9 A (Mills) Yes. 10 Q What is the length of the West Street Brid pipe that's there now? 12 A (Rokes) Approximately 100 feet, slightly longer.	
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12 A (Rokes) Approximately 100 feet, slightly 13 longer.	
13 longer.	
14 Q And what is the length of the proposed	
15 Winchester Street pipe going across?	
16 A (Mills) Roughly 720 feet.	
17 Q Are the design day requirements that you	spoke
18 of earlier based on the capacity of a 6-i	nch?
19 Strike that. They're based on the capaci	ty of
20 an 8-inch pipeline, as you discussed?	
21 A (Mills) The design the capacity of the	e pipes
is determined by the usage of the downstr	ream
23 customers. So, based on	
24 [Court reporter interrupt]	

1	BY T	HE WITNESS:
2	A	(Mills) So, based on the 107 customers
3		downstream, they have a particular gas usage
4		that we have historical data on. Based on that
5		usage, they need an 8-inch pipe on that bridge
6		crossing.
7		CHAIRMAN HONIGBERG: All right.
8		We're going to go off the record for a minute.
9		[Brief off-the-record discussion
10		ensued.]
11		CHAIRMAN HONIGBERG: All right. You
12		may proceed.
13		MR. HUSBAND: Sorry about that.
14	BY M	R. HUSBAND:
15	Q	Is there any extent to which the current pipe
16		at the West Street Bridge could be reduced
17		without reducing its capacity so low as to run
18		into design day requirement issues?
19	A	(Mills) Not with the existing material that's
20		currently approved under Part 192.
21	Q	Sorry, that last part again?
22	A	(Mills) So, basically, material per the Federal
23		Pipeline Safety Division, there's approved
24		material, coated steel, plastic pipe, that

		[WITNESS PANEL: Mills Rokes]
1		we're approved to use to carry gas pipe. Based
2		on that list of approved material, there is
3		not.
4	Q	Okay. But say there was a hypothetical
5		material out there that could be sized exactly
6		to fit the pipe. How much could the capacity
7		of the current pipe be reduced and still meet
8		design day needs? To what size pipe?
9	A	(Mills) That's a hypothetical that I haven't
10		looked into.
11	Q	Could it be reduced at all? It's an 8-inch.
12		Could it be reduced by 10 percent?
13		Twenty percent?
14	A	(Mills) I suppose there is some minute
15		percentage it could be reduced. But I don't
16		want to quote numbers, because I haven't done
17		that, that calculation.
18	Q	And you're not able to say whether it would be
19		at least 10 percent or more?
20	А	(Mills) No. Because when I we have a
21		program called "Synergy Gas", which I used to
22		size the pipe, and I have an existing list of
23		materials, which are our plastic pipe and our
24		steel pipe, and I plug it into that, and I

		[WIINESS PANEL: MIIIS ROKES]
1		basically know "Would 8-inch steel work?" Yes.
2	Q	And you didn't think the analysis of how much
3		the pipe could possibly or, the capacity
4		could be reduced was important, simply because
5		there were pipes out there that would
6		accommodate that kind of
7	A	(Mills) Yes. The process of getting pipe
8		material approved is a it takes years. So,
9		no, I did not.
10	Q	All right. But, if what we're really concerned
11		here with is the capacity of the pipe, if the
12		capacity or the demand on the pipe could be
13		reduced by something like weatherization or
14		energy efficiency needs that reduce the demand,
15		whether or not you could get a pipe that would
16		be the right size to accommodate that new
17		reduction in demand, you could still put an
18		insertion in there and meet that demand,
19		couldn't you?
20	A	(Mills) I suppose, if enough load was reduced
21		on the West Street side, there is a probably
22		a possibility of 6-inch plastic being able to
23		support that load.
24	Q	And you didn't do the calculation to figure out

2	A	(Mills)	Ι	did	not.	

1

3

Q

4		capacity for projected growth in customers in
5		order to track the supply?
6	A	(Mills) They do not, no.
7	Q	Do the design day requirements account for
8		anticipated investment in energy
9		efficiency/weatherization projects by the 107
10		affected customers?
11	A	(Mills) They do not.
12	Q	It would be possible to construct a temporary
13		bypass for the proposed Winchester Street
14		crossing, if necessary, wouldn't it?
15	A	(Mills) It would.
16	Q	If the West Street crossing is shut down for
17		repair, how would a coincident interruption in

Do your design day requirements include

18 service on the proposed Winchester Street

19 crossing be addressed?

20 A (Mills) Can you repeat that?

Q If you installed the Winchester Street pipe crossing, and then that had to be repaired or replaced, how would you address that?

24 A (Mills) Okay. So, if that had to be repaired,

	[WITNESS PANEL: Mills Rokes]
1	then we'd still hopefully have the now repaired
2	or replaced West Street crossing, and that
3	would be the other backfeed. So, basically, by
4	having two crossings, either one could come off
5	line in the summer and allow a repair to
6	either/or.
7	Q Could you do a bypass of the Winchester?
8	A (Mills) You could do a bypass on the bridge,
9	the same way we would have to do it on the West
10	Street Bridge.
11	Q And would that be across the water?
12	A (Mills) That would be on the bridge deck, like
13	it would be for West Street. So, yes.
14	MR. HUSBAND: If you would give me
15	just a minute please?
16	CHAIRMAN HONIGBERG: Uh-huh.
17	MR. HUSBAND: I think I'm almost
18	done.
19	[Short pause].
20	BY MR. HUSBAND:
21	Q Can you try and explain it a little better, and
22	maybe it's my misunderstanding, as to why I
23	think you said that the Winchester Street
24	crossing would only be 10 or \$15,000 more for

		[WITNESS PANEL: Mills Rokes]
1		the whole project than the West Street Bridge
2		crossing?
3	A	(Mills) Yes. So, if we have the Winchester
4		Street pipe in place, we can insert. Inserting
5		is a far cheaper option, because we don't need
6		to do a structural analysis of the bridge, we
7		don't have to hang any pipe, we don't need to
8		bring in an outside engineering firm to confirm
9		the bridge can support a new steel pipe, since
10		the steel there is probably a lesser quality
11		steel and lesser weight. So, sound engineering
12		practice is to have a structural engineer come
13		in and confirm that the bridge can support the
14		weight we would be adding to the structure,
15		which adds an additional cost.
16		Inserting is a cheaper option. Our
17		internal crews can all do that in-house, and we
18		don't have to bring in any outside engineering
19		firm, and all we need is a Shoreland Permit
20		from New Hampshire DES.
21	Q	If either of you know, doesn't Liberty
22		didn't Liberty report over \$2 million worth of
23		unaccounted for gas that was, in part, due to
24		leaks last year?

1		[WITNESS PANEL: Mills Rokes]
1	A	(Mills) I don't know the exact amount. But
2		unaccounted for gas isn't 100 percent leaks.
3		It's a number that includes purging, venting
4		regulators. A portion of it is leaks. But the
5		entire, whatever the figure you just mentioned,
6		is not all leaks.
7	Q	Okay. But you will agree that there is a
8		significant percentage of unaccounted for gas
9		that is lost by Liberty in New Hampshire, some
10		of which amounts to leaks each year?
11		MR. SHEEHAN: Objection, to
12		relevance.
13		MR. HUSBAND: Well, the relevance is
14		you're replacing a pipe that's not leaking, and
15		you have leaking pipes throughout the state.
16		It goes to necessity.
17		WITNESS MILLS: I think
18		CHAIRMAN HONIGBERG: Wait. Hang on.
19		That doesn't that doesn't go to the
20		necessity of this pipe. It may dictate
21		activity elsewhere, but it doesn't
22		MR. HUSBAND: It calls into question
23		whether this is really necessary.
24		CHAIRMAN HONIGBERG: No. I think it

		[WITNESS PANEL: MILLS[Rokes]
1		goes to whether they would be better off
2		spending their money elsewhere replacing leaky
3		pipe, I think is the point you want to make,
4		isn't it?
5		MR. HUSBAND: That's a good point,
6		too.
7		CHAIRMAN HONIGBERG: Sustained.
8		MR. HUSBAND: All right. Thank you.
9		No further questions.
10		CHAIRMAN HONIGBERG: Ms. Skuly, do
11		you have questions for the panel?
12		MS. SKULY: Yes. I just would like
13		one clarification.
14	BY M	S. SKULY:
15	Q	On Exhibit 3, at the bottom of the photo it has
16		"Project Description". That's on Exhibit 3,
17		right? I'm looking at the photo the for the.
18	A	(Mills) The first page, Mike.
19	Q	Okay. If I can read that, because it's really
20		tiny. But it describes the project as the
21		drilling "750 feet of HDPE under the
22		Ashuelot"
23		CHAIRMAN HONIGBERG: Slow down. Slow
24		down.

[WITNESS PANEL: Mills | Rokes] 1 MS. SKULY: Oh, I'm sorry. Yes. Ι 2 apologize. BY MS. SKULY: 3 "High-density drilling of 727" -- I can't read 4 Q this too well, "of 8-inch" --5 6 CHAIRMAN HONIGBERG: Ms. Skuly, it's 7 up on the screen now. It might be easier to see up there. 8 9 MS. SKULY: Well, maybe. Okay. 10 CONTINUED BY MS. SKULY: -- "HDPE under Ashuelot River in the vicinity 11 0 12 of the Winchester Street Bridge. 110 of 8-inch 13 MDPE to [tie into] the existing 6-inch PE on 14 Pearl Street and 4-inch cast iron on Winchester Street. An initial" -- oh, "Install small 15 16 amount of 4-inch PE to come" -- no, "to cross 17 road to the" --18 CHAIRMAN HONIGBERG: The word is 19 "tie". 20 MS. SKULY: Okay. 21 CHAIRMAN HONIGBERG: "Tie into". 22 CONTINUED BY MS. SKULY: 23 -- "to tie into existing 4-inch cast iron main Q 24 on eastern end of project."

67

		[WIINESS PANEL: MIIIS ROKES]
1		So, this is a little confusing to me,
2		because you're going from 8-inch to 6-inch to
3		4-inch, but yet, when you describe trying to
4		insert a pipe on West Street with a 6-inch, you
5		talk about creating a constriction there. And
6		then that's all, I'm assuming, going into
7		another cast iron pipe off of West Street.
8		So, how is it a constriction on West
9		Street and not here?
10	A	(Mills) So, there will be a slight restriction
11		in the near term here. But the 4-inch cast
12		iron, as previously noted, we plan to replace
13		all of the cast iron in Keene. At that time,
14		we'll upgrade the size of the pipe to provide
15		additional capacity to support the new
16		customers that we keep getting we get
17		requests for every day to go onto the Keene
18		system.
19	Q	But, in the meantime then, you are going from
20		larger to smaller, which you say you want to
21		avoid doing on West Street?
22	A	(Mills) That is, in the near term, yes. But
23		when I have both crossings in place, a slight
24		restriction in the near term there isn't an

		[WITNESS PANEL: Mills Rokes]
1		issue.
2	А	(Rokes) Yes. It's not really a restriction by
3		adding the Winchester Street, because we have
4		nothing there right now as there is. So, some
5		of the pipe is smaller, and then it's going to
6		larger pipe, but it's making a connection and a
7		loop there, which provides us more capacity.
8	Q	So, it's not going into 4-inch and 6-inch
9		pipes?
10	A	(Mills) So, we looked at, just to clarify, we
11		did look at HDD and 6-inch PE. And based on
12		historical data and cost a high-level cost
13		estimate, when you take the HDD rig out, the
14		cost difference between 6- and 8-inch is less
15		than a couple dollars a foot. So, just in case
16		we ever need a larger pipe there in the future,
17		it's easier to install it now, figure for the
18		crossing, than to have to go back and install a
19		new pipe in 10 to 20 years, because we
20		installed a 6-inch pipe that was too small.
21		Crossing a river or any large kind of
22		obstruction like this is an expensive

undertaking. So, we generally try to preventhaving to do it multiple times.

		[WITNESS PANEL: Mills Rokes]
1		MS. SKULY: Thank you.
2		CHAIRMAN HONIGBERG: That's all you
3		got?
4		MS. SKULY: Yes.
5		CHAIRMAN HONIGBERG: Mr. Dexter.
6		MR. DEXTER: Thank you.
7	BY M	R. DEXTER:
8	Q	I wanted to ask some questions first about the
9		West Street existing crossing. If I understood
10		your testimony, is it correct that you intend
11		to insert a new pipe into the existing West
12		Street Bridge pipe?
13	A	(Mills) That is correct, if the crossing in
14		this Petition is approved.
15	Q	Is approved?
16	A	(Mills) Is approved.
17	Q	And when would that take place?
18	A	(Mills) It's a budget line item. The goal is
19		next year. But, if City work eats away at the
20		budget, in order to keep up with City paving,
21		replacement, drainage, all that's the normal
22		everyday tasks, it will be pushed, maybe a year
23		or maybe two.
24	Q	Is that method of inserting the plastic pipe
		{DG 18-092} {11-26-18}

		[WITNESS PANEL: Mills Rokes]
1		something that would require a docket similar
2		to this one, in your view, a bridge crossing
3		docket?
4	A	(Mills) Not that I'm aware of, because I
5		believe that the crossing dockets allow us to
6		repair or replace in kind, I think this
7		crossing. I'm not 100 percent positive on
8		that. I would need to consult Mike.
9		CHAIRMAN HONIGBERG: Yes. You
10		probably don't want to be answering legal
11		questions beyond that.
12	вү М	R. DEXTER:
13	Q	When you talked about design day planning, you
14		mentioned a "6-degree Fahrenheit" temperature.
15		Could you explain a little bit more what that
16		is?
17	A	(Mills) I said "minus 6 degrees".
18	Q	"Minus 6 degrees".
19	А	(Mills) So, when you look at historical data,
20		and the gas demand of a customer is based on
21		the temperature outside. So, at colder
22		temperatures, people use more gas to heat their
23		homes. So, based on historical weather data,
24		negative 6 is like that 1-in-25 incident that

{DG 18-092} {11-26-18}

1		could occur, and we design for that.
2		Basically, we have enough capacity in the
3		system to serve all customers at minus 6
4		degrees Fahrenheit.
5	Q	And over what period of time does that minus 6
6		degrees Fahrenheit persist?
7	А	(Mills) So, that is the daily average
8		temperature. So, it basically could be it's
9		not a single day of minus 6. It's probably a
10		couple sustained days where the average daily
11		temp is minus 6 degrees.
12	Q	And when was the last time Liberty experienced
13		a design day situation in Keene?
14	A	(Mills) In Keene, I don't know. I know the
15		larger EnergyNorth market came very close last
16		year.
17	Q	And in one of the exchanges you had mentioned a
18		situation where that temperature where you
19		started to lose customers would go "higher", I
20		think is what you said. Could you explain that
21		again please?
22	A	(Mills) Yes. So, obviously, I'll try to
23		basically, the temperature the temperature,
24		a warmer temperature means less gas demand.
		[WITNESS PANEL: Mills Rokes]
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1		So, by adding load, that gas demand at minimum
2		temp goes higher and higher, in order to,
3		basically, less people need less heat, so we
4		have more capacity.
5		I can't think of a better way to explain
6		it.
7	Q	So, if you were to experience a design day
8		situation, does that automatically mean that
9		your customers would not be able to be served?
10	A	(Mills) So, currently, I could say with good
11		confidence that, at minus 6 degrees Fahrenheit,
12		we have enough capacity to serve all existing
13		customers in this new market.
14	Q	And that includes the 107 customers that we've
15		been talking about today?
16	A	(Mills) Yes.
17	Q	Now, you testified a couple of times to the
18		benefits of having redundancy in a particular
19		neighborhood. Is that right?
20	A	(Mills) A particular neighborhood, a system,
21		yes.
22	Q	Yes. Is that something that's unusual in the
23		gas distribution business or is that fairly
24		typical?

		[WITNESS PANEL: Mills Rokes]
1	A	(Mills) That's typical. We try to loop our
2		systems as much as possible.
3	Q	Are there other situations in Keene that you
4		know of where there isn't redundancy?
5	A	(Mills) This is the largest customer area that
6		exists in Keene that does not have redundancy.
7	Q	And of the 107 customers that you spoke about,
8		what roughly is the breakdown between
9		residential and commercial customers?
10	A	(Rokes) I don't know the breakdown between
11		residential and commercial.
12	Q	Do you know if there are any large commercial
13		customers included in that 107?
14	A	(Rokes) I don't believe there's any large
15		commercial customers.
16	Q	Earlier or just a few minutes ago you testified
17		that you would do this sleeving method if the
18		Petition for the Winchester Bridge was
19		approved, is that right?
20	A	(Mills) Yes.
21	Q	If the Winchester Bridge was not approved, what
22		actions would the Company take?
23	A	(Mills) We'd have to conduct a structural
24		analysis of the bridge, and possibly replace

		[WITNESS PANEL: Mills Rokes]
1		the 8-inch steel main that's there with a new
2		coated 8-inch steel line under the bridge.
3	Q	And that's West Street Bridge you're talking
4		about?
5	A	(Mills) That is the West Street Bridge,
6		correct.
7	Q	And when would that take place?
8	A	(Mills) Probably in the same timeframe as we
9		if we were to insert.
10	Q	And what timeframe is that?
11	A	(Mills) That's the one to three years.
12	Q	One to three years. Was there any analysis
13		done towards putting a second bridge a
14		second pipe on the West Street Bridge, as
15		opposed to the Winchester Street?
16	A	(Mills) We didn't do an analysis of putting it
17		"on the bridge". I went on-site with one of
18		the other engineers at Liberty Utilities, Brian
19		Frost, and we tried to find sites we could
20		economically set up the HDD rig. But, due to
21		business congestion and limited right-of-way
22		City-owned right-of-way, it would be difficult
23		to set up an HDD rig to drill another pipe
24		underneath the river.

		[WIINESS PANEL: MIIIS[Rokes]
1	Q	So, even up at West Street, you investigated
2		the HDD, which is the horizontal directional
3		drilling, is that right?
4	A	(Mills) Yes.
5	Q	And do you view that as a preferable method,
6		versus adding a second pipe over the West
7		Street Bridge?
8	A	(Mills) Yes. Mainly, as Steve mentioned
9		earlier in his testimony, the flooding, where
10		we almost lost we could have lost the
11		bridge, when we HDD, it provides it underneath
12		the river, so it's not susceptible to anything
13		that were to happen to the bridge.
14	Q	Now, talking about the proposed crossing for a
15		moment, is the HDD generally a preferred method
16		for new pipeline river crossings?
17	A	(Mills) It depends on the bridge. In this
18		case, the bridge has a slight curve to it, so
19		it's hard to hang a pipe on it. And then we'd
20		have to bring in a structural engineer, which
21		Liberty does not have on staff, that adds
22		costs. Looking at the whole cost justification
23		and safety of the pipe, we're far safer from a
24		system perspective having the pipe beneath the

		[WITNESS PANEL: Mills Rokes]
1		riverbed instead of on the bridge.
2	Q	Why is it safer to have the pipe underground
3		versus on the bridge?
4	A	(Mills) As I mentioned just a few minutes ago,
5		the flooding that Keene has experienced, that
6		bridge is susceptible to being taken out by a
7		flood as well.
8	Q	Are there any other reasons that it would be
9		safer to have the pipe underneath the river,
10		rather than on the bridge, that you can think
11		of?
12	А	(Mills) If anyone were to tamper with a pipe
13		under a bridge, it's a lot easier to assess for
14		the general public than if it's 10 feet below
15		the river bottom.
16	Q	Is your proposed method expected to cause any
17		disruption to the river?
18	А	(Mills) No.
19	Q	There's been some talk in the technical
20		sessions and in the data requests about a
21		"frac-out". Could you explain what that is
22		please.
23	A	(Mills) So, part of the horizontal directional
24		drilling is they use bentonite to basically

		[WITNESS PANEL: MILLS[Rokes]
1		support the hole as the drill goes through.
2		Bentonite is a clay mixture. It's non-toxic.
3		It comes in, basically, it looks like concrete
4		bags. They mix it with water. Generally, it's
5		City municipal water, but sometimes, if the
6		river is right there, they use river water. It
7		has a whole DES permitting process. So,
8		generally, in the past, in Keene, we've used
9		municipal water, and they sometimes set up a
10		meters or they find out it's so little that
11		they don't care the amount of water we use.
12		So, that bentonite, in a "frac-out", as
13		you termed, is when the bentonite bubbles up
14		through the ground and comes out the ground,
15		because there's too much pressure in that
16		fluid.
17	Q	And is it anticipated that a frac-out would
18		happen in this operation?
19	A	(Mills) No. I briefly spoke with one of the
20		HDD contractors, and based on the soil
21		conditions, that they don't believe that's an
22		issue.
23	Q	Do you know how common an issue it is in HDD
24		drilling?

		[WITNESS PANEL: Mills Rokes]
1	A	(Mills) I do not.
2	Q	Are there any steps that you could take to
3		minimize a frac-out?
4	A	(Mills) Yes. So, geotechnical analysis of the
5		soils is a key, because then you know how much
6		pressure the soil can support. Luckily, in
7		this case, being so close to the bridge, we
8		have the bore the geotechnical analysis done
9		by the State when they built the bridge.
10	Q	And did you review that analysis that the State
11		did?
12	A	(Mills) Yes.
13	Q	And what did that analysis show?
14	A	(Mills) I don't have it in front of me, but it
15		showed it was a sandy/silty soil.
16	Q	And is that positive a positive attribute
17		for what you're doing?
18	A	(Mills) It's not. We prefer a thicker soil.
19		But, just because we know it, we know how much
20		pressure the soil we can put on the
21		bentonite mixture, to basically reduce the risk
22		or mitigate it to the utmost possibility of
23		making a frac-out.
24	Q	In the event of a frac-out, what procedures

1		would be followed by the Company?
2	А	(Mills) General practice is to shut down the
3		drill immediately and call New Hampshire DES.
4		And then we go about putting curtains up to
5		contain the frac-out, if it were in the river.
6		Or, even on land, we'd put up a silt fence to
7		contain any of the frac-out material.
8	Q	Would that prevent you from completing the
9		crossing?
10	А	(Mills) There is a possibility, yes. We'd have
11		to pull back and attempt to cross, either go
12		deeper, which more pressure in the soil
13		prevents a frac-out as well, or we, depending
14		on if we're close to the end, sometimes in
15		consultation with DES, if we're 10-15 feet
16		away, we'll just punch through and finish the
17		crossing. Because the risk of fracking out a
18		little bit, if we could contain the frac-out
19		material, that is sometimes the preferred
20		method, than to redo the crossing completely.
21	Q	What's the proposed timeframe for this
22		construction at this point?
23	А	(Mills) At this point in time, it was planned
24		for this year. But, hopefully, Spring of 2019,

1		if it were to be approved in the next 30 to
2		30 days.
3		MR. DEXTER: That's all the questions
4		Staff has. Thank you.
5		CHAIRMAN HONIGBERG: Commissioner
6		Bailey.
7	BY CI	MSR. BAILEY:
8	Q	Just following up on that last line. Can you
9		explain to me again how you contain a frac-out
10		in the water of the river?
11	A	(Mills) So, they're called "turbidity
12		curtains". They're basically, if you've seen a
13		bridge crossing done, they have those big
14		orange curtains that you see in the water,
15		that's what they put up and it contains the
16		frac-out material in a small area of the river.
17	Q	And do you put that up as a preventative
18		measure or do you put it up if you have a
19		frac-out?
20	A	(Mills) We put it up we have them on-site,
21		but we would only put them up if there's a
22		frac-out, because you don't know where the
23		frac-out could occur. It could occur anywhere
24		along the drill path. It generally occurs

	-	[WITNESS PANEL: Mills Rokes]
1		where the drill head is at that time, but you
2		never know.
3	Q	Mr. Rokes, you've been with the Company for 18
4		years you said?
5	A	(Rokes) Yes.
6	Q	And this pipe was installed when you were
7		before you were employed there?
8	А	(Rokes) Yes. The West Street Bridge?
9	Q	Yes.
10	A	(Rokes) Yes. It was believed to be 1966, when
11		the bridge was constructed.
12	Q	Okay. So, why has it not been important prior
13		to this to have a redundant crossing?
14	A	(Rokes) I'm not sure, to be honest with you. I
15		didn't and I was not Operations Manager long
16		before Liberty took over, there was another
17		manager in place. We do our regular surveys on
18		the bridge for leaks and structural integrity.
19		And we found it to be, you know, sufficient and
20		okay. It passes those surveys from quarter to
21		quarter.
22	Q	And now, the position is that the existing
23		pipeline on the bridge is at the end of its
24		useful life, because there's going to become a

		[WITNESS PANEL: Mills Rokes]
1		point in time where it isn't cost-effective to
2		do further repairs, is that
3	A	(Mills) That is a correct statement.
4	Q	Okay. And so, even though it's not leaking
5		today, based on the age of the pipe, you, as an
6		engineer, expect that there will need to be
7		further repairs in the future?
8	A	(Mills) Yes. And we want to prevent an
9		emergency repair. So, we try to stay out ahead
10		of these things.
11	Q	Okay. Do you have a copy of Ms. Martin's
12		testimony with you?
13	A	(Mills) I do.
14	Q	Can you look at Page 9?
15	A	(Mills) Okay.
16	Q	Is the sentence on Line 20 through 22 that says
17		"Also, the Keene system, as it exists, cannot
18		expand service to significantly more customers
19		without replacing all of the cast iron pipes
20		and increasing operating pressures throughout
21		the system", is that accurate?
22	A	(Mills) I would not deem it accurate, no. The
23		cast iron system, they have shed customers,
24		they have added customers over the years. I

		[WITNESS PANEL: Mills Rokes]
1		don't know what the max customer count Keene
2		ever had. But it all depends on where that new
3		customer wants to come onto the system.
4		Obviously, we have different pipe sizes
5		depending on what part of the city you're in.
6		Really, so, yes, there's additional
7		capacity in the low pressure system, as a
8		general point of view, to add customers.
9	Q	Okay. The existing pipe that serves 107
10		customers, does that have any excess capacity
11		for your design day?
12	A	(Mills) It does have some. And that's why we
13		were going to approve the fast-food restaurant
14		that was mentioned earlier to be able to come
15		on to the system.
16	Q	So, you could serve that customer with the
17		existing pipe?
18	A	(Mills) Yes.
19	Q	Do you expect more growth in that area?
20	A	(Mills) It is, there is a commercial area
21		downstream of that pipe. There's also the
22		Keene schools. There's a lot of residential
23		customers west of that point. So, I think, if
24		we're able to beat out the if we're the

		[WITNESS PANEL: Mills Rokes]
1		cheapest fuel, I would expect there to be
2		growth in that area, yes.
3	Q	And those potential new customers wouldn't be
4		served off of the newer high pressure line that
5		is going to serve the Monadnock Region?
6	A	(Mills) At some point, the entire system is
7		going to be, hopefully, a 60-pound distribution
8		system. Initially, if they came on in the next
9		couple of years, no, they would be served off
10		this low pressure pipe.
11	Q	So, if the Monadnock Project were completed,
12		would you need this crossing?
13	A	(Mills) Yes.
14	Q	Why? I mean, you just said "eventually,
15		everybody will be served by that system".
16	A	(Mills) Yes. So, the existing cross so,
17		that's a high pressure there's two different
18		distribution systems in Keene right now.
19		That's the high pressure system. This is the
20		low pressure system. Any phased conversion
21		approach, which you mentioned the natural gas
22		conversion, I think you're referring to the
23		Monadnock Market, that's going to take three to
24		seven years. And even if we get that on line,

1 we still only have one feed across the river. 2 And if that is our source of supply, we 3 definitely want two feeds. In case we were to lose one of them, we don't want to leave 4 5 everything -- that would be everything to the 6 east, instead of the west. 7 So, would this crossing be able to support the Q 8 high pressure system in the future? 9 А (Mills) Yes. 10 CMSR. BAILEY: Okay. I think that's 11 all I have. Thank you. 12 WITNESS MILLS: Thank you. 13 CHAIRMAN HONIGBERG: Commissioner 14 Giaimo. 15 CMSR. GIAIMO: Good afternoon. 16 WITNESS MILLS: Good afternoon. 17 (Witness Rokes nodding in the 18 affirmative). 19 BY CMSR. GIAIMO: 20 Q Currently, what are Liberty's options when an 21 interruption occurs affecting the customers 22 west of the river? 23 (Mills) Basically, it would be a shut-down and А 24 a re-light of every individual customer, if we {DG 18-092} {11-26-18}

[WITNESS PANEL: Mills | Rokes]

	-	[WITNESS PANEL: Mills Rokes]
1		were to lose that feed across the river.
2	Q	Hasn't happened though?
3	A	(Mills) It has not. We have come close, but it
4		has not happened.
5	Q	Under your proposal, how would Liberty propose
6		to mark aboveground signs and how would Liberty
7		monitor to ensure that those signs aren't
8		tampered with and remain visible?
9	A	(Mills) So, we get the leak survey of all pipe
10		annually. As part of that annual leak survey,
11		we would obviously, we'd make sure those
12		signs were in place and marked properly.
13	Q	So, once a year?
14	A	(Mills) Correct.
15	Q	With respect to Ms. Martin's proposal and
16		testimony, does the Company think that the EE
17		and weatherization options identified by her
18		would work?
19	A	(Mills) I think there is a possibility it would
20		work. But we can't force customers to
21		weatherize and add efficiency to their homes.
22		We offer it as an energy incentive program.
23		I'm not super familiar with that program
24		myself.

	[WITNESS PANEL: Mills Rokes]
1	But my understanding is that customers
2	have to put up money, basically, and we match a
3	contribution, which that weatherization is
4	approved by the Commission. And otherwise, I
5	think she's proposing we basically give them
6	money, as opposed to repairing the crossing.
7	I think that would need its own separate
8	docket. I'm not Mike, if you can you're
9	more familiar with the weatherization programs
10	than I am.
11	MR. SHEEHAN: You can answer the
12	questions the best you can.
13	MR. HUSBAND: Well, I object. I
14	don't think Attorney Sheehan should be
15	testifying.
16	CHAIRMAN HONIGBERG: Mr. Sheehan just
17	told the witness to give the best answer he
18	could, so
19	MR. HUSBAND: Okay.
20	BY CMSR. GIAIMO:
21	Q Do you know if the "54" person number
22	identified is possible?
23	A (Mills) The "54" person customer was, I
24	believe, a number I provided in one of the

		[WIINESS PANEL: MIIIS[ROKES]
1		Clark data requests. The "54" refers to
2		customers that are on the heat tariff for
3		Keene.
4	Q	Okay. The Company, what it sounds like, is the
5		Company has not done specific analysis with
6		respect to growth, is that correct?
7	A	(Mills) Correct.
8	Q	Okay. But you are predicting a certain amount
9		of growth?
10	A	(Mills) Yes. I think there's the Business
11		Development team, and their whole theory is,
12		when we convert the system to natural gas,
13		they're going to see a significant amount of
14		growth to the customers in Keene. I believe
15		their projections are part of another docket.
16	Q	Okay. And your expecting, at least in the
17		short term, the addition of one fast-food
18		restaurant, which what I heard was basically
19		the equivalent of 25 residential customers? Is
20		that correct?
21	A	(Mills) Yes.
22	Q	Okay. In your initial filing, the Company was
23		hoping for something to be concluded as of
24		September 2018. Obviously, that date has come

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{DG 18-092} {11-26-18}

		[WITNESS PANEL: Mills Rokes]
1		and gone. And what I thought I heard you say
2		was that you're hoping for Spring of 2019, but
3		that is conditioned on receiving approval over
4		the next 20 to 30 days?
5	A	(Mills) Yes. So, the reason for that is I've
6		got to re-bid the project to the HDD
7		contractors, and they're a very busy group of
8		companies. So, the earlier I can get on their
9		schedule, the cheaper and the more available
10		they are. The further we get into '19, people
11		book their time and it becomes difficult to
12		schedule their work.
13	Q	So, you're not, <i>per se</i> , hamstrung, you just
14		think that it would potentially take a few more
15		months then?
16	A	(Mills) Yes. Or, they'd be busy, they'd be
17		completely booked. Massachusetts, they're the
18		same they do work in all of New England.
19		So, they're a lot of people have accelerated
20		replacement programs in those states as well.
21		So, the volume of work they're doing makes it
22		difficult to schedule their time. Not just in
23		New Hampshire, but in other states as well.
24	Q	Okay. All right. But it's not a

1		customer-specific situation that you need the
2		additional capacity to serve one or two
3		customers. You have one big customer coming,
4		but you can what I've heard is you can serve
5		them with your existing infrastructure?
6	A	(Mills) Yes. And then we're pretty much at
7		capacity.
8	Q	Okay. Can you talk a little bit about the
9		"minus 6-degree" threshold? It seems quite
10		conservative.
11	A	(Mills) It is. Design day is a condition that
12		we really never want to hit. It's "worst case"
13		scenario. It's based on, as I said, historical
14		weather. The thing being is, no outage is
15		acceptable in the Company's opinion at any
16		temperature. So that, based on historical
17		data, we chose that temperature, and we may hit
18		it once in 25 years, but we'll be able to
19		maintain all the customers.
20	Q	Okay. And you said "we almost approached it
21		last winter".
22	A	(Mills) Correct.
23	Q	How about the polar vortex Winter of 2013-14?
24	A	(Mills) I was just starting in the industry, I

1		don't know exactly.
2	Q	So, I guess, as you can see what I'm suggesting
3		is, if you have two instances in the last five
4		years, I don't know, the "1-in-25" issue is
5		something
6	A	(Mills) Yes. It's something we evaluate all
7		the time. It may be time to relook at and
8		possibly lower that temperature.
9	Q	Okay. Did I hear you correctly that, with an
10		insert as proposed by Ms. Martin, that would
11		likely result in constraints happening, and
12		whether that's 15 to 20 degrees warmer than the
13		minus 6 number?
14	А	(Mills) Yes. If we don't have the second pipe
15		in place.
16		CMSR. GIAIMO: Okay. That's all I
17		have. Thank you.
18	BY CI	HAIRMAN HONIGBERG:
19	Q	Mr. Mills, a couple of questions about the
20		construction process from any of the exhibits,
21		whether it's 1 or 3 or 4. Where will the pits
22		be located from which the work will be done at
23		either end?
24	А	(Mills) So, if you see the drawing, the little

		[WITNESS PANEL: Mills Rokes]
1		rectangular boxes, that's exactly where the
2		pits will be.
3	Q	And what is at the locations of those pits?
4	A	(Mills) They're, basically, grass. Oh, one is
5		an island right now. We looked at it. It's
6		out of the way, and we can conduct it there
7		safely. And the other is right in front of the
8		Chevrolet dealership, off-road and, basically,
9		on the edge of the sidewalk.
10	Q	Okay. The "off-road" question was what I was
11		getting at. Are you going to have to shut down
12		any roads during the construction? And if so,
13		for how long?
14	A	(Mills) So, there is, basically, on the western
15		edge, when we are pulling the pipe backwards
16		into the ground, we may have to have a detour
17		around Pearl Street, where the Pearl and Island
18		Street come together. It's like a it's a
19		weird intersection, it's a four-way
20		intersection. There's a little road right
21		there that comes across and connects to
22		Winchester Street. When we're pulling the pipe
23		back into the pit, there will be a period of
24		time, probably a half a day, where that pipe is

		[WITNESS PANEL: Mills Rokes]
1		physically blocking the road. And we briefly
2		discussed it with the fire department, to make
3		sure that we're not preventing emergency
4		vehicle traffic.
5	Q	And at the other end, you don't anticipate
6		needing to close roads near the Chevrolet
7		dealer?
8	A	(Mills) None. The only thing that may be
9		interrupted is a sidewalk. But we'll have a
10		flagger in place to assist anyone getting
11		across to the other side of the street and the
12		sidewalk on the opposing side.
13	Q	And if that were necessary, for how long would
14		that be?
15	А	(Mills) The drill process, it all depends on
16		speed. But that could be three to four days.
17	Q	New topic. You said that this is the only area
18		within Keene that has no redundancy for a river
19		crossing. Are there other places within the
20		Liberty system where you have river crossings,
21		but only one, and no redundancy?
22	А	(Mills) So, there are a few, but they all have
23		very they have lesser customer amounts, less
24		than 100 customers downstream of that crossing.

		[WITNESS PANEL: Mills Rokes]
1		So, it's easy re-light some if anything were
2		ever to happen. And generally, they're HDD and
3		not hanging on a bridge. And as I had
4		mentioned, HDD is a safer location for the
5		pipe.
6	Q	Knowing the geographic of Concord better than I
7		know the rest of your system, where are your
8		river crossings in Concord?
9	A	(Mills) I believe, ooh, they are mostly on the
10		state roads where we cross the river. Some of
11		them are drilled, some of them are hanging on a
12		bridge. I believe, in Concord, there are
13		three, maybe four crossings of the Merrimack.
14		I think it's the Merrimack. Yes, it's the
15		Merrimack.
16	Q	It is the Merrimack. And you think they're in
17		State rights-of-way?
18	A	(Mills) That's my understanding.
19		CHAIRMAN HONIGBERG: Okay. I think
20		the rest of my questions were answered.
21		Mr. Sheehan, do you have any further
22		questions for your witnesses?
23		MR. SHEEHAN: Just a couple
24		follow-up.

		[WITNESS PANEL: Mills Rokes]
1		REDIRECT EXAMINATION
2	вү М	R. SHEEHAN:
3	Q	The Chairman just asked if we have any
4		customers that had a single feed. I believe
5		your testimony was "there are pockets of less
6		than 100 customers that may be fed by a single
7		feed", is that correct?
8	А	(Mills) Yes.
9	Q	And in Keene, in particular, this one crossing
10		would provide a second feed for the largest
11		number that still has a single feed?
12	A	(Mills) Yes.
13	Q	And if we were to look at the Keene map, we
14		could probably find a few dead-ends where
15		there's a single feed to the ends of some parts
16		of the system?
17	А	(Mills) Yes. And I believe they all have less
18		than 25 customers on them. And they generally
19		don't cross rivers.
20	Q	And on the energy efficiency piece, I think
21		there was a question, if, theoretically, we
22		could reduce demand enough to allow the West
23		Street crossing to serve existing customers and
24		growth, that's theoretically possible, correct?

	r	[WITNESS PANEL: Mills Rokes]
1	А	(Mills) Yes. It's theoretically possible.
2	Q	But, of course, that does not address the
3		redundancy issue?
4	A	(Mills) Correct.
5	Q	And last, you talked about the timing of an
6		order and a construction season that the HDD
7		contractors are difficult to find and schedule
8		the longer we wade into next year, is that
9		correct?
10	A	(Mills) That is correct. Generally, their
11		availability is more during the first half of
12		the year than the second half, just because of
13		replacement projects elsewhere.
14	Q	And will price change as well?
15	A	(Mills) So, their pricing fluctuates
16		significantly, and they basically up-charge.
17		When they're really busy, they submit high
18		bids. When they're not really busy, they
19		submit low bids.
20	Q	So, it's an advantage to getting to them sooner
21		rather than later pricewise?
22	А	(Mills) Yes.
23		MR. SHEEHAN: That's all I have.
24		Thank you.

1 CHAIRMAN HONIGBERG: All right. 2 Thank you, gentlemen. I think you can probably 3 stay where you are, because we're going to break for lunch. 4 We will come back as close to an hour 5 from now as we can. Off the record. 6 7 [Brief off-the-record discussion ensued.] 8 9 CHAIRMAN HONIGBERG: All right. 10 While we were off the record, Ms. Skuly asked a 11 question about -- well, why don't you 12 articulate the question again while we have the 13 stenographer recording things. 14 MS. SKULY: Because of my 15 unfamiliarity with this procedure, it occurred 16 to me, after I had asked my questions of 17 Liberty Utilities, that the two concerns that 18 we had, that I present in Exhibit 11, could 19 have been addressed during this time. And my 20 question is, am I correct in that? Or, is there a better time to address those? 21 22 CHAIRMAN HONIGBERG: If I understand 23 what you're saying correctly, you were 24 wondering whether you would appropriately make

{DG 18-092} {11-26-18}

1	your presentation of what you want to say while
2	these two witnesses are here, on the stand? Or
3	is it or, alternatively, are you suggesting
4	that you had other questions you wanted to ask
5	these two witnesses?
6	MS. SKULY: The former.
7	CHAIRMAN HONIGBERG: That's what I
8	thought. You're going to have an opportunity
9	to make your presentation probably after
10	Ms. Martin testifies. And at that time you'll
11	be testifying yourself about whatever it is
12	you're going to testify. But I haven't looked
13	at Exhibit 11, so I don't know what's in it.
14	But you're going to be testifying about what
15	you think we need to know, and others may ask
16	you questions about it at that time. And you
17	can do however many issues you're prepared to
18	do at that time.
19	MS. SKULY: Okay. Thank you.
20	CHAIRMAN HONIGBERG: And if you have
21	further questions about it, I suggest you speak
22	with one of the lawyers in the room, probably
23	Mr. Dexter or Mr. Husband, about process like
24	that.

1 MS. SKULY: Thank you. CHAIRMAN HONIGBERG: Okay. So, now 2 we're off the record, and we'll be back in an 3 hour. 4 5 (Lunch recess taken at about 6 12:54 p.m. and the hearing 7 resumed at 2:02 p.m.) 8 CHAIRMAN HONIGBERG: All right. Are we ready to hear from Ms. Martin? 9 10 MR. HUSBAND: Yes, we are. Thank 11 you. 12 Excuse me. Should I have her 13 identify exhibits? Should I go up there 14 initially or --15 CHAIRMAN HONIGBERG: I'm sorry. What 16 are we talking about? I don't understand the 17 question. MR. HUSBAND: I have three exhibits. 18 19 And I was just wondering if it's okay to go up, 20 to have her identify them before I come back? 21 I know you prefer to have me seated when I ask 22 questions. 23 CHAIRMAN HONIGBERG: As long as 24 everybody can hear you from up there, you can

1 do it there. MR. HUSBAND: Well, I'll just give 2 them to her then. Hello, Ms. Martin. 3 CHAIRMAN HONIGBERG: Hold on. Wait. 4 5 Wait. She needs to be sworn in. 6 (Whereupon Patricia A. Martin was duly sworn by the Court 7 8 Reporter.) 9 CHAIRMAN HONIGBERG: Mr. Husband, you 10 may proceed. 11 MR. HUSBAND: Thank you. 12 PATRICIA A. MARTIN, SWORN DIRECT EXAMINATION 13 14 BY MR. HUSBAND: 15 Ms. Martin, would you please take a look at Q 16 what has been marked as "Exhibit 6", and tell 17 me if you can identify this document? 18 А Yes. This is from the Clark dataset requests. 19 And, okay, --20 Have you seen this document before? Q 21 I have. Α 22 And have you used it recently for anything? Q 23 Yes, I did. I did it -- I looked at it in А 24 terms of challenging whether or not the smaller

		[WITNESS: Martin]
1		diameter pipe would be acceptable.
2	Q	Would you take a look at what has been marked
3		as "Exhibit 7" please, and tell me if you can
4		identify that exhibit?
5	A	Yes. This is my testimony.
6	Q	This is your public comments?
7	A	My comments, yes. My public comments.
8	Q	That you submitted in this proceeding?
9	A	Yes, I did.
10	Q	And then, finally, would you take a look at
11		Exhibit 8 please, and tell me if you can
12		identify that document?
13	A	This is my testimony for today.
14	Q	This is your sworn written testimony for this
15		proceeding?
16	A	Yes, it is.
17	Q	And do you adopt that sworn testimony as your
18		testimony?
19	A	I do.
20	Q	All right. Thank you. You listened to
21		Liberty's testimony earlier today, correct?
22	A	Correct.
23	Q	You were in this room during the whole time
24		that Liberty testified?

1	A	Yes, I was.
2	Q	And do you have any comments in response to
3		Liberty's testimony?
4	A	I do. So, I, obviously, do not have a map of
5		the existing distribution system. But, in the
6		technical session on November 8th, I understood
7		one of the participants from ARLAC to note that
8		the connection, the 8-inch connection,
9		connected to 6 inches, he thought or he said,
10		on either side. And though, it turns out that
11		that was wrong, based on the testimony I heard
12		today, the Winchester Street crossing would
13		connect to 6 inches, a 6-inch feed on one side
14		and a 4-inch feed on the other.
15	Q	Pardon me, I'll stop you there. What leads you
16		to say that?
17	A	Based on Exhibit 3 or Exhibit 4, and the note
18		that Ms. Skuly pointed out earlier.
19	Q	At the bottom of Exhibits 3 and 4?
20	A	Right.
21	Q	Where it talks about
22	A	It says "Horizontal directional drilling
23		720 feet of HDPE under Ashuelot River in
24		the"

1	Q	That's good enough for now.
2	А	Okay.
3	Q	Thank you.
4	A	So, basically, if that's a redundant line, then
5		it can only provide whatever is available
6		through the 6-inch feed or potentially even the
7		4-inch feed. So, it could never be truly
8		redundant for the West Street crossing, if
9		that, in fact, is 8 inches all the way from
10		end-to-end.
11	Q	And why is that?
12	А	Because it's, you know,
13	Q	Because it's a loop?
14	A	It's a loop, right.
15	Q	Do you have any additional comments based on
16		Liberty's testimony?
17	А	I guess the only other thing that I would say
18		is that, you know, that those smaller diameter
19		pipes won't really matter much if they ever do
20		fully upgrade their system and are able to go
21		to the higher pressure, because they will be
22		able to push plenty of gas through the system,
23		even with the reduced diameter pipeline. So, I
24		don't see, if they could feed the 107 customers

1		with that Winchester Street crossing, then they
2		should be able to feed the customers with the
3		smaller diameter connection between on West
4		Street, across the bridge.
5	Q	And that's because that reduced-size connection
6		anywhere in the looped system is going to
7		constrict
8	A	Correct.
9	Q	the customer demand for the 107 customers
10		accordingly?
11	A	Correct. And the other thing I would like
12		to can I point out something?
13	Q	Please.
14	A	The other thing I'd like to point out is that
15		that West Street Bridge, I looked at the latest
16		inspection report on it. And it's listed in
17		good condition. And there's also a map that
18		shows the all the other bridges in Keene,
19		several of which are red-listed or
20		yellow-listed. And so, the likelihood of that
21		bridge being replaced, and especially since
22		City Councilor Terry Clark also noted that the
23		2019 to 2026 capital plan does not include any
24		plans for replacing or working on that West

1		Street Bridge. My feeling is that, further
2		down the line, by 2026, if Liberty has
3		pressurized gotten to a single pressure for
4		the system, they should be able to find other
5		crossing points.
6	Q	Okay. And do you have any additional comments
7		to supplement the written testimony that's
8		marked as "Exhibit 8"?
9	A	That's it. Thank you.
10		MR. HUSBAND: I have no further
11		questions.
12		CHAIRMAN HONIGBERG: Ms. Skuly, do
13		you have questions for Ms. Martin?
14		MS. SKULY: None at this time.
15		CHAIRMAN HONIGBERG: This is your
16		time, so
17		MS. SKULY: No. No. Thank you.
18		CHAIRMAN HONIGBERG: Okay.
19		Mr. Sheehan, do you have questions?
20		MR. SHEEHAN: Yes.
21		CROSS-EXAMINATION
22	BY M	R. SHEEHAN:
23	Q	Ms. Martin, I notice from your testimony that
24		you have a degree in Electrical Engineering?
		{DG 18-092} {11-26-18}

1	A	I do.
2	Q	And I notice that your work experience involved
3		computers and circuitry?
4	A	It does.
5	Q	Have you any experience in designing gas
6		pipeline systems?
7	A	None at all.
8	Q	And do you have any experience in work
9		experience or expertise in figuring out gas
10		flow through different size pipes?
11	A	Not gas flows. However, my work as an
12		electrical engineer specifically was with
13		designing portable computers and low-power
14		circuit design.
15	Q	You testified the bridge West Street Bridge
16		was reported to be in good condition. But do
17		you have anything to dispute Liberty's
18		witnesses saying the pipe is 50 years old?
19	A	I do not.
20	Q	And do you have anything to dispute the fact
21		that 50 years for that pipe is roughly its life
22		expectancy?
23	A	I don't dispute that at all.
24	Q	Do you dispute that a second feed to a

[WITNESS: Martin] 1 neighborhood is a good thing in gas engineering 2 planning? 3 А I imagine it is. 4 MR. SHEEHAN: Okay. Thank you. I 5 have nothing further. 6 CHAIRMAN HONIGBERG: Mr. Dexter, do 7 you have any questions? 8 BY MR. DEXTER: Ms. Martin, do you know whether or not the gas 9 Q 10 customers in Liberty's Keene Division can avail 11 themselves currently of the energy efficiency 12 programs of which you spoke in your testimony? 13 I believe they can. А 14 MR. DEXTER: Thank you. That's all I 15 have. 16 CHAIRMAN HONIGBERG: Commissioner 17 Bailey. 18 CMSR. BAILEY: No questions. 19 CHAIRMAN HONIGBERG: Commissioner 20 Giaimo. 21 CMSR. GIAIMO: Good afternoon. How 22 are you? 23 WITNESS MARTIN: Good. Thank you. 24 BY CMSR. GIAIMO:
1	Q	Part of your recommendation is to look at
2		energy efficiency and weatherization. Have you
3		approached the customers or your the people
4		that live in Keene to see if there is, in fact,
5		an interest in energy efficiency or
6		weatherization?
7	A	Not formally, no.
8		CMSR. GIAIMO: Okay. Thank you.
9		CHAIRMAN HONIGBERG: That was
10		actually the question I was going to ask. So,
11		I have no other questions.
12		Mr. Husband, do you have any
13		follow-up for Ms. Martin?
14		MR. HUSBAND: Thank you. A couple.
15		REDIRECT EXAMINATION
16	BY MI	R. HUSBAND:
17	Q	Ms. Martin, in your background, education,
18		experience, do you have training in the
19		mathematical skills you used to make the
20		calculations concerning the pipeline that you
21		discussed in your testimony?
22	А	Yes, I do.
23	Q	Do you feel that you're qualified to make those
24		calculations?

[WITNESS: Martin]

1	A	I feel they were pretty elementary
2		calculations, and, yes, I do.
3	Q	Pretty elementary to someone with your
4		engineering degree?
5	А	Yes.
6		MR. HUSBAND: Thank you.
7		CHAIRMAN HONIGBERG: All right.
8		Thank you, Ms. Martin. I think you can return
9		to your seat.
10		Ms. Skuly, I think you're up.
11		[Short pause.]
12		CHAIRMAN HONIGBERG: Mr. Dexter, are
13		you in any way going to assist Ms. Skuly in
14		getting herself started here?
15		MR. DEXTER: I had not planned to,
16		Mr. Chairman. But I could, if you'd like?
17		CHAIRMAN HONIGBERG: I think it would
18		be helpful to her to do that.
19		MR. DEXTER: Sure. Good afternoon,
20		Ms. Skuly.
21		CHAIRMAN HONIGBERG: We need to have
22		her sworn in.
23		(Whereupon <b>Barbara Skuly</b> was
24		duly sworn by the Court

1		Reporter.)
2		CHAIRMAN HONIGBERG: Go ahead, Mr.
3		Dexter.
4		BARBARA SKULY, SWORN
5		DIRECT EXAMINATION
6	RY M	R. DEXTER:
7	0	Ms Skuly would you state your name for the
0	Ŷ	mas. Skuly, would you state your name for the
ð		record please.
9	A	I'm Barbara Skuly.
10	Q	And would you indicate on whose behalf you're
11		testifying here today?
12	A	I'm testifying in behalf of the Ashuelot River
13		Local Advisory Committee. I have been a member
14		since 1994, and I have been Chair of the
15		Committee since 2000.
16	Q	And what role does the Committee play?
17	A	The Committee had been formulated in '94 as
18		part of the New Hampshire Rivers Management
19		Protection Program, with the idea that the
20		local committee would advise New Hampshire DES
21		on issues related to the river.
22	Q	And have you been in discussion with the
23		Committee over the proposal that Liberty has
24		made in this case?

1	A	Yes. All information has been discussed with
2		the full board before any decisions have been
3		made as to our stance.
4	Q	And my understanding is that you wanted to have
5		three exhibits included in this case, is that
6		right?
7	A	Yes.
8	Q	And the first one is Exhibit 9, is that
9		correct?
10	A	Correct.
11	Q	Could you describe what's been marked for
12		"Exhibit 9" please?
13	A	I provided Exhibit 9 because of the concern
14		that our concerns regarding the environment and
15		the river could not be addressed by the PUC.
16		And what this represents is a string of e-mails
17		between myself and Ted Diers, who is
18		Administrator for the Water Management bureau
19		of DES. Where he clearly states that "Neither
20		Shoreland nor Wetlands would have oversight of
21		the actual boring or drilling portion of the
22		project." And while Liberty Utilities
23	Q	I want to interrupt you for a second, because I
24		couldn't understand the word that you said

1		before "drilling". You said
2	A	"Boring". "Boring". "Boring".
3	Q	I'm sorry.
4	A	B-o-r-i-n-g.
5	Q	Boring?
6	A	"Boring".
7	Q	Yes. Go ahead. I'm sorry.
8	A	Liberty Utilities have received a Shoreland
9		Permit, but that jurisdiction is very limited.
10		It basically just oversees the impacts in the
11		drill entry and exit locations. So, it doesn't
12		really cover any concerns that might occur with
13		the actual drilling process. And Mr. Diers had
14		stated that the PUC would be the appropriate
15		location for us to address our concerns.
16	Q	And what exactly are the concerns that you want
17		to express today?
18	A	Our concerns were submitted to the PUC in July
19		of this year. But, at this point, safety was a
20		big issue and possible eruptions into the
21		streambed of the river and the impact on the
22		aquatic biota and the health of the river.
23		I have since also submitted Exhibit 10,
24		which is an article in the <u>Sentinel</u> , and I

1 realize that's a secondary source. However, it 2 addresses some concerns about the reliability 3 of the utility to follow through on the 4 procedures and protocol that they have 5 established. During discovery, Liberty Utilities had 6 7 provided an O&M manual information to describe what protocols they do undertake for drilling. 8 9 Again, given the history, where it appears 10 Liberty had been fined just within the last 11 year, because they did not follow their own documentation procedures, I question their 12 13 reliability in following their procedures for 14 the high density drilling. And feel that it 15 would be important that there be a separate 16 assigned monitor to oversee the activity 17 happening if the drilling does proceed. 18 CHAIRMAN HONIGBERG: Hold on, Mr. 19 Off the record. Dexter. 20 [Brief off-the-record discussion 21 ensued.] 22 CHAIRMAN HONIGBERG: Sorry. We can 23 go back on, Mr. Dexter.

> MR. DEXTER: Yes.

24

1	BY MI	R. DEXTER:
2	Q	Ms. Skuly, I want to direct your attention to
3		the document that's been marked as "Exhibit 11"
4		in this case.
5	А	Yes.
6	Q	And I guess I would call it a "memorandum" or
7		"testimony" that you put together. Do you have
8		that in front of you?
9	A	Yes, I do.
10	Q	Could you explain what that is and well, let
11		me ask you first, did you write this?
12	A	Yes, I did.
13	Q	Okay. Could you explain the contents of that
14		testimony?
15	A	The contents basically list two existing
16		concerns and opinion that, if proper oversight
17		is not employed during the drilling, that there
18		might be harm to the public's right to a clean
19		and healthy river.
20		So, the first concern is that PUC be the
21		agency that oversees that this will indeed be
22		done in a proper and safe manner, and ensuring
23		and protecting the attributes of the river.
24		The second item has to do with reliability

[WITNES<mark>S: Skuly]</mark>

1		of Liberty Utilities to follow their own
2		procedures. And the hope that there would be a
3		separate, individual person assigned to monitor
4		activities during the drilling, who would be
5		able to have an understanding of the potential
6		risks and manage situations that may cause
7		environmental damage.
8	Q	And you've mentioned a couple of times a
9		"separate person". Could you explain what you
10		<pre>mean by "separate"? Separate and apart from</pre>
11		who or from what?
12	A	Well, someone who would be assigned with the
13		expertise to understand the procedure, an
14		engineer, or someone experienced in the HDD,
15		who would be able to be sure that all of the
16		procedures that Liberty has stated as their
17		mode of operation do indeed get followed, to be
18		sure that there is no mess up.
19		MR. DEXTER: Thank you. Mr.
20		Chairman, I had intended to ask Ms. Skuly one
21		question, I guess which would be more in the
22		nature of cross-examination than direct, which
23		I just did.
24		Is it appropriate to do that now or

1	should I wait until it circles back to me?
2	CHAIRMAN HONIGBERG: I will leave
3	that to you, Mr. Dexter. If you want to do it
4	now, you can do it now, or
5	MR. DEXTER: I think it would be more
6	efficient if I just did it now.
7	CHAIRMAN HONIGBERG: Go ahead.
8	CROSS-EXAMINATION
9	BY MR. DEXTER:
10	Q Ms. Skuly, I wanted to ask you if you had a
11	chance to review the document that's been
12	marked as "Exhibit 12", which is a memo that
13	the Commission Staff's Safety Division
14	submitted in this case on November 21st?
15	A I am guessing that what I had reviewed is
16	indeed Exhibit 12. I had seen an e-mail for
17	the Safety Division's report, which I am
18	guessing is indeed Exhibit 12.
19	Q Sure. And I can show it to you if there's any
20	doubt.
21	CHAIRMAN HONIGBERG: Well, why don't
22	we make sure that we're talking about the same
23	document.
24	(Atty. Dexter showing document
	{DG 18-092} {11-26-18}

		[WITNESS: Skuly]
1		to the witness.)
2	BY T	HE WITNESS:
3	A	Yes, it is.
4	BY M	R. DEXTER:
5	Q	Okay. So, part way into that document there
6		are a list of conditions that the Safety
7		Division has listed let me back up and let
8		me rephrase that question please. Could you
9		turn to Page 3 of the document.
10	A	Yes.
11	Q	Bates Page 003 at the bottom. The paragraph
12		entitled "Safety Division Staff Review
13		Conclusions and Conditions" reads "The Safety
14		Division approval of Liberty's petition under
15		RSA 371:17 and 371:20 with the following
16		conditions:" And then it lists six conditions.
17		Do you see those?
18	A	Yes, I do.
19	Q	If the Company were to comply with those six
20		conditions, would that satisfy the concerns
21		that you raised in Exhibit 11?
22	A	My concern has to do with Item (e) under that
23		list, which would be the fifth item:
24		"Continuous monitoring for possible hydro

fracture situations shall be provided during the HDD operation."

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3 Again, I think this continuous monitoring 4 has to be someone specifically assigned to just 5 monitor, and not be involved in the actual process. So that that would be their whole 6 7 purpose, is to make sure that procedures are indeed followed as they are outlined. And 8 9 that, if there are any issues that should be 10 developed -- that should develop during the 11 procedure, that they could stop the drilling 12 and assure that things are taken care of in an 13 environmentally sound manner. 14 MR. DEXTER: Thank you. That's all 15 the questions I had. Unless, Ms. Skuly, 16 there's something you'd like to add that I 17 didn't cover? 18 WITNESS SKULY: No.

WIINESS SKULI: NO.

19 CHAIRMAN HONIGBERG: Mr. Husband, do 20 you have any questions for Ms. Skuly?

21 MR. HUSBAND: No thank you. I have 22 no questions.

CHAIRMAN HONIGBERG: Mr. Sheehan? MR. SHEEHAN: Thank you.

1	BY M	R. SHEEHAN:
2	Q	Ms. Skuly, the second tech session we had you
3		were not present.
4	A	Yes.
5	Q	But there were a few gentlemen there from
6		ARLAC, is that correct?
7	A	Right.
8	Q	And if I recall, one of them had a fair amount
9		of experience with the HDD process.
10	A	Correct.
11	Q	I apologize, I don't remember his name.
12	A	That would be Gus Merwin.
13	Q	Last name?
14	A	Merwin, M-e-r-w-i-n.
15	Q	Would it satisfy your concern if the Company
16		simply said to Mr. Merwin "You're welcome to
17		hang around the drilling process, wearing the
18		proper equipment"?
19	A	No.
20	Q	Why not?
21	A	Because that's not someone I mean, he does
22		have a good deal of experience, but this is not
23		his profession at this point in time. And I
24		think it needs to be a professional who is well

1		geared in understanding what's happening.
2		MR. SHEEHAN: I have no further
3		questions.
4		CHAIRMAN HONIGBERG: Commissioner
5		Bailey.
6	BY CI	MSR. BAILEY:
7	Q	If Mr. Merwin had the authority to halt the
8		operations, would that make a difference? Or
9		do you think do you have an environmental
10		firm in mind or
11	A	I don't have a firm in mind. But I don't
12		think I personally don't know exactly how
13		current Mr. Merwin's, you know, information
14		base is. I think it's pretty good. But I
15		would like to see someone who's actively
16		involved with this process, who has a current
17		understanding of the science and the
18		technology, to be overseeing exactly each
19		procedure as it's going along.
20	Q	And would that be somebody from DES or
21	A	No. No, no. It would probably be an engineer,
22		or whoever does, you know, the HDD drilling.
23		But separate from the actual contractor, and
24		separate from Liberty, who would make sure that

1		these procedures are indeed being followed.
2	Q	Have you ever, in your experience with the
3		River Protection Committee, been involved in an
4		HDD drill before?
5	A	We haven't been directly involved. There was a
6		drilling under the river in West Swanzey to put
7		a water pipeline under the river. And that
8		would have been a number of years ago
9		whoosh more than ten.
10	Q	Okay. So, an environmental monitor at that
11		time may or may not
12	A	May or may not have been, right.
13		CMSR. BAILEY: Okay. Thank you.
14		CHAIRMAN HONIGBERG: Commissioner
15		Giaimo.
16		CMSR. GIAIMO: Good afternoon.
17	BY C	MSR. GIAIMO:
18	Q	I'm looking at Exhibit 11.
19	A	Yup.
20	Q	And on the second page, last paragraph: "Given
21		the project's proximity to the river and
22		groundwater".
23	A	Yes.
24	Q	Can you help me out? Is there specific

1		groundwater? Are there specific wells that is
2		at play here? Is it that the water will cycle
3		into wells? Just fill me in a little bit.
4	A	Right. The concern here is this is a very
5		porous material with a high water table, so
6		that they will be drilling through the water
7		table. And any time you go through a water
8		table, there's always the possibility of
9		contamination.

10 Liberty has stated that the drilling is so fast that there's very little possibility, I 11 12 believe this is my understanding anyway, that there is very little possibility of actual 13 14 contamination from the drilling process. And 15 at this point, the drilling process -- the 16 contamination could occur through the leaking 17 of hydraulic fluids or petroleum products through the surface of the land and down into 18 19 the aquifer, which is a high-yield aquifer. 20 So, in my own layman's terms, there could -- it Q 21 could leach into groundwater, groundwater 22 sources in the area. That's the concern? 23 It could, from the top. Sounds like not likely А 24 with the actual drilling, when they penetrate

the water table. Again, that's based on what I 1 2 heard Liberty say. 3 CMSR. GIAIMO: Thank you. CHAIRMAN HONIGBERG: I have no 4 5 questions for Ms. Skuly. 6 Is there anything, in light of the 7 questions you've been asked, that you want to supplement or respond to? 8 WITNESS SKULY: I think not. 9 10 CHAIRMAN HONIGBERG: Well, then thank 11 you for your testimony. You can return to your 12 seat. 13 WITNESS SKULY: Thank you. 14 CHAIRMAN HONIGBERG: Mr. Dexter, I 15 think your witnesses are up next, correct? 16 MR. DEXTER: I believe so. Thank 17 you. 18 CHAIRMAN HONIGBERG: Mr. Patnaude. 19 (Whereupon Paul Kasper and 20 Randall Knepper were duly sworn 21 by the Court Reporter.) 22 CHAIRMAN HONIGBERG: Mr. Dexter. 23 PAUL KASPER, SWORN 24 RANDALL KNEPPER, SWORN

125

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1		DIRECT EXAMINATION
2	BY M	R. DEXTER:
3	Q	Starting with the gentleman closest to me,
4		would you please identify yourself for the
5		record.
6	A	(Knepper) I'm Randy Knepper. I am the Director
7		of Safety for the Public Utilities Commission.
8	Q	And the gentleman to your left, would you do
9		the same.
10	A	(Kasper) My name if Paul Kasper. And I'm the
11		Assistant Director of Safety and Security at
12		the PUC.
13	Q	Mr. Knepper, would you give us a brief
14		description of your educational and
15		professional background please.
16	A	(Knepper) I'm a Registered Engineer for the
17		State of New Hampshire, a Mechanical and Civil
18		degree. I've worked with utilities my entire
19		life, which is probably my working career
20		probably spans over close to 30 years, more or
21		less. Worked with electrical utilities, water
22		utilities, gas utilities. I think I'm familiar
23		with most of the topics that we discussed
24		today.

		[WITNESS PANEL: Kasper Knepper]
1	Q	And, Mr. Kasper, would you do the same please.
2	A	(Kasper) My professional experience has been
3		about 36 years in the electric utility
4		industry, primarily underground systems. I
5		have a Bachelor's degree from Northeastern
6		University in Management Information Systems,
7		and a Master's from Lesley University in
8		Management. I primarily did integrations of
9		systems for the electric world. And at one
10		point, in the year 2000, I went into the
11		consulting world, and I worked for a consulting
12		firm. I did an integration of an electric
13		commuter rail control system with a new train
14		announcement system.
15	Q	And how long have you been with the Public
16		Utilities Commission?
17	A	(Kasper) I've been with the New Hampshire PUC
18		since April 13th, 2018.
19	Q	And is this your first time testifying before
20		the Commission?
21	A	(Kasper) That's correct.
22	Q	I'd like to direct both of your attentions to
23		the document that's been marked as "Exhibit 12"
24		in this proceeding. It's a memorandum from the

i		[WITNESS PANEL: Kasper Knepper]
1		Safety Division concerning the Petition at
2		hand.
3		Mr. Kasper, it indicates that the memo was
4		prepared by you, is that correct?
5	A	(Kasper) That's correct.
6	Q	Do you have any corrections you'd like to make
7		to the memo or updates or anything of that
8		nature?
9	А	(Kasper) Yes, I do. I noticed that there was a
10		typo error. On Page 3, under "Safety Division
11		Staff Review Conclusions and Conditions", it
12		should have read "The Safety Division supports
13		approval of Liberty's petition".
14	Q	So, you would insert the word "supports" after
15		"The Safety Division"?
16	А	(Kasper) Correct.
17	Q	And that would explain why, when I read that
18		sentence earlier, it sounded a little awkward?
19	A	(Kasper) Yes.
20	Q	Mr. Knepper, did you have any role in preparing
21		this memo?
22	A	(Knepper) Yes, I reviewed it, and when Paul was
23		putting it together.
24	Q	And did you give ultimate sign-off on the memo?

	[WITNESS PANEL: Kasper Knepper]
A	(Knepper) Yes, including the typo.
Q	And I'll direct these questions to either one
	of you who would like to answer. Could you
	give us a brief summary of the contents of the
	memo please?
A	(Kasper) After review of Liberty's Petition,
	the conclusion and the conditions we came to
	was that it was primarily to provide an
	additional loop for the gas distribution system
	in Keene. Which is prevalent in the utility
	industry, whether water, electric, gas, to have
	loop schemes. It provides a safer and a more
	reliable service to customers.
	And reading their Petition, it appeared
	that somewhere down the road the West Street
	Bridge in Keene needs to probably be repaired,
	and the gas main going across the West Street
	Bridge probably needs to be replaced. So, it
	certainly looked like a viable option to have a
	loop scheme using the Winchester Street

21 crossing.

A (Knepper) I'd like to add that we also kind of paid heed to the Commission's Order of Notice to just look at the safety function, the safety

	-	[WITNESS PANEL: Kasper Knepper]
1		aspects, and the functional use of the river.
2		And we did not delve too much into
3		environmental issues and energy efficiency, and
4		some of those other things that were discussed
5		today.
6	Q	Earlier I pointed out the six conditions that
7		you recommended in connection with your
8		support. Could you comment on those conditions
9		please?
10	A	(Kasper) Doing research on HDD, and what we
11		actually have a book that we had looked
12		read. And there really is not a firm, I guess,
13		description of how, the conditions to use HDD.
14		But this is a good practicing guideline, which
15		seems to be concurrent with what, you know, you
16		can find through doing research, that there is
17		no federal standard for HDD.
18		But I don't know if
19	Q	Did you want to add something, Mr. Knepper?
20	A	(Knepper) Well, I can go through these, (a)
21		through (f), if that's helpful?
22	Q	Yes.
23	A	(Knepper) So, on Bates Page 003, under the
24		section where it says "Safety Division Staff

		[WITNESS PANEL: Kasper Knepper]
1		ReviewConditions", these are conditions that
2		we would offer to the Commission to consider,
3		if they were to do an approval, to impose some
4		conditions that go with that approval. It's up
5		to the Commission to include these or not.
6		So, the first one, (a), is just to make
7		sure that, you know, if you say you're going to
8		put an 8-inch pipe in, and you're not coming
9		back and put a 40-inch pipe in, or you're not
10		putting it in a different location than what
11		you have petitioned for or shown or have
12		stated. That's a standard condition that we
13		apply with many utilities.
14		The second one is to incorporate the North
15		American Society for Trenchless Technology's
16		Horizontal Directional Drilling Good Practices
17		Guideline, the fourth edition is a 2017
18		edition. When I first started looking at HDD
19		guidelines, at the time I first started doing
20		it, they only had the second edition. And so,
21		this is the latest one that they have. And
22		within that guideline is a lot of areas to look
23		at when you're doing horizontal drilling.
24	Q	Can I interrupt you there for a second, Mr.

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1		Knepper?
2	A	(Knepper) Yes.
3	Q	Is that Practices Guideline (4th edition) that
4		you just referenced, is that the book that
5		Mr. Kasper was just talking about?
6	A	(Knepper) That is the book.
7	Q	And that's the same thing that Mr. Kasper was
8		just referring to?
9	A	(Knepper) Correct.
10	Q	Okay.
11	A	(Knepper) That is the same.
12	Q	Thank you.
13	A	So, because there is no definite standard
14		within our PUC rules about a horizontal
15		directional drilling, and there isn't a lot in
16		Part 192, and considering that as a
17		construction technique, all you have now is
18		best practices. So, there is no standard
19		that's incorporated in any of the regulations.
20		So, we thought it was wise to include that as a
21		condition.
22		In number (c) there, that we wanted to
23		make sure that they will operate and maintain
24		the crossing once it's in there, and that they

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need to conform to the most recent editions of
192. So, if they put a high-density
polyethylene pipe in, and it's of such-and-such
a material, and find out that material later
on, in 15 years, is no good and you have to
replace it, then we would want them to follow
that.

So, Part 192 is -- it's not a standard, it's updated every five years, it's continually being amended by the federal government. And it is a minimal requirement.

12 Under Part (d), we would like Liberty to 13 put above ground markers for identification 14 that there is a pipeline on either side of the 15 river. That is not a requirement within the 16 Safety. You have to do it for transmission 17 lines. But we think this is a distribution 18 line, it makes sense. And it's something that 19 we have required of Liberty to do in other 20 locations.

We also believe that that pipe has to be part of the Underground Damage Prevention System, and so you have to be able to locate it in the future, whether it goes under a river or

under land, so you need some sort of locate -locatability for that pipe. And traditionally, it's done with tracer wire. But we didn't see anything in the Petition that mentioned that.

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5 (e) is something we've already talked 6 about, continuous monitoring during the HDD 7 operation. So, what I mean by that is probably not what other people mean by that, or what the 8 9 Safety Division means is we expect Liberty to 10 have somebody on-site to monitor that when the 11 drilling operation is occurring, because the 12 person is usually on one side of the river, and 13 they can't necessarily see all aspects of it if 14 there were a frac-out to occur. So that can be 15 a Liberty employee. It can be a contractor. 16 But someone should be on-site besides just the 17 driller themselves.

We've done -- we thought that was a good measure to put in, because, if a frac-out is to occur, you want to be able to recognize it as quickly as possible, so that there is minimal disruption to the waters and environmental side effects.
And then (f) is we think that you should

1	have some containment measures so that
2	already set up, if there is a start of
3	something there, if something does occur, I
4	think we've heard on the stand today that they
5	talked about a turbidity curtain would be
6	placed on the sides. The whole idea is to not
7	have to go and wait somewhere else and to wait
8	for that stuff to arrive. If something were to
9	occur, that they could be implemented quickly.

10 Those procedures and what that is all has 11 to be detailed out. And at this point in time, 12 Liberty has not. They probably will, once they 13 select a contractor and use some of the 14 existing practices that are both in the -- that 15 we've recommended, as well as what the 16 contractor has used before.

And then, the last one, you need to have some cleanup procedures implemented, so that, if you do, you need to contact both us, at the PUC, and DES, so that we're aware that the HDD operation is going to begin, and if there was a problem to occur.

23 We may or may not be on-site when this 24 occurs, when the drill is. We may try to be

[WITNESS PANEL: Kasper|Knepper]

		[WIINESS FANEL: Kasper[Knepper]
1		there. But our demands are pretty large.
2		There's a lot of projects going on in the state
3		at the same time, and we have a very small
4		staff. So, we'll try to coordinate to be
5		there. We've been there for other HDD drills,
6		but not all. And we see a very small
7		percentage of the activity that Liberty does on
8		a daily basis.
9		So, those are the clarifications of (a)
10		through (f).
11	Q	You both listened to the testimony of Liberty's
12		witnesses today, is that correct?
13	A	(Knepper) Yes.
14	A	(Kasper) Yes.
15	Q	And do you have any concerns or comments you'd
16		like to make about what you heard this morning?
17	A	(Kasper) I do not, no.
18	A	(Knepper) Yes. Just my only when we looked
19		at the "public need", you'll see it above it on
20		that Page 3, those are the things that we
21		considered as far as "public need". We did not
22		get into analyzing how much gas you need on a
23		design degree day or what the capacity is of
24		the system. We rarely do that on these river

136

## [WITNESS PANEL: Kasper|Knepper]

1 crossings or land crossings. And I don't 2 believe that is kind of what the Commission has 3 asked us to do on this or any other ones in the 4 past.

5 So, we do believe that it will add 6 reliability. We did go and look through 7 Liberty's systems to see how many other towns had river crossings or major rivers that went 8 9 through the cities that either, you know, broke 10 the city into quadrants or bisected it. And we 11 found that there was many in Nashua, 12 Manchester, and Concord.

13 To answer Commissioner Honigberg's 14 question about Concord. It's the Sewalls Falls 15 Bridge, it's the Manchester Street Bridge, and 16 it's the Bridge Street or Loudon Road Bridge 17 where they cross. All those are on bridges 18 themselves. They are not HDD drilled. 19 Q And finally, is this issuing recommendations on 20 river crossings something that your division 21 does on a regular basis? 22 А (Knepper) It seems like so, yes. 23 And based on your experience and based on the Q 24 testimony that you heard from Liberty today,

		[WITNESS PANEL: Kasper Knepper]
1		does that in any way change the recommendation
2		that you put forth in the memo of
3		November 21st?
4	A	(Knepper) No. Paul, do you want to answer?
5	A	(Kasper) No. Just I didn't see anything that,
6		you know, that we have written since I've been
7		here about maybe two other crossings for the
8		electric utilities, that both went under, that
9		were horizontal drilling, under Lake
10		Winnipesaukee. And again, it was to provide,
11		you know, dual feeds to different islands,
12		again, for reliability purposes, and to
13		replace, you know, aging infrastructure. So,
14		it didn't, reading their Petition, just didn't
15		seem anything out of the ordinary.
16		MR. DEXTER: Thank you. That's all
17		the questions I have.
18		CHAIRMAN HONIGBERG: Mr. Husband, do
19		you have questions for the panel?
20		MR. HUSBAND: Thank you. Yes. A few
21		please.
22		CROSS-EXAMINATION
23	BY M	R. HUSBAND:
24	Q	Whichever gentleman has Exhibit 12 handy, and
		{DG 18-092} {11-26-18}

[WITNESS P]	ANEL: Kas	per[Knepper]
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		[wiinepp ikneh. Kaspei [Kneppei]
1		feels qualified to answer this question.
2		Looking at (d) on Page 3, "Liberty shall use
3		above ground pipeline markers". My question
4		is, will any of these markers be required in
5		the Keene park itself that the pipeline is
6		going to run through?
7	A	(Knepper) I'd have to look at the drawing
8		closely to see if it's actually going to fall
9		within the park itself.
10		MR. DEXTER: May I provide the
11		witness exhibits?
12		CHAIRMAN HONIGBERG: Sure, if it
13		would help Mr. Knepper answer the question.
14		(Atty. Dexter handing documents
15		to Witness Knepper.)
16	BY T	HE WITNESS:
17	A	(Knepper) So, a marker is no more than
18		two inches in diameter. So, they're not very
19		large. They're about three feet tall. They
20		will have their typically, they will have
21		Liberty Utilities, their emergency number. And
22		they're typically made of plastic. So that
23		someone has an idea that there is a pipeline
24		there.

[WITNESS PANEL: Kasper | Knepper] 1 Thanks. I was hoping for the screen. 2 CHAIRMAN HONIGBERG: Let's go off the 3 record for a minute. 4 [Brief off-the-record discussion 5 and short pause.] CONTINUED BY THE WITNESS: 6 7 (Knepper) So, it looks like, in that easement А area, to the west side, that could be in the 8 9 I don't know if there's an embankment park. 10 going up to that that includes that easement or 11 not. But we would try to get it as close to the water as possible. And there would be 12 13 another one on the east side, typically, in the embankment as well. 14 15 BY MR. HUSBAND: 16 Q Thank you. Mr. Knepper and Mr. Kasper, both of 17 you were here today for all of the witnesses' 18 testimony, correct? 19 (Kasper) That's correct. А 20 Q And you heard the discussion about redundancy 21 by all the witnesses? 22 (Knepper) That's correct. А 23 Are there feeds -- well, strike that. The Q 24 testimony I believe was that there are feeds in

{DG 18-092} {11-26-18}

		[WITNESS PANEL: Kasper Knepper]
1		Keene that do not that are not redundant,
2		correct?
3	A	(Knepper) Sure.
4	Q	And I believe that the testimony was there's
5		they're currently now only to pockets of
6		customers of less than 107 customers. Is that
7		the testimony you heard?
8	А	(Knepper) That's what I heard from Liberty,
9		yes.
10	Q	Okay. Are you familiar with whether all of the
11		number of customers in Keene that are receiving
12		redundant service at this time?
13	А	(Knepper) I'm not so sure by "redundant
14		service". I'd have to see the system map,
15		probably have to refresh it to look at it.
16		But
17	Q	Well, if
18	А	(Knepper) I mean, there's lots of areas that
19		are radial, radially fed. So, you know, lots
20		of streets that are one-way fed. Not really
21		sure what you're asking.
22	Q	So, lots of streets only have one-way feeds?
23	A	(Knepper) Sure. Even on this, after you cross
24		the river, you're crossing a highway, you

		[WITNESS PANEL: Kasper Knepper]
1		know
2	Q	So, overall, there are a lot of Keene customers
3		that are not now receiving redundant feeds,
4		correct?
5	A	(Knepper) Well, if you look at the majority of
6		the customers, they are looped already within
7		there, if you look on the map that's on the
8		monitor. So, the majority of them are looped.
9		But that you can see that there's ones where
10		they're not.
11	Q	Right. And the PUC does not require redundancy
12		as a necessary part of pipeline planning, does
13		it?
14	A	(Knepper) As a "necessary"? We think it's a
15		good practice. Because one of our overriding
16		statutes is safety and adequacy and
17		reliability, and redundancy is part of the
18		adequacy determination. And so, in any of the
19		utilities that we oversee, we try to meet that.
20		And to do that without having they try to
21		eliminate radial systems whenever they can,
22		depending upon a cost/benefit test.
23	Q	Right. It's a good goal to achieve, but the
24		PUC does not currently have any rules,

		[WITNESS PANEL: Kasper Knepper]
1		regulations, requirements that you're aware of
2		that require all customers to have redundant
3		feeds?
4	A	(Knepper) That's correct.
5	Q	And, in fact, throughout New Hampshire, Liberty
6		has numerous customers that are currently not
7		on not receiving redundant feeds, is that
8		correct?
9	A	(Knepper) Sure.
10	Q	In relation to the West Street crossing, you
11		heard the testimony today. What is your
12		understanding of what the main is on the West
13		Street crossing, what size it is?
14		Well, strike that. Do you have a
15		different understanding than what the testimony
16		was of Liberty today about the size of mains?
17	A	(Knepper) I believe they said West Street
18		crossing is an 8-inch main going across the
19		bridge. That's West Street right now. And
20		there's various sizes on both sides of that.
21		But the crossing of the river itself is with an
22		8-inch main attached to the bridge.
23	Q	And Liberty is proposing a loop feed for the
24		107 customers. Is that what you understand?
		{DG 18-092} {11-26-18}

[WITNESS PANEL: Kasper|Knepper]

1	A	(Knepper) Yes. If you connect Westminster
2		Street to from the propane-air system, and
3		you connect it across the street,
4		CHAIRMAN HONIGBERG: Winchester.
5		WITNESS KNEPPER: What?
6		CHAIRMAN HONIGBERG: Winchester.
7		WITNESS KNEPPER: Winchester, I'm
8		sorry. Did I say "Westminster"? My apologies.
9		Winchester Street.
10	CONT	INUED BY THE WITNESS:
11	A	(Knepper) would form a loop that's not
12		currently there. So, yes. That would form a
13		loop system.
14	BY M	R. HUSBAND:
15	Q	And then, the loop system as proposed, if there
16		is a wouldn't the capacity of 107 customers
17		be limited by the smallest main in that loop?
18	A	(Knepper) So, capacity it's not as simple as
19		that, I guess. So, right? You need to know
20		where your loads are distributed along a
21		distribution system. And so, if you had all
22		your load at the end, then the answer to that
23		is "yes". But, because loads are distributed
24		along the way, the answer is "it's not as

	-	[WITNESS PANEL: Kasper Knepper]
1		simple as that." You usually will run a model.
2		And then it gets even more complex, when you
3		have a loop system, because you get much more
4		capacity out of a loop, even with the smaller
5		pipes, than you do with larger pipes going one
6		way.
7	Q	Would these 107 customers not be at the end of
8		the service with this loop?
9	A	(Knepper) So, I'm not really sure when you say
10		"at the end of the service". So, if I'm
11		looking at the map, I see
12	Q	Well, if I could stop you there. I'm going by
13		what your definition is when you just said "end
14		of service". I believe I'm just adopting your
15		words, if I
16	A	(Knepper) Yes. So, the end of the system, if
17		you had all your load at the end of the system,
18		and you could take your 4-inch pipe, 8-inch
19		pipe, 12-inch pipe, 6-inch pipe, and do
20		hydraulics to determine an equivalent pipe.
21		But, because it's not that way, loads are
22		distributed along the way, you can't just
23		easily do that. And hopefully, Liberty is not
24		doing that.
		[WITNESS PANEL: Kasper Knepper]
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1		And then, when you compound it by putting
2		loops in between where those distributed loads
3		are, your capacity changes, and it usually
4		increases.
5	Q	Do you believe that the 107 customers at issue
6		here are going to receive the full capacity of
7		an 8-inch pipeline?
8	A	(Knepper) I don't know. I did not look at that
9		analysis.
10	Q	And what factors would impact on that analysis?
11	A	(Knepper) What factors would
12	Q	Why might they not receive an 8-inch pipeline
13		worth of capacity?
14	A	(Knepper) I don't know, I don't view it the way
15		you're asking the question. It's really not
16		that important to me whether they put a 6-inch
17		pipe, a 12-inch pipe, an 8-inch pipe, it really
18		doesn't matter to me as to what the capacity
19		is. It's up to Liberty to determine what the
20		incremental capacity to gain is by putting
21		those in. I'm guessing it's going to be very
22		small, because, when you look at that short
23		length of pipe, 700 feet, over something that
24		is, you know, thousands of feet, it's probably

{DG 18-092} {11-26-18}

		[WITNESS PANEL: Kasper Knepper]
1		not going to be that great of an impact.
2		But I can't say I've done the analysis,
3		because I haven't done that kind of a
4		calculation.
5	Q	That wasn't part of your job in relation to
6		this project?
7	A	(Knepper) No. And, in fact, I rarely do that
8		here at the Commission for any of the projects.
9		We would only do something like that if we felt
10		that the project was millions and millions and
11		millions of dollars and required that kind of
12		review, and the Commission would ask us to do
13		that kind of review, so that there was some
14		sort of they felt some sort of comfort in
15		doing that.
16		But we're not staffed to be able to review
17		every piece of pipe that's put in by Liberty
18		Utilities, or any other utility, in terms of
19		network modeling.
20		MR. HUSBAND: No. Thank you. I
21		understand. I just wanted to confirm that.
22		I have no further questions.
23		CHAIRMAN HONIGBERG: Ms. Skuly, do
24		you have questions for the panel?

Kasper | Knepper] [WITNESS PANEL: 1 MS. SKULY: Yes, I do. 2 BY MS. SKULY: 3 Mr. Knepper, in October -- well, Liberty 0 Utilities is currently attempting to phase out 4 5 propane and move to natural gas. So, 6 October 3rd, the Safety Committee provided a 7 report regarding Phase 1 of that project. And attached to that report was a possible 8 violation and a fine. Could you describe the 9 10 circumstances surrounding the fine? (Knepper) So, I'm quite familiar with the fine, 11 А 12 because I wrote it. And it was attached as an 13 appendix to the October 3rd report. But it had 14 to do with pressure testing the compressed 15 natural gas piping that they had installed from 16 the compression skid up to I'd say a fence 17 line, I guess, is where it stops now. There is 18 no compressed natural gas that goes into the distribution system right now. It goes up to a 19 20 valve that's closed. 21 So, that Notice of Probable Violation was 22 written when we reviewed the procedures that

followed, and found that there was many

23

24

{DG 18-092} {11-26-18}

Liberty had spec'd out and to see if they were

1	instances that they did not follow the
2	procedure. The procedure was very specific.
3	It was unusual for Liberty. It's much more
4	specific than their typical ones. And so, it
5	required a lot of other things that they
6	typically don't do. And we found that they
7	didn't do some of those, those requirements.
8	That being said, we also checked it
9	against the federal minimum regulations, and it
10	did meet the pressure testing regulations set
11	by the federal government. So, if but we
12	hold them to the standard of what they write,
13	what they memorialize, what they say. That's
14	what they should be doing.
15	MS. SKULY: Thank you.
16	CHAIRMAN HONIGBERG: That's it?
17	Mr. Sheehan, you have questions for the panel?
18	MR. SHEEHAN: Just a couple. Thank
19	you.
20	BY MR. SHEEHAN:
21	Q Part of Mr. Mills' testimony described what we
22	have called "Option A" and "Option B", which
23	are the two routes the pipe could take from the
24	same regulator pits. Does the Safety Division

[WITNESS PANEL: Kasper|Knepper]

1		have let me back up. And what Mr. Mills
2		testified to was, if the Company could not get
3		an easement for Option A, and had to straighten
4		the path slightly to install Option B, would
5		that change the Staff's Safety Division
6		recommendation if we had to move to Option B?
7	A	(Knepper) It does not, for me.
8	A	(Kasper) It just may require to take a closer
9		look at Option B.
10	Q	In response to ARLAC's request for someone to
11		monitor the drill itself, as I think Mr.
12		Knepper testified, certainly, the contractor
13		doing the HDD will be present, and certainly a
14		Liberty employee will be present, or so you've
15		recommended to make sure that a Liberty
16		employee would be present. Isn't it also true,
17		as you suggested, your staff may be there, may
18		not be there, but that's a possibility as well,
19		correct?
20	A	(Knepper) It's possible. But we would have to,
21		you know, be coordinated ahead of time. We'd
22		have to know the date and time. Often these
23		things don't occur on the dates that they say
24		that they're going to happen. And so, a lot of
	R	

		[WITNESS PANEL: Kasper Knepper]
1		times we don't get out there when that occurs.
2		And so, our job is not to hold up construction,
3		our job is to observe it when we can.
4		But, you know, we have to be in 50
5		communities. There's different activities
6		going on all the time. And we're kind of
7		picking and choosing what we can get to.
8	Q	And the last question, there's been some
9		discussion about, generally, about pipelines
10		crossing rivers on bridges and pipelines
11		crossing beneath rivers, and there's certainly
12		been examples of both. Is there a preference
13		from the Safety Division whether a river
14		crossing should be done on a bridge or under
15		river, all things being equal?
16	A	(Knepper) I don't think it's up for us to
17		determine what the method is that someone uses.
18		They all have their benefits, and there are
19		also disadvantages. If you're on a bridge,
20		you'd have more environmental checks, corrosion
21		checks later. You have to make sure that the
22		loadings are okay, make sure the rollers are
23		still aligned. You've got to make sure your
24		coatings are not degraded, things like that.

	[WITNESS PANEL: Kasper Knepper]
1	They're also harder to get at to look at
2	sometimes, depending upon the bridge itself and
3	the span.
4	Horizontal drilling is used mostly because
5	they take away of the environmental aspects.
6	They don't have to get wetland permits, as
7	we've heard from before. That the DES tends to
8	prefer that. And a lot of people use it
9	because it's a quicker way of doing things.
10	Horizontal drilling tends to also be probably
11	more expensive, because it's not somebody that
12	they just have on staff. They have go out and
13	hire people, go out and get bids and all that.
14	So, there's a lot of pluses and minuses.
15	I'm not sure if there's any one way that we
16	prefer. I think it's up to the company.
17	MR. SHEEHAN: Okay. Thank you.
18	That's all I have.
19	CHAIRMAN HONIGBERG: Commissioner
20	Bailey.
21	BY CMSR. BAILEY:
22	Q Mr. Knepper, have you observed a HDD operation?
23	A (Knepper) Yes.
24	Q Many times?

[WITNESS PANEL: Kasper|Knepper]

1	A	(Knepper) Yes.
2	Q	Is it usual that there's an environmental
3		engineer, separate and apart from the company
4		or the PUC Staff, that's monitoring these
5		operations?
6	A	(Knepper) It's I'm sorry, say that again.
7	Q	Have you observed I'll change the question.
8		Have you observed a separate environmental
9		engineer present at these kinds of operations?
10	A	(Knepper) Most of the time we have not.
11	Q	Okay. Have you ever?
12	A	(Knepper) On the job sites that we've been out
13		to, we have not seen that.
14		CMSR. BAILEY: Okay. Thank you.
15		That's all I have.
16		CHAIRMAN HONIGBERG: Commissioner
17		Giaimo.
18		CMSR. GIAIMO: Just one question
19		following up on that.
20	BY CI	MSR. GIAIMO:
21	Q	So, given your limited resources, do you
22		endorse what I think is Ms. Skuly's
23		recommendation, that a third party, an
24		independent environmental consultant, with

		[WITNESS PANEL: Kasper Knepper]
1		requisite hydraulic and drilling expertise, to
2		make sure that everything goes properly, and to
3		be present to monitor the drilling process?
4	A	(Knepper) Well, it all depends on if they have
5		the authority to enforce things or not, people,
6		typically, listening to people who have the
7		authority to enforce things. So, I think
8		that's dependent. I don't know if they have to
9		be an environmental engineer or not.
10		I'd want someone at least there present.
11		So, when somebody is doing the operation,
12		someone can say "hey, this isn't going the way
13		it's supposed to. Just we're seeing some
14		fracking out, some bubbling occurring."
15		We witnessed quite a few HDD drills when
16		UNH was putting their 14-mile line in. I'd say
17		about a good two or three miles of that was
18		horizontally drilled. So, they went underneath
19		highways, they went under rivers, they went
20		under wetlands, long drills. This is a very
21		short drill. This shouldn't take very long.
22		I just think somebody should be present
23		on-site. It's a condition that we haven't put
24		on others. But, given the hearing, we thought

		[WITNESS PANEL: Kasper Knepper]
1		it was a good a good condition that we could
2		apply here. What the qualifications of that
3		individual are, I'm not so sure.
4	Q	Do you have any idea how long it would take, I
5		thought I heard something earlier, but do you
6		have any idea how long the 700-foot that's
7		the right length, correct, 700-foot drill would
8		take? How long it would take?
9	A	(Knepper) I'm guessing, two days tops. So, the
10		other remaining part of the days are to do, you
11		know, you have to dig your vaults, you have to
12		do tie-ins, you do the other aspects of it,
13		some of it's prepping.
14		But, if you're actually talking about when
15		the actual drill is going through, I thinking
16		it can probably be done, but it all depends on
17		what you hit, right? So, if you hit some rock
18		in between, now all of a sudden your two days
19		has turned into ten days.
20	Q	Okay. So, being a half glass half-full sort
21		of person right now, what I thought I heard you
22		say earlier was that you would be amenable, to
23		the extent that you had resources, to
24		coordinate with the Company to be there to the

1		extent possible. Is that accurate?
2	A	(Knepper) If it fits into our schedule, we
3		would try to. But we may be away, training in
4		Oklahoma or something and not available.
5		There's a lot of things that come up that we're
6		just not there. And the Commission can always
7		ask us to be on-site as well.
8		CMSR. GIAIMO: Okay. Thank you.
9	BY CI	HAIRMAN HONIGBERG:
10	Q	A number of people have alluded to the
11		qualifications of someone who could provide
12		continuous monitoring. And you, yourself, I
13		think, Mr. Knepper, just said you don't know
14		what the qualifications should be. But what
15		does a person need to know? What do they need
16		to be able to identify? If you told me to go
17		out and monitor that, I wouldn't even know what
18		I was looking at.
19		So, what would someone need to know to
20		monitor this appropriately?
21	A	(Knepper) So, typically, we're going to look at
22		the procedure, we're going to review the
23		procedure with the operator. You would look to
24		see what his expectations are. You look to see

what his drilling profile that he's entered in.
You look to see what his expectation is before
it goes along. And you have discussions while
you're there on-site. And it's slow. You
know, you're giving up a day of your time
watching this thing going on there.

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And most of the time, their accuracies are pretty good. They can come out to, you know, they project a spot in the floor, and they will come out, you know, within inches of where they said they were going to be. So, it's usually pretty good.

The concerns that I would have on this 13 14 project is, I want to make sure that the other 15 utilities are clearly identified so that 16 they're not hit. And that those clearances 17 are -- that they're actually, you know, what 18 they say they're going to be. And also, we'd 19 probably go back and look at the logs 20 themselves of the -- the boring logs that they 21 have done and things like that. 22 And that was helpful. But I want to go back Q 23 to, what qualifications or knowledge base does 24 the person need to have to be able to monitor

	-	[WITNESS PANEL: Kasper Knepper]
1		this appropriately?
2	A	(Knepper) You know, I can't tell you that there
3		is a set of criteria that I can point to, you
4		know. We've done it ourselves. Are we
5		qualified to do it? We do it, because it's
6		part of the construction that we're overseeing.
7		We, and up in Loudon, when they were working up
8		on 106, they had to cross two river crossings.
9		We've done it we do it every day for when
10		they cross driveways, and just crossing streets
11		they do horizontal drilling. So, it's not
12		something that we're I wouldn't say we've
13		gone to school and studied for it. There are
14		no qualifications.
15	Q	Well, but I accept the premise of what you're
16		saying, that you and other members of the
17		Safety Division are qualified. I think, for
18		the most part, I think we would all agree with
19		that. But there's a lot of other people who
20		work at the Commission, most of whom do not
21		have your background and experience, or the
22		experience of the people in the Safety
23		Division. And I doubt we would want to send an
24		auditor, or someone from the Business Office,

	-	[WITNESS PANEL: Kasper Knepper]
1		or one of the lawyers, who know nothing about
2		anything practical.
3		So, again, I mean, if we're going to go
4		outside the Commission, and outside the
5		Company, do we need to get someone with
6		particular qualifications? Or, alternatively,
7		would we be better off saying to the Company
8		"you are responsible for this, and for having
9		someone with the proper qualifications on-site,
10		at all times, with the independent authority to
11		stop things"?
12	A	(Knepper) I think the latter is the way to go.
13	Q	All right. A different topic, and I think this
14		is going to be for you, Mr. Kasper, because I
15		think the question was directed to you and you
16		answered it: "What would happen if the Company
17		said "Option B looks like the better option"?"
18		And you said you'd "need to take a closer look
19		at Option B." Can you be a little bit more
20		specific about what you would do that you
21		haven't already done, if Option B became the
22		operative approach?
23	A	(Kasper) I guess I would want to take a closer
24		look at the drawing, and just to see, because
		{DG 18-092} {11-26-18}

		[WITNESS PANEL: Kasper Knepper]
1		it is going under that wing. I concentrated -
2		when I wrote this, I concentrated on Option A.
3	Q	When did you become aware of Option B?
4	A	(Kasper) The last tech session, was what,
5		November 8th, I believe, they talked of Option
6		B. But there was no specific at that time.
7	Q	So, is this the first time you've seen the
8		schematics of it?
9	A	(Kasper) That I've really started to look at
10		Option B.
11		CHAIRMAN HONIGBERG: Okay. And I
12		don't have anything else.
13		Mr. Dexter, do you have anything
14		further for the panel?
15		MR. DEXTER: Yes. I'd like to ask a
16		follow-up question.
17		REDIRECT EXAMINATION
18	вү М	R. DEXTER:
19	Q	Mr. Kasper, if you were to go back to the
20		office and look at the drawings that have been
21		submitted for Option B, how long do you think
22		it would take you to make any revisions, if
23		any, to your memo that was submitted?

A (Kasper) Probably maybe a couple of days, just,

24

1	you know, a day to look at it.
2	MR. DEXTER: I don't know what the
3	appropriate format would be for that. But I
4	think it would be helpful if Mr. Kasper were
5	given that opportunity. Maybe we could reserve
6	an exhibit for either an updated memo or a
7	statement that he reaffirms the original memo.
8	CHAIRMAN HONIGBERG: I agree with
9	that. Mr. Sheehan, I think you probably agree
10	with that, too.
11	What we're going to do is set aside
12	Exhibit 13?
13	MS. DENO: Yes.
14	CHAIRMAN HONIGBERG: For a record
15	request from Mr. Kasper, or Mr. Knepper,
16	someone from the Safety Division, to provide
17	information or a recommendation regarding
18	Option B.
19	(Exhibit 13 reserved)
20	MR. DEXTER: Thank you. That's all I
21	have.
22	CHAIRMAN HONIGBERG: All right. I
23	think that's the last of the witnesses. So, I
24	think you gentlemen can return to your seats,

1 or stay there, if you prefer. 2 With the exception of Exhibit 13, I 3 think we're ready to strike ID on Exhibits 1 4 through 12. I will note that the proposed 5 exhibit list that we were given, once you get 6 past 7, doesn't actually match up with the way 7 they were marked. So, I think the proposed exhibit list is not an official document. 8 The 9 exhibits are what the exhibits are as they were 10 marked and identified. So, 1 through 12 are 11 in, and we're waiting to get 13 from the Safety 12 Division. 13 Is there anything else we need to 14 do -- well, actually, there is one thing I want 15 to do, since we're a hearing on the merits. 16 Are there any members of the public here who 17 wish to provide public comment? 18 [No verbal response.] 19 CHAIRMAN HONIGBERG: All right. So, 20 with that, I think the last thing to do is have 21 the parties sum up. We will go in the 22 following order: We'll go Mr. Husband, 23 Ms. Skuly, Mr. Dexter, and then Mr. Sheehan. 24 Mr. Husband, why don't you start us

1	off.
2	MR. HUSBAND: Thank you very much,
3	Mr. Chairman.
4	[Court reporter interruption.]
5	MR. HUSBAND: Sorry about that.
6	Thank you, everyone, for allowing us to come in
7	here, and you spent your whole day on this, and
8	we really appreciate that.
9	Obviously, from what I've submitted
10	in the testimony that we've presented, you can
11	understand that Mr. Clark's position is that
12	this proposed new pipeline crossing is not
13	necessary, it doesn't meet the standards.
14	There are definitely alternatives that could be
15	undertaken. We've discussed the weatherization
16	and energy efficiency one. Today there are
17	other things that could be looked at, it sounds
18	like they haven't been. There is also really a
19	derth of evidence showing that there is any
20	need to repair or replace this pipeline.
21	So, while I do thank Liberty for its
22	time and assisting us in understanding what it
23	is doing through the discovery process here,
24	Mr. Clark does take exception to the claim that

1 there is a necessity for this pipeline, 2 does not believe that the standards hav 3 met to approve the Petition in this pro 4 CHAIRMAN HONIGBERG: Thank yo 5 Husband. Ms. Skuly.	, and ve been oceeding. ou, Mr.
2 does not believe that the standards hav 3 met to approve the Petition in this pro 4 CHAIRMAN HONIGBERG: Thank yo 5 Husband. Ms. Skuly.	ve been oceeding. ou, Mr.
<ul> <li>3 met to approve the Petition in this pro</li> <li>4 CHAIRMAN HONIGBERG: Thank yo</li> <li>5 Husband. Ms. Skuly.</li> </ul>	oceeding. ou, Mr.
<ul> <li>4 CHAIRMAN HONIGBERG: Thank yo</li> <li>5 Husband. Ms. Skuly.</li> </ul>	ou, Mr.
5 Husband. Ms. Skuly.	
6 MS. SKULY: Yes. I would lik	ke to
7 thank you for the opportunity to provid	de input
8 during this hearing. I also want to th	hank the
9 Safety Division for their recommendation	ons,
10 which I think are quite applicable and	strong.
11 Again, given the history of t	che
12 Company, I would reinforce the need for	r the
13 monitoring, a person dedicated simply t	20
14 monitor and not be involved in the actu	lal
15 drilling.	
16 CHAIRMAN HONIGBERG: Thank yo	ou,
17 Ms. Skuly. Mr. Dexter.	
18 MR. DEXTER: Thank you. Staf	Ef
19 supports the proposing the crossing	as
20 proposed, with the caveat that the Safe	ety
21 Division will take a closer look at Opt	cion B
and comment on that in what's going to	be
23 Exhibit 13.	
24 The Safety Division has testi	ified

1 that the justifications for the need for the project, including the redundancy to the 2 3 particular neighborhood, is sound engineering 4 practices and typical in gas utility planning. 5 There has been testimony that the 6 pipe will not interfere with the safe use of 7 the river or enjoyment of the river during the construction or after. 8 9 And for those reasons, Staff supports 10 the Petition. 11 CHAIRMAN HONIGBERG: Thank you, 12 Mr. Dexter. Mr. Sheehan. 13 MR. SHEEHAN: Thank you. The Company 14 also thanks the participants for a -- although 15 a contested, a cordial process. 16 We believe we have satisfied the 17 requirements as set out in the statute. But, 18 as we find in the recent order in this docket, 19 that we have to show -- address the issues of 20 public safety and public functional use, along 21 with the need. The need is clearly satisfied by the redundancy issue. 22 23 And second, it is satisfied by the 24 better way of repairing the Bridge [West?]

Street Bridge when that time comes. No one contests that there's a 50 year-old pipe on that bridge that should be repaired before it fails, not after. And this repair will be much easier with the redundancy. But, again, that's only the secondary issue. So, we've satisfied the "need" requirement.

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We've also shown, by the distance 8 9 that the drilling pits will be from the river, 10 and the fact there will be no disturbance of 11 the ground between each drilling pit. That 12 there will be no interaction with the public, 13 except for some minor traffic issues where 14 those pits are, as Mr. Rokes described. And 15 so, there's no hinderance of the public 16 functional use of the area.

17 As far as public safety, I guess we 18 could call the monitor in a public safety 19 context, although it's not quite public safety, 20 but it's certainly close. We respectfully push 21 back a little on the need for an independent 22 monitor. It's an extra cost to the project. 23 And it is a precedent that shouldn't be applied 24 to crossings.

1 We have no objection to the 2 conditions the Safety Division recommended. 3 They do recommend a person designated to 4 monitor. And whether it's Mr. Mills, or 5 somebody from the Company who is knowledgeable, 6 who has clear authority to stop things if they 7 go awry, should be sufficient. Remember that it is in the Company's 8 9 very strong interest to make sure this goes 10 well. And if there's any hint of a problem 11 during the process, we will be the first to 12 stop and make the appropriate calls and take 13 the appropriate actions. The last thing we 14 need is a problem with this project, or any 15 project like this. 16 So, with that being said, we ask 17 that -- and the final request is that you 18 approve both Option A and Option B, pending 19 Staff's update in Exhibit 13, so that, should 20 we need Option B, we don't have to return here. With that, we ask that you approve 21 22 the Petition as filed, with Option B included. 23 CHAIRMAN HONIGBERG: All right. 24 Thank you very much, Mr. Sheehan.

1	With that, we will close the record,
2	with the exception of Exhibit 13, adjourn the
3	hearing, and take the matter under advisement.
4	(Whereupon the hearing was
5	adjourned at 3:19 p.m.)
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