STATE OF NEW HAMPSHIRE 1 2 SITE EVALUATION COMMITTEE 3 September 20, 2018 - 1:20 p.m. DAY 5 4 49 Donovan Street Afternoon Session ONLY Concord, New Hampshire 5 {Electronically filed with SEC 10-04-18} 6 7 IN RE: SEC DOCKET NO. 2015-04 Application of Public Service 8 Company of New Hampshire, d/b/a Eversource Energy, for a Certificate of Site and 9 Facility. 10 (Adjudicative Hearing) 11 PRESENT FOR SUBCOMMITTEE/SITE EVALUATION COMMITTEE: 12 Patricia Weathersby Public Member (Presiding Officer) 13 14 Public Utilities Commission David Shulock, Esq. Elizabeth Muzzey, Dir. Div. of Historic Resources 15 Charles Schmidt, Admin. Dept. of Transportation Christopher Way, Dep.Dir. Div. of Economic Dev. 16 Michael Fitzgerald, Dir. Dept. of Env. Services Public Member Susan Duprey 17 ALSO PRESENT FOR THE SEC: 18 19 Michael J. Iacopino, Esq., Counsel for SEC (Brennan, Lenehan, Iacopino & Hickey) 20 Pamela G. Monroe, SEC Administrator 21 (No Appearances Taken) 22 23 Susan J. Robidas, LCR No. 44 COURT REPORTER: 24

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2 1 2 INDEX 3 WITNESS PANEL: KURT NELSON 4 SARAH ALLEN 5 (Resumed) ANN PEMBROKE DR. CRAIG SWANSON BJORN BJORKMAN 6 7 8 9 PAGE 10 CROSS-EXAMINATION BY: 3 11 Ms. Ludtke 12 Ms. Mackie 53 13 Ms. Brown 68 14 Mr. Richardson 95 Mr. Aslin 161 15 16 17 18 EXHIBITS PAGE **JCT 18** 7/11/18 Letter from 99 19 Mr. Crowley 20 **JCT 19** Photographs 155 21 22 (NOTE: OTHER EXHIBITS REFERRED TO WERE PREMARKED) 23 24

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PROCEEDINGS 1 2 (Hearing resumed at 1:20 p.m.) PRESIDING OFFICER WEATHERSBY: Okay. 3 Ms. Ludtke, you may continue. 4 5 CROSS-EXAMINATION (CONT'D) BY MS. LUDTKE: 6 7 Good afternoon. My last line of questioning 0. before we broke for lunch involved the 8 frequency of IRs, inadvertent return 9 10 frack-outs. And I found the site I was 11 looking for, and it's on Page 29 of the Horizontal Directional Drilling and Jet Plow 12 Report, Exhibit 133, second paragraph. 13 And 14 it says, "Despite design and construction 15 controls, IRs occur regularly in the HDD 16 industry." And my question involved the 17 frequency of IRs versus the frequency of 18 large IRs. Do you have any information on 19 that? 20 (Allen) I am not able to give you specifics Α. 21 on that. 22 And another question I had involved the 0. 23 sentence that came immediately before that, which says, "In addition, the contractor 24 {SEC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1		would be required to monitor and control
2		downhole drill fluid pressures during
3		drilling." And my question and again,
4		this is probably one for the Construction
5		Panel but wouldn't the monitoring control
6		the release so that it wouldn't be a
7		prolonged release?
8	A.	(Allen) Again, that's a question for the
9		Construction Panel. But I can tell you he
10		will say "not always." That's as far as I'll
11		take it.
12	Q.	So when you're saying "not always," what do
13		you know that would lead you to make that
14		statement?
15	A.	(Allen) I've just heard him. In the course
16		of talking this through from our perspective,
17		he has said that large releases happen, and
18		they're not always detected until they start
19		breaking through the surface.
20	Q.	And in the materials that were provided, this
21		directional drilling report, your
22		testimony Ms. Pembroke's testimony, there
23		was quite a bit of discussion about the risk
24		of an inadvertent return. And are you aware
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1		if that if any attempt has been made to
2		quantify the risk, to say there's a
3		5 percent, 10 percent, 50 percent chance of a
4		risk of a horizontal directional drill on
5		Little Bay?
6	Α.	(Nelson) I believe within the HDD technical
7		report there was a figure that was provided
8		by our HDD expert that showed a cross-section
9		with some I guess it is Figure 9 some
10		probabilities. I don't know if that number
11		can be quantified into a probability
12		percentage of whether there would or would
13		not be an IR in Little Bay. Again, questions
14		best posed to the Construction Panel and the
15		HDD expert.
16	Q.	Well, some probability could be from
17		1 percent to 80 percent, and there would be a
18		big difference between them.
19	A.	(Nelson) Correct.
20	Q.	Would you need to do additional work to
21		quantify the probability of a risk of an IR
22		in a horizontal directional drill?
23	A.	(Nelson) If one were to do an HDD, there
24		would be additional analysis that would be
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1		done, yes.
2	Q.	And would bedrock core drillings be useful in
3		assessing the probability of an HDD of an
4		inadvertent return?
5	A.	(Nelson) That's my understanding.
6	Q.	So, based on the information that is
7		available right now, is it possible to say
8		that an inadvertent return would be likely or
9		unlikely?
10	Α.	(Nelson) I don't believe we're poised to
11		answer that question.
12	Q.	So your testimony is, at this moment you
13		can't testify that in a horizontal
14		directional drill, that an inadvertent return
15		would be likely, and you can't testify it
16		would be unlikely.
17	A.	(Nelson) Yeah, that's correct.
18	Q.	That's correct.
19		Now, what I'd like to do is wrap up on
20		the horizontal directional drill comparison
21		to jet plowing. And in reading that report,
22		and in reading the testimony provided by Ms.
23		Pembroke and the Environmental Panel, I get
24		some sort of mixed conclusions. One
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1		conclusion seems to be that, absent an
2		inadvertent return, horizontal directional
3		drilling would have essentially no
4		environmental impact or no adverse
5		environmental impact on Little Bay. Do you
6		agree with that or not?
7	A.	(Pembroke) Yes, we've stated that several
8		times today.
9	Q.	I think there's also been statements made
10		that the impact, even absent an inadvertent
11		return of a horizontal directional drill, is
12		temporary and short duration, similar to jet
13		plowing. So what I'm trying to clarify is
14		whether your answer would be, no, there is
15		not an impact, or there is a temporary
16		impact.
17	A.	(Pembroke) Well, as indicated in the report,
18		the investigations, the geophysical
19		investigations that need to take place prior
20		to finalizing the design would have minor
21		temporary impact to Little Bay.
22	Q.	Well, I can represent to you that the expert
23		for the Counsel for the Public prepared a
24		chart. And his testimony and I'm sorry.
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1		I don't have an exhibit number for his
2		testimony, but it was Page 7 of his
3		supplemental testimony. And he described the
4		impacts of a horizontal directional drill on
5		essentially the ecology and water quality in
6		Little Bay as "none." Do you agree with
7		that?
8	A.	(Pembroke) The actual drilling process
9		itself, absent an inadvertent return, I would
10		agree with that.
11	Q.	Thank you.
12		Now I wanted to turn a little bit to
13		sediments and hand jetting. And that's the
14		RPS report, which is Exhibit 104. And I'm
15		going to read you something out of that
16		report. I have a clean copy here if you want
17		to take a look at the report. But I'll read
18		you what I'm interested in. And it's the RPS
19		report, Exhibit 104, Page 38.
20	A.	(Swanson) I have it.
21	Q.	I'll just read the sentence and you may not
22		have to look at it. The sentence I'm going
23		to ask you about says, "These sediments can
24		continue to resuspend when the bottom stress
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	exceeds the critical sheer stress, (e.g.,
	high current velocities) during subsequent
	tidal cycles."
	And the question I have is: The
	resuspension of the sediments that is
	referenced in that sentence, would that occur
	outside of the three-day window you were
	referring to?
А.	(Swanson) No. No, the calculation we showed
	was that by after three days, the material is
	so dispersed, that you're not going to see it
	in a sense that it
Q.	The question would be
	(Court Reporter interrupts.)
А.	(Swanson) in a sense that it could be
	resuspended.
Q.	So the suspended/resuspended plume that
	exists in that three-day period deposits fine
	sediments in a dispersed area; is that
	correct?
Α.	(Swanson) Yes, it does.
Q.	And when those sediments are deposited in a
	dispersed area, they aren't subject to any
	resuspension because of this critical shear
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	Q. A. Q. A.

1		stress?
2	Α.	(Swanson) Yes, exactly. After a while, these
3		sediments will longer resuspend because
4		they've ended up in an area where they have
5		deposited. And the shear stress due to the
6		currents is insufficient to resuspend them
7		for another time.
8	Q.	But that's only when they end up in an area
9		that isn't subject to the critical shear
10		stress.
11	Α.	(Swanson) Exactly. And that's where it
12		showed it took maybe up to three days to find
13		that.
14	Q.	And you are confident that all the suspended
15		and resuspended sediments will ultimately be
16		deposited in an area that would not be
17		subject to any more critical shear stress.
18	Α.	(Swanson) Based on the tidal conditions that
19		we used, which were spring tides. So that
20		would be higher velocities than would be seen
21		typically. I can't say never. But based on
22		those calculations with higher than normal
23		speeds, they have then found a location where
24		they would no longer be resuspended.
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1	Q.	And you say that's a conservative estimate
2		because with lower tide speeds they would be
3		less likely to be deposited in an area
4		subject to this critical shear stress.
5	A.	(Swanson) Right. And also the resuspension
6		calculation that we used does not account for
7		all of the potential processes that were
8		occurring. It was more of a general
9		determination of material that lands on the
10		bottom and then can be resuspended relatively
11		easily. So we're not including the concept
12		of consolidation, where if the material
13		lands, ultimately it's going to dewater to an
14		extent. And when it starts to dewater, it's
15		not going to be as easily subject to
16		resuspension. We did not include that
17		process in the calculation we did. So,
18		again, it becomes a conservative estimate.
19	Q.	And would these estimates also apply to the
20		sediment produced by hand jetting operation?
21	A.	(Swanson) Yes. But you have to remember that
22		most of the sediments generated by the hand
23		jetting are retained inside the silt curtain,
24		so it's only a relatively small fraction that
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exits. 1 But they're only retained when silt curtains 2 Q. 3 are used. (Swanson) Right, right. And those that 4 Α. aren't retained, the model then addresses 5 them in the same way that it addresses the 6 7 jetting particles. And the areas where silt curtains are not 8 0. used for hand jetting are areas where the 9 10 currents are too strong to use silt curtains; 11 correct? 12 (Swanson) I believe that's the case, yes. Ι Α. was given that information from the 13 14 Normandeau people. 15 Q. And were those currents for the hand jetting 16 siltation incorporated in your model to 17 determine the dispersion of sediments from the hand jetting areas? 18 19 Α. (Swanson) To the extent that we had done the 20 hydrodynamics using the spring tide. So 21 wherever the areas had silt curtains, they 22 were subject to the same velocities as 23 those -- or if there were no silt curtains there, because the silt curtains in theory 24 {SEC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1 allow some flow through them, they just trap the silt --2 Well, you just testified that the areas 3 Q. without the silt curtains are the areas that 4 5 are subject to the highest, strongest currents. And wouldn't the currents in those 6 7 areas also have an impact on the dispersion of sediments from that? 8 (Swanson) Yes, they would. 9 Α. In fact, I believe the load -- and I could 10 0. 11 get you the specifics. But my recollection on the load is that it's over 50 percent on 12 hand jetting. 13 (Swanson) On hand jetting without silt 14 Α. 15 curtains, that was the --16 So that's a relatively high amount of Q. 17 sediments that then is released to an area with very strong currents. 18 19 Α. (Swanson) Correct. 20 And those currents, and the impact of those 0. 21 currents on your dispersion model, hasn't 22 been modeled itself from that particular area 23 of hand jetting without silt curtains. (Swanson) No. We actually did do the 24 Α. {SEC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1		simulation of the entire hand jetting
2		locations on the west side and on the east
3		side.
4	Q.	And you did the model without using the silt
5		curtains or with using it?
6	Α.	(Swanson) In the areas that we were told
7		there were no silt curtains, that's what we
8		did. And then where there were silt
9		curtains, that's what we did. Essentially,
10		that means that the mobilization rate to get
11		into the water column and move is different
12		when there are silt curtains versus when
13		there are not.
14	Q.	And did you specifically characterize the
15		type of sediments that would be impacted in
16		the hand jetting operations?
17	A.	(Swanson) Yes. There were vibracores done
18		along the entire route. That included both
19		the jet plowing, as well as the diver
20		jetting.
21	Q.	And I have an exhibit here. It's marked CLF
22		Exhibit 17. And I'm going to put it up. And
23		what I really need on this is just an
24		explanation of what these numbers mean, in
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1		terms of I think it is entitled, "Distance
2		of Sediment Sampling Location From Each
3		Proposed Cable." And if you could look at it
4		and tell me what those numbers mean on that.
5	A.	(Swanson) This is your table, not anything
6		from my report?
7	Q.	This I believe was produced in response to a
8		record request made by Conservation Law
9		Foundation. You don't have to answer it. If
10		anyone on the Environmental Panel knows
11	A.	(Allen) I think we, Normandeau, developed
12		this figure, and I believe it's referring
13		to if you look at the first three numbers,
14		Cl north, Cl middle, and Cl south are
15		referring to the three cables. The 3.2 south
16		means that the core was 3.2 I sure hope
17		it's feet south
18	Q.	Well, that was my question. It's not
19		identified. There's no measurements.
20	A.	(Allen) Yeah, I'm quite certain it's feet
21		south of the C1 north vibracore spot.
22	Q.	So that is intended to the 3.2 is a
23		measurement in feet
24	A.	(Pembroke) Yes.
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1	Q.	on the sampling location?
2	Α.	(Pembroke) Yes.
3	Q.	So looking down this chart, I see C7 and C8,
4		both which are north, and then there's C2.
5		Those are in the range of 50 or more feet
6		away from the cable location. Would that be
7		a correct interpretation?
8	Α.	(Pembroke) Yes, it would.
9	Q.	And you're confident that a sample taken
10		while at C2 is 54.7 feet away from the
11		location. You're confident that that gives
12		you an accurate idea as to the sediment in
13		that area from both a chemical and physical
14		property perspective?
15	Α.	(Pembroke) Yes.
16	Q.	So there wouldn't be any if you saw that
17		there were no contaminants 55 feet away from
18		where you intended to put the cable, you
19		would be confident there would also be no
20		contaminants on the cable location.
21	Α.	(Pembroke) I'd be comfortable making that
22		statement.
23	Q.	How far away could you get before your
24		comfort level diminished?
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(Nelson) I'd like to address that a little 1 Α. bit, if I may. 2 In our sediment characterization, you 3 know, I think what one has to do is look at 4 the totality of the sampling that was done. 5 We did 12 vibracores across the proposed 6 crossing location. In evaluating that data, 7 8 we found very little with respect to potential contaminants. And we didn't find 9 any evidence that there was a source of 10 11 anthropogenic release, if you will, of contaminants. We found generally that our 12 data was consistent with data that had been 13 14 collected in the past by previous EPA studies as well. 15 16 So if you go down the line of 17 questioning with respect to how far away is one sample representative of a certain 18 19 location relative to the jet plow area, you 20 know, I don't know that this panel is going 21 to give you a firm answer as, you know, a 22 discrete distance. But when you look at the 23 data on whole, I think we're very comfortable with the characterization that was done. 24

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1	Q.	Well, there had been cables installed in this
2		going back to the early 1900s in this area;
3		correct?
4	Α.	(Nelson) Correct.
5	Q.	And isn't it possible that some of those
6		cables contain lead?
7	Α.	(Nelson) Yes, some of these cables do contain
8		lead.
9	Q.	And that could be a source of contamination.
10	А.	(Nelson) Potentially. On the record, we
11		provided a cable removal plan. And in the
12		cable removal plan we provided an analysis
13		that was done on the existing cables within
14		the bay currently. And in that report you
15		can see sort of the nature of the lead
16		associated with those cables. Typically what
17		we're talking about is a lead sheath that
18		surrounds the outside of the cable. That
19		sheath is on the order of between, you know,
20		approximately an eighth to quarter-inch thick
21		or so. And it's a solid piece of metal that
22		encases those cables.
23	Q.	Well, if lead were one of the contaminants of
24		concern, and the source for the lead was the
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1		older cable, would you expect to see lead
2		contamination 55 feet away?
3	A.	(Nelson) I don't know the answer to that
4		particular question.
5	Α.	(Bjorkman) If may contribute to that
6		conversation, the answer to that is we did
7		not in the samples we did, which were
8		varied distances from that cable, there was
9		no evidence of any footprint of elevated lead
10		of any sort in any sample, which was a strong
11		indication that there's not been an
12		accumulation of lead from cables.
13	Q.	Now, on the sediments that you took, my
14		understanding in reading the documents that
15		have been marked as 104 and 105 and I'm
16		referring to the RPS report that's
17		Exhibit 104, and the Normandeau report, which
18		is the sediment characterization report,
19		which is Exhibit 105 and I assume you're
20		familiar with both of those documents?
21	Α.	(Swanson) I'm familiar with the modeling
22		report I did, yes, the RPS report.
23	Q.	Now, in looking at those reports, it appears
24		that in the Normandeau report or the
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1		Normandeau work, Normandeau conducted some
2		samplings and some analysis prior to engaging
3		RPS to conduct its studies. And some
4		concerns were raised regarding Normandeau's
5		sampling and analytical methods using the
6		vibracore technique and the homogenization
7		method. Is that accurate?
8	A.	(Pembroke) There were some concerns raised.
9	Q.	And partially, or maybe more than partially,
10		as a result of the concerns that were raised,
11		RPS was retained to conduct additional work,
12		and then RPS also did a model on the sediment
13		dispersion.
14	A.	(Pembroke) Well, RPS was retained to do the
15		modeling. It really had nothing to do with
16		questions that were raised about the sediment
17		characterization.
18	Q.	In the RPS report, RPS did some additional
19		analytical work. And it appears that the
20		additional analytical work RPS did was use
21		the samples that had been taken by
22		Normandeau; is that correct?
23	A.	(Swanson) Yes, we took the samples from
24		the or we used the samples from the
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1		original field program, plus the secondary
2		field program.
3	Q.	And the samples that RPS took in its work,
4		only the top 2 feet of the samples that RPS
5		took were analyzed; right?
6	Α.	(Pembroke) RPS did not take samples. They
7		received data from us, from Normandeau, just
8		to be clear about that. They used data that
9		we provided from our sediment sampling.
10	Q.	Well, I can find the references in the RPS
11		report. There are many references to the
12		analysis of only the top 2 feet of the
13		sample. Can you explain what that refers to?
14	Α.	(Pembroke) It refers, in RPS's usage, it
15		refers to the fact that that was the segment
16		of the sediment column that will be touched
17		by the jet plow that has the greatest
18		potential for being suspended into the water
19		column. And so that was the purpose of doing
20		analysis only on that portion.
21	Q.	So only the top 2 feet were analyzed.
22	Α.	(Bjorkman) If I may amplify on this issue,
23		the original sampling and I believe by
24		your Exhibit 105, you're referring to the
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1		supplemental characterization report.
2	Q.	Correct.
3	A.	(Bjorkman) In the original report, the
4		samples were taken at zero to 4-foot
5		interval. The issue that was raised was
6		whether that 4-foot interval would be
7		representative of what's in any given
8		interval of sediment.
9		In the supplemental analysis, therefore,
10		we added additional analysis, zero to 2-feet
11		interval, and compared the results from zero
12		to 2 to zero to 4 to see if there was any
13		difference between the deeper and the
14		shallower. The answer was, no, there wasn't.
15	Q.	Well, I have a chart here from the Normandeau
16		report, which is marked as Exhibit 105. And
17		that chart appears to show a fairly
18		substantial difference in the results. So,
19		going through that chart, if you, for
20		example, focus on the percent of fine sand,
21		and you see the bottom column says Table 3b,
22		"Physical Characteristics of Sediments Along
23		the Route Sampled in 2016." And, for
24		example, C4, you say percent of fine sand is
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1		16.3 and it goes up to 19.6. But then, next
2		to it is C5, and the percentage of fine sand
3		goes from 24.3 percent to 64.8 percent.
4	A.	(Bjorkman) Let me just clarify one issue. I
5		was referring to what was within my purview
6		was primarily investigation of the
7		contaminants contained in the sediment. You
8		know, the issue here is related to the type
9		of sediment, and my statement was not related
10		to that.
11	Q.	Thank you. I was actually focusing on the
12		physical characteristics.
13		But what I'm trying to understand here
14		is two things: First of all, are the results
15		wanawtad in these two tables where in 2016
		reported in these two tables, where in 2016
16		the physical characteristics are reported as
16 17		
		the physical characteristics are reported as
17		the physical characteristics are reported as 24.3 percent of percent of fine sand, and in
17 18		the physical characteristics are reported as 24.3 percent of percent of fine sand, and in 2017, on that same location, C5, it comes out
17 18 19		the physical characteristics are reported as 24.3 percent of percent of fine sand, and in 2017, on that same location, C5, it comes out as 64.8 percent, and C7, 44.9 percent goes up
17 18 19 20		the physical characteristics are reported as 24.3 percent of percent of fine sand, and in 2017, on that same location, C5, it comes out as 64.8 percent, and C7, 44.9 percent goes up to 57.9, and so on and so forth. It's not
17 18 19 20 21		the physical characteristics are reported as 24.3 percent of percent of fine sand, and in 2017, on that same location, C5, it comes out as 64.8 percent, and C7, 44.9 percent goes up to 57.9, and so on and so forth. It's not always in that direction. In C8, it goes
17 18 19 20 21 22		the physical characteristics are reported as 24.3 percent of percent of fine sand, and in 2017, on that same location, C5, it comes out as 64.8 percent, and C7, 44.9 percent goes up to 57.9, and so on and so forth. It's not always in that direction. In C8, it goes from 66 percent, and it appears to drop to

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1		First of all, do these charts represent
2		the same samples with different analytical
3		methods applied, or are they different
4		samples? It appears from the report that
5		they're the same samples with different
6		analytical methods.
7	А.	(Pembroke) They are different samples. The
8		stations were re-occupied a second time to
9		collect additional material.
10	Q.	So these are the same sampling locations?
11	Α.	(Pembroke) That's correct.
12	Q.	And additional material was collected or not?
13	А.	(Pembroke) Additional material was collected.
14	Q.	And when was that material collected?
15	Α.	(Pembroke) May 2017 and September 2016.
16	Q.	And the numbers that appear on this chart are
17		two different sample collections. Were the
18		samples collected in the same manner?
19	А.	(Pembroke) Yes, they were.
20	Q.	Doesn't that give you some kind of cause to
21		want to do some additional investigation when
22		you're seeing these very different results
23		from the same sampling locations and you're
24		modeling sediment based upon characteristics
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1		as you understand it?
2	Α.	(Nelson) Basically I just want to chime in
3		here. The table that you just referenced,
4		the difference in grain size that you'
5		seeing, what you' seeing is the same general
6		sampling location, two different sampling
7		events. The first of those sampling events
8		was a compositing of a zero to 4-foot
9		interval. The second event you saw was a
10		compositing of a zero to 2-foot interval.
11		That can explain the variations in grain size
12		amongst those two samples taken at the same
13		location.
14	Q.	Well, the jet plow goes down to over a 5-foot
15		depth, doesn't it?
16	Α.	(Swanson) Yes, it does. But the mobilization
17		is primarily coming from the upper portions
18		of that because that's closest to the sea
19		bed. It's not down four or five or three
20		or five. The material down there will more
21		than likely stay down there. It's the upper
22		couple feet that's going to be more prone to
23		mobilization or resuspension or suspension
24		into the water column.

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1	Q.	Now I want to turn your attention to Page 10
2		of the Normandeau report, Exhibit 105. And
3		it has a table there, and it talks about the
4		qualitative description of sediments along
5		the cable route from vibracore collections,
6		May 2017. And in fact, first of all, it
7		talks about not actually being able to
8		penetrate to the depth desired, which would
9		be the 5-foot core. And it cites some
10		sampling locations, which only went to
11		20 inches, 40 inches, 44 inches, 46 inches.
12		Do you see that? It's on Page 10.
13	Α.	(Pembroke) Yes, I see that. It's Table 2.
14	Q.	So not all these were in a 5-foot depth.
15	A.	(Pembroke) That's correct.
16	Q.	And turning to the final sentence on that
17		Field Characterization of Sediment Cores, it
18		says, "The uppermost 2 feet of all the cores
19		were processed and sent to Alpha Analytical
20		Laboratory for physical and chemical
21		analyses." Do you see that?
22	Α.	(Pembroke) Yes.
23	Q.	So when the chart on Page 16 shows the
24		physical characteristics of the samples that
ļ	{s	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1		were collected in 2017, what we're seeing
2		there is the physical characteristics of only
3		the top 2 feet?
4	A.	(Pembroke) That's correct.
5	Q.	Okay. So the physical characteristics of the
6		bottom 3-plus feet, do we have any
7		information that's been provided on those?
8	A.	(Pembroke) Not from the cores that were
9		collected in May. But as we said, we
10		occupied as close to the same positions as
11		possible as the collections from September,
12		whatever, 2016, as we could. And because our
13		sampling our field crew uses GPS, they can
14		get very close to the same location. And so
15		in the September samples, we analyzed the
16		full depth of material.
17	Q.	So when we look at this chart on Page 16
18		and I can show it to you again if you would
19		like to see it.
20	A.	(Pembroke) I have it.
21	Q.	Which do we believe? Which is the better
22		information? Do we believe that the percent
23		of fine sand on C5 is 64.8 percent or
24		24.3 percent? Or does it make any difference
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1		at all? Do we care?
2	Α.	(Pembroke) For purposes of considering the
3		sediments that are likely to be suspended
4		into the water column and dispersed through
5		the sediment plume, we're interested in the
6		material that was collected and analyzed in
7		May 2017. So the top part, Table 3a, is
8		representative of that.
9	Q.	And you're confident that the bottom 3-plus
10		feet would not go none of that would go
11		into suspension, even if it were very fine
12		material.
13	A.	(Pembroke) My understanding from work that's
14		been done to evaluate the portion of material
15		that is suspended during a jet plow operation
16		makes me believe that that is the case, that
17		we really only need to be concerned with the
18		uppermost material.
19	A.	(Swanson) That was also provided. That
20		information was provided by one of the
21		experts for the Counsel for the Public, in
22		terms of his experience was that it's the
23		nearer surface sediments that actually get
24		mobilized.

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What I'm trying to understand, essentially, 1 Q. is what confidence we can really have in the 2 Because what I've heard so far is numbers. 3 dispersion is based on a model that you have 4 confidence in. But it's a model. 5 And the sediment sampling is based on the percentage 6 7 of the sample core that you think will go in 8 suspension. But right now, there's no empirical evidence that you can point to that 9 would demonstrate exactly how much sediment 10 11 is going to be released out of that 5-foot-plus plowing and how that sediment 12 will behave once it is released because you 13 14 need a jet plow run to do that. 15 PRESIDING OFFICER WEATHERSBY: Ms. 16 Ludtke, you' slipping into testimony again. Ιf 17 you can phrase your --BY MS. LUDTKE: 18 19 0. Do you need a jet plow run to really have 20 confidence in understanding from an empirical 21 basis what will happen here? 22 (Swanson) No. But one of the reasons the Α. 23 trial run is going to be conducted is to verify that. But based on our experience, we 24 {SEC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1		know that the surface sediments are more
2		likely to be suspended than the deeper
3		sediments because the jet plow does not want
4		to move more sediments than it has to. It
5		really just wants to fluidize that sediment
6		so that the cable can be placed at the
7		bottom.
8	Q.	Now, let me go back for a minute to the
9		horizontal drilling/jet plow report, and
10		that's Exhibit 133. Because in looking at
11		that report, it appears that a lot of the
12		language that is used to describe the impacts
13		is a it doesn't express a high level of
14		certainty. And let me explain what I mean.
15		And I'd like your response.
16		In the hand jetting operations, you'
17		concluding sentence and this is Page 12,
18		and it's at the end of the paragraph on
19		that "As such" and I think you've got a
20		word missing "there are no anticipated
21		impacts to water quality." So, instead of
22		saying there will be no impacts to water
23		quality, the phrase says that none are
24		anticipated. And that language, I can point
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out other many other examples. Page 14,
bottom of the third paragraph, "No impacts to
these farms are anticipated." Middle of the
following paragraph, "plume nearing this
facility are expected." So there's
expectations and anticipation. Page 15, "It
is likely that the artificial substrate," "It
is expected," "This is unlikely to have a
deleterious effect on lobsters and horseshoe
crabs." "It is expected" and, you know,
going over to 16, I have more areas
underlined. Fish "This could be a
deterrent." "It is not expected." "It is
expected with wetlands."
So my question is: Did you intend to
use this language because you wanted to
express some degree of uncertainty as to what
the results would be?
A. (Pembroke) Well, there is a degree of
uncertainty as to what the results would be.
The assessment of the likelihood of impact
was based on our knowledge of the resources
that are in the Project area and review of
literature, peer-reviewed literature, reports
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1		on projects that have been done using similar
2		techniques and so on to assess whether or not
3		impacts could be expected from such an
4		action. You know, we won't have any
5		certainty until the Project is actually built
6		and has been monitored. And clearly, this
7		process has to proceed doing that.
8	Α.	(Bjorkman) If I may be a little facetious for
9		a moment. You're speaking to a bunch of
10		scientists. We're never sure of anything.
11		But what we do know is we know our business
12		and that the language that you see in front
13		of you is fairly typical for the description
14		of an event for which we have considerable
15		certainty that that is indeed the case. But
16		there's always an out.
17	Q.	Fair to say that this uncertainty is
18		addressed in the DES conditions? And I have
19		the most recent conditions, August 31, 2018.
20		MS. LUDTKE: Does that have an
21		exhibit number?
22		MR. IACOPINO: 166, I think.
23		MS. LUDTKE: Oh, is it 166?
24		MR. ASLIN: 183.
l	{ន	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1		MS. LUDTKE: Oh, 183.
2		(Pause in proceedings)
3	BY M	R. LUDTKE:
4	Q.	And I think Attorney Patch pointed up a
5		number of these. This uncertainty, for
6		example, this condition relates to the mixing
7		zone plan, and particularly as it would
8		affect the aquaculture sites in close
9		proximity to the line. And that talks about
10		the submission of a revised plan. And it's
11		our understanding you'll be submitting a
12		revised plan for the mixing zone. And it
13		says the NHDES will notify the SEC when the
14		plan has been approved by the DES.
15		Do you understand what would be what
16		was the intent of notifying the SEC? Will
17		the SEC even be in existence at the time that
18		plan is approved?
19	Α.	(Allen) I'm not sure we can answer that for
20		the SEC.
21	Q.	Well, you had a discussion with DES regarding
22		these conditions, didn't you?
23	Α.	(Allen) We did.
24	Q.	And did you have an understanding regarding
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1		notification to the SEC?
2	A.	(Allen) That actually was not part of our
3		discussion.
4	Q.	Okay. And the jet plowing I think is another
5		big issue. And I think that's addressed in
6		the first part of the revised conditions, and
7		that's Page 2 and 3.
8	A.	(Pembroke) Yeah, I would point out that the
9		jet plow run is a recommendation, not a
10		condition. But it is something that the
11		Project certainly plans to comply with.
12	Q.	And originally the condition before you'
13		discussions with DES required a period of 90
14		days to provide time for NHDES to review the
15		jet plow trial submarine report, to discuss
16		and finalize the report, provide a
17		recommendation to the SEC, and for the SEC to
18		make a decision. And would you agree that
19		the SEC now has been completely eliminated
20		from involvement in the jet plow run?
21	A.	(Allen) I would not agree with that.
22	Q.	Well, how, under the revised condition, is
23		the SEC involved?
24	A.	(Allen) On Page 3, the second paragraph says,
$\{SEC 2015-04\}$ [Day 5 AFTERNOON ONLY] $\{09-20-18\}$		

1		"Cable installation in Little Bay by jet
2		plowing will not be allowed to proceed until
3		authorized by the SEC."
4	Q.	Which page are you on?
5	A.	(Allen) Page 3 of the August 31 letter,
6		second paragraph.
7	Q.	Okay. So it will be presented to the SEC,
8		and then the SEC will make a decision as to
9		whether the Project should proceed based on
10		the results of the jet plowing. That's how
11		you read that?
12	A.	(Allen) I'm reading that DES will review the
13		information and provide their recommendation
14		to the SEC, and the SEC will issue a
15		decision.
16	Q.	So when the SEC makes its decision as a
17		result of these hearings, that decision won't
18		be a final decision until the SEC reviews the
19		results of the jet plow run?
20	A.	(Allen) I'm not sure which decision you're
21		referring to.
22	Q.	The decision that presumably the SEC will
23		reach as a result of these hearings.
24		MR. NEEDLEMAN: Objection, Madam
$\{SEC 2015-04\}$ [Day 5 AFTERNOON ONLY] $\{09-20-18\}$		

1Chair. First of all, the language speaks for2itself. Second of all, sounds like this calls3for a legal conclusion.4MS. LUDTKE: Well, I'm trying to5understand how this process is going to6proceed, because in our opinion, the jet plow7run is a very important piece of information,8given what we have, and understanding what the9impact, the environmental impact would be on10the installation of the jet plow. And I would11like to know if we are going to have another12opportunity to come back for a hearing on those13results once those results are available, what14their understanding is.15PRESIDING OFFICER WEATHERSEY: I'm16going to sustain the objection. It does call17for a legal opinion from these witnesses. So18if you can move on, please.19EY MS. LUDTKE:20Q. Now, after the jet plow run is completed, you21will have a better idea about what the22environmental impact to jet plowing will be,23won't you?24A. (Allen) Yes, we will.			
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	22		environmental impact to jet plowing will be,
A. (Allen) Yes, we will.	23		won't you?
	24	Α.	(Allen) Yes, we will.

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1	Q.	And are you aware of how the jet plow
2		technique can be modified that would reduce
3		the impact on water quality if the trial run
4		showed that the impact on water quality was
5		unacceptable?
6	A.	(Allen) As we've said in the past, the
7		primary ways to control the amount of
8		sediment going up into suspension are the
9		speed the jet plow is pulled through the
10		sediment, and the water pressure in the jets.
11	Q.	And the condition in the revised DES permit
12		provides and again, this is Pages 2 and
13		3 that if the results of the trial run
14		indicate that New Hampshire surface water
15		quality standards will not likely be attained
16		during cable installation, or if results
17		indicate that the model did not reasonably
18		predict the suspended solids plume, the
19		report should include recommendations
20		regarding how these issues can be abated.
21		Are you confident that, based on how you
22		understand the installation to be done at
23		this point, that changes can be made that
24		will abate the violation of the surface water
ļ	{s:	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1		quality standards or the prediction of the
2		suspended solids plume for jet plowing?
3	A.	(Allen) We are not anticipating violating
4		surface water quality standards, so we have
5		confidence in the work that we've done to
6		date.
7	Q.	Well, one thing I'm trying to understand is
8		that, if abatement is possible and you can
9		operate the jet plow so that it doesn't
10		produce the same turbidity or suspended
11		solids or any other issues of environmental
12		concern, why isn't that part of the protocol
13		right now for doing the jet plow? Wouldn't
14		that be minimization of impact?
15		MR. NEEDLEMAN: Objection. This has
16		been asked and answered. Mr. Swanson
17		specifically testified earlier to this question
18		that the target is meeting the state water
19		quality standards.
20		MS. LUDTKE: Well, I take it this
21		a variant of this question certainly has been
22		posed. But I haven't heard a real answer to
23		it, and that's why I'm asking it.
24		PRESIDING OFFICER WEATHERSBY:
	{s:	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1		Objection sustained.
2	BY M	IS. LUDTKE:
3	Q.	I wanted to ask you a few questions on the
4		concrete mattresses.
5		Do you know what the square footage of
6		concrete mattresses permitted at the present
7		time is?
8	Α.	(Allen) The number that we put in the
9		Application I believe is 8,681 square feet.
10	Q.	When was that put in the Application?
11	A.	(Allen) It's the Application Supplement
12		submitted in September 2017.
13		MR. NEEDLEMAN: It's Exhibit 128.
13 14	BY M	MR. NEEDLEMAN: It's Exhibit 128. IS. LUDTKE:
-		
14		IS. LUDTKE:
14 15		IS. LUDTKE: Well, I have Exhibit 166, and it's dated
14 15 16		IS. LUDTKE: Well, I have Exhibit 166, and it's dated February 28, 2018. And on Page 7 of that
14 15 16 17		IS. LUDTKE: Well, I have Exhibit 166, and it's dated February 28, 2018. And on Page 7 of that it's the permit. And it's February 28, 2018
14 15 16 17 18		IS. LUDTKE: Well, I have Exhibit 166, and it's dated February 28, 2018. And on Page 7 of that it's the permit. And it's February 28, 2018 Final Decision. And that's Page 7, as I
14 15 16 17 18 19	Q.	IS. LUDTKE: Well, I have Exhibit 166, and it's dated February 28, 2018. And on Page 7 of that it's the permit. And it's February 28, 2018 Final Decision. And that's Page 7, as I said. Do you have that?
14 15 16 17 18 19 20	Q. A.	<pre>MS. LUDTKE: Well, I have Exhibit 166, and it's dated February 28, 2018. And on Page 7 of that it's the permit. And it's February 28, 2018 Final Decision. And that's Page 7, as I said. Do you have that? (Allen) Yes.</pre>
14 15 16 17 18 19 20 21	Q. A.	<pre>IS. LUDTKE: Well, I have Exhibit 166, and it's dated February 28, 2018. And on Page 7 of that it's the permit. And it's February 28, 2018 Final Decision. And that's Page 7, as I said. Do you have that? (Allen) Yes. And I'm looking at the Project description on</pre>
14 15 16 17 18 19 20 21 22	Q. A.	NS. LUDTKE: Well, I have Exhibit 166, and it's dated February 28, 2018. And on Page 7 of that it's the permit. And it's February 28, 2018 Final Decision. And that's Page 7, as I said. Do you have that? (Allen) Yes. And I'm looking at the Project description on that. And it talks about the placement of

1		feet for construction. So, apparently that
2		is what DES thought the permitted square
3		footage was in February 28, 2018. Is that
4		incorrect?
5	А.	(Allen) I'm not going to speak for DES. But
6		if you look at our letter of submittal or
7		our letter to DES, I think it was submitted
8		in April of 2018, we pointed out a number of
9		corrections that were correcting either
10		impact numbers or dates, which DES
11		subsequently accepted.
12	Q.	That would have been then referenced in the
13		August 31, 2018 document, Exhibit 183?
14	Α.	(Allen) Yes. It's the last sentence of that
15		document.
16	Q.	Can you point out to me where the number of
17		8,681 is in that document?
18	Α.	(Allen) That document, if you give me a
19		second while I go there where it says
20		"Appendix A, Requested text corrections to
21		DES Final Conditions," that's the document
22		I'm referring to. And it would take me a
23		little while to find that letter.
24	Q.	Well, my document actually doesn't include an
	{s	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

Appendix A. 1 (Allen) No, he's referring to our 8/17 2 Α. letter. 3 So you' letter is now a part of the permit? 4 0. (Allen) I couldn't answer that. 5 Α. In looking at the permit documents that were 6 ο. 7 issued by New Hampshire DES, and I have two 8 of them -- one dated February 28th, 2018 and one dated August 31st, 2018 -- I can't find 9 10 any reference to the number 8,681 in either 11 one of those documents. (Allen) Like I say, it is referenced in that 12 Α. last response, that Appendix A, which they 13 14 say they concur with the requested text 15 corrections. Appendix A includes that 16 8,681 square feet. 17 MR. IACOPINO: And that's the notation that's right above Mr. Pelletier's 18 19 signature; is that correct? 20 WITNESS ALLEN: Yes, that's correct. 21 BY MS. LUDTKE: 22 So these are requested text corrections. 0. 23 (Allen) Correct. Α. 24 Okay. And the text correction that you're Q. {SEC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1	referring to relates to the application for	
2	an increased amount of square footage for	
3	concrete mattresses?	
4	MR. NEEDLEMAN: Objection. That's	
5	not what the record says. It was not an	
6	increase. It was the same amount that was	
7	included in the permit application.	
8	WITNESS ALLEN: That's correct.	
9	PRESIDING OFFICER WEATHERSBY: I	
10	think she just answered the question. We'll	
11	move on.	
12	BY MS. LUDTKE:	
13	Q. Well, I have the permit here from	
14	February 28th, 2018. And the permit that I	
15	have from February 2018 uses the number	
16	5,336 square feet.	
17	A. (Allen) And I think in their August letter	
18	they acknowledge the error and are trying to	
19	correct it.	
20	Q. Well, your permit application at the time, I	
21	believe, derived the number 5,336. I can	
22	A. (Allen) That was the original application	
23	back in 2016. The supplement that DES	
24	reviewed and included includes updated	
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1		numbers for the concrete mattress impacts.
2	Q.	So the original permit, you agree, had the
3		number 5,336 in it.
4	A.	(Allen) Correct.
5	Q.	And it has now been increased to 8,681.
6	A.	(Allen) It was increased in our last
7		supplement to our permit application.
8	Q.	Now, with respect to concrete mattresses, can
9		you explain to me how you come up with that
10		number when the mattresses are, I believe,
11		8 feet by 20 feet; is that correct?
12	A.	(Allen) That's correct.
13	Q.	Okay. And there's a certain number of
14		mattresses that will be used?
15	A.	(Allen) Yes.
16	Q.	And there's a certain overlay that will occur
17		for the mattresses?
18	A.	(Allen) I'm less certain about the overlay.
19		But yes, they are there's a square footage
20		of impact.
21	Q.	So, in looking at the number, it would seem
22		that you could produce the number by almost
23		multiplying the square footage of the
24		mattresses. Presumably you're not going to
	{s:	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1		cut mattresses, are you?
2	Α.	(Allen) Correct.
3	Q.	So how many mattresses are used with the
4		square footage of 8,681?
5	А.	(Allen) I think this was addressed by the
6		Construction Panel. We relied on LS Cables
7		calculation for the extent of mattresses
8		required. And from that we developed a
9		footprint of the mattresses, and that's how
10		we calculated the 8,681 square feet.
11	Q.	And is the footprint for the mattresses also
12		part of the Appendix A?
13	A.	(Allen) The square footage of impact is part
14		of Appendix A. The footprint is shown on the
15		environmental maps for that same September
16		2017 Application Supplement.
17	Q.	Are you aware that these mattresses are going
18		to be placed on state-owned property?
19	A.	(Allen) Yes.
20	Q.	Do you know of any contacts that have been
21		made to the State to obtain permission to
22		place these mattresses on its property?
23	Α.	(Allen) We are working with the State for our
24		wetlands permit. That is my primary
	٦٦	$EC 2015_04$ [Day 5 AFTERMOON ON VI $\int 00_{-20_{-1}} 8$ ]

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1		responsibility.
2	Q.	Are you aware of the doctrine of the public
3		trust, whereby the public has a right to
4		use enjoy public waters, and the State has
5		an obligation to preserve that easement of
6		enjoyment
7		MR. NEEDLEMAN: Objection.
8	Q.	to the public?
9		Do you have knowledge about the Public
10		Trust Doctrine?
11	Α.	(Allen) Not to the detail that I want to
12		discuss it here.
13	Q.	And you don't have any knowledge regarding
14		statutes pertaining to public trust rights.
15	Α.	(Allen) I do not.
16	Q.	And it's not unlikely that these mattresses
17		will provide some challenges, navigational
18		challenges for boating in the Little Bay, is
19		it?
20	Α.	(Allen) I think that was also discussed
21		previously.
22	Q.	Are you aware of any condition in the DES
23		permit that specifically addresses the
24		concern regarding navigational issues?
	{s:	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

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1	Α.	(Allen) I believe there's a recognition that
2		we will be contacting the appropriate Coast
3		Guard, NOAA, and the other navigational
4		requirements that we have to meet.
5	Q.	Well, let me call your attention to Condition
6		No. 52.
7		MR. IACOPINO: Of which document?
8		MS. LUDTKE: I'm on Exhibit 166, and
9		it's Page 16.
10	A.	(Allen) Yes.
11	BY M	S. LUDTKE:
12	Q.	And what does that condition require?
13	A.	(Allen) Notify the marine patrol and/or the
14		New Hampshire Department of Safety Marine
15		Patrol, Division of Ports and Harbors to
16		determine if placement of mattresses creates
17		a navigational hazard. Is this what you're
18		looking for?
19	Q.	Correct. Does it say anything about NOAA?
20	Α.	(Allen) Does not.
21	Q.	Say anything about the Coast Guard?
22	Α.	(Allen) It does not.
23	Q.	And you have no understanding of the public
24		rights regarding public trust property?
	{ន	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1	A.	(Allen) I do not.
2	Q.	Let me ask you about Condition No. 55 in the
3		revised conditions.
4		Now, is it your understanding this is
5		requiring submission of as-builts showing the
6		location I think of the mattresses, is it
7		or oh, it's, yeah, and location of the
8		concrete mattresses. So it's submission of
9		as-builts for concrete mattresses after the
10		completion of the Project.
11		Do you know whether the actual location
12		for the concrete mattresses will be
13		determined before construction?
14	A.	(Allen) They will not.
15	Q.	So you're not going to know until you start
16		construction where these mattresses will be
17		placed.
18	A.	(Allen) As we show in the environmental maps,
19		we have shown their locations based on a
20		conservative estimate of where we think they
21		will be needed. Field conditions will
22		determine where they're actually needed.
23	Q.	But you don't know the exact location.
24	A.	(Allen) That's correct.

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1	Q.	And what if when you're doing the
2		construction you find that you actually need
3		many more mattresses than you originally
4		thought you would need?
5	A.	(Allen) I don't anticipate that that's going
6		to be an issue.
7	Q.	You're aware that the permit requires a
8		submission of a new permit if the impact to
9		jurisdictional areas exceeds, I think,
10		20 percent; is that correct?
11	A.	(Allen) Correct.
12	Q.	So if you went over 20 percent beyond the
13		amount of 8,861, which would not be that many
14		more mattresses, is it your understanding you
15		would have to submit a new permit
16		application?
17	Α.	(Allen) Our discussion with DES is that their
18		interest in that is to make sure we have a
19		vehicle for determining impacts and
20		estimating and renegotiating if we find
21		that impacts are either different or greater,
22		or potentially less.
23	Q.	So the number 8,800 is a guesstimate, a best
24		judgment, guesstimate at this point?
ļ	{s	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

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1	Α.	(Allen) It's a conservative number based on	
2		what we know to be areas where we anticipate	
3		difficulty getting full burial depth.	
4	Q.	Well, wasn't the number 5,300 represented as	
5		a conservative number also?	
6	Α.	(Allen) I would have to go back and read	
7		that.	
8	Q.	Well, I'll represent to you it was.	
9		And from your testimony, and others, it	
10		appears that the issue of the concrete	
11		mattresses is an open-ended issue at this	
12		point. Is that a fair characterization of	
13		it?	
14	Α.	(Allen) I would not say it's "open-ended." I	
15		think the requirements for when we need a	
16		concrete mattress is very well understood.	
17		And we have a good understanding of the depth	
18		that we should be able to achieve. So you	
19		put those two things together, and I think we	
20		have a high level of confidence of where	
21		we're going to need concrete mattresses.	
22	Q.	Do you regard the permit number as an	
23		open-ended permit number, and really the	
24		permit gives Eversource the right to use	
I	{ន	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}	

1		concrete mattresses as needed to achieve the
2		42-inch cover?
3	A.	(Allen) I do not.
4	Q.	So if, for example, you put out you'
5		8,800 square feet of concrete mattresses and
6		you discover you needed twice that amount,
7		you would expect to put twice that amount in;
8		isn't that correct?
9	A.	(Allen) I think we'd look very hard at that
10		before we attempted anything like that.
11	Q.	Well, what would you do in that situation?
12	A.	(Allen) Like I say, I don't anticipate that
13		situation arising. And I don't think DES
14		does either. Their condition is very clear
15		as to what we need to be doing.
16	Q.	Well, are you so confident at this point that
17		you would be willing to say it won't be
18		20 percent or more it won't be 20 percent
19		greater or more than the 8,861 feet you have
20		in the amended permit?
21	A.	(Pembroke) I think the Construction Panel
22		could have answered that question had they
23		been asked that. It was really the
24		Construction Panel that determined where they
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1		felt cover would be insufficient using
2		natural materials. And, you know, the
3		impetus is on them to get the Project built
4		in an efficient way. They certainly would
5		prefer not to use more concrete mattresses.
6	Q.	Thank you. Nothing further.
7		PRESIDING OFFICER WEATHERSBY: Thank
8		you.
9		Our next questioner will be Ms.
10		Mackie for the Durham Historic Association.
11		MR. NEEDLEMAN: Madam Chair, before
12		we start, there is a housekeeping issue.
13		PRESIDING OFFICER WEATHERSBY: Yes.
14		MR. NEEDLEMAN: The estimate that CLF
15		gave this morning for cross-examination was an
16		hour and a half. By my count, that was a
17		little over three hours. As we have fewer and
18		fewer witnesses to present, and some of them
19		are traveling from a distance, it gets harder
20		and harder for us to manage the time and keep
21		things going. I don't know how to deal with
22		this, but it's going to become an increased
23		challenge to keep this
24		MR. RICHARDSON: May I offer
	{s	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

PRESIDING OFFICER WEATHERSBY: 1 Attorney Richardson. 2 MR. RICHARDSON: I don't think it's a 3 material change, but we've been looking at the 4 schedule and we're thinking that we're probably 5 not going to ask questions of Bob Varney, using 6 7 our 30 minutes. And I believe the same is true 8 of Chalmers. We're just trying to budget our 9 time and resources. So that's an hour, if that helps anyone. And rather than sending a 10 11 letter, I thought it would be more efficient to just let the Committee know now. 12 PRESIDING OFFICER WEATHERSBY: 13 Thank 14 It would appreciated if people can do you. 15 their utmost to try to stick to their 16 estimates. Some slippage is fine. Ι 17 understand one question leads to another you hadn't thought of, et cetera. But exceeding 18 19 your estimate by a hundred percent means either 20 your questions or you' estimate were off. So 21 please take a look at your questions, take a 22 look at your estimates and try to stick to them 23 as best you can. And we'll just work with all 24 parties to get the witnesses into the right

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time slots. 1 MS. MONROE: If I might just add, 2 Madam Chair -- Pam, down here. 3 PRESIDING OFFICER WEATHERSBY: 4 Yes. 5 MS. MONROE: People can find me at any of the breaks. And if you have changes to 6 7 you' estimates, just shoot me an e-mail, and I 8 will update my list accordingly. I appreciate 9 it. PRESIDING OFFICER WEATHERSBY: We do 10 11 have witnesses both for the Applicant and for intervenors that are traveling guite a 12 distance, and arrangements have to be made. So 13 it is an inconvenience to all if the 14 15 schedule -- we're not going to be rigid about 16 it, but if you could adhere to it as much as 17 possible. So, Ms. Mackie, you get to go next 18 19 after hearing all that. Please proceed. 20 CROSS-EXAMINATION 21 BY MS. MACKIE: 22 My name is Janet Mackie, and I represent the **Q**. 23 Durham Historic Association. My questions mostly have to do with the maps, the 24 {SEC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1		environmental maps. And I assume that Sarah,
2		this would be you' area.
3	A.	(Allen) Let's see how that goes.
4	Q.	My first question is how did you go about
5		determining the scale that you would use on
6		the map, which is 1 inch equals 150 feet?
7	A.	(Allen) I've been thinking about your
8		question since you asked it earlier. And
9		picking the scale is always a challenge in
10		trying to minimize the number of pages,
11		maximize the amount of information you can
12		get on it. In our view, we started with 150.
13		We passed it by the team. The team agreed to
14		it. And 150 it's been ever since.
15	Q.	Who's on the team?
16	Α.	(Allen) I mean the Eversource team, including
17		the engineers, project managers, legal team.
18	Q.	Right. The historic resources are depicted
19		on these maps also. This particular map I
20		have up on the screen is called an
21		environmental map. We have a separate set of
22		maps which are based on these maps called the
23		stone wall maps. And the information that's
24		contained on the stone wall maps is not
	∫a	EC 2015-04 [Day 5 AFTERNOON ONLY] $\{09-20-18\}$

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1		contained on the environmental maps used by
2		everybody else. And then, again, we also
3		have the engineering maps.
4		When it comes to building the Project,
5		will all these maps be consolidated into a
6		single set or
7	A.	(Allen) They will. We're in the process of
8		building what we're calling construction maps
9		that we will put all the critical information
10		on. A lot of this information will come off,
11		and we will add on information that is
12		important to the contractors to know either
13		for avoidance or treatment areas or various
14		techniques that are relevant to construction.
15	Q.	Now, on these map pages are depictions of
16		trees and trees to be cleared, the gray ones,
17		and the existing poles and the new pole
18		heights. And it looks look this is done on a
19		scale of 1 inch equals 100 feet.
20	Α.	(Allen) I cannot answer to the scale. These
21		were actually developed by the engineers
22		based on their engineering design and
23		provided to us. So I would not rely on the
24		scale, per se, to be consistent and regular.
	{ <u>s</u>	EC 2015-04 [Day 5 AFTERNOON ONLY] $\{09-20-18\}$

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1	Q.	Well, I measured one that said 100 feet, and
2		it was an inch. So
3	Α.	(Allen) It should be close to that, but
4		probably not exact.
5	Q.	Now, all the trees, the black trees, the
6		permanent trees, all measured exactly 87-1/2
7		feet tall. Do you know if that's accurate?
8	A.	(Allen) I know it's not accurate. They're
9		intended to be representative.
10	Q.	Uh-huh. Okay. On this one map section,
11		there's an enlarged map. This is a section
12		of Map 6A of the environmental maps. And
13		this particular page has a scale of 1 inch
14		equals 60 feet. Do you know why that was
15		done differently?
16	Α.	(Allen) Yes. This is what we call an "inset
17		map." It's just to address an area where
18		there's an awful lot of information that we
19		felt could not be understood at the smaller
20		scale.
21	Q.	This is where the line crosses the Oyster
22		River.
23	Α.	(Allen) That's correct.
24	Q.	This particular map shows the quarry area
I	{s	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1		above Longmarsh Road. And there's an ellipse
2		around the entire thing. Do you see what I'm
3		referring to?
4	Α.	(Allen) Yes.
5	Q.	And that indicates it's a sensitive area for
6		historical stuff above the ground level.
7		Will this kind of detail be on the final
8		maps?
9	Α.	(Allen) They will not. Well, it depends.
10		For the contractors, they will be to alert
11		both the contractors and the monitors that
12		they're entering a sensitive area. It will
13		be more specific than what we're showing
14		here.
15	Q.	Now, the right-of-way is 100 feet wide
16		through most of it. And with the scale of 1
17		inch equals 150 feet, that means the width of
18		the corridor is represented as two thirds of
19		an inch on these maps.
20	Α.	(Allen) Okay.
21	Q.	And I'm wondering, looking at that dotted red
22		line, for example, right here
23	Α.	(Allen) Yes, the access road.
24	Q.	Mr. Bowes, on the second day of the
l	∫c	EC 2015-04 [Day 5 AFTERNOON ONLY] $\int 0.00-20-18$

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1		hearing, told us the roads are going to be
2		16 feet wide
3	A.	(Allen) Right.
4	Q.	through the easement. And this road's not
5		drawn to scale. I measured it, and it's less
6		than a sixteenth of an inch wide. So it
7		looks like it underrepresents the width of
8		the road by, I don't know, 50 percent or
9		something.
10	Α.	(Allen) That's correct. In the upland,
11		that's correct. In the wetland, it is
12		correct. The correct width is shown.
13	Q.	And why is there a difference in the road
14		width between the uplands and the wetlands?
15	A.	(Allen) It was mostly for simplification.
16		Again, we were trying to keep information to
17		be efficient.
18	Q.	Well, it makes it hard for us to gauge the
19		impact of the roads on the historic resources
20		if they're not drawn to scale.
21		So what you're saying is the only place
22		the roads are drawn to scale is in the
23		wetlands?
24	A.	(Allen) The only time the width is correctly
ļ	{s	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1		shown is in wetlands.
2	Q.	Hmm. Well, you were evaluating the
3		environmental impacts besides the wetlands.
4		Did you consider the weight of the equipment
5		that would be used within the easement?
6	A.	(Allen) In what capacity?
7	Q.	For example, when they're cutting the trees,
8		there's quite a bit of tree clearing
9		necessary to open up the whole 100 feet
10		because the trees have been allowed to grow
11		for 50 years. And so they're going to need
12		feller bunchers and different types of heavy
13		equipment all over the easement to clear the
14		trees. Did you consider that, the impact of
15		heavy equipment to clear the trees?
16	A.	(Allen) Eversource clears rights-of-way
17		routinely. They often use low-impact
18		equipment.
19		WITNESS ALLEN: Kurt, could you talk
20		a little bit about tree clearing?
21	A.	(Nelson) Sure. Are you referring to wetland
22		areas or the rights-of-way in the upland
23		area?
24	Q.	Whole thing.
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1	Α.	(Nelson) Yeah, as Sarah was alluding to,
2		generally the various equipment used for
3		tree-clearing operations may be tracked
4		equipment. Most likely may be wide,
5		rubber-tired skidder equipment.
6		With respect to ground pressure, we have
7		the results from if the line of
8		questioning is with respect to archeological
9		resources, we have those resources
10		delineated, and the movement of equipment
11		through those areas and around those areas is
12		certainly accounted for.
13	Q.	And what about the weight of cement trucks
14		that weigh 30 tons or other heavy equipment?
15	А.	(Nelson) With respect to sensitive,
16		archeological areas
17	Q.	Right.
18	А.	(Nelson) is that the question?
19	Q.	Right.
20	Α.	(Nelson) Yeah. Without talking about any
21		specific instance, yes, I mean, we have
22		methods in place to protect sensitive
23		underground archeological locations.
24	Q.	For example, in this part, considering that
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1		the scale is two thirds, you know, it's two
2		thirds of an inch of the right-of-way, this
3		blue business on the bottom is where the
4		trees will be cut. That's a significant
5		amount of tree clearing, for example.
6	A.	(Nelson) Well, with respect to tree clearing,
7		keep in mind when you're looking at that area
8		that is represented inside the confines of
9		the right-of-way, what you' seeing there is
10		an aerial view of the tree canopy. So what
11		you may be seeing is mostly crown and limbs.
12		And that's my having been on this
13		right-of-way corridor numerous times. I
14		don't know it's a fair assessment to say that
15		this right-of-way is especially overgrown
16		throughout its entirety. A lot of the
17		tree-clearing effort that will be required
18		for this project is simply a limbing
19		exercise.
20	Q.	It's simply a what exercise?
21	A.	(Nelson) A limbing exercise.
22	Q.	Uh-huh. Did you consider I know in the
23		wetlands they're planning to use a screw
24		anchor for the guy lines on the poles. Did
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1		you consider the impact of the Deadman
2		anchors that would be used outside the
3		wetlands and the impact that will have?
4	A.	(Nelson) In upland areas?
5		WITNESS NELSON: You want to speak to
6		that, Sarah?
7	A.	(Allen) When you say did we "consider," what
8		are you thinking about?
9	Q.	Well, I don't know how large they're going to
10		be, but they're generally big, flat pads of
11		concrete, the Deadman anchor for the guy
12		wires.
13	Α.	(Allen) Right. And I'm not quite sure what
14		your question is.
15	Q.	Well, are they going to squash vegetation, or
16		what's the impact?
17	A.	(Allen) I'm not going to speak to how they're
18		constructed. But I imagine if they are used,
19		some excavation would be required, and the
20		area would be it will be a small area.
21		They would be regraded and receded if need
22		be.
23	Q.	I'm asking because there are 17 poles in
24		Durham that will have guy lines and up to 17
	{ <b>s</b> :	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1		guy wires on one pole, for example, the
2		second one in from the bay, which is quite a
3		few guy lines on a single pole.
4	A.	(Allen) You'd have to ask the contractors if
5		they're planning on using what they're
6		planning on using.
7	Q.	Well, they say there's going to be 17 of
8		them. But did you even consider what impact
9		that would have?
10	Α.	(Allen) On the Little Bay on the
11		transition structure on Little Bay, it is
12		lawn. So if it was disturbed, we would
13		reseed it. We'd regrade it and reseed it.
14	Q.	So you' assuming the Deadman anchors would be
15		buried.
16	A.	(Allen) Yes, they would.
17	Q.	All right.
18	Α.	(Allen) At least that's my understanding,
19		let's put it that way.
20	Q.	Okay. This is that same section where the
21		line crosses the Oyster River. What does
22		that square, hatched, brown section
23		represent?
24	Α.	(Allen) I think that's a GRANIT layer for a
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1		bridge over the Oyster River. It's a
2		historic resource.
3	Q.	Right. The historic resources are hatched
4		with brown?
5	Α.	(Allen) Correct.
6	Q.	Can you explain to me why only bits and
7		pieces of the UNH Historic District are
8		marked that way, where the other two historic
9		districts are fully filled in?
10	Α.	(Allen) I cannot explain that. That would be
11		a better question for the historic and
12		cultural folks. I can tell you that for this
13		map, we relied on the GRANIT layer and
14	Q.	Well, where does the data come from for that
15		GRANIT layer?
16	Α.	(Allen) I'm not sure. It's the kind of thing
17		that you can go back and query. But I'm not
18		sure how frequently it's updated and who
19		maintains it.
20	Q.	Well, the historic district was determined by
21		Eversource's expert. So it's recent.
22	Α.	(Allen) So it probably would not have made
23		its way to UNH GRANIT yet.
24	Q.	Well, the other brand new historic district
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1		at Durham Point is fully represented on the
2		maps, so
3	Α.	(Allen) I'm sorry. I'm not sure
4	Q.	It's inconsistent, and I'm questioning the
5		consistency.
6	A.	(Allen) Right. I understand that. I just
7		don't think I have an answer for you.
8	Q.	For example, this DHR form, the area form
9		shows the extent of the UNH historic district
10		mapped by Eversource's experts. And the thin
11		bit there is where it crosses the Oyster
12		River, but then it widens out to include all
13		of east and west Foss Farm. So it would seem
14		that that entire area should be hatched, but
15		it hasn't been.
16	Α.	(Allen) If you look on the environmental
17		maps, there's a note that basically
18		references people looking for more detail on
19		historic information to this historic report.
20	Q.	Well, this is the historic report.
21	A.	(Allen) Right.
22	Q.	This is from the historic report. That's why
23		I'm asking
24	Α.	(Allen) Oh, maybe I misunderstood your

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1		question. Can you reask your question?
2	Q.	Yes. This is an example of the other, one of
3		the other historic districts. The entire
4		thing is a historic district. Yet, in the
5		UNH Historic District, only little bits and
6		pieces are colored in, which is inconsistent.
7		That's my question. Do you know why they're
8		missing?
9	A.	(Allen) I don't know why they're missing. If
10		you look, if you see in the lower right
11		corner, you can just see the beginning of a
12		reference box.
13	Q.	Yes.
14	A.	(Allen) If you look at that full reference
15		box, it says the boundaries of the historic
16		sites are from GRANIT. For a more precise
17		description of historic site boundaries, see
18		the New Hampshire DHR project area form.
19	Q.	Which is what I just put up on the overhead.
20	A.	(Allen) Right.
21	Q.	And I checked with DHR, and they said that
22		what was up on the overhead is in fact the
23		area of the historic district.
24	A.	(Allen) Exactly.
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1	Q.	So it hasn't been changed. So I don't know
2		why the maps aren't correct.
3	A.	(Allen) And I'm sorry if I'm not saying this
4		clearly. We rely on a public historic data
5		layer for this hatching. That's available
6		publicly on the GRANIT data base from GIS.
7		So I cannot answer why that database is not
8		current.
9	Q.	So you' suggesting that Cheryl Widdell would
10		have the information?
11	A.	(Allen) She may have that information. I
12		suspect a better query would be to the UNH
13		GIS Center who maintains the GRANIT layer.
14	Q.	Right. But they just put up what they're
15		given. Who supplies the data for the GRANIT
16		layer?
17	Α.	(Allen) That I can't answer.
18	Q.	Because obviously the areas within the
19		historic district are subject to protections
20		under Section 106.
21	А.	(Allen) No, I agree. That's a valid point.
22		And it should be.
23	Q.	And the maps missing that coding evidently
24		won't receive the protection they're required
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1		to have, you know, based on you' experts.
2	A.	(Allen) I'm less certain of that part. When
3		you say they "won't receive the protection,"
4		what do you mean?
5	Q.	Well, if there's a stone wall or other
6		feature that's within the historic district,
7		it gets protected.
8	A.	(Allen) Hmm-hmm.
9	Q.	And there are 66 stone walls in Durham; 50 of
10		them are agreed they need to be protected.
11		But there are several in this section that
12		does not have the proper coding that should
13		be protected, and I'm trying to get at why
14		there's an exception for the UNH Historic
15		District that doesn't apply to the other two.
16	A.	(Allen) I think that question is better put
17		to the cultural experts.
18	Q.	Thank you.
19		PRESIDING OFFICER WEATHERSBY: Okay.
20		Next we'll hear from Attorney Brown for the
21		Durham Residents.
22		CROSS-EXAMINATION
23	BY M	S. BROWN:
24	Q.	Good afternoon. I'm Marcia Brown, and I
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1		represent Donna Heald, a gardener and
2		intervenor in this matter. And I also am the
3		spokesperson for the Durham Residents group.
4		And I don't have very many dispersion model
5		questions. It's mostly Ms. Allen that I'll
6		be questioning.
7		So, Ms. Allen, I have put up
8		Exhibit 148. And let me just enlarge it so
9		it shows Ms. Heald's property. I don't know
10		if you're familiar with this map.
11	Α.	(Allen) I am.
12	Q.	Okay. I'd like to draw your attention to
13		some of the white triangles to the right of
14		Longmarsh Road. And I'll just put my cursor
15		on it to highlight which one. And to
16		confirm, this pole, this is an existing pole
17		outside of a wetland impact; is that correct?
18	A.	(Allen) That's correct.
19	Q.	From your in your opinion, are there any
20		environmental reasons why a pole, any pole,
21		could not be located adjacent or near this
22		pole?
23	A.	(Allen) From an environmental reason?
24	Q.	Correct.
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1	Α.	(Allen) I'd say not. But I know there are
2		many engineering reasons that these
3		particular pole locations were selected.
4	Q.	Just sticking to environmental issues, not
5		the Construction Panel. But thank you.
6	Α.	(Allen) Okay.
7	Q.	And the same question I have with respect to
8		this second triangle.
9		MS. BROWN: And for the record, this
10		is Exhibit 148, Page 18 of 31. It is
11		electronic Page 19, and I am drawing the
12		witness's attention to the second white
13		triangle to the right of Longmarsh Road.
14	BY M	S. BROWN:
15	Q.	So the same question applies to that
16		triangle, please.
17	Α.	(Allen) That one's a little bit closer to the
18		wetland, so I'd be asking them to stay as far
19		from the wetland as they can.
20	Q.	Thank you.
21		Now I have a new exhibit, because in
~~		preparation I did not see this in the record
22		
22 23		already. But I'd like to ask you, Ms. Allen,
		already. But I'd like to ask you, Ms. Allen, if you are familiar with this document.

1	A.	(Allen) I have seen this document.
2	Q.	Okay. And is this do you mind if I pan
3		through some of the pages? My question is:
4		Are these depictions of how the timber
5		matting discussed in the DES permit
6		conditions, is this illustrative of how they
7		will be used in the field for this project?
8		WITNESS ALLEN: Do you want to answer
9		that?
10	A.	(Nelson) Yeah, I would say generally, yes.
11	Q.	Is it also correct that the timber mats go
12		back to the exhibit, 148. When they are on
13		Ms. Heald's property, are they expected to be
14		in place for up to two years?
15	A.	(Nelson) I don't believe that's the case. I
16		don't have the construction sequence well
17		memorized. But I don't believe that's the
18		case, that it would be a two-year, continuous
19		placement of mats there.
20	Q.	Well, if I recall from the Construction
21		Panel, they said and I hate to refer back
22		to the Construction Panel, but I was trying
23		to corroborate. They had, I thought, said
24		two years. So I was trying to get a sense
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1		from you all with these timber mats how long
2		they are going to remain in place. So if I
3		can give you that open-ended question and
4		this only applies to Ms. Heald's property.
5	A.	(Nelson) Again, I'm sorry. I can't speak
6		with specifics about the duration, exact
7		duration that the mats would be in place
8		through that area. I wouldn't anticipate
9		that they would be there for as long as two
10		years. I know we have from my
11		understanding of the construction schedule, I
12		believe we have a one-year time frame,
13		perhaps a little more, that's currently
14		proposed.
15	Q.	Next question is when the timber mats are
16		down, is there any problem with the homeowner
17		or the property owner traversing these to get
18		to the other side of her property, in your
19		opinion?
20	A.	(Nelson) Difficulties not from the utility
21		standpoint. If the property owner desired to
22		cross these mats, by all means, they'd be
23		more than welcome to do so. Again, I'm sure
24		this was discussed during the Construction
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1		Panel. You know, the main interest is
2		safety. And during active construction
3		periods, we request that any abutter stay
4		away from the active construction zone. But
5		outside of active construction, the property
6		owner would be more than free to cross over
7		at will.
8	Q.	And is it your understanding, Mr. Nelson,
9		that active construction is going to be
10		periodic, that it's not going to be a
11		continuous, multi-month, everyday event?
12	A.	(Nelson) With respect to Ms. Heald's
13		property, it would be periodic. I think Mr.
14		Plante addressed this briefly about
15		anticipated construction time frames.
16	Q.	Yeah, so thank you for that corroboration.
17		With respect to the timber mats, is
18		there any limit to how long they can be
19		placed?
20	Α.	(Nelson) From an environmental standpoint?
21	Q.	I'm sorry. Let me just rephrase that
22		question.
23		Is there any outer foot limit to how
24		long timber mats can be strung together?
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1	Α.	(Nelson) Sorry. I'm not quite understanding.
2		Outer limit of how long they can be strung
3		together? I don't know what
4	Q.	I mean, bridge spans have a maximum limit,
5		50 feet, 300 feet. So I'm trying to get a
6		sense of is there a functional limit to these
7		timber mats in how long you can string them
8		along?
9	Α.	(Nelson) How long they can span an open area?
10		Is that the
11	Q.	Perhaps it would be better to show you. I'll
12		go back to the
13	Α.	(Nelson) Sure. Timber mats can be layed
14		directly on the ground surface. As you see
15		in some of these photographs, they can span
16		across a surface water area. The length of
17		span, I believe the typical lengths of these
18		are around 16 feet. I can't speak to, you
19		know, how much loading these would
20		anticipate. You know, so what your available
21		span length is, I'm not a hundred percent
22		sure. But these are certainly representative
23		of some of the spans that can be achieved
24		with these mats.

Q.	Thank you. I think that's sufficient.
	Now, the Construction Panel had referred
	to restoration questions to this panel, so
	I'm going to go back to Ms. Heald's property.
	And I think the question is to Ms. Allen, but
	Mr. Nelson, maybe you as well.
	When these timber mats are finally
	removed after construction, how long will it
	take to restore the wetland functions that
	you see impacted on this Exhibit 148?
А.	(Allen) That we see impacted where? Looking
	at a specific
Q.	Actually, maybe I should back up.
	In the DES conditions, there were, I
	believe, 637,188 square feet of temporary
	wetland impacts that the Company had to
	restore.
	So I guess first I should ask a base
	line question of are those temporary impacts
	on Ms. Heald's property, such that she could
	expect restoration?
А.	(Allen) Those are temporary impacts, yes.
Q.	Okay. Thank you. And so when restoration
	happens, do you know how long it will take
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1		before full function is restored?
2	Α.	(Allen) I know the wetlands on her property.
3		And the degree of impact is going to vary.
4		In areas that are very wet, it takes a little
5		bit longer. But they typically do the
6		construction and do the timber mat layout in
7		a way that minimizes the footprint of that.
8		So it's kind of a counterbalance to the
9		length of time that it would be there. So it
10		would be a smaller footprint within that area
11		that would be substantially impacted, whereas
12		other portions of it would have fewer
13		temporary impacts, less significant temporary
14		impacts.
15	Q.	Okay. Understood. So the full extent of
16		restoration could vary on her property.
17	A.	(Allen) Very much so.
18	Q.	Okay. Thank you.
19		We understand that there is in the
20		sorry. The picture just the exhibit just
21		disappeared. I got it pulled up on my
22		computer, but I'll just keep going.
23		(Discussion off the record)
24	BY M	S. BROWN:
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1	Q.	With the DES approval and conditions, it had
2		a condition I believe to monitor the wetland
3		restoration; is that correct?
4	A.	(Allen) Correct.
5	Q.	And that restoration is for a full growing
6		season?
7	Α.	(Allen) Which condition are you referring to?
8	Q.	Pardon me?
9	А.	(Allen) Which condition are you referring to?
10	Q.	I don't remember the paragraph in the DES
11		permit conditions, but it's in the Natural
12		Resource Impact Assessment, the revised one,
13		which was Exhibit 97. And in there I believe
14		it talks about oh, wait a minute. I'm
15		sorry. I'm getting confused. I don't have
16		the citation to the DES condition for the
17		contractor to monitor the wetland function.
18	Α.	(Allen) The reason I'm asking is that we have
19		several types of wetland monitoring that
20		we're doing, so I want to make sure we're
21		talking about the correct one.
22	Q.	I'm only talking about fresh water, not salt
23		marsh.
24	А.	(Allen) Okay.

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1	Q.	So with respect to monitoring, it sounds like
2		it is a general monitoring in the permit.
3		But can it include specific monitoring? And
4		the reason I ask that is this is a gardening
5		business with specific plants. So will that
6		monitoring can that monitoring plan apply
7		to specific plants on a landowner's property?
8	A.	(Nelson) Well, our condition with respect to
9		monitoring would be primarily focused towards
10		wetland areas. I know we have the unique
11		situation on Ms. Heald's property. If there
12		were specific plants on her property that
13		were of concern, you know, Eversource could
14		certainly make accommodations to monitor
15		those areas to the best of our ability.
16	Q.	Yes. And I apologize. I wasn't clear.
17		Talking about the wetland issues. My
18		question pertained to the wetland plants. So
19		that's how I thought it would flow into you'
20		monitoring, and that was the background of my
21		question.
22	A.	(Nelson) So is it specific native plants
23		within the wetland on Ms. Heald's property
24		that are of concern?
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1	Q.	I feel our roles are reversed. But yes.
2	Α.	(Nelson) Just for clarity, I'm trying to
3		understand whether this was nursery,
4		potential nursery stock that Ms. Heald is
5		culturing or if we're referring to native
6		vegetation that happens to be in the
7		right-of-way corridor.
8	Q.	Okay. To further elaborate on that
9		clarification, some of the plant stock is
10		native, and it is wetland species. So am I
11		correct, then, that Eversource could be
12		amenable to extending a monitoring plan to
13		cover those plants?
14	A.	(Nelson) Correct. I think what could be done
15		is a pre-construction survey of areas that
16		would be impacted by construction and then
17		sort of a comparison post-construction.
18	Q.	Okay. Question about there was a condition
19		in the restoration plan that rye grass and
20		other seeded mix could be substituted with
21		different with other seedlings or other
22		plant stock on a specific property. And I
23		just want that clarification, that that is
24		something that could be done on Ms. Heald's
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1 property.

- A. (Nelson) Yeah, I certainly believe we can
  make certain accommodations for Ms. Heald's
  property.
- With respect to chemicals, if there are any 5 Q. chemicals that are on the property as a 6 7 result of the construction project, is there any assurance that Ms. Heald can have that 8 the chemicals are either removed or have a 9 baseline that there are no chemicals that 10 11 were accidentally leaked onto the property? 12 (Nelson) Could you be more specific with Α. respect to chemicals? There's no herbicide 13 14 usage proposed as part of this project. 15 There's no pesticide usage proposed as part 16 of this project. With respect to chemicals, 17 you know, this is going to be typical transmission line right-of-way construction, 18 and the materials associated and equipment 19 20 associated with that type of construction. 21 So, chemicals, typically you're talking about 22 petroleum fuels and that sort of thing. 23 There is no -- as part of construction Best Management Practices, there's certainly no 24 {SEC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1		desire or, you know, certainly not
2		anticipated that chemicals would be spilled
3		on anyone's property. That being said, in
4		the event that there was an inadvertent spill
5		event for example, a fuel line leak or a
6		hydraulic line leak there are plans in
7		place to deal with those sorts of events.
8	Q.	Thank you. Now, with respect to the
9		restoration that we're seeking for
10		Ms. Heald's property in using specific plants
11		rather than rye grass, seed mix, et cetera,
12		does Eversource, or you personally in you'
13		expertise or experience, Ms. Allen,
14		Mr. Nelson, have experience with this type of
15		specific restoration?
16	А.	(Allen) And I'm going to ask you to specify
17		what that "specific restoration" is.
18	Q.	Restoration that is not just the general rye
19		grass seed mix, that's not just the generic
20		used native plants. But has Eversource, or
21		have you, been involved in other projects
22		involving restoration that has used specific
23		plants specific to a landowner's property?
24	Α.	(Allen) I've certainly done a number of
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1		restorations where specific species have been
2		used or, as you say, seed mixes have been
3		used to achieve either a particular community
4		or some other design component.
5	Α.	(Nelson) I've also had experience with
6		plantings and placement of seed in
7		right-of-way areas as well. We've done in
8		a former role, I was a transmission arborist
9		and oftentimes worked with property owners to
10		put together plantings in areas where we
11		removed non-compliant vegetation. And
12		certain applications where you're talking
13		about a section of right-of-way that is
14		covered with native vegetation, we've
15		endeavored to put native-type plants back in
16		those areas.
17	Q.	Thank you for that response.
18		Ms. Pembroke, I have some questions for
19		you. Now, Ms. Pembroke, the Construction
20		Panel had explained that this visual
21		assessment, that Eversource had developed the
22		specifications for this visual simulation.
23		So I'd like to follow up on this. And one of
24		the specifications in here

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1		PRESIDING OFFICER WEATHERSBY: I'm
2		going to ask you to pause for a minute. We
3		don't have it on the screen. Maybe you can
4		tell us the exhibit number and we can pull it
5		up on ours while Dawn works on
6		MS. BROWN: I'm referring to
7		Exhibit 186, and I'm on Page 4 of that
8		document, for the record.
9	BY M	S. BROWN:
10	Q.	Can you see it on you' monitor?
11	Α.	(Pembroke) I can.
12	Q.	With respect to the base photograph, who at
13		Eversource determined or decided to use this
14		base photograph on this day?
15	Α.	(Pembroke) I have no idea. I wasn't involved
16		in this simulation.
17	Q.	Okay. Does anyone else on this Environmental
18		Panel know?
19	Α.	(Allen) This was done by LandWorks, the
20		visual assessment team.
21	Q.	So is it that this particular specification,
22		the selection of this base photograph, was
23		not something that Eversource determined? Is
24		that correct?

1	A.	(Allen) I think you best ask LandWorks how
2		that determination was made. It was not our
3		environmental decision.
4	Q.	Okay. That's the answer I was looking for,
5		is if because thinking from the
6		Construction Panel, that Eversource had a
7		hand in selecting this, I wanted to find out
8		if this particular specification and am I
9		correct, Ms. Allen, you just said Eversource
10		was not involved in the selection of this
11		base photograph?
12	A.	(Allen) No, I said the environmental team was
13		not involved. I'm sure Eversource was
14		involved at some point.
15	Q.	Okay. Thank you for that clarification.
16		Ms. Pembroke, I have some follow-up
17		questions regarding the barge work. I
18		understand from the Construction Panel that
19		the barge needs to stay afloat in order to do
20		its work and not touch any of the intertidal
21		area. Is that your understanding?
22	Α.	(Pembroke) That's my understanding.
23	Q.	Okay. And is that so that there's no harm
24		to or is that to mitigate harm to the
	{ c <sup>.</sup>	EC 2015-04 [Day 5 AFTERNOON ONLY] $\{09-20-18\}$

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1		intertidal zone?
2	A.	(Pembroke) I believe it has to do with what
3		the contractor is comfortable with more than
4		to specifically avoid impact to the
5		substrate.
6	Q.	Okay. All right. But it's the Environmental
7		Panel's concern on any damage to the
8		intertidal zone; is that correct?
9	Α.	(Pembroke) That's correct.
10	Q.	Okay. And so if a barge touches the
11		intertidal zone, that would be something that
12		you would have to look at; is that correct?
13	Α.	(Pembroke) Yes. And our estimates for the
14		impacts in those areas assumed that the barge
15		sat on the substrate.
16	Q.	Can you I'm sorry. I didn't hear that.
17	A.	(Pembroke) When we evaluated impacts to the
18		intertidal shallow subtidal zone on the tidal
19		flats, we assumed that the barge actually did
20		sit on the substrate. So we feel like we
21		have identified those potential impacts and
22		addressed them.
23	Q.	Okay. Can you remind me which report that
24		was in? Was that in the Natural Resources
	{s	EC 2015-04 $[Day 5 \text{ AFTERNOON ONLY}] \{09-20-18\}$

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1		Assessment?
2	A.	(Pembroke) Well, it would be in the impact
3		report.
4	Q.	Thank you.
5		Now, the dispersion modeling or the
6		dispersion model report had based a tidal
7		range on 2 to 4 meters. Was that actually
8		let me just rephrase this.
9		Did the 2 to 4-meter reference to the
10		tidal height in the dispersion model factor
11		in to how many days or how many hours a
12		day the barge could work out in the bay?
13	A.	(Swanson) Could you point me to where in the
14		report? Because it could have been a general
15		description of what happened in the Great Bay
16		estuary system, or more specifically to the
17		neap and spring tides that we used in the
18		model.
19	Q.	Okay. That was Exhibit 104, and Page 2 of
20		98, if you need to take a look at that. My
21		question is just more general.
22	Α.	(Swanson) Page 2 as listed or the PDF?
23	Q.	Let me find that. It's electronic.
24	A.	(Pembroke) Trying to make sure we're in the
	{s:	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1		correct report. Is it the revised model
2		report or the original model report?
3	Q.	Revised, Exhibit 104.
4	A.	(Pembroke) I'm sorry. I can't keep the
5		exhibit numbers straight, so
6	Q.	That's okay. So do you see that reference
7		now?
8	Α.	(Swanson) I see it on Page i.
9	Q.	Roman little i, yes.
10	Α.	(Swanson) Okay. Yes. And that is the tides
11		in the estuary system, not just Little Bay,
12		vary between 2 and 4 meters.
13	Q.	So the question was did that tide height
14		factor in to the hours of the barge's ability
15		to work on a given day, not grounding,
16		basically?
17	A.	(Swanson) No. That was a general description
18		of the system and not having to do with the
19		Little Bay tidal range.
20	Q.	Okay. All right. So would you agree with me
21		that tidal height in the estuary is more
22		about is about 6 to 7 feet, in that range,
23		on a given month?
24	A.	(Swanson) Let me take a look.

1		(Witness reviews document.)
2	Α.	(Swanson) Assuming a tidal range of about 2.3
3		meters, which would be roughly 2.3 yards,
4		which will be roughly 8 feet, 7 feet, very
5		roughly.
6	Q.	Thank you for that.
7		Now, there was reference and forgive
8		me, I don't remember the page citation
9		that the work would be done as close to slack
10		high tide as possible. Do you remember that?
11	A.	(Pembroke) Yes.
12	Q.	And how long is that period of time?
13	Α.	(Pembroke) It's probably about two hours.
14		One to two hours. It would have to start on
15		the western flat at around slack high tide in
16		order for the barge to be able to start
17		across the bay.
18	Q.	Okay. Now I want to turn to timing, because
19		this equipment is going to be in front of a
20		riparian owner property, how long will it
21		take actually, as the tide changes, how
22		much time is needed to move the barge to
23		deeper water to keep it afloat?
24	Α.	(Pembroke) Well, I think it depends on the
	{s	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1		tide, whether it's a spring tide or a neap
2		tide, or one in between spring tide being
3		a period when the tidal range is the greatest
4		and neap tide is when the tidal range is the
5		least. But the barge will be able to once
6		it starts, it will remain in deep enough
7		water to run the jet plow in any of the cases
8		that were modeled, in terms of the rate of
9		advancement. So we looked at three different
10		speeds at which the jet plow could be drawn
11		across the estuary. We're estimating that it
12		will be between 7 and 13 hours,
13		approximately, for the jet plow to get across
14		the bay.
15	Q.	Yes, but this was more specific. And I guess
16		the difficulty is this is a barge that's
17		going to be in continuous motion rather than
18		stopping and starting; is that right?
19	A.	(Pembroke) It will stop intermittently
20		because it gets propelled by pulling against
21		anchors. So the anchors have to be reset.
22		So the anchors off the bow will be set as far
23		in front of the barge as possible, and then
24		it essentially pulls against those to propel
I	{ sı	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

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1		forward. Once they've caught up with the	
2		anchors, they have to stop and reset.	
3	Q.	And when you say "anchors," are these	
4		traditional anchors, or are these pilings	
5		that are lowered?	
6	A.	(Pembroke) Oh, they're traditional anchors,	
7		giant Danforth-type anchors.	
8	Q.	And how many anchors are deployed?	
9	Α.	(Pembroke) The Construction Panel has	
10		indicated that they would have four, two	
11		forward and two aft.	
12	Q.	And so those are going to be disturbing the	
13		bottom?	
14	A.	(Pembroke) Yes.	
15	Q.	Okay. Is there any restoration plan for that	
16		disturbed intertidal area, the disturbance	
17		caused by the anchors?	
18	A.	(Pembroke) Well, the anchors won't be in the	
19		intertidal area, to the best of my knowledge.	
20		The intertidal area on the western shore	
21		actually doesn't go out as far as the	
22		topographic map implies it does. It's	
23		extremely shallow subtidal. Well, I mean,	
24		this is really Construction Panel to describe	
ļ	{s:	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}	

1		this. But they're not able to set the jet
2		plow all the way to the upper intertidal zone
3		because of the depth requirements of the
4		barge.
5	Q.	So with respect to the lower, I guess the
6		deeper part of the intertidal area, the barge
7		is going to be working in that area then;
8		correct? Isn't that what you just said?
9	A.	(Pembroke) The jet plow will be. The barge
10		will actually be located as close to the
11		channel as possible and not really located on
12		top of the shallow subtidal zone.
13	Q.	Just one more question on this. So with
14		respect to the disturbance caused by anchors
15		in the deeper intertidal area, you're saying
16		that that is not going to occur because the
17		anchors just aren't going to be there because
18		the barge is so far into the channel?
19	A.	(Pembroke) Well, it's hard for us to know
20		exactly where the anchors will be placed.
21		The construction crew can't tell us. They
22		have to determine when they're there. So
23		there probably will be some anchor imprints,
24		essentially, in the shallow subtidal area on
	{s	EC 2015-04 [Day 5 AFTERNOON ONLY] $\{09-20-18\}$

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1		the western tidal flat. As is typically the
2		case for this type of construction project,
3		it's usually left to natural processes for
4		the sediment to refill any impressions made
5		by the anchors.
6	Q.	And is that usual, what is done with this
7		project, this specific project?
8	A.	(Pembroke) That's been the intent.
9	Q.	Okay. Thank you.
10		I just want to refresh on the DES
11		approval. Condition 36 specified no time of
12		year for the project, but what is the
13		expected time of year for the project?
14	A.	(Pembroke) For the jet plow work?
15	Q.	For the jet plow.
16	A.	(Pembroke) Yeah, they're looking at
17		September, October.
18	Q.	And a question about the sediment dispersion
19		model. Did it take into consideration the
20		seasonal fluctuation of the currents in the
21		bay?
22	A.	(Swanson) Not directly because it used the
23		tide. But we ran the tide for the period of
24		the September-October period. As you know,
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1		the tide varies from one tide cycle to the
2		next. But over a longer period, it kind of
3		averages out to the typical tide. But we did
4		look at the time we chose a spring tide
5		where the tide range was the largest, and
6		then a neap tide where it was relatively
7		small.
8	Q.	Yeah, I understand that it took into
9		consideration the tides. What about current
10		flows from the river?
11	A.	(Swanson) Current flows from the river, yes.
12		We used the USGS data for a 10-year period
13		during the September-October time frame and
14		looked at the flow rates for that
15		September-October period over the decade.
16	Q.	And does non-saline river water usually
17		settle to the bottom, and the tide salt water
18		would be on the top?
19	A.	(Swan) No, it's actually the reverse, where
20		the salt water is heavier.
21	Q.	Thank you.
22	A.	(Swan) The issue for late summer/early fall
23		is the river flows are pretty much at their
24		lowest level. So the amount of fresh water
	{s	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1		coming into the system is minimal, as minimal
2		as you would see it over the course of the
3		year.
4	Q.	Thank you. I have a question about the
5		concrete mattresses.
6		When the ice actually, I'll back up.
7		Are you familiar with ice flows
8		occurring in Little Bay?
9	A.	(Pembroke) I understand that they do.
10	Q.	And so when the concrete mattresses perhaps
11		are shifted by the ice, is there any plan to
12		restore the location of the concrete
13		mattresses?
14	A.	Well, it's my understanding from the
15		construction experts that they selected the
16		9-inch-thick concrete mattresses to avoid the
17		likelihood of their being shifted by ice or
18		other forces.
19	Q.	So the Environmental Panel is not going to
20		have been any involvement because of the
21		Construction Panel concluding that these
22		mattresses will not move?
23	A.	(Pembroke) We have not addressed the need for
24		mitigation in that event because it's our
I	{ <b>s</b> :	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

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1	understanding that the likelihood of it	
2	happening is so low.	
3	Q. I think that's it for my questions. Thank	
4	you very much.	
5	A. (Pembroke) Thank you.	
6	PRESIDING OFFICER WEATHERSBY: Let's	
7	take a 15-minute break, be back at quarter of	
8	four, at which time we will have Attorney	
9	Richardson up next for the Crowley-Joyce	
10	Revocable Trust. Thank you.	
11	(Recess was taken at 3:32 p.m.	
12	and the hearing resumed at 3:49 p.m.)	
13	PRESIDING OFFICER WEATHERSBY: Okay.	
14	Back on the record. Attorney Richardson, you	
15	may proceed.	
16	MR. RICHARDSON: Thank you, Madam	
17	Chair.	
18	CROSS-EXAMINATION	
19	BY MR. RICHARDSON:	
20	Q. Good afternoon.	
21	A. (Panel Members) Good afternoon.	
22	Q. Justin Richardson with Upton Hatfield, here	
23	for Mark Joyce and the Crowley-Joyce Trust.	
24	Which of the panel members were involved	
	{SEC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}	

1		in the preparation of the wetlands
2		application? And I believe that's
3		Applicant's Exhibit 32.
4	A.	(Allen) I probably am the lead person for
5		that.
6	Q.	Okay. And do you have experience in
7		permitting shoreline projects and docking
8		structures, structures including like
9		Eversource has proposed, or is this something
10		that's new for you?
11	Α.	(Allen) I've done some shoreline permitting,
12		yes.
13	Q.	Okay. Let me I want to look at PDF Page
14		181 of Applicant's Exhibit 32. And I'll pull
15		that up for you so you can see it if you
16		don't have that in front of you.
17		Do you see this? You recognize this as
18		part of the Application that was originally
19		submitted; right?
20	Α.	(Allen) Yes, I do.
21	Q.	And I read here, and it says, "Per
22		Env-Wt501.01(c), abutter notification is not
23		required for projects in utility ROWs"
24		which is rights-of-way therefore, abutter
ļ	{s	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1		notification has not been completed for the
2		portions of the Project located in existing
3		and/or proposed utility ROW areas." And
4		that's the position that Eversource took
5		before DES; right?
6	Α.	(Allen) That's correct.
7	Q.	And "abutter notification," that refers to,
8		in the wetlands process, where you'd
9		typically be required to provide, I believe,
10		a copy of an application to the abutters, not
11		just like a one-page notice.
12	Α.	(Allen) It's actually a notice that the
13		Application has being filed.
14	Q.	Okay. So it's a piece of paper that
15		describes impacts. And it goes by certified
16		mail with receipts to all the abutters?
17	Α.	(Allen) Correct.
18	Q.	And that was not done in this case.
19	Α.	(Allen) That's correct.
20	Q.	Okay. And it's also my understanding that
21		DES may have accepted this interpretation and
22		didn't provide notice to abutters as well; is
23		that right?
24	Α.	(Allen) I am it would be unusual for DES

1		to provide notice. And, yes, we discussed it
2		with them before we submitted this
3		application.
4	Q.	Have you been involved in projects where DES
5		has issued notices before?
6	A.	(Allen) Yes.
7	Q.	Okay.
8	A.	(Allen) I'm sorry. Just to be clear, when
9		you say "DES has issued notice," that means
10		that I have submitted permit applications
11		that required abutter notifications. The
12		Applicant usually does the notification.
13	Q.	Right, right. Thank you for that
14		clarification. My question was, obviously,
15		whether DES issued notice, not the Applicant,
16		not Eversource, but DES. And I believe you
17		said they didn't and Eversource didn't. So
18		is it fair to say that no one issued a
19		written notice of the Application that went
20		to my clients, Mark Joyce and Karen Crowley?
21	A.	(Allen) I'm not aware that one was provided.
22	Q.	Are any of the panel members aware of such a
23		notice being given?
24	Α.	(Pembroke) I wasn't involved in that.

1	Q.	Let me show you some correspondence that my
2		client did get from Eversource. And why
3		don't we I'll give you a copy. I'll put
4		it up on the screen and give it to everyone
5		and mark that as an exhibit. Excuse me. I
6		thought I had it right in front of me. Oh,
7		here it is.
8		So I want to turn your attention to my
9		client's response of July 11th. And let me
10		hand out a copy and give it to Applicant's
11		counsel. And I'll make it available as well.
12		MS. MONROE: So this would be, based
13		on my records, Attorney Richardson, JCT
14		Exhibit 18?
15		MR. RICHARDSON: That is correct.
16		Thank you.
17		(The document, as described, was
18		herewith marked as JCT Exhibit 18
19		for identification.)
20	BY M	R. RICHARDSON:
21	Q.	So what struck me about this is you can see
22		this is 7/11/2018, which is just after, I
23		believe, a technical session that was held
24		this summer. And it says here, you see my
l	{ <b>s</b> :	EC 2015-04} [Day 5 AFTERNOON ONLY] $\{09-20-18\}$

1		client saying in reference to the concrete
2		mattresses, he says, "This is all new and
3		very concerning information to us. The
4		original explanation spoke to underground jet
5		plow path up to the shore and then
6		underground through our neighborhood.
7		Everything seems to be very different in the
8		proposal." And then he says, "We'd
9		appreciate some accurate drawings of your
10		proposal. Thank you."
11		Now, just for context go back. Did I
12		read that correctly?
13	A.	(Allen) I think so.
14	Q.	Were you at that July 11th technical session?
15	A.	(Allen) I'm quite certain I was. I think it
16		was July 10th.
17	Q.	Okay. So let's go back a page. And you'll
18		see in the middle of Page 2 of what's been
19		marked as JCT Exhibit 18, it looks like the
20		Eversource personnel, Lauren M. Cote
21		that's an Eversource employee; is that right?
22	A.	(Allen) Correct.
23	Q.	Okay. Looks like she's providing a visual
24		simulation of the concrete mattresses, but
	{s:	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1		then says this is the Durham shore. But it
2		gives an idea of what it would look like. "I
3		will send in the next e-mail. These are
4		large files."
5		So as late as July of this year,
6		Eversource wasn't enable to give my client a
7		picture or a simulation of what the concrete
8		mattresses would look like in front of their
9		properties. Does that sound like I guess,
10		I mean, isn't that a problem, in terms of
11		giving landowners notice of what the impacts
12		are going to be on their property?
13	Α.	(Allen) I'm sorry. I haven't been involved
14		in negotiations with Mr. Crowley.
15	Q.	Oh, okay. But you prepared the wetlands
16		application; right?
17	Α.	(Allen) Yes.
18	Q.	Okay. So here's I mean, did you prepare
19		that Abutter Notification section that I
20		showed before?
21	A.	(Allen) I did.
22	Q.	Okay. What I read here is a representation
23		where it says in the second paragraph on
24		and this is Applicant's Exhibit 32, PDF Page
	{s	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1	181, it says, "It should be noted that the
2	Project has conducted and will continue to
3	conduct proactive outreach actions throughout
4	Project permitting and construction, and
5	public hearings will take place in accordance
6	with the NH SEC rules."
7	So, I mean, that statement seems to
8	suggest there's been a very active campaign
9	to provide information; yet, as late as this
10	year, my client's still unable to get a
11	picture or simulation of what the mattresses
12	would be and is also claiming that Eversource
13	represented to him that it was all
14	underground. Is that consistent with your
15	description here?
16	MR. NEEDLEMAN: Objection. Madam
17	Chair, Mr. Bowes was specifically disclosed as
18	the person that dealt with outreach on this
19	matter. That's what his testimony deals with.
20	His Exhibit 140, Attachment A, has a very
21	detailed summary of the Project outreach. And
22	I'm quite certain if he had been asked these
23	questions, he could have addressed them,
24	especially since the email we're seeing from
	$\{SEC 2015-04\}$ [Day 5 AFTERNOON ONLY] $\{09-20-18\}$

Ms. Cote is someone who's part of the outreach 1 2 team. MR. RICHARDSON: 3 But my question is whether the statement to DES that this witness 4 5 prepared is consistent with this e-mail here. And I'll be frank. I meant to ask this from 6 7 Mr. Bowes and neglected to do so. So this is 8 my only chance. PRESIDING OFFICER WEATHERSBY: 9 So the objection is sustained. Perhaps you can 10 11 rephrase your question to what you just stated, which is --12 13 MR. RICHARDSON: Thank you. I'd be 14 happy to do so. 15 BY MR. RICHARDSON: So is a landowner being able to or unable, 16 Q. 17 excuse me, to get a picture of or simulation of what the concrete mattresses are going to 18 look like in front of their property -- and 19 20 in fact, they claim they haven't even heard 21 of it -- that that doesn't sound like what 22 you were describing, as "proactive outreach 23 action throughout the project permitting." Was that what you envisioned happening when 24

1		you wrote this to DES?
2	Α.	(Allen) I can't speak to the specifics. I do
3		know that Eversource, from what I've seen,
4		has had a very aggressive outreach program.
5		And I do know that this Application has been
6		public for at least three years now, since
7		public hearings began in Newington. And all
8		information is available on the web site.
9	Q.	But it looks to me like, at least according
10		to what my client wrote to Eversource, that
11		they were told consistently up to this point
12		everything was going to be underground. And
13		they only learned of this until July 10 when
14		the technical session was held.
15	Α.	(Allen) Everything is underground in the
16		vicinity of this property.
17	Q.	Except for the concrete mattresses; right?
18	А.	(Allen) The cable is entirely underground.
19	Q.	Okay. And was my client supposed to draw
20		that type of distinction? I mean, if an
21		Eversource employee came up to them and said,
22		Oh, it's all going to be underground, it's
23		all going to be on your neighbor's property,
24		they would expect that would mean
	L	

1		"underground" means you won't see it. Isn't
2		that a reasonable assumption to make?
3	Α.	(Allen) I'm sorry. I can't speak to what was
4		said to Mr. Crowley.
5	Q.	Okay. Thank you. I'll move on then.
6		Let me just pull up, if I can and I
7		apologize. My photos that I had for the
8		witnesses on Tuesday, I believe or excuse
9		me on Monday disappeared, so I only have
10		my copy that I'll put on the Elmo. But this
11		is JCT Exhibit 7. And I'll assume that
12		you're aware that my clients have intervened
13		and you recognize this. So what do we see
14		here?
15	Α.	(Allen) This looks like the intertidal flat
16		below Mr. Crowley and Ms. Beswick's house.
17	Q.	Okay. And in the you can see that rock
18		outcropping that's shown in some of the
19		environmental maps. And that's kind of
20		near that's the general distance out where
21		we'd see some of these concrete mattresses
22		being placed; right?
23	Α.	(Allen) They will be further to the left of
24		that image.

1	Q.	Right. Further. Exactly. But so this is
2		JCT 16 that I'm showing you. And you can see
3		the location relative to where the barge
4		layout is, and then you can see the concrete
5		mattresses. And it looks like they're down
6		all in this area where the purple is marked
7		here; right?
8	A.	(Allen) Yes.
9	Q.	And those rocks that we saw a second ago,
10		those would be somewhere over probably in
11		that area where my finger is right now;
12		right?
13	A.	(Allen) That's about right, yes.
14	Q.	All right. Let me pull that up. And if
15		everyone can just follow like where the dock
16		is, where the peninsula is. So I'll bring
17		that picture back up.
18		(Pause in proceedings)
19		So it looks to me like that route
20		like that rock outcropping is actually out a
21		little bit further than the end of the
22		peninsula, and the concrete mattresses are
23		actually nearer to shore than where that is.
24	Α.	(Allen) The concrete mattresses are coming
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1		from approximately the end of that rock	
2		outcrop and heading partway up the shore,	
3		yes.	
4	Q.	Closer to the shoreline from where	
5	Α.	(Allen) Coming into the shoreline, yes.	
6	Q.	I mean, this tidal zone can be pretty exposed	
7		when the low tide's out. It's flat. It's	
8		not covered by water. I think this is	
9		it's probably the mud flats are visible for	
10		about half of the tide cycle. Would that	
11		sound about right to you?	
12	A.	(Allen) I think that's an overestimate. But	
13		I understand you' point that it's quite	
14		shallow here.	
15	Q.	Hmm-hmm. And so if half is an	
16		overestimation, how would you estimate, you	
17		know, when the mud flats would be visible,	
18		like we see here?	
19	Α.	(Allen) I would have said that was	
20		approaching mean low water.	
21	Q.	Okay. Now let's go back to I want to pull	
22		out Applicant's Exhibit 166, Page 21 of 25.	
23		That's on the top. That's the DES final	
24		decision. So you'll probably get to that	
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1		before I can.	
2		(Pause in proceedings)	
3	Q.	And so let's start with Finding No. 24, which	
4		is down at the bottom. Have you got it	
5		there? I've got it on the screen for you	
6		here.	
7	Α.	(Allen) you' in the back in the findings?	
8	Q.	Yes. I'm sorry. It's up on top, says Page	
9		21 of 25.	
10	Α.	(Allen) I've got it.	
11	Q.	So, Finding 501.01(c), "Abutter notification	
12		is not required for projects within ROWs."	
13		Reason I say that is it looks to me like DES	
14		adopted exactly what you wrote, that citation	
15		to 501.01(c); right?	
16	Α.	(Allen) I would say so, yes.	
17	Q.	And are you aware that that's not actually	
18		the right rule; it's 501.01(e) that should be	
19		referenced?	
20	Α.	(Allen) I did not cross-reference it.	
21	Q.	But DES has copied exactly what was written	
22		in you' application. It essentially relied	
23		on what your office and Eversource submitted.	
24	Α.	(Allen) I can't speak to that. That's not	
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1		uncommon. They're busy people.
2	Q.	Okay. Well, the reason I want to bring this
3		up is and let me bring that rule to you
4		because I think there's a nuance to it that
5		we should go over.
6		(Document handed to witness.)
7	Q.	So, down at the bottom I just copied the
8		DES rules for you. And I believe the correct
9		rule as I noted is in the WT 501.01(e). And
10		what it says is, "The notification required
11		by RSA 482-A:3,I(d) shall not be required for
12		minimum impact forestry, minimum impact
13		agricultural projects in utility
14		rights-of-way or public highway
15		construction." And that was probably the
16		rule that you meant to refer to and the DES
17		likely meant to refer to. But you both got
18		the rule slightly wrong.
19	A.	(Allen) By referencing C rather than E?
20	Q.	Correct. Yes.
21	A.	(Allen) Yes.
22	Q.	So, 482-A:3, that's the requirement that the
23		notice gets sent to all abutters by the
24		Applicant prior to filing; right?
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1	A.	(Allen) I'd have to I'd have to look it up
2		to confirm, but I trust you with this.
3	Q.	But subject to check, that's what you would
4		normally do, except in cases under this rule
5		where it's not required for utility
6		right-of-way projects. Does that sound
7		right?
8	A.	(Allen) That does sound right.
9	Q.	Okay. So this is not a minimum impact or
10		forestry project. This project was a major
11		project because it was in the tidal flats,
12		and for a variety of reasons; right?
13	A.	(Allen) It was.
14	Q.	Okay. So I want to flip this over. And I'm
15		going to show you the citation to 482-A:3,
16		the I(d). But then I want to show you two
17		other provisions at the same time, and we can
18		go over them. Let me zoom out so I can get
19		it for you. Okay. I think I've got that
20		there now.
21		And you see there the reference to
22		482-A:3, I(d). "At the time the Applicant
23		files the Application with the Department,
24		the Applicant shall provide written notice of
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1		the Project to," and then it says "all
2		abutters." So you're not subject to that
3		requirement.
4		But there is another law, and it's RSA
5		482:8 that's below, as well as 9, which I
6		quoted for you. And it says in 8, "The
7		Department shall provide reasonable
8		opportunity for public comment on proposals."
9		And then it says where I've underlined there,
10		"for projects with significant impact on the
11		resources protected by this chapter or of
12		substantial public interest." And that
13		phrase about the "significant impact on the
14		resources," that's the language in the rules
15		that refers to what major projects are;
16		right?
17	A.	(Allen) I'm not quite sure where you're going
18		with this, but I'll say yes for now.
19	Q.	Okay. I mean, subject to check, that's
20		the I don't know if I have that rule in
21		front of me, but that's my reading of it.
22		But then below that, under A:9, so when
23		we're dealing with major projects, the
24		statute says, "Like notice shall be mailed to
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1		all known abutting landowners." And I
2		believe you said before that the Department
3		did not provide notice to abutting property
4		owners, and neither did the Applicant in this
5		case.
6	А.	(Allen) I can speak definitively for the
7		Applicant.
8	Q.	And none of the panel members were aware of
9		whether or not the DES ever gave notice to
10		Mark Joyce.
11	Α.	(Pembroke) I have no knowledge of that.
12	Α.	(Nelson) No.
13	Q.	Now, the SEC held joint hearings back on
14		August 31st, 2016, in Newington. Were
15		members of this panel involved in those
16		hearings?
17	Α.	(Allen) I was.
18	Q.	Okay. Let me pull up the notice for that
19		hearing.
20		(Pause in proceedings)
21	Q.	So you see here there's an August 5th notice
22		for the hearing in Newington that was held on
23		August 31st, 2016. And that was the hearing
24		you referred to.
	<u>ر</u>	

1		Were you also at the Durham hearing that
2		took place on September 1st?
3	A.	(Allen) Yes.
4	Q.	Okay. And when you look at this, it just
5		references it's an SEC hearing. And I don't
6		believe that any members of the DES Wetlands
7		Bureau came. Obviously, Bob Scott was on the
8		committee then. What's your recollection?
9	Α.	(Allen) Oh, I'm not sure. I would have to
10		look at the sign-in list. There were quite a
11		few people there. I'm not sure about that.
12	Q.	So who has the sign-in list?
13	Α.	(Allen) I don't know the answer to that.
14	Q.	So DES maintains a sign-in list, is that
15		right, of the hearings it holds?
16	Α.	(Allen) I believe for the public hearings, I
17		believe that there's a sign-in list for
18		people coming in.
19	Q.	And when you look at the first page of this
20		Order of Notice, it actually only references
21		an SEC hearing. But what I want to do is I
22		want to flip it over, because accompanying
23		this order there actually was a public notice
24		to be posted. I don't know if I made this
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1		too small for anyone to read. And this is
2		part
3	A.	(Allen) Can you focus that a little bit,
4		please?
5	Q.	Sorry?
6	Α.	(Allen) Could you focus that a little bit?
7	Q.	Sure.
8	Α.	(Allen) Thank you.
9	Q.	So I'm looking at the third paragraph.
10		That's the one I wanted to focus on. And
11		what it says in the middle of that third
12		paragraph is, "The public hearing is a joint
13		hearing with representatives of the state
14		agencies that have permitting or other
15		regulatory authority over the subject matter
16		and shall be in lieu of all hearings
17		otherwise required by any of the other
18		agencies." And the reason I ask you about
19		that, and I want to ask you about that, is I
20		reviewed the transcripts for both hearings,
21		and I don't see that any representatives of
22		the DES shoreland or wetlands program
23		attended those hearings. And you've just
24		told me today there's apparently a sign-in
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1		list, which I don't think is part of this
2		record in this proceeding.
3		So is it do any of the panel members
4		recall the DES shoreline permit program
5		holding a joint hearing with the SEC?
6	Α.	(Allen) No, it wouldn't have been well, I
7		don't recall if they attended the SEC public
8		hearing.
9	Q.	And we've already gone over that certainly we
10		know that the DES didn't issue a separate
11		notice, as required by RSA 482:9, or at least
12		according to what it says. Was that you
13		were nodding your head "Yes"?
14	A.	(Allen) I'm agreeing with you.
15	Q.	Okay. Thank you. The stenographer has to
16	A.	(Allen) That's true. I'm sorry.
17	Q.	No, that's all right, that's all right.
18		So, typically, you know, if this were a
19		project and it wasn't for an energy facility
20		and the DES were to issue a notice, it would
21		describe the types of impacts that you would
22		see. Like you would see, you know, 150 feet
23		of riprap, if that was proposed, or you'd
24		see, you know, dredge and fill of

1		1,000 square feet as proposed. Those are the
2		types of things that go out in DES notices.
3	A.	(Allen) In very broad terms, yes.
4	Q.	And if someone were to propose concrete
5		mattresses or let's say it was a boat
6		ramp. I know from the Lake Sunapee cases,
7		you would see the DES notice would say
8		exactly, you know, it's a double-wide, these
9		are what the dimensions are, it's in the
10		shoreline, that's the type of thing. You
11		would expect to see that; right?
12	A.	(Allen) For the concrete mattresses, I
13		suspect they would have been mentioned. I'm
14		not sure how carefully they would have been
15		described.
16	Q.	Okay. Now, the Applicant has held numerous
17		meetings, and I don't want to go through all
18		the exhibits. But I did see a couple that
19		have come in recently that indicate there
20		have been ongoing discussions, basically
21		negotiating the terms and conditions. And
22		I've heard reference to that in your
23		testimony. Is that how long have those
24		discussions been ongoing?

1	А.	(Allen) I would not say that we were	
2		negotiating terms and conditions. I'd say	
3		that we were discussing and looking for	
4		clarity on their terms or on their	
5		conditions. We began in early May. We've	
6		met with them five times.	
7	Q.	May of what year?	
8	A.	(Allen) Of this year.	
9	Q.	And I believe I saw e-mail going back to 2017	
10		and 2016 in some of the exhibits that have	
11		been filed in response to the Town of	
12		Durham's record request. Does that sound	
13		right?	
14	A.	(Allen) We've met with DES, or DES has	
15		attended various meetings. I actually	
16		counted. It was almost 20 times.	
17	Q.	Okay. And DES didn't issue notice of those	
18		meetings, did they?	
19	A.	(Allen) No.	
20	Q.	How many of those were attended by Counsel	
21		for the Public? Do you know?	
22	Α.	(Allen) Most of those meetings were either	
23		Applicant meetings with DES, which is a very	
24		common project process. Some of them were	
ļ	{ន	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}	

1		joint meetings with other agencies to make
2		sure that we were basically fulfilling our
3		regulatory requirements.
4	Q.	Are you aware that in some proceedings like
5		this one, for example, it's not allowed for
6		the Applicant to just meet with the members
7		of the Committee because that would be what's
8		called an "ex parte" communication.
9	Α.	(Allen) I am aware of that.
10	Q.	Did that ever come up during the discussions
11		with DES, that their decision should be made
12		as part of a public hearing?
13	A.	(Allen) No, it did not. My understanding
14		with DES is that they were to conduct their
15		regulatory review per Normandeau procedure.
16	Q.	Let me pull Exhibit 166 back up for a moment.
17		In fact, it appears that what DES
18		determined I'm going to try to find it. I
19		think it's Finding 32. Oh, yeah, 32. I'm on
20		Page 22 or 25 of the NHDES final decision.
21		That's 166, Applicant's Exhibit. And you see
22		there it says, "Public hearings will be held
23		by the New Hampshire SEC to allow citizens
24		the opportunity to comment on the overall
	ſa	EC 2015-04 [Date 5 AFTERMOON ONLY] $\int 00-20-19$

		1.
1		project." Did I read that right?
2	A.	(Allen) You did.
3	Q.	Okay. And that's actually exactly what I
4		believe Eversource and your team told DES in
5		the Application. I'll put that up for you.
6		We're back at Applicant's Exhibit 32,
7		Section 14, Abutter Notification. It says
8		right there in the bottom paragraph, the
9		second paragraph at the end, "Public hearings
10		will take place in accordance with the SEC
11		rules." But the statute actually requires
12		DES to hold a hearing as well, based on what
13		482-A:9 and A:8 said, I believe.
14		MR. NEEDLEMAN: Objection. This
15		calls for a legal conclusion.
16		MR. RICHARDSON: And I'm sorry. I'm
17		not asking her for a legal conclusion. I'm
18		just asking to contrast, to make sure there was
19		no DES hearing is really the purpose of my
20		question.
21		PRESIDING OFFICER WEATHERSBY: You
22		did ask for a legal conclusion, so I'm going to
23		sustain the objection. Perhaps you can
24		rephrase.
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1 MR. RICHARDSON: Thank you. BY MR. RICHARDSON: 2 So we saw before that RSA 482:A-8 and 9 3 Q. appear to be somewhat different, and that's 4 5 probably a legal issue to be decided. Does that sound fair? 6 7 MR. NEEDLEMAN: Same objection. 8 PRESIDING OFFICER WEATHERSBY: Sustained. 9 MR. RICHARDSON: Yeah, I agree. 10 Ι 11 don't think there's a way -- I think the 12 point's been made. I'm not sure I can phrase it without going down that road, so I'll move 13 14 on. BY MR. RICHARDSON: 15 16 Let's follow through, though, with what DES Q. 17 did, because obviously DES is a state agency, and they have to make legal determinations 18 19 when they review process --20 PRESIDING OFFICER WEATHERSBY: 21 Attorney Richardson, you will be circling us 22 back to the scope of you' testimony at some 23 point; correct? 24 MR. RICHARDSON: I am. I obviously {SEC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

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1	have to get it in the record because DES, I
2	think, didn't hold a hearing in this case. And
3	so my only opportunity to talk about what DES
4	did is through the only party that was at those
5	meetings and how that resulted in where we're
6	at. But I'm actually almost I think I have
7	one more question on this subject, so
8	MR. NEEDLEMAN: Madam Chair, I'm
9	actually going to object at this point. That's
10	not accurate. It's his only opportunity
11	because his client chose to not intervene until
12	probably over two years after the Application
13	was filed. They had multiple opportunities for
14	that sort of participation. And so I think to
15	continue the questioning of this panel that
16	really has absolutely no bearing on their
17	testimony is just not reasonable.
18	MR. RICHARDSON: And if I may remind
19	the Committee about the evidence heard earlier,
20	just a moment ago. My client's position at
21	least is that he was told the Project would be
22	underground and on the abutter's property. So,
23	I mean, I think that would tend to explain why
24	his involvement was what it was and the

1	surprise when he learned otherwise.
2	PRESIDING OFFICER WEATHERSBY: So you
3	have one more question on this subject; is that
4	correct?
5	MR. RICHARDSON: Yes, that's correct.
6	PRESIDING OFFICER WEATHERSBY: I'll
7	overrule the objection and allow you to ask one
8	more question.
9	BY MR. RICHARDSON:
10	Q. So you see below Finding No. 32 which we
11	looked at, that DES says here that the New
12	Hampshire SEC has jurisdiction over the
13	entire project and therefore will ultimately
14	decide if the Project is approved or denied.
15	Did I read that correctly?
16	A. (Allen) Yes, you did.
17	Q. And do you interpret that to mean, as I do,
18	that DES is saying here that they're not
19	making a determination of whether the Project
20	should or shouldn't be built; they're just
21	deciding whether the Project complies with
22	their rules? Is that a fair does that
23	reflect you' discussions with DES?
24	MR. NEEDLEMAN: Objection. Calls for
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1 a legal conclusion. The document speaks for itself. 2 MR. RICHARDSON: The same response. 3 This witness was involved in the discussions 4 with DES that lead to these permit conditions. 5 I'm actually hoping to ask questions about her 6 7 experience and whether we see conditions like this in other projects. 8 PRESIDING OFFICER WEATHERSBY: 9 Τ think the question that was asked was about 10 11 their understanding, so --12 MR. RICHARDSON: Okay. I'11 rephrase --13 14 PRESIDING OFFICER WEATHERSBY: Could 15 you repeat what his actual question was? 16 That's all right. I think it was their 17 understanding rather than calling for a legal conclusion. So I will allow it, but that is 18 19 your question. 20 MR. RICHARDSON: And I think I agree. 21 Your point's well taken. I think I should 22 probably rephrase it. So I'll go ahead and do 23 that. BY MR. RICHARDSON: 24 {SEC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1	Q.	That's an unusual permit condition. You
2		don't typically see DES saying, look, we're
3		not here to decide whether something gets
4		built or not.
5		MR. NEEDLEMAN: Objection. How would
6		these witnesses know whether that's a unusual
7		permit condition or not?
8		MR. RICHARDSON: They're wetlands
9		experts.
10		PRESIDING OFFICER WEATHERSBY:
11		Sustained.
12		MR. RICHARDSON: Excuse me one
13		moment. I'm looking for the next line to
14		follow through on.
15		(Pause in proceedings)
16	Q.	Were any of the panel members involved in
17		the I'm sorry. Before we jump to that, I
18		want to ask a few more questions about the
19		DES conditions.
20		Now, why don't we turn to let's start
21		with this is page it's Finding No. 4 on
22		the DES conditions. And that's going to be
23		on Page 19 of 25 of Exhibit 166. And what I
24		want to ask you is: This statement isn't
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1		technically correct, is it? No. 4 says, "The
2		Project proposes all work to be within an
3		existing power line right-of-way." That's
4	Α.	(Allen) And your question is?
5	Q.	That's not technically, entirely true in this
6		case. It's certainly not true for the
7		portions that are immediately in front of the
8		Crowley-Joyce property; right?
9	A.	(Allen) Are you talking about the subtidal
10		portion that's considered a cable area rather
11		than a right-of-way?
12	Q.	That's right, yes.
13	A.	(Allen) I'm aware of the distinction. I
14		guess I'm not sure how it's interpreted by
15		law.
16	Q.	Okay. Well, I think Eversource made a
17		determination when you submitted the
18		Application. I'll bring this up again. It's
19		Exhibit 32, and it's at Section 14. There's
20		two categories there. They're located in
21		existing and/or proposed utility ROW areas.
22		And that's so you' drawing up two
23		categories. There's the existing
24		rights-of-way, and then there's new ones,
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1		such as where this line will approach the
2		Beswick property and come into an area where
3		there wasn't previously a right-of-way before
4		this project was proposed.
5	Α.	(Allen) Correct.
6	Q.	So it's different than what DES made as its
7		finding.
8		Let's look at the next one DES did. And
9		I believe it's on the next page, and it's No.
10		10, Finding 10 of Exhibit 166. And before we
11		get down to Subparagraph F, I want to ask you
12		about the top, where it says, The Applicant
13		indicates that their application and the plan
14		is the alternative with the least adverse
15		impact to areas and environments under the
16		Department's jurisdiction, per Administrative
17		Rules 302.03.A.2. And my question to you
18		about that is: That's a required finding in
19		order to issue a permit on just about any
20		project, isn't it? You have to show by plan
21		and example that the project is the least
22		impacting alternative?
23	Α.	(Allen) The word "reasonable" or
24		"practicable" is often included in there. So
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1		it's a balance between environmental impacts
2		and constructability and feasibility.
3	Q.	Okay. Thank you.
4		So then it looks like there's a series
5		of findings in support of that overall
6		conclusion that the Department made to
7		support its permit. And we see that again in
8		Paragraph F. "Impacts to estuarian wetlands
9		are restricted to existing cable crossing
10		corridors which has been utilized in the past
11		and contains de-energized cables that are
12		obsolete. But there are estuarian wetlands
13		impacts that are outside that area we just
14		reviewed; right?
15	A.	(Allen) All of our work is included within
16		the mapped cable corridor.
17	Q.	Okay. But this is a change from where the
18		prior 11-foot easement was; isn't that right?
19	A.	(Allen) On Mrs. Beswick's land?
20	Q.	Yes.
21	A.	(Allen) It comes in on the side of Mrs.
22		Beswick's land as opposed to the end of it.
23	Q.	Do you think that if the Department knew that
24		there were new easement areas proposed, or if
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1		they paid close attention to that, they would
2		have wanted to look at other alternatives
3		that might have less impact?
4		MR. NEEDLEMAN: Objection. Calls for
5		speculation. How could these witnesses know
6		what the Department might have thought.
7		MR. RICHARDSON: I asked them if they
8		knew that the easement had changed, would they
9		have done this differently. It has to be a
10		hypothetical.
11		PRESIDING OFFICER WEATHERSBY: You
12		asked them what they think DES would have done,
13		and that objection is sustained.
14	BY M	R. RICHARDSON:
15	Q.	So if you had several different alternatives
16		in front of you, one would be to go over the
17		Beswick's land where there was lawn and
18		minimal wetlands; another proposed easement
19		area where it was all natural forest land,
20		there was salt marsh grasses, there were eel
21		grasses. Clearly you'd need to compare the
22		two, to look at which one was the least
23		<pre>impacting alternative; right?</pre>
24	A.	(Allen) I would agree with that. I disagree
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1		with you' characterizing the new site as
2		"forested and with wetlands."
3	Q.	Understood. I was trying to ask just a
4		hypothetical to explain the process, not to
5		describe the particular land here. But with
6		that caveat, I think you were agreeing to my
7		proposition that, if you had several
8		alternative areas, you'd want to look at
9		which one was the least impacting.
10	A.	(Allen) We had a discussion with DES prior to
11		making this design change. They were aware
12		of the design change and the reasons for it.
13	Q.	Okay. And so it's your position, then, that
14		because the proposed route is within the
15		1,000-foot envelope, or that really wide
16		corridor, that there's no need to evaluate
17		whether one impact has more than another, or
18		one particular direction has one or the
19		other? Is that your interpretation of how
20		the rules work?
21	Α.	(Allen) I don't think I said that. We did do
22		a full evaluation of the new route, including
23		the additional impacts to marine
24		environments.
	<b>c</b> .	

1	Q.	Let's look at let me go over one more
2		finding then, and we'll then discuss those
3		different routes.
4		And this is, I believe, No. 25 at the
5		bottom of the next page. And this one seems
6		very definitive. "All work is within the
7		Applicant's existing ROW which convey the
8		right to construct and replace the
9		transmission lines in support of the
10		reliability of the transmission system." Did
11		I read that correctly?
12	Α.	(Allen) You did.
13	Q.	Now, I guess what I'm the Department isn't
14		talking about a cable crossing here, because
15		what they're saying is a right-of-way that
16		conveys a property right to construct. Do
17		you see that distinction?
18	Α.	(Allen) I see the distinction.
19	Q.	But there was new right-of-way. And did the
20		Department ever compare the old right-of-way
21		on the Beswick property to the new one?
22	Α.	(Allen) I don't think I can answer that for
23		them.
24	Q.	So you don't know.

<ul> <li>A. (Allen) They were aware of the design change.</li> <li>They were also fully aware of the cable</li> <li>corridor as opposed to an easement.</li> <li>Q. Are any of the panel members aware of whether</li> <li>the Department did an alternatives analysis</li> <li>of the prior right-of-way, the 1950 one,</li> <li>versus the new one, or coming across at</li> <li>different locations?</li> <li>A. (Nelson) Your question is did the DES do an</li> <li>alternatives analysis?</li> <li>Q. Correct.</li> <li>A. (Nelson) Not that we're aware of.</li> <li>Q. And did Eversource ever negotiate with the</li> <li>Beswicks putting the easement in a different</li> <li>location so it could present alternatives?</li> <li>A. (Nelson) I'm not privy to all the discussions</li> <li>with the Beswicks. I believe the route</li> <li>chosen was the route that was the most</li> <li>feasible from a construction standpoint.</li> <li>Q. Okay. But the other findings were that this</li> <li>impact this one was the least impacting</li> </ul>			
<ul> <li>corridor as opposed to an easement.</li> <li>Q. Are any of the panel members aware of whether the Department did an alternatives analysis of the prior right-of-way, the 1950 one, versus the new one, or coming across at different locations?</li> <li>A. (Nelson) Your question is did the DES do an alternatives analysis?</li> <li>Q. Correct.</li> <li>A. (Nelson) Not that we're aware of.</li> <li>Q. And did Eversource ever negotiate with the Beswicks putting the easement in a different location so it could present alternatives?</li> <li>A. (Nelson) I'm not privy to all the discussions with the Beswicks. I believe the route chosen was the route that was the most feasible from a construction standpoint.</li> <li>Q. Okay. But the other findings were that this</li> </ul>	1	A.	(Allen) They were aware of the design change.
<ul> <li>4 Q. Are any of the panel members aware of whether the Department did an alternatives analysis of the prior right-of-way, the 1950 one, versus the new one, or coming across at different locations?</li> <li>9 A. (Nelson) Your question is did the DES do an alternatives analysis?</li> <li>9 A. (Nelson) Your question is did the DES do an alternatives analysis?</li> <li>10 Correct.</li> <li>12 A. (Nelson) Not that we're aware of.</li> <li>13 Q. And did Eversource ever negotiate with the Beswicks putting the easement in a different location so it could present alternatives?</li> <li>16 A. (Nelson) I'm not privy to all the discussions with the Beswicks. I believe the route chosen was the route that was the most feasible from a construction standpoint.</li> <li>20 Q. Okay. But the other findings were that this</li> </ul>	2		They were also fully aware of the cable
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14 Beswicks putting the easement in a different 15 location so it could present alternatives? 16 A. (Nelson) I'm not privy to all the discussions 17 with the Beswicks. I believe the route 18 chosen was the route that was the most 19 feasible from a construction standpoint. 20 Q. Okay. But the other findings were that this	12	A.	(Nelson) Not that we're aware of.
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20 Q. Okay. But the other findings were that this	18		chosen was the route that was the most
	19		feasible from a construction standpoint.
21 impact this one was the least impacting	20	Q.	Okay. But the other findings were that this
	21		impact this one was the least impacting
22 alternative, and that was because it was an	22		alternative, and that was because it was an
23 existing right-of-way. But some of it's a	23		existing right-of-way. But some of it's a
24 new right-of-way; isn't that right?	24		new right-of-way; isn't that right?

1	Α.	(Allen) I'm not exactly sure. Are you asking
2		whether we recognize that there's a new
3		easement along there?
4	Q.	Let me rephrase that question and concept for
5		you. I think I can do it more easily by
6		reference to a plan. So I'm going to pull up
7		JCT, I believe it's Exhibit 7. Just give me
8		a second. Actually, this is JCT Exhibit 10.
9		And I believe this is one of the better
10		resolution images.
11		And you're aware that the prior
12		easement first of all, were the panel
13		members here when I was asking Mr. Bowes
14		questions about how the easement was moved?
15		So are you aware of where the old easement
16		was and where the current one is?
17	A.	(Allen) Yes.
18	A.	(Nelson) Yes.
19	Q.	Thank you. So what I'm looking at here, in
20		terms of evaluating impacts to resources, we
21		have essentially lawn areas passing right
22		through where the old easement was. There's
23		not really significant salt marsh habitat in
24		those areas, is there?
	<b>6</b>	

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1	MR. NEEDLEMAN: Objection. The rules
2	call for analysis of alternatives to the extent
3	that they're practicable. Construction Panel
4	already testified that that was not a
5	practicable alternative because of the steep
6	slope. So there's no relevance to this line of
7	inquiry.
8	MR. RICHARDSON: Well, the real
9	question is what did DES do, because that's
10	what I'm concerned about. And obviously we're
11	here to decide the Committee's criteria, but
12	also whether the DES acted lawfully, because
13	that's an issue that we want to preserve for
14	appeal.
15	PRESIDING OFFICER WEATHERSBY: And I
16	don't think this panel can answer the question
17	of what DES did.
18	MR. RICHARDSON: They discussed with
19	DES the Project. They provided findings that
20	DES incorporated into their final decision. I
21	want to know what information the Applicant
22	provided so we can understand how DES may have
23	evaluated it.
24	MR. NEEDLEMAN: All of the

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1	information the Applicant provided is in the
2	report. There's actually far more in this
3	record regarding that issue than most records.
4	MR. RICHARDSON: I think it's a fair
5	question to ask about what DES did. I mean, if
6	we're here to talk about the alternatives
7	analysis, I need to ask questions about the
8	alternatives.
9	PRESIDING OFFICER WEATHERSBY: I'm
10	going to sustain the objection. I don't think
11	it's fair to the panelists to
12	MR. RICHARDSON: All right.
13	PRESIDING OFFICER WEATHERSBY: - keep
14	asking them what DES did.
15	MR. RICHARDSON: Understand.
16	PRESIDING OFFICER WEATHERSBY: Off
17	the record.
18	(Discussion off the record.)
19	BY MR. RICHARDSON:
20	Q. So you agree with me that there's one
21	alternative which Attorney Needleman has just
22	testified is not practical, and then there's
23	another alternative that's going right
24	through sensitive resource areas. I mean,
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		±.
1		this is you've been to this area. You've
2		prepared a shoreline protection analysis of
3		what's there; right? I mean, isn't this
4		doesn't this area here qualify as an
5		unaltered state?
6	A.	(Allen) As an unaltered state? Which portion
7		of it are you describing?
8	Q.	I'm referring to the forested area that we
9		see here.
10	Α.	(Allen) No. In my opinion it did not. It's
11		mowed underneath.
12	Q.	Okay. Let me show you some pictures of that.
13		And actually, I'll start by pulling one out
14		from the shoreline application.
15		(Pause in proceedings)
16	Q.	So, Ms. Allen, were you involved in the
17		preparation of the shoreline application
18		submitted to DES?
19	Α.	(Allen) The shoreland application, yes.
20	Q.	Yes. Thank you. So do you recognize that as
21		a photo taken of the area I was just showing
22		you a moment ago in JCT Exhibit 10?
23	Α.	(Allen) Yes.
24	Q.	And you're saying that that treed area is
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1		mowed?
2	Α.	(Allen) The cable actually enters that
3		forested area to the far left, and on
4		Ms. Beswick's property it is mowed.
5	Q.	Okay. On the Beswick property it's mowed.
6		In fact, as we saw there before but in the
7		ravine area going up through the middle,
8		which is essentially where the property line
9		is, it's not mowed. And in fact, it's
10		crossing because there's a salt marsh
11		mitigation plan, it's crossing the salt marsh
12		that's right there; isn't that right?
13	A.	(Allen) It is crossing a salt marsh section,
14		yeah.
15	Q.	And this picture is taken in the off season,
16		I assume, when we can see through the trees a
17		little bit. And the salt marsh is lying
18		dormant; right?
19	Α.	(Allen) It looks like early spring, if I had
20		to guess.
21	Q.	So you would expect that salt marsh to be
22		pretty green, and you would expect natural
23		vegetation to come up in those forested areas
24		that are shown here.

1	A.	(Allen) Not in the mowed section, which is
2		where the cable is going.
3	Q.	I'm sorry. Let's go to do you have JCT
4		well, this is JCT 16. I don't have 17 in
5		front of me. But that shows the area to be
6		cleared. And it looks to me like that is
7		right in the middle of the forested area.
8		That's not a mowed section, is it?
9	A.	(Allen) There are mature trees with grass
10		underneath it, and the grass is mowed.
11	Q.	Okay. I want to pull out some pictures for
12		you.
13		But let's do this: As you all know,
14		there was a discussion of where the
15		transmission line was going to be. And as
16		shown on this one, you can see it's shown
17		crossing the property line. And then on
18		redirect for the first time, we saw a new
19		plan showing the shoreline in a new area.
20		And so I want to show this to you. This is
21		Applicant's Exhibit 195. Now, there's a
22		couple things that I want to go over on this.
23		And let me see if I can zoom in a little for
24		you.

1		Okay. The first thing is you see
2		just for reference, you see there's this
3		approximate water line. And it says "Per
4		reference plan." And we follow that over,
5		and it looks like it goes to a pin. You see
6		that right there where the pin is?
7	A.	(Allen) Yes.
8	Q.	And did you get a chance to see this plan?
9		Are you familiar with it? I don't want to
10		have
11	A.	(Allen) I have seen this plan.
12	Q.	All right. Thank you. I'll try to go a
13		little faster then.
14		Reference plans are referred to in the
15		bottom. And I'll have to read this to you.
16		Let me put it in focus. I have extra copies
17		here if people want to see the paper copy. I
18		don't know if the Committee members can
19		follow along. But what I'm seeing is that
20		there's two references in the reference plan:
21		Little Bay Estates, located in Newington, NH,
22		dated February 13, 1984, Kimball Chase
23		Company, and then it refers to the registry
24		of deeds plan. And you see how that line
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there is -- it follows the same path as JCT 1 Exhibit 1, which was a 1984 subdivision plan. 2 So when it says "per reference plan," that's 3 saying that's the water line --4 5 MR. NEEDLEMAN: Objection. This is testimony. 6 7 MR. RICHARDSON: She's reviewed the I'm trying to get her to agree to a 8 plans. point that that line there, the new location, 9 is taken from the 1984 plan. 10 11 PRESIDING OFFICER WEATHERSBY: You 12 can ask her. I'm going to sustain the objection. Ask her a question without 13 14 editorializing and testifying. 15 MR. RICHARDSON: Sure. Understand, 16 when I ask the question like that, I'm trying 17 to help the witness by giving them all the things I'm thinking about so they can agree or 18 19 disagree. I'm not trying to force the witness 20 to accept the facts or to testify. I want them 21 to tell me if I am wrong. So that's -- I hope 22 the Committee at least understands that. 23 BY MR. RICHARDSON: 24 So tell me, are you aware that the 1984 Q.

1		subdivision plan is the source of what this
2		high water line is?
3	A.	(Allen) I'd have to read it to refresh. I
4		can't quite see it.
5	Q.	Okay. Let me bring you a copy of it 'cause I
6		think that would be much easier I think for
7		everyone.
8		And the other thing I'll do is I want
9		you to read where it says that's the
10		reference plan. And then there's another
11		plan. It's a 2015 one. And it's the
12		easement relocation plan. And apparently
13		it's a survey by Doucette Survey that they've
14		had since 2015.
15		What I'm going to put up for you is JCT
16		Exhibit 1, which is the 1984 plan. My point
17		in doing this is to just show you can see
18		sorry. You can see that these plans follow
19		more or less the same curvature. I may have
20		just made a mistake because I think I'm
21		looking at it incorrect.
22		(Pause in proceedings.)
23		MR. RICHARDSON: Why don't I do this:
24		I have in my pile of papers here the Newington
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1	tax maps. And what I wanted to show is the
2	Newington tax maps were what the original
3	application materials were based on. We may
4	chase the plans speak for themselves. It
5	may take me too long to get everything
6	organized here. I'm obviously responding to
7	new information that I learned on Tuesday. Is
8	that all right?
9	MR. NEEDLEMAN: Thank you.
10	Understanding where you're going now, I do
11	object because I think this is well beyond the
12	scope of any aspect of the testimony of this
13	panel.
14	MR. RICHARDSON: Well, what I was
15	trying to get at is I'm sorry. I thought I
16	had this right in front of me.
17	PRESIDING OFFICER WEATHERSBY: How
18	are these the correct witnesses to address
19	property lines?
20	MR. RICHARDSON: Well, what I wanted
21	to show was that the Application that the
22	Project is based on was taking the shoreline
23	from the Newington tax maps. And the Newington
24	tax maps contain a statement that they're only
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approximate and they're not to be used for deed 1 2 purposes, and that they say that. And for the life of me, I had it right in front of me when 3 I walked up here and it has disappeared. 4 5 MR. IACOPINO: Justin, can I ask you The exhibit, the 195, it says what 6 a question? 7 the reference plans are. And those are plans 8 that apparently are recorded at the registry of deeds. 9 MR. RICHARDSON: Exactly. And then 10 the exhibit also says, when you go over to the 11 left a little bit, it says edge of water per 12 Newington tax map. This line was shown on 13 Exhibit 13 -- that's JCT Exhibit 13 -- as the 14 15 surveyed edge of water. However, it was not survey-located. So, JCT 13, which I do have --16 17 MR. IACOPINO: So that speaks for itself, though. 18 19 MR. RICHARDSON: Yes. But what I'm 20 looking for is the note on the tax maps that say that they're approximate and they shouldn't 21 22 be relied on. And I have ... 23 MR. IACOPINO: Yeah, why don't you 24 just make an offer of proof.

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		14
1		PRESIDING OFFICER WEATHERSBY: Just
2		make an offer of proof of that and then move on
3		to a different line of questioning.
4		MR. RICHARDSON: Thank you. I'll do
5		that. And those documents do speak for
6		themselves.
7	BY MI	R. RICHARDSON:
8	Q.	Okay. Let me get to one of my final points.
9		This is all right. I want to pull up DES
10		Rule 304.04, which is referenced in the
11		Application as well. Hold on one second.
12		I'm sorry. I pulled everything apart and
13		I've completely lost myself.
14		(Pause in proceedings)
15	Q.	Do you recall that in your wetlands
16		application you submitted a statement that
17		DES Rule 304.04 does not apply? Do you
18		remember that.
19	A.	(Allen) You'd have to help me remember what
20		that rule is.
21	Q.	Okay. That's the rule that says that DES
22		cannot approve project impacts within 20 feet
23		of a property line without the assent of an
24		abutter.

1	Α.	(Allen) I do remember some discussion. I'd
2		have to pull it up to get the exact language.
3	Q.	Yeah, and I believe do you know where that
4		is in your application?
5	Α.	(Allen) It's in the original Application.
6		MR. RICHARDSON: I'm sorry. Could I
7		have two minutes? I apologize. This is very
8		unprofessional of me. I've lost a whole
9		section that I had set aside in my binders and
10		I've scattered myself apart here. I hate
11		making you all wait.
12		PRESIDING OFFICER WEATHERSBY: Take
13		two minutes, get yourself organized.
14		Understanding that your beyond your time
15		estimate, get organized and come back and be
16		efficient and then finish up.
17		MR. RICHARDSON: Thank you.
18		(Recess was taken at 4:57 p.m.
19		and the hearing resumed at 5:03 p.m.)
20		PRESIDING OFFICER WEATHERSBY:
21		Attorney Richardson, you may proceed.
22		MR. RICHARDSON: Yes. Thank you.
23		And I apologize. I did not have the folder in
24		front of me, so I was going crazy looking for
	{s	EC 2015-04} [Day 5 AFTERNOON ONLY] $\{09-20-18\}$

1		it.
2	BY M	R. RICHARDSON:
3	Q.	So, Section 15 of the wetlands application,
4		which is Exhibit 32, do you have that in
5		front of you?
6	A.	(Allen) I don't. I'm sorry.
7	Q.	Let me give you a copy. And I'll put it up
8		on the screen as well. So I wanted to start
9		with this because this is the explanation
10		that you gave to Eversource or on behalf
11		of Eversource that you gave on behalf of
12		Eversource to DES. And what it says here is
13		that and it's about permission for work
14		within 20 feet. If you're doing a dock
15		project or any type of wetlands construction
16		next to a property and your within 20 feet of
17		the property line, you need permission;
18		right?
19	Α.	(Allen) Correct.
20	Q.	But you say here, "Per review of regulations
21		with NHDES staff, this notification"
22		actually, it's "this permission" is what it
23		<pre>probably should say "is not required"; is</pre>
24		that right?

1	A.	(Allen) That's correct.		
2	Q.	Okay. And I should have asked as a separate		
3		question. In fact, what the rule requires is		
4		the permission from the abutting property		
5		owner; right?		
6	Α.	(Allen) That's correct.		
7	Q.	And you say, in support of that, "Little Bay		
8		is the only water body in the Project with		
9		in-water work, and there are no permanent		
10		structures in Little Bay to which the 20-foot		
11		setback from an imaginary extension of the		
12		property line would apply." Is that		
13		Eversource's permission or position?		
14	Α.	(Allen) Yes, it is.		
15	Q.	Okay. Let me pull up the rule here just so		
16		we can all be aware of what it says. And		
17		I've got it right here. Can you read that,		
18		or do you want me to zoom in?		
19	A.	(Allen) You best zoom in, please.		
20	Q.	So, setbacks from property lines. The		
21		Department shall limit the location of a		
22		project to at least 20 feet from abutting		
23		property line or imaginary extension thereof		
24		over surface water, unless it receives a		
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1		written agreement from the affected abutter
2		concerning or concurring with any impact
3		that may result to the abutter's interests.
4		And I assume Eversource hasn't obtained a
5		letter like that. And per the document we
6		just read, it took the position it didn't
7		need that.
8	Α.	(Allen) That's correct.
9	Q.	Now, you've reviewed the DES permit
10		conditions. And I'll represent to you that
11		DES didn't waive this rule, did it?
12	Α.	(Allen) Did it it did not waive this rule.
13	Q.	That's what I observed.
14	Α.	(Allen) Yes.
15	Q.	Are you aware of DES actually issuing a
16		waiver of this rule?
17	A.	(Allen) They did not.
18	Q.	Okay. And in fact, there were other DES
19		rules that Eversource did seek a waiver of,
20		and DES granted I believe in writing; right?
21	A.	(Allen) That's correct.
22	Q.	But not this one.
23	A.	(Allen) Yup.
24	Q.	And if we were to extend the property line
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1		I'll take this plan, which is I think
2		approximate and if we would extend the
3		property line, we would see that it would
4		bisect pretty much the entire area where the
5		concrete mattresses are proposed?
6	A.	(Allen) Correct. Actually, that's not quite
7		true. The concrete mattresses are below
8		where the property line would intersect.
9	Q.	So, actually in front of the Joyce property.
10	A.	(Allen) Yes.
11	Q.	Okay. And now what I'm curious about is what
12		did you mean in your statement there?
13		Because you're aware that DES has a separate
14		rule and a statutory provision under 482-A:3
15		for dock setbacks, and that expressly
16		requires permission. But this refers to
17		projects, not merely shoreline structures.
18		So what did you mean when you said that? I
19		mean, what are you trying to get at as to why
20		this rule shouldn't apply?
21	A.	(Allen) We had I'm dredging this up from,
22		you know, over two years ago at this point.
23		But we had discussions with DES as to whether
24		or not we could we needed to do
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1		notification for this work relative to this
2		particular piece of property. And their
3		decision their statement to me was, no, we
4		did not need to do that.
5	Q.	Okay. But did you ever discuss with DES, are
6		you familiar with the term "littoral rights"?
7	A.	(Allen) I am not.
8	Q.	But you understand that if a property owner
9		who's a riparian or shoreline owner, they
10		have a right, for example, to put a dock out
11		on the property in front of them, subject to
12		permits obviously, and that's their right as
13		shorefront owners; right?
14	A.	(Allen) Right.
15	Q.	Okay. And that also I mean, it's just
16		common sense, I suppose, that that means
17		another property owner can't construct
18		something right in front of your property if
19		you own it; right?
20	A.	(Allen) If you're talking about a dock, I'd
21		say yes.
22	Q.	I mean, if I owned property here, my neighbor
23		couldn't put a dock on my property or in
24		front of it unless they had my permission.
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And that's at least one of the purposes that 1 2 this rule appears to protect. I'm going to read to you, and I suppose 3 we don't need to mark it as an exhibit, but I 4 want to show you a case that discusses some 5 other issues about shoreline property owners 6 7 and see if you are aware of this. 8 MR. NEEDLEMAN: Objection. I don't know how he could show case law to these 9 witnesses and it would not call for a legal 10 11 conclusion. MR. RICHARDSON: Well, it relates to 12 the construction of structures, and it relates 13 to the purposes that this rule is intended to 14 15 protect. I'm not going to ask her to interpret 16 it. I'm just going to ask her if she was aware 17 of this. PRESIDING OFFICER WEATHERSBY: So he 18 19 hasn't asked a question yet. 20 So when you ask the question, if it 21 calls for a legal opinion, you'll get an 22 objection and it'll be sustained. 23 MR. RICHARDSON: Okay. BY MR. RICHARDSON: 24 {SEC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

Well, let me ask you this then: I'm going to 1 Q. 2 show you a case. I'm not going to ask you to interpret it. But I'm going to ask you if 3 you're aware of this concept. And this is --4 let me read it for the record. 5 This is Sundell v. New London, and it's 119 NH 839, 6 decided in 1979. And the provision I first 7 8 want to draw your attention to is, "Our cases uniformly hold, however, that 'littoral 9 owners have rights which are more extensive 10 11 than those of the public generally.'" So my question is: When you submitted 12 Section 15, were you aware of that concept? 13 14 MR. NEEDLEMAN: Objection. This does 15 call for a legal conclusion, and it asks the 16 witnesses to look at one sentence in a long 17 document and interpret is not fair. 18 MR. RICHARDSON: I just want to know 19 if she was aware of that concept. 20 PRESIDING OFFICER WEATHERSBY: 21 Objection sustained. It's not relevant and it 22 calls for legal interpretation. 23 MR. RICHARDSON: Okay. BY MR. RICHARDSON: 24 {SEC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

Were you aware of the concept that property 1 Q. 2 owners, littoral property owners, have rights in the waters that are in front of them that 3 are different than those held by the public 4 in general? 5 Same objection. 6 MR. NEEDLEMAN: 7 MR. RICHARDSON: We know that DES has made the determination that Eversource has the 8 property rights based on the representations 9 that all of the Project was in existing 10 11 rights-of-way. I want to simply show that this one is not and that there is a concept out 12 there that is inconsistent with the statement 13 made in the Application, Section 15. 14 15 MR. IACOPINO: The concept you're 16 trying to make is a legal argument. This is 17 not factual argument. These aren't facts that are relevant with respect to this panel. 18 Ιf 19 you want to make a legal argument, you can 20 certainly make your legal argument at the 21 appropriate time. But we're sitting here, and 22 you're asking them about things that they're 23 not qualified to testify about. 24 MR. RICHARDSON: Okay. I'll move on. {SEC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1	I wanted to bring this forward because I wanted
2	the Committee to be aware of what is
3	essentially a defect and have the opportunity
4	to ask this witness questions on that subject.
5	MR. IACOPINO: And if you have
6	questions about actual facts on the ground,
7	then you can ask those.
8	BY MR. RICHARDSON:
9	Q. So how does how is building a concrete
10	mattress directly in front of my client's
11	property different than building a dock on
12	their property? They're both located, or
13	they can be located below the mean high water
14	mark. What distinguishes the two? How does
15	Eversource have a right to strike that.
16	How are they different factually?
17	A. (Allen) The discussion we had with DES, and
18	again I'm going from recollection here, was
19	that the concrete mattresses were a
20	relatively minor change in the environment
21	versus a dock that implies use and activity.
22	These were passive structures not to be
23	actively used.
24	Q. But isn't strike that. I was going to ask
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you a legal question. 1 But isn't a -- factually, isn't a 2 concrete structure there, and it prevents --3 I mean, if my client wants to maintain an 4 area that's free of docks, you know, the 5 smallest dock in the world my neighbor 6 7 wouldn't have a right to put there. So, I 8 mean, doesn't that conflict with the property owner's right to keep a property free from 9 obstructions? 10 11 MR. NEEDLEMAN: Objection. Calls for a legal conclusion. 12 PRESIDING OFFICER WEATHERSBY: 13 14 Sustained. 15 MR. RICHARDSON: Okay. I'm sorry. 16 This is a tough one. My last exhibit here. 17 BY MR. RICHARDSON: 18 I just wanted to show you some photographs. Q. 19 Have you been on the Beswick property before? 20 (Allen) Yes, I have. Α. Okay. Let me bring them up to you. And I'll 21 Q. 22 give a copy to your counsel as well. Ι 23 believe we're up to Exhibit 19 now. (Document handed to witness.) 24 {SEC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

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1		MS. MONROE: Right. Yes, this would
2		be JCT 19. I see you have it premarked as 18,
3		so I'm going to mark it as 19.
4		(The document, as described, was
5		herewith marked as JCT Exhibit 19
6		for identification.)
7	Q.	So you were here the other day when you heard
8		Mr. Bowes refer to the monument that was
9		where the water line is shown on Applicant's
10		Exhibit 195. And I'll represent to you that
11		this is looking down the property line
12		towards that monument. Does this look like
13		the property, that area to you?
14	A.	(Allen) I'm still getting a little bit
15		oriented. What is the stake in the front in
16		the foreground?
17	Q.	So the stake is a boundary marker that's
18		leading in a straight line down towards the
19		monument. And I'm looking at Page 1 of this
20		Exhibit JCT 19.
21	A.	(Allen) Okay.
22	Q.	But does that I mean, what I'm really
23		asking you is, is that what the general area
24		looks like? You've been to the property
	{ <b>s</b> :	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1		where this comes ashore, where the
2		construction will take place.
3	Α.	(Allen) I've not seen it from this angle.
4		I'm actually still getting oriented. So I'll
5		hold that opinion.
6	Q.	Sure. So, well, let's flip a page. And
7		No. 2, this is hard to make out, but my
8		client has indicated to me right there where
9		that pencil is pointing, you can see that's a
10		stake where the monument is. And I'll show
11		you that from the other direction. So this
12		is looking down the property line. And if
13		you don't recognize that at all, then feel
14		free to me tell me. I'm not trying to force
15		you to accept something to be true or not if
16		you don't know.
17	Α.	(Allen) I have not walked the property line.
18	Q.	But before I heard you say that there were
19		lawn areas where the Project was going to be;
20		right?
21	Α.	(Allen) That's correct.
22	Q.	And if this were the property line and the
23		Project were on the right side and the
24		Crowley-Joyce property is on the left, that's
	{s	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

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1		not what you were talking about when you said
2		that it was a lawn area that would be
3		<pre>impacted; right?</pre>
4	Α.	(Allen) Correct.
5	Q.	This looks like an unaltered area under the
6		Shoreline Protection Act.
7	Α.	(Allen) It does not look like lawn.
8	Q.	How does it not look unaltered? How does
9		this not look like a natural area to you?
10	Α.	(Allen) It looks like there's been some
11		clearing in the understory. But again, I'm
12		not going to go down that path.
13	Q.	Okay. Do you mean significant clearing?
14		Does this look like a disturbed area to you?
15	Α.	(Allen) No, it does not.
16	Q.	Okay. Thank you.
17		Now, here we're looking over towards the
18		Beswick property from the property line. And
19		I need to be I'm looking at the third
20		picture. So you can see there's clearly lawn
21		areas towards the Beswick retaining wall.
22		You can see that in the third picture; right?
23	Α.	(Allen) I can.
24	Q.	And then in front of that, is that what you

1		were referring to as a "lawn area"?
2	Α.	(Allen) I'm certainly seeing grass in there.
3	Q.	Okay. Let me keep going. This is what I
4		wanted to show you. So this is the area
5		where you see that monument. And that's the
6		monument that was shown in Applicant's 195 to
7		be the edge of the water line; right?
8		MR. NEEDLEMAN: Madam Chair,
9		objection. I'm going to object to these
10		exhibits. There's no authentication for them.
11		We actually have no idea whether they are what
12		they purport to be. And in particular, ones
13		that are on the screen now and ones that follow
14		have tape measurements on them. There's just
15		no way to have any sense of whether they're
16		correct or accurate or in this location, et
17		cetera.
18		MR. RICHARDSON: What I'm trying to
19		show here is just pictures of where that is.
20		It's true that I'm representing that this is
21		where that monument is. The witness can say, I
22		don't know if your right or your wrong. And
23		that's a perfectly acceptable answer if that's
24		what they want to say.

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1		PRESIDING OFFICER WEATHERSBY: I'm
2	goin	g to sustain the objection, but perhaps you
3	coul	d be creative in the way you use these
4	phot	os by asking them to assume certain facts
5	and	ask your questions, or just move on.
6		MR. RICHARDSON: Okay.
7		MR. NEEDLEMAN: Madam Chair,
8	unde	erstood. I'm not objecting any further. I
9	do w	ant to note for the record it's my
10	unde	erstanding that if any party has an
11	obje	ection to an exhibit, it needs to be made at
12	the	time. And so I am going to object to this
13	exhi	bit and ask that it be struck at the
14	appr	opriate time.
15		PRESIDING OFFICER WEATHERSBY:
16	Unde	erstood. Thank you.
17	BY MR. RI	CHARDSON:
18	Q. So I	'm going to show you we're looking at
19	Page	7 now. I've blown it up here on JCT.
20	It's	marked 18, and we'll change that to 19.
21	You	can see well, first of all, does this
22	look	: like the shoreline where the
23	Joyc	e-Crowley property is?
24	A. (All	en) It's very hard to tell from this
ļ	{SEC 20	15-04} [Day 5 AFTERNOON ONLY] {09-20-18}

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1	photo, but it could be.	
2	Q. But this is the type of environment there.	
3	And I'll represent to you that you can see	
4	the monument that's up there.	
5	Do you have any reason to doubt that	
6	that would be the type of shoreline where	
7	that is in Applicant's Exhibit 195, where	
8	that monument is?	
9	MR. NEEDLEMAN: Objection. I think	
10	the witnesses already stated they have no	
11	reason to doubt. If Mr. Richardson wants to	
12	ask the questions consistent with your	
13	direction, that's fine.	
14	BY MR. RICHARDSON:	
15	Q. I'm sorry. I couldn't was your answer	
16	that you had no reason to doubt, or did	
17	you not	
18	MR. RICHARDSON: I don't remember	
19	what the witness said.	
20	A. (Allen) I'm not going to doubt you.	
21	BY MR. RICHARDSON:	
22	Q. Okay. Here we have a view, and I'll	
23	represent to you I think it's looking out	
24	towards the shoreline. And does this appear	
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	16	;1
1	to be the salt marsh that's going to be	
2	restored and impacted by the Project?	
3	A. (Allen) It seems it's hard to tell the	
4	angle for this project. That's very	
5	important. But	
6	Q. Okay. All right. And that's Page 10 of JCT	
7	Exhibit 18; right?	
8	MR. IACOPINO: Nineteen.	
9	Q. Nineteen. Excuse me.	
10	A. (Allen) Yes.	
11	MR. RICHARDSON: Thank you. I have	
12	no further questions. I appreciate your	
13	patience.	
14	PRESIDING OFFICER WEATHERSBY: Thank	
15	you. Off the record.	
16	(Discussion off the record)	
17	PRESIDING OFFICER WEATHERSBY: Back	
18	on the record. Thank you.	
19	Attorney Aslin, you may proceed	
20	with your questions.	
21	CROSS-EXAMINATION	
22	BY MR. ASLIN:	
23	Q. Good evening. For the record, I'm Chris	
24	Aslin, acting as Counsel for the Public.	
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		L	10.
1	А.	(Panel Members) Good evening.	
2	Q.	I want to ask you questions about the	
3		wetlands portion of the Project. First, it's	
4		my understanding from the Application	
5		materials that the wetlands were delineated	
6		in the 2014-2015 time period. Is that	
7		correct, or has that been updated?	
8	Α.	(Allen) No, that's correct. We actually	
9		started in 2013.	
10	Q.	So was the last delineation done in 2015?	
11	Α.	(Allen) No. We did the bulk of the	
12		delineations mostly in 2013, 2014, 2015.	
13		We've done some minor additional route checks	
14		and changes as they've come along all through	
15		the Project.	
16	Q.	Okay. By "minor route checks and additions,"	
17		I take that to be different from having done	
18		a full review of the original delineations?	
19	Α.	(Allen) That's correct.	
20	Q.	Is there a plan or commitment to do a	
21		pre-construction check of all the original	
22		delineations?	
23	Α.	(Allen) Yes, we'll do that.	
24	Q.	And what time frame is that anticipated for?	
	t		

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1	Α.	(Allen) Typically right before construction
2		we'll go out and re-stake the wetlands for
3		the contractor's purpose, and at that time
4		we'll do a ground check.
5	Q.	Thank you.
6		In general, there are both temporary and
7		permanent impacts to wetlands; correct?
8	А.	(Allen) Correct.
9	Q.	And am I correct that the permanent impacts
10		to all kinds of wetlands proposed in this
11		project are limited to the location of
12		structures, foundations, or the structures
13		themselves, and the concrete mattresses in
14		Little Bay?
15	Α.	(Allen) That's correct.
16	Q.	Okay. And the temporary impacts include the
17		placement well, any trenching through
18		wetland areas, the placement of timber mats,
19		other access roads. So those are sort of the
20		physical things that impact the wetlands.
21		Does it also include buffer impacts?
22	Α.	(Allen) We did calculate buffer impacts to
23		streams. Depending on the type of stream, it
24		got a different distance for a buffer.
	۶c	EC 2015-04 [Day 5 AFTERNOON ONLY] $\int 0.020-18$

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1	Q.	Specific to streams, there are buffer impacts
2		included in the temporary impact
3		calculations?
4	A.	(Allen) Yes.
5	Q.	In the Application, I think it's in
6		Applicant's Exhibit 97, which is the revised
7		Impact Assessment, there's a reference to
8		"vernal pool buffer impacts." Do you recall
9		that?
10	A.	(Allen) Yes.
11	Q.	And I'll just represent the number is
12		7,377 square feet. Does that sound correct?
13	A.	(Allen) I'm going to say yes to that. I'd
14		have to check that number.
15	Q.	I believe it's on Page 12 of Applicant's
16		Exhibit 97. Are those vernal pool buffer
17		impacts included in the temporary wetland
18		impact calculations?
19	A.	(Allen) I believe that they are. I'd have to
20		go back to see exactly how we added them up.
21		They were included as temporary impacts
22		(Court Reporter interrupts.)
23	A.	and included as temporary wetland impacts.
24	Q.	I wanted to clarify one thing that came up
l	{s	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}

1		earlier in the cross-examination, in terms of
2		the numbers that are reported in the final
3		DES permit.
4		There was some testimony earlier about
5		the square footage of the concrete mattresses
6		in Little Bay that is permitted or is part of
7		the final decision by DES. Do you recall
8		that testimony?
9	A.	(Allen) I do.
10	Q.	And I believe you said that this statement,
11		which is on Page 17 of 17 in Applicant's
12		Exhibit 183, which is the DES response
13		letter, I believe you testified earlier that
14		this reference to Appendix A is DES's
15		concurrence with the corrections that you
16		suggested to the original the number that
17		was in the final determination letter; is
18		that correct?
19	A.	(Allen) That's true. There were a number of
20		incorrect either areas or dates that we
21		offered corrections to.
22	Q.	And is it your testimony that the Appendix A
23		that's referenced here is Appendix A that was
24		submitted by the Applicant in the letter? I
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1		think there is an April letter and then a
2		follow-up August letter requesting certain
3		adjustments to the DES conditions?
4	A.	(Allen) From that text there, I interpreted
5		it to be Appendix A of the August 17th
6		letter.
7	Q.	And I'm not sure that August 17th letter is
8		in the record, but the April 27th letter is.
9		Do you have any do you know if they differ
10		in any substantial way?
11	A.	(Allen) Not in any substantial way. I think
12		we reviewed it and we might have caught a
13		couple of things.
14	Q.	Okay. So, Appendix A, at least in the April
15		letter, which is Applicant's Exhibit 182, is
16		titled, "Requested Text Corrections to DES
17		Final Conditions." Do you see that?
18	A.	(Allen) Yes.
19	Q.	And then on the next page, Page 7, which is
20		PDF Page 7, is this red text that's boxed
21		here with arrows. Does that represent the
22		proposed text corrections by the Applicant?
23	A.	(Allen) That's correct.
24	Q.	Okay.

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1	A.	(Allen) It was very clear at the time.
2	Q.	And so towards the end of this paragraph, am
3		I correct that this is what you reference in
4		terms of text corrections to the Little Bay
5		concrete mattresses, where initially well,
6		let me back up.
7		Is the black text taken directly from
8		the DES final conditions letter?
9	Α.	(Allen) Yes.
10	Q.	So the box down towards the bottom right of
11		the screen where it says 8,681 square feet,
12		is that the request to change the square
13		footage of the concrete mattress impact?
14	Α.	(Allen) Yes.
15	Q.	And I believe you testified earlier that that
16		number was submitted to DES as part of the
17		revised wetlands application in September of
18		2017?
19	Α.	(Allen) Yes.
20	Q.	And that's Applicant's 128?
21	Α.	(Allen) I'd have to look at that. That's
22		correct.
23	Q.	So this is Applicant's Exhibit 128 on the
24		screen. I'm not sure if it even has a date
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1		on it, but probably at the end here.	
2		So, Mr. Nelson, is that your signature	
3		with the date of 9/15/2017	
4	А.	(Nelson) Yes, it is.	
5	Q.	on the bottom of Page 2.	
6		And then on Page 4, is this what you	
7		were referring to, the tidal water impacts,	
8		the permanent impacts, the 8,681?	
9	Α.	(Allen) Yes.	
10	Q.	Okay. Thank you. So that clears that	
11		question up for me.	
12		Looking at this, can you tell, and you	
13		may not be able to, but can you tell whether	
14		the vernal pool buffer impacts are included	
15		in any of the temporary impact calculations?	
16	A.	(Allen) I cannot tell from that. I'd have to	
17		go back to our calculation sheet.	
18	Q.	And do you know whether the vernal pool	
19		buffer impact impacts are required to be	
20		included in temporary impacts to wetlands	
21		under the DES wetland permits?	
22	A.	(Allen) I think they are. Again, I'd have to	
23		go back and look. I'm drawing a blank on how	
24		that was handled.	
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1	Q.	That's fair enough. You testified a little
2		bit earlier about the barge laydown areas
3		that are shown on the environmental maps.
4		And we had some testimony from the
5		Construction Panel as well. And I think you
6		were consistent with that this morning,
7		saying they would not anticipate that the
8		barges actually lay down on the bay floor; is
9		that correct?
10	А.	(Allen) That's what the Construction Panel
11		stated, yes.
12	Q.	But you included those impacts, potential
13		impacts in the permitting calculations?
14	Α.	(Allen) We did.
15	Q.	Okay. And do you know offhand, roughly how
16		much of an impact area that is?
17	Α.	(Allen) Oh, I'm sorry. Again, I'd have to go
18		back to look at our calculations.
19	Q.	That's fair.
20		I want to look briefly at the final DES
21		determination, which was Applicant's Exhibit
22		166, Condition No. 35.
23	Α.	(Allen) Did you say Condition 35?
24	Q.	Yes. So, on Page 10 of 25, Permit
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1		Condition 35 in the Wetlands section of the	
2		final DES permit decision, which is	
3		Applicant's	
4	A.	(Allen) I'm sorry. Are you in the August or	
5		the February?	
6	Q.	I'm in the February letter.	
7	A.	(Allen) Okay.	
8	Q.	Applicant's 166. Are you there?	
9	A.	(Allen) I am, yeah.	
10	Q.	So, Condition No. 35 references	
11		project-specific BMPs and that stands for	
12		Best Management Practices; correct?	
13	A.	(Allen) Correct.	
14	Q.	That they shall be developed in coordination	
15		with NHB and NHFGD and submitted to NHDES for	
16		review and approval. Have those BMPs been	
17		put down on paper and submitted to those	
18		various agencies at this point?	
19	Α.	(Allen) They have. They're in our	
20		Construction Best Management Practices	
21		document.	
22	Q.	So the specific BMPs called for in this	
23		condition are the ones you've put forward in	
24		that document, which I think is Applicant's	
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1		Exhibit 124. But that's your understanding,
2		is that there are not any additional BMPs
3		that are required that this is talking about.
4		Because this talks about construction mat use
5		and other construction-type things as a
6		condition for wildlife and plant.
7	A.	(Allen) The way we wrote our BMPs was by
8		resource. So, for some resources, handling
9		of things such as construction mats and
10		construction access was handled within that
11		resource, and other resources such as the
12		Little Bay work, for instance, it would not
13		apply. So if you look at that document,
14		you'll see it's written resource by resource
15		as opposed to taking it through these items
16		that he's got listed.
17	Q.	Yes, I would agree with that. But what I'm
18		trying to get at is do you interpret this
19		condition as applying to only environmental
20		resources, or does it apply to construction
21		more generally, such as erosion control or
22		other types of BMPs?
23	A.	(Allen) Because it references National
24		Heritage and Fish and Game, I was reading it
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1		as environmental.	
2	Q.	That's fair enough. Thank you.	
3		Let me take a look briefly at	
4		Applicant's Exhibit 97, which is the Natural	
5		Resource Impact Assessment, as amended. On	
6		Page 7 of the PDF, which is Page 4 of the	
7		report, at the bottom of the page there's a	
8		reference to "high-risk sites." And I	
9		understand this to be in terms of erosion and	
10		other soil disturbance issues that could	
11		occur	
12	A.	(Allen) Yes, they are.	
13	Q.	and that there may be special BMPs	
14		required for those high-risk sites.	
15	A.	(Allen) Right.	
16	Q.	Is that something that you, as the	
17		environmental team, reviewed specifically in	
18		terms of impacts to natural resources?	
19	A.	(Allen) We did.	
20	Q.	Okay. Going down the list, it looks like	
21		many of these are steep slopes. What kind of	
22		BMPs are employed for	
23	A.	(Allen) We looked primarily at the handling	
24		of water. So we looked at the need for	
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1		either a side ditch or use of trap rock to
2		prevent erosion and, you know, obviously
3		erosion control measures, such as silt
4		fencing. So that was our primarily interest.
5	Q.	And have you developed specific BMPs for each
6		of these sites?
7	Α.	(Allen) We have not yet.
8	Q.	But you plan to do so before construction?
9	Α.	(Allen) That will be something done before
10		construction.
11	Q.	And just to make sure we're clear, am I
12		correct that the BMPs, the high-risk sites,
13		are those that are marked on the
14		environmental plans with this black line
15		go down to the key here. It's labeled here
16		as "steep slope BMPs" on the environmental
17		plans; is that correct?
18	Α.	(Allen) Correct.
19	Q.	So, for example, in Applicant's Exhibits 148,
20		on Page 1, which is Map 1, we see a steep
21		slope BMP around the work pad for Structure
22		F107-6 and part of the access route; is that
23		correct?
24	Α.	(Allen) Yes.
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1	Q.	And so would that be this first high-risk
2		area that's listed in Applicant's Exhibit 97,
3		steep slope associated with Madbury Road?
4	A.	(Allen) I think so. I assume that's adjacent
5		to a wetland, MW1. Yes, it is.
6	Q.	Okay. Thank you.
7		In addition to steep slopes, are there
8		any other I don't see any, but I want to
9		ask. Are there any other factors that are
10		considered high risk in your list here?
11	A.	(Allen) Can you define "high risk"?
12	Q.	Well, you've created in this document things
13		that are identified as "high-risk sites," and
14		I'm just trying to understand if that is
15		limited to steep slopes or if it goes to some
16		other factor that might be deemed "high
17		risk"?
18	A.	(Allen) That specific paragraph is looking at
19		high risk sorry steep slopes.
20	Q.	Okay. Are there other factors that could
21		occur anywhere in the project area that would
22		be considered high risk other than steep
23		slopes?
24	A.	(Allen) Well, I think the work in Little Bay
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1		will certainly require some construction	
2		BMPs. I know we intend to do those.	
3	Q.	All right. Thank you.	
4		You also have on electronic Page 11, and	
5		it's Page 8 of this report, which is	
6		Applicant's Exhibit 97, a list of the	
7		proposed temporary stream impacts for, I	
8		believe this is all the streams that are	
9		impacted by the Project; is that correct?	
10	Α.	(Allen) Yes, it is.	
11	Q.	And for most of these, it would appear that	
12		the proposed crossings is by a mat bridge; is	
13		that correct?	
14	Α.	(Allen) Correct.	
15	Q.	Can you describe what a "mat bridge" is?	
16	Α.	(Allen) These are timber mat bridges where	
17		this is going to be an environmental	
18		description of a timber mat bridge. But they	
19		lay temporary headers with timber mats on	
20		either side of the bridge and span the water	
21		body with a timber mat so it's supported off	
22		the ground.	
23	Q.	Okay. And the point is to avoid any impact	
24		to the stream itself?	

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1	A.	(Allen) Correct.
2	Q.	So that's the majority. And then there are
3		also two other categories that I see. One is
4		temporary culvert; is that correct?
5	Α.	(Allen) Yes.
6	Q.	The other is diversion trench and mat bridge?
7	A.	(Allen) Yes.
8	Q.	Could you describe the difference between
9		those two categories?
10	A.	(Allen) The temporary culvert is used, for
11		instance, in areas where either timber mat
12		bridges cannot be constructed. Some areas
13		I'm thinking about are where a stream is
14		actually kind of running under a work pad, so
15		they would need to cross over that. The
16		trench, I can't remember exactly the term I
17		used. But the diversion trench and mat
18		bridge is looking at stream crossings where
19		we actually need to excavate in the stream to
20		pass under it. That's at College Brook and
21		Pickering Brook over in Newington. And those
22		two will have diversion such as were
23		described by the Construction Panel to divert
24		water around the work area so that trenching
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1		can be done, and then it will be put back
2		with timber mat bridges used to access across
3		the stream body itself. Not sure if that
4		made any sense at all, but
5	Q.	Made some sense. But is it true that in both
6		cases, with a temporary culvert and a
7		diversion, that the water flow and the stream
8		is changed temporarily?
9	Α.	(Allen) That's true.
10	Q.	Okay. For those culverts, what size is
11		proposed to be used?
12	А.	(Allen) We did not specify size. That will
13		be up to the contractor.
14	Q.	Okay. Does the size of the culvert have an
15		impact on animal or fish or plant life that
16		is in the stream?
17	Α.	(Allen) It would. It would, yeah.
18	Q.	Will you be, as the environmental team,
19		consulted on the sizing of the culverts?
20	А.	(Allen) We will.
21	Q.	What kind of impacts can diversion of the
22		stream through a culvert have on flora and
23		fauna?
24	А.	(Allen) Primarily aquatic organism passage.

1		So the ability for fish and other organisms
2		to transit through the area will be halted
3		for the length of time that the diversion is
4		in place.
5		I do want to point out that the
6		diversions are intended to be very short
7		term, on the order of days, in order to get
8		the construction across the stream.
9	Q.	Is that also true for culverts, or is a
10		culvert allowed
11	A.	(Allen) No, culverts will be a longer term
12		while their work pads are in place for
13		construction.
14	Q.	And do culverts restrict the passage of
15		aquatic resources?
16	A.	(Allen) One of our goals as an environmental
17		monitor would be to make sure that that's at
18		a minimum. We should be able put culverts in
19		that do not restrict organisms. Most of
20		these streams, I might point out, are very
21		small.
22	Q.	Okay. Thank you.
23		And is there any impact to turtles or
24		other amphibians that may use streams as
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1		habitat?
2	A.	(Allen) There could be, yes, in terms of
3		creating a barrier by the diversion itself.
4		Or a lot of those animals are reluctant to go
5		through small culverts. So, again, the goal
6		would be to have a large enough culvert that
7		they could pass.
8	Q.	Okay. Are there any other means to mitigate
9		the impacts to amphibians? I'm thinking
10		specifically of some of the threatened and
11		endangered turtles that are expected to be in
12		the area in some parts of the Project.
13	A.	(Allen) Most of the sites that we're
14		requiring these kinds of culverts especially
15		are not particularly suitable for the
16		presence of, I'm thinking of like Blanding's
17		or spotted turtles. I would not expect them
18		to be we've not identified any aquatic
19		habitat likely to support them in the Project
20		area where we're using culverts or trenching.
21	Q.	Okay. Thank you.
22		We were talking a couple minutes ago
23		about Best Managements Practices and
24		Construction Plan for Protected Wildlife and
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<ul> <li>Plants. Is that this document</li> <li>A. (Allen) Yes.</li> <li>Q Exhibit 124? Is this the most updated version of proposed EMPs?</li> <li>A. (Allen) What is the date on this?</li> <li>Q. September 15</li> <li>A. (Allen) Yes. Yes, that is.</li> <li>Q. Is this something that could be updated further in consultation with various state agencies going forward?</li> <li>A. (Allen) I suspect it will be updated, especially with the new information about eagles and sturgeon. The sturgeon plan is actually pretty accurate the way it's written. We will probably do a direct discussion on the eagle nest just to make sure that it's in the record.</li> <li>Q. And the Fresh Water EMPs section of this document, which appears at electronic Page 13, report Page 9, again, Applicant's Exhibit 124, this calls for hand clearing of vegetation I guess within the stream buffers.</li> <li>A. (Allen) For the Oyster River and Valentine Canal.</li> </ul>			
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<ul> <li>discussion on the eagle nest just to make</li> <li>sure that it's in the record.</li> <li>Q. And the Fresh Water BMPs section of this</li> <li>document, which appears at electronic</li> <li>Page 13, report Page 9, again, Applicant's</li> <li>Exhibit 124, this calls for hand clearing of</li> <li>vegetation I guess within the stream buffers.</li> <li>A. (Allen) For the Oyster River and Valentine</li> </ul>	14		actually pretty accurate the way it's
17 sure that it's in the record. 18 Q. And the Fresh Water BMPs section of this 19 document, which appears at electronic 20 Page 13, report Page 9, again, Applicant's 21 Exhibit 124, this calls for hand clearing of 22 vegetation I guess within the stream buffers. 23 A. (Allen) For the Oyster River and Valentine	15		written. We will probably do a direct
<ul> <li>Q. And the Fresh Water BMPs section of this</li> <li>document, which appears at electronic</li> <li>Page 13, report Page 9, again, Applicant's</li> <li>Exhibit 124, this calls for hand clearing of</li> <li>vegetation I guess within the stream buffers.</li> <li>A. (Allen) For the Oyster River and Valentine</li> </ul>	16		discussion on the eagle nest just to make
<ul> <li>document, which appears at electronic</li> <li>Page 13, report Page 9, again, Applicant's</li> <li>Exhibit 124, this calls for hand clearing of</li> <li>vegetation I guess within the stream buffers.</li> <li>A. (Allen) For the Oyster River and Valentine</li> </ul>	17		sure that it's in the record.
<ul> <li>Page 13, report Page 9, again, Applicant's</li> <li>Exhibit 124, this calls for hand clearing of</li> <li>vegetation I guess within the stream buffers.</li> <li>A. (Allen) For the Oyster River and Valentine</li> </ul>	18	Q.	And the Fresh Water BMPs section of this
<ul> <li>Exhibit 124, this calls for hand clearing of</li> <li>vegetation I guess within the stream buffers.</li> <li>A. (Allen) For the Oyster River and Valentine</li> </ul>	19		document, which appears at electronic
<ul> <li>vegetation I guess within the stream buffers.</li> <li>A. (Allen) For the Oyster River and Valentine</li> </ul>	20		Page 13, report Page 9, again, Applicant's
23 A. (Allen) For the Oyster River and Valentine	21		Exhibit 124, this calls for hand clearing of
	22		vegetation I guess within the stream buffers.
24 Canal.	23	Α.	(Allen) For the Oyster River and Valentine
	24		Canal.

### [PANEL: NELSON|ALLEN|PEMBROKE|SWANSON|BJORKMAN]

1	Q.	So, for the two perennial streams that are			
2		impacted specifically?			
3	A.	(Allen) Yes.			
4	Q.	Okay.			
5	A.	(Allen) Well, no. Just to be clear, the			
6		Oyster River is not we're not proposing			
7		clearing along the banks of the Oyster River			
8		at this point.			
9		(Court Reporter interrupts.)			
10	Α.	The contractors think they do not need to be			
11		clearing.			
12	Q.	You were anticipating my question. But I			
13		wanted to look at the crossing of the Oyster			
14		River or sorry the right-of-way			
15		crossing. The Project, as I understand it,			
16		is not proposing any direct impacts of the			
17		Oyster River; is that correct?			
18	Α.	(Allen) That's correct.			
19	Q.	So this is Environmental Map 6A in			
20		Applicant's 148. And am I it's a little			
21		bit hard to see on this document. But this			
22		orange stippling is representative of the			
23		stream buffer; is that correct?			
24	Α.	(Allen) Yes, it is.			
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1	Q.	And there seems to be some overlapping stream			
2		buffers in this area.			
3	Α.	(Allen) There are funny little tribs that			
4		come down from various places that get stream			
5		buffers, so that's why you get this. I'm			
6		looking at the one that bisects the Oyster			
7		River. That stream buffer actually applies			
8		to that stream. Correct.			
9	Q.	The DS61 or 51.			
10	А.	(Allen) Thank you.			
11	Q.	So my question with regard to the BMP for			
12		tree clearing, this environmental map, which			
13		is from, again, I think September of			
14		sorry July of this year, the most recent			
15		environmental map, it does show tree clearing			
16		along the banks of both sides of the			
17		right-of-way along the banks of the Oyster			
18		River; is that correct?			
19	Α.	(Allen) It does.			
20	Q.	And is it your testimony that that tree			
21		clearing is no longer proposed?			
22	Α.	(Allen) That is my understanding.			
23	Q.	Okay. If tree clearing were going to be			
24		occurring within that stream buffer around			
l	$\{SEC 2015-04\}$ [Day 5 AFTERNOON ONLY] $\{09-20-18\}$				

1		Oyster River, would it be done by hand?		
2		Pursuant to the BMPs?		
3	Α.	(Allen) Yes, it would. That's one of the		
4		things that we recommended.		
5	Q.	Mr. Nelson looks like he has something to		
6	Α.	(Nelson) I believe there might be potential		
7		that there is clearing in the vicinity of the		
8		Oyster River, yes.		
9	Q.	Okay. So there may be some clearing still.		
10	A.	(Nelson) Correct. There will be vegetation		
11		maintenance activities going on prior to the		
12		construction. My recollection of that area,		
13		there is not I would not call it		
14		significant clearing, but there's a potential		
15		that there would have to be some tree		
16		removals up to the close vicinity of the		
17		brook itself. A lot of this activity might		
18		be limbing, for example.		
19	Q.	Okay. Thank you.		
20		And pursuant to that BMPs we looked at,		
21		it would be done by hand to reduce impacts		
22		to		
23	A.	(Nelson) That's the goal in this area. As		
24		you can see from the plans, we're calling		
l	{s	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}		

### [PANEL: NELSON|ALLEN|PEMBROKE|SWANSON|BJORKMAN]

1		that a "steep slope BMP" to access portions			
2		of this area. It would be my call that we			
3		would not bring, unnecessarily bring in heavy			
4		equipment for the vegetation portion of this			
5		project unnecessarily. This is work that can			
6		be done by climbing crews.			
7	Q.	But there is a proposed structure here that			
8		will require some equipment.			
9	Α.	(Nelson) Absolutely.			
10	Q.	And how large it's difficult to tell from			
11		this map, but how large are the stream			
12		buffers for this Oyster River?			
13	A.	(Allen) One hundred feet.			
14	Q.	Okay. And then			
15	Α.	(Allen) I'm sorry. Stream buffers that we			
16		used to calculate temporary impacts are 100			
17		feet.			
18	Q.	Okay. So that's what would apply to the			
19		hand-clearing BMP.			
20	A.	(Allen) I don't believe we specified the			
21		width of the hand clearing. That would be			
22		subject to the environmental monitor.			
23	Q.	Okay. So it sounds like the hand clearing			
24		could be limited to a smaller area than the			
ļ	{s:	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}			

1		hundred fast buffer based on the
		hundred-foot buffer based on the
2		recommendation of environmental monitors? I
3		think that's what you just said, but just
4		looking for clarification.
5	A.	(Nelson) Yeah, we would look to minimize
6		undue disturbance in this area. I believe a
7		lot of the question is referring to tree
8		clearing along the edges of the right-of-way
9		corridor. Having looked at that area, I'm
10		confident a lot of that work can be done by
11		hand as we discussed in the documents that
12		we've put forth. I would just clarify that a
13		lot of that work would be manual.
14		With respect to accessing the structure
15		itself, there may need to be, most likely
16		need to be some mechanical mowing work that
17		would need to be done to facilitate the work
18		area for the structure itself.
19		MR. IACOPINO: Can I just ask a
20		question? When you say "done by hand," you
21		mean there would be no chainsaws or power
22		tool-type use?
23		WITNESS NELSON: Okay. No. With
24		respect to tree-clearing work, we say "manual."
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### [PANEL: NELSON|ALLEN|PEMBROKE|SWANSON|BJORKMAN]

1		There will be chainsaws. But it most likely				
2		would be done by climbing crews versus being				
3	done with equipment such as feller bunchers or					
4	bucket equipment.					
5	BY MR. ASLIN:					
6	Q.	So, looking back at Applicant's Exhibit 124,				
7		it appears that the other stream or river				
8		that this would apply to, this BMP would				
9		apply to, is Longmarsh Brook?				
10	A.	(Allen) Yes.				
11	Q.	And similarly, would the extent of the hand				
12		clearing that's needed be determined by				
13		environmental monitors, or is that a				
14		designated buffer area that would be				
15		applicable?				
16	Α.	(Allen) My intent was that it would be				
17		determined in the field by the monitors.				
18	Q.	Okay. To clarify, this Longmarsh Brook is				
19		the brook here to the east of Route 108				
20	Α.	(Allen) Correct.				
21	Q.	in Durham. And that's Applicant's				
22		Exhibit 148, Environmental Map 13. And again				
23		it looks like there's less tree clearing				
24		proposed in the vicinity of the brook, but				
l	{s	EC 2015-04} [Day 5 AFTERNOON ONLY] {09-20-18}				

### [PANEL: NELSON|ALLEN|PEMBROKE|SWANSON|BJORKMAN]

		10
1		there's some within that buffer?
2	A.	(Allen) It's fairly open in that area anyway.
3	Q.	Okay. Thank you.
4		MR. ASLIN: This might be a good
5		stopping place.
6		PRESIDING OFFICER WEATHERSBY: Let's
7		break for the day, back at 9:00 tomorrow and
8		continue with Counsel for the Public. And
9		we'll hear from the Committee and redirect, and
10		then we're done with the Environmental Panel.
11		We still have, I believe, all three potential
12		witnesses. Mr. Varney, Dr. Shapiro and Mr.
13		Cullen are all potential witness for tomorrow?
14		MR. NEEDLEMAN: They are. I'm going
15		to talk to them when we're done here.
16		PRESIDING OFFICER WEATHERSBY: Okay.
17		Thank you. So we're adjourned for the day.
18		(Whereupon the Day 5 Afternoon
19		Session was adjourned at 6:00
20		p.m., with Day 6 to resume
21		on September 21, 2018
22		commencing at 9:00 a.m.)
23		
24		
	[ a	

{SEC 2015-04} [Day 5 AFTERNOON ONLY]  $\{09-20-18\}$ 

1	CERTIFICATE
2	I, Susan J. Robidas, a Licensed
3	Shorthand Court Reporter and Notary Public
4	of the State of New Hampshire, do hereby
5	certify that the foregoing is a true and
6	accurate transcript of my stenographic
7	notes of these proceedings taken at the
8	place and on the date hereinbefore set
9	forth, to the best of my skill and ability
10	under the conditions present at the time.
11	I further certify that I am neither
12	attorney or counsel for, nor related to or
13	employed by any of the parties to the
14	action; and further, that I am not a
15	relative or employee of any attorney or
16	counsel employed in this case, nor am I
17	financially interested in this action.
18	
19	Susan J. Robidas, LCR/RPR
20	Licensed Shorthand Court Reporter Registered Professional Reporter
21	N.H. LCR No. 44 (RSA 310-A:173)
22	
23	
24	
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#### **ADJUDICATIVE HEARING - DAY 5 AFTERNOON ONLY** SEC 2015-04 PSNH,D/B/A EVERSOURCE ENERGY **APPLICATION FOR CERTIFICATE OF SITE & FACILITY September 20, 2018**

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