In The Matter Of:

SEC DOCKET NO. 2015-06 NORTHERN PASS TRANSMISSION, LLC
ADJUDICATORY HEARING

DAY 6 - MORNING SESSION ONLY May 1, 2017

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Min-U-Script® with Word Index

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1	STATE OF NEW HAMPSHIRE		
2	SITE EVALUATION COMMITTEE		
3	May 1, 2017 - 9:08 a.m. DAY 6		
4	49 Donovan Street Morning Session ONLY Concord, New Hampshire		
5			
6	{Electronically filed with SEC on 05-8-17}		
7	IN RE: SEC DOCKET NO. 2015-06		
8	Joint Application of Northern Pass Transmission, LLC, and		
9	Public Service Company of New Hampshire d/b/a Eversource		
10	Energy for a Certificate of Site and Facility.		
11	(Hearing on the merits)		
12	PRESENT FOR SUBCOMMITTEE/SITE EVALUATION COMMITTEE:		
13 14	Chrmn. Martin P. Honigberg Public Utilities Comm. (Presiding as Presiding Officer)		
	Cmsr. Kathryn M. Bailey Public Utilities Comm.		
15 16	Dir. Craig Wright, Designee Dept. of Environ. Serv. Christopher Way, Designee Dept. of Resources &		
	Economic Development William Oldenburg, Designee Dept. of Transportation		
17	Patricia Weathersby Public Member Rachel Whitaker Alternate Public Member		
18			
19	ALSO PRESENT FOR THE SEC:		
20	Michael J. Iacopino, Esq., Counsel to the SEC Iryna Dore, Esq.		
21	(Brennan, Caron, Lenehan & Iacopino)		
22	Pamela G. Monroe, SEC Administrator		
23	COURT REPORTER: Susan J. Robidas, NH LCR 44		
24			

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		3
1	PROCEEDINGS	
2	CHAIRMAN HONIGBERG: All	
3	right. Good morning, everyone. Welcome	
4	back. While all of us were away, I decided	
5	to bring with me a really fun cold. So if I	
6	have to step out, I'll leave either	
7	Commissioner Bailey or Attorney Iacopino in	
8	charge.	
9	I know we have a panel that's	
10	already in place. Are there any preliminary	
11	matters we need to deal with before the panel	
12	gets sworn in?	
13	[No verbal response]	
14	CHAIRMAN HONIGBERG: Oh, how	
15	nice.	
16	(WHEREUPON, JOHN KAYSER, DERRICK	
17	BRADSTREET, KENNETH BOWES, SAMUEL	
18	JOHNSON, LYNN FARRINGTON AND NATHAN	
19	SCOTT were duly sworn and cautioned by	
20	the Court Reporter.)	
21	CHAIRMAN HONIGBERG: Mr.	
22	Needleman.	
23	MR. NEEDLEMAN: Thank you. I	
24	think what I'm going to do is just work my	

{SEC 2015-06} [Day 6 Morning Session ONLY] {05-01-17}

[SCOTT|FARRINGTON|JOHNSON|BOWES|BRADSTREET|KAYSER]

			4
1		way down the panel, one witness at a time.	
2		That will probably be most efficient.	
3		DIRECT EXAMINATION	
4	BY N	MR. NEEDLEMAN:	
5	Q.	So, Mr. Kayser, let's start with you. If you	
6		could identify yourself and where you work,	
7		please.	
8	A.	(Kayser) My name is John Kayser, and I'm a	
9		project manager for Burns & McDonnell.	
10	Q.	And what is your role in this project?	
11	A.	(Kayser) I am the construction project	
12		manager on the Project.	
13	Q.	I've given you two exhibits. The first one	
14		is Exhibit 14, and that is your October 16th,	
15		2015, prefiled testimony, and I've given you	
16		Exhibit 89, and that is your April 17th,	
17		2017, supplemental testimony. Do you have	
18		both of those?	
19	A.	(Kayser) Yes, I do.	
20	Q.	And do you have any corrections to either of	
21		those documents?	
22	A.	(Kayser) No, I do not.	
23	Q.	All right. Then do you adopt both of those	
24		and swear to them?	

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5
         (Kayser) Yes.
1
    Α.
2
    Q.
         All right. And then next is Mr. Bradstreet.
         Could you identify yourself and where you
3
4
         work, please.
         (Bradstreet) Yes. I'm Derek Bradstreet.
5
    Α.
                                                     I
         work for Burns & McDonnell Engineering.
6
7
         a project manager there. I'm solely
8
         responsible on this project for design
9
         engineering.
         And I've given you two exhibits. You have
10
    Q.
11
         Exhibit No. 12, which is your October 16th,
         2015, prefiled testimony, and you have
12
         Exhibit No. 87, which is your April 17th,
13
14
         2017, supplemental testimony. Do you have
         both of those?
15
16
         (Bradstreet) Yes.
    Α.
17
    Q.
         Do you have any changes to either one of
18
         those?
19
    Α.
         (Bradstreet) No, I do not.
20
         Do you adopt both of those and swear to them?
21
    Α.
         (Bradstreet) Yes.
22
         Then next we've got Mr. Bowes. Again, just
    Q.
23
         for the record, could you identify yourself,
24
         please.
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 $\{SEC\ 2015-06\}\ [Day\ 6\ Morning\ Session\ ONLY]\ \{05-01-17\}$

- 1 A. (Bowes) Kenneth Bowes, Vice-president of
 2 Transmission Performance for Eversource
 3 Energy.
- Q. And Mr. Bowes, could you identify your purpose with respect to this panel.
- A. (Bowes) For technical and managerial

 capability, as well as construction

 activities and operations and maintenance for

 the NPT line.
- I've given you four exhibits. Exhibit No. 4 10 Q. 11 is the October 16th, 2015, prefiled testimony of Jerry Fortier; Exhibit No. 9 is the 12 February 26th, 2016, prefiled testimony of 13 14 Ken Bowes; Exhibit 53 is a May 4th, 2016, 15 letter from me to Ms. Monroe indicating your 16 adoption of Mr. Fortier's testimony; and 17 Exhibit No. 90 is an April 17th, 2017, copy of your supplemental prefiled testimony. Do 18
- 20 A. (Bowes) Yes, I do.

19

- Q. Do you have any changes or corrections to any of the pieces of prefiled testimony?
- 23 A. (Bowes) Yes, I do.
- 24 Q. Could you explain those, please.

you have those four?

```
7
1
         (Bowes) For Exhibit No. 9, which is my
    Α.
2
         prefiled testimony, dated February 26th,
         2015, on Page 11 of 20, Lines 17, there's a
3
         typographical error. It should read -- that
4
         line should read, "the exact number of field
5
         inspectors" instead of "the exact number of
6
7
         filed inspectors."
8
    Q.
         Any others?
9
         (Bowes) No, there were no others.
    Α.
         Subject to that one change, do you adopt the
10
    0.
11
         three pieces of prefiled testimony and swear
12
         to them?
         (Bowes) Yes, I do.
13
    Α.
14
    Q.
         All right. Mr. Johnson next. Could you
15
         identify yourself, please.
16
         (Johnson) My name is Samuel Johnson.
    Α.
                                                 I'm a
17
         senior project manager at Burns & McDonnell
18
         Engineering.
19
    Q.
         And what is your role in this project?
20
         (Johnson) I'm the senior manager of the
    Α.
21
         Project, and all Burns & McDonnell employees
22
         report to me.
23
         I've given you two exhibits: Exhibit No. 11,
```

{SEC 2015-06} [Day 6 Morning Session ONLY] {05-01-17}

which is your October 16th, 2015, prefiled

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Do you have any changes or corrections to

24

Q.

[SCOTT|FARRINGTON|JOHNSON|BOWES|BRADSTREET|KAYSER]

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9
1
         either one?
2
    Α.
         (Farrington) No.
         Do you adopt both of those and swear to them
3
    Q.
4
         today?
         (Farrington) Yes, I do.
5
    Α.
         And finally, Mr. Scott, could you identify
6
    Q.
7
         yourself, please.
         (Scott) Yes. My name is Nathan Scott.
8
    Α.
         senior transmission engineer for Burns &
9
10
         McDonnell. I'm responsible for underground
11
         design and design review for this project.
12
         I've given you two documents: Exhibit
    Q.
         No. 13, which is your October 16th, 2015,
13
14
         prefiled testimony, and Exhibit No. 88, which
15
         is your April 17th, 2017, supplemental
16
         testimony. Do you have both of those?
17
    Α.
         (Scott) Yes, I do.
18
         Do you have any changes or corrections to
    Q.
         either one?
19
20
        (Scott) I do not.
    Α.
21
         Do you adopt both of those and swear to them
    Q.
22
         today?
23
         (Scott) I do.
    Α.
24
                         MR. NEEDLEMAN:
                                         All set, Mr.
```

 $\{SEC\ 2015-06\}\ [Day\ 6\ Morning\ Session\ ONLY]\ \{05-01-17\}$

- of the Coos loop? What will happen on the ground?
- (Bowes) So in order to install the new 3 Α. Northern Pass transmission line, the existing 4 115 kV AC transmission lines have to be 5 rebuilt and relocated to, in general, the 6 northern part of that right-of-way. It's 7 about 31 miles of reconstruction of existing 8 wood H-frame transmission lines to, again, in 9 most cases, steel monopole structures located 10 11 along the edge of the right-of-way, and the Northern Pass line will be in the center or 12 to the south part of the right-of-way. 13
 - Q. And in that relocation within the right-of-way of the existing 115 kV line of the Coos Loop, the conductors are being upgraded is my understanding; correct?

14

15

16

- 18 A. (Bowes) That is also correct. As part of the 19 rebuild, we're going to a standard Eversource 20 standard conductor size.
- Q. And that conductor size, I believe, ends with 775, I believe is the designation?
- 23 A. (Bowes) Subject to check. I think it's 795.
- 24 Q. Thank you. And the purpose of that upgrade

- in that conductor size increases the capacity
 of the amount of power able to flow around
 the loop; correct?
- 4 A. (Bowes) Yes, it does.

- 5 Q. And I believe the prior testimony is that it
 6 basically deals with approximately 95 percent
 7 of the thermal limits on that line that
 8 creates approximately 27-percent increase in
 9 the megawatt load that can traverse the line;
 10 is that correct?
 - A. (Bowes) I wasn't here for that part of the testimony. It sounds like you're talking about what Mr. Andrew may have discussed. I believe that's accurate. I mean, I've looked at it maybe in a little bit different terms. But it will certainly unlock the generation that is feeding into that configuration today, and it will allow the generation to run more hours of the year.
 - Q. But also one thing it does not do is it does not create more capacity for potential new projects that would go on it. If another 100 megawatts of wind went on adjacent to the Granite Reliable project, that would not have

- enough capacity on that upgrade. A further upgrade may be needed; correct?
 - A. (Bowes) So, in general, yes. However, additional generation could be added to the loop. It would just curtail or constrain existing generation on that loop, and that would have to be done through the ISO-New England market. And it would be a bidding issue rather than a technical limitation.
 - Q. Thank you.

As part of the reconstruction and reconfiguration of the Coos Loop, there will obviously have to be some amount of time that the existing line is disconnected and the new line connected to the remaining portions of the loop. Approximately how long, from an engineering standpoint, is that anticipated to be?

A. (Bowes) So the plan today is to rebuild the existing line prior to taking -- let me back up -- to build a new line prior to taking apart the existing line. So the entire structures would be built, the conductor run, and it would just be cutovers at each end, at

- Whitefield and at Paris substations to 1 accommodate removal of the old line and 2 installation of the new. So I would estimate 3 probably one to two weeks would be the total 4 time where there would be constraints for 5 operation on that loop. 6
- 7 And during that time, however, of the one- to 8 two-week cutover, the remaining portions, though, the eastern and the southern segments 9 of the Coos Loop, are still functional? 10
 - (Bowes) Correct. There will be no Α. interruptions to customers. There might be some curtailment of generation.
- And that curtailment would obviously be 14 Q. coordinated with the generators and with 16 ISO-New England, I assume; correct?
- 17 Α. (Bowes) That is correct.

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One element that's been discussed previously Q. is the potential of an SVC or voltage regulator being added at the Berlin substation. It's my understanding that a voltage analysis study -- and I may be using an incorrect term, but I believe that's what was referenced -- has to be performed. Is

- that a correct understanding, that that study
 has to be performed?
- 3 A. (Bowes) That, as well as maybe other studies.
- But there would have to be studies performed to determine what other upgrades are needed.
- Q. To the best of your knowledge, sitting here today, have those studies been done yet?
- 8 A. (Bowes) They have not.
- 9 Q. Have they been ordered yet?
- 10 A. (Bowes) They have not.
- 11 Q. How long -- or what is the trigger event that
- needs to occur for those studies to be
- ordered?
- 14 A. (Bowes) I would think all the permits
- 15 necessary for the Northern Pass Project would
- trigger the start of those studies. I don't
- 17 anticipate they would be very lengthy. The
- 18 necessary upgrades could all happen within
- 19 the construction cycle of Northern Pass.
- 20 Q. But as you're sitting here today, is it
- anticipated that once the permits are in
- 22 place, those studies would occur due to the
- 23 nature of the generation along the Coos Loop?
- 24 A. (Bowes) Yes.

- Q. And if the study concludes that the SVC is necessary, I believe the prior testimony is that's approximately a \$20 million asset; correct?
- A. (Bowes) It's probably the high end cost. It
 may not necessitate, you know, a dynamic
 device. We may just be able to use capacitor
 banks, which would be a fraction of that
 cost.
- 10 Q. And how long would that asset take to order
 11 in the process of your construction of the
 12 Northern Pass line?
- A. (Bowes) Again, we haven't gone out to bid yet
 for that. But it's similar equipment to the

 SVC at Deerfield, although much smaller in
 scope and scale. So I would say it's
 probably a 12- to 18-month process to order
 and install.
- Q. And how large is that asset on the ground in general size?
- 21 A. (Bowes) So, again, without knowing all the
 22 technical specifications of it, it's probably
 23 1 to 2 acres would be my estimate.
- Q. Okay. In connecting the -- or improving,

rather, the Coos Loop, that runs through the Whitefield substation. And currently power can flow out of the Whitefield substation either west to Littleton and over towards

Vermont, or south through Bethlehem and down the existing Eversource-PSNH line into central New Hampshire. One aspect of the current project is a new substation in

Franklin. And my question is: Will there be any interconnection between the existing central line running from Bethlehem south to that new Franklin substation for interconnectivity?

14 A. (Bowes) No, there will not.

- 15 Q. Is the Franklin substation being built with
 16 the potential of adding interconnectivity,
 17 whether from the central line or from the
 18 line running from the west along 89?
 - A. (Bowes) So the site is clearly large enough to expand for other uses. There are none planned for at this point, or none in a study phase which goes out more than ten years with ISO-New England.
 - Q. Turning to Exhibit 90, which is your

- supplemental prefiled testimony, and
 particularly to Page 11, Lines 23 through 26,
 where you discuss decommissioning -- let me
 know when you reach there.
- 5 A. (Bowes) Yes, I have it.
- 6 Q. Generally you're discussing there the fact
 7 that transmission lines are typically
 8 reconductored and refurbished rather than
 9 decommissioned. Is that the gist of that
 10 statement in your testimony?
- 11 A. (Bowes) Yes, it is.

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- 12 Q. Okay. Is that your opinion of what will
 13 happen not only for the Northern Pass line,
 14 but also for these upgrades to the Coos Loop?
 - A. (Bowes) So, clearly for the upgrades to the Coos Loop, there's customer service needs there. There are generation service needs there as well. The Northern Pass is slightly different. It's an electric transmission project. So there may be portions that after their useful life are removed and decommissioned, thus the need for a
 - Q. And do you have an opinion on the anticipated

decommissioning plan.

- life of the Coos Loop upgrades?
- 2 A. (Bowes) Yeah. So they're going to be rebuilt
- with steel structures and, you know, the
- 4 latest conductor. They'll have a
- depreciation life of 40 years and probably a
- 6 useful life several decades beyond that.
- 7 Q. Is the upgrade to the Coos Loop included in
- your decommissioning plan figure referenced
- 9 on Page 13, Line 3?
- 10 A. (Bowes) No, it is not.
- 11 Q. Okay. And Attachment A to your Exhibit 90
- is, I take it, to be a number of conditions
- imposed by DOT if this project's approved by
- 14 the SEC. Am I correct in concluding that
- 15 those similar conditions would apply to the
- 16 work done to upgrade the Coos Loop, things
- 17 like the road crossings, the safety factors
- 18 that DOT is concerned with?
- 19 A. (Bowes) Yes, it includes all of the AC
- 20 upgrades for the PSNH transmission and
- 21 distribution lines.
- 22 Q. Thank you.
- 23 Mr. Bradstreet, I believe your
- 24 supplemental prefiled testimony is

- 1 Exhibit 87; correct?
- 2 A. (Bradstreet) That's right.
- 3 Q. Turning to Page 2, Lines 6 and 7 of that
- 4 testimony, you make reference to 13
- 5 structures being moved to lessen wetland
- impacts. Do you recall, as you're testifying
- 7 today, whether any of those 13 structures are
- 8 within the Coos Loop structures, or are we
- 9 talking only Northern Pass overhead line
- 10 segments?
- 11 A. (Bradstreet) I would have to double-check. I
- don't recall, off the top of my head.
- 13 Q. Is there a list of these 13?
- 14 A. (Bradstreet) Yeah, the Project does have a
- 15 list, yes. I don't know if it's been put in
- 16 the record, but...
- 17 Q. Okay. That was going to be my next question.
- 18 A. (Bradstreet) I guess just to maybe further
- 19 clarify your question, in many cases,
- especially in the Coos Loop where we have the
- 21 Northern Pass structure, there would be a
- 22 Coos Loop structure, an existing 115 kV
- 23 structure that is closely adjacent to the
- Northern Pass structure. And in many cases,

- if we were looking to move one, we would also
 be looking to move the other. So, should one
 of those been one of the 13 that was moved,
 there's a good chance that the adjacent 115
 also was moved. But I'd have to
 double-check.
- 7 Also on Page 2, at the very bottom and carry 0. 8 over to Page 3 -- so we start on Page 2, Line 30 and go to Page 3, Line 2 -- you're making 9 reference to the FAA requiring 31 of the 10 11 towers to have obstruction lights added to the top, the red blinking lights. Do you 12 know, as you sit here today, if any of those 13 14 are the Coos -- within the Coos Loop 15 segments?
- 16 A. (Bradstreet) To my recollection, there are
 17 none in the Coos Loop area.
- 18 Q. But I assume there's also a list of which of 19 those structures as well --
- 20 A. (Bradstreet) Yes.
- Q. Page 3, Lines 5 and 6 make reference to a

 "preliminary assessment" is the phrase, of
 the potential electrical interactions with
 the Portland Natural Gas transmission system

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gas line that runs for approximately 12 miles
parallel to the existing Coos Loop. It's my
understanding that those are in the townships
of Stark and Dummer, along the northern
quadrant of the Coos Loop. Has that
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- interference study been done yet?
- 7 A. (Bradstreet) It hasn't been completed, but it's in process.
- 9 Q. Under way?
- 10 A. (Bradstreet) Yes.
- 11 Q. And is that the same as the interference 12 study that you made reference to in your 13 technical session testimony back on
- 14 September 12th?
- 15 A. (Bradstreet) Yes, it's similar.
- 16 Q. When will that study be complete?
- 17 A. (Bradstreet) So, right now we're targeting sometime in May.
- Q. And that's -- bottom line: That's studying
 the interaction that can happen electrically
 between the high-voltage direct current line
 and the gas transmission line; correct?
- 23 A. (Bradstreet) It's analyzing both the existing 24 115 and the Northern Pass HVDC line. And

- correct. It's checking any interference between the pipeline and those lines.
- 3 Q. And that's because things can go boom?
 - A. (Bradstreet) No, it's not because things can go boom. It's because -- so a pipeline has a cathodic protection system --

(Court Reporter inquiry)

Q. Explain that phrase for us.

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- (Bradstreet) It can vary between an impressed 9 Α. 10 current design, which is a DC current 11 supplied to the pipeline to make sure it doesn't corrode, or it could have anode beds 12 of zinc anodes to be sacrificial so that the 13 14 pipeline doesn't corrode. So we'll be 15 double-checking to make sure that our project 16 doesn't influence that, but also that our 17 project doesn't create unsafe conditions for pipeline workers. 18
 - Q. And what are the ramifications if some negative aspect is found in that study?
 - A. (Bradstreet) So if there was some negative aspect, which we do not believe we will find, there may be some mitigation required for the pipeline.

Q. Such as?

- A. (Bradstreet) In the case of if there was a

 case where we found the overstress on the

 coating of the pipeline or something like

 that, we might have to bury a mitigation wire

 to offset some of that voltage stress of the

 coating of the pipeline.
- 8 Q. Basically, it takes the electrical impact and 9 grounds it some other place other than --
 - A. (Bradstreet) Spreads it out so that that specific voltage isn't seen across the pipeline coating.
 - Q. Thank you.
 - Mr. Kayser, your supplemental prefiled testimony is Exhibit 89, I believe. And if you would turn to Page 3 of your document.

 Line 17 makes reference that a comprehensive schedule will be developed. I take it to mean that that means there is no comprehensive schedule yet developed?
 - A. (Kayser) That is correct. The contractor,

 PAR, the general contractor, will be
 developing a comprehensive construction
 schedule as they move to planning of the

1 Project.

- Q. Okay. Does that mean that there is not even like a Gantt chart preliminary saying it takes us this long for these tasks, and you just change the start date?
 - A. (Kayser) They are working on that. You start with a very high-level schedule as you're building it, put your milestones in there, and then you develop it further as you understand what the energization date is and when you think you're going to start construction. So they are in that process of developing that detailed schedule.
 - Q. And I'm not sure if this is a question for you or for others on the panel, but how long does it take to receive the necessary conductors that are being used for the upgrade to the Coos Loop?
 - A. (Kayser) As far as delivery times, that varies. But typically from the time you tell the vendor that you need the conductor, it's 12 to 16 weeks from that. But we have contracts -- and Mr. Johnson may have more information. But we have contracts with all

- of the vendors. So as we get approval, we will work on a delivery schedule, and that will be incorporated into the contractor's schedule for the conductor, the lattice structures, the steel poles and all of the other materials.
- Q. Okay. So where are those conductors coming from, by the way?
- 9 A. (Johnson) Southwire is the name of the
 10 company. They have manufacturing facilities
 11 in the U.S.
- Q. What about the tower elements for the monopoles for the new segment of the Coos Loop?
- A. (Johnson) Both the 115 and 345 kV monopoles
 will be manufactured in the U.S., and the
 lattice structures will be manufactured in
 Montreal, Quebec.
- Q. Are the workers installing the towers New
 Hampshire residents, or are they coming from
 outside as well?
- 22 A. (Johnson) It will be a combination. As you
 23 are aware, there is the New Hampshire First
 24 priority for hiring. And for the IBEW, when

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27
1
         that bench strength, if you will, of New
         Hampshire employees is depleted, they will
2
         then go outside of New Hampshire to get more
3
4
         workers.
         And is a separate set of workers used to
5
    Q.
         install the conductors, you know, one team
6
7
         doing the towers and another team doing the
         stringing of the lines?
8
         (Johnson) Yes, sir.
9
    Α.
         Okay. And are those workers similarly coming
10
11
         first from New Hampshire and then from the
         region, if necessary?
12
         (Johnson) Yes, sir.
13
    Α.
14
                         MR. BOLDT: No further
15
         questions at this time, Mr. Chairman.
16
                         CHAIRMAN HONIGBERG:
                                               All
17
         right. Anyone from Wagner Forest Management
18
         to ask questions?
19
                         MR. NOVELLO:
                                       Yes, I'm here.
20
                         CHAIRMAN HONIGBERG:
                                               Wave your
21
         hand.
                 Okay.
22
                                       My name is Mike
                         MR. NOVELLO:
23
         Novello. I'll be addressing the panel.
24
```

1 CROSS-EXAMINATION

- 2 BY MR. NOVELLO:
- 3 Q. My concern is primarily the construction
- along the areas managed by Wagner Forest. If
- I use that colloquially, are you aware of
- 6 which sections I'm referring to?
- 7 A. (Kayser) Yes.
- 8 Q. So can you describe how the existing roads
- 9 will be used in those plans?
- 10 A. (Kayser) As the contractors develop their
- 11 access plans, if there are existing roads,
- logging roads that are there today, they
- would use those to the maximum extent
- 14 practical and then do any necessary upgrades,
- depending on the size of their equipment.
- 16 They would look at that to determine if they
- 17 need to add any gravel or do any matting to
- 18 use those roads.
- 19 Q. Okay. Do you expect there will be any
- 20 restrictions on use of existing roads during
- 21 construction?
- 22 A. (Kayser) I guess undetermined at this time.
- They would have to look at it to see if the
- roads -- as far as town roads, there could be

- some postings. But the roads in the Wagner
 Forest, they'd have to look at that and work
 with the Forest on the timing of
 construction.
- (Johnson) I will add one thing. 5 Α. Department of Environmental Services has 6 7 requested that we do a culvert study to fully 8 understand the sizes and strengths of the culverts along the access roads that we've 9 10 identified that we would use. That study has 11 been completed and submitted to the DES, and we will comply with the upgrades that are 12 required for the roads that we've identified 13 14 as being used.
 - Q. And then beyond what you've just discussed, do you have any other plans for improvements to the existing roadways, either pre- or post-construction?

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A. (Johnson) We do. Typically it's the last half- to quarter-mile from that logging road into our right-of-way. For the majority of the work that we will be doing, we are planning on traversing up and down the right-of-way as opposed to, you know, sort of

leaving and then coming back on logging
roads. However, the main sort of access
areas, if you will, are part of our
Application.

- Q. Okay. So can you describe any restoration plans for those roads, for the roads on the Wagner lands post-construction?
- A. (Johnson) So we will work with the Wagner

 Forest to see if any of the improvements that

 we made -- the culverts themselves have to

 stay. Those are permanent upgrades. If

 there are areas where we've enhanced the

 roads with gravel or anything else of that

 nature, we will work with the Forest to

 determine whether they would like those roads

 left as is or they would like them taken out.

 And if so, we'll remove them just as we would

 remove any other access road on the Project.
- Q. So in the prefiled testimony there was some discussion of public outreach prior to and during construction. Can you confirm there will be someone available to coordinate work on the Wagner lands with other work going on in the working forest which would primarily

be forestry activities?

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- A. (Johnson) Absolutely. Obviously, with the logging trucks and the amount of equipment that you have, we want to stay as far away from your activities as we can so that there's no interference.
- Q. And then can you describe any either standard practices, best practices, or special practices that you might expect to ensure safety on the lands? So, for example, would there be CB communication, flagging, those type of activities?
- (Johnson) Absolutely. One of the issues we 13 Α. 14 have up in the forest area is that 15 communication is very poor just because there 16 aren't cell towers. And CB is typically line 17 of sight or, you know, when you can't be over a ridge kind of thing. We do expect to 18 19 employ satellite communications just so that there are at all times communications 20 21 available.
 - Q. Okay. If there are satellite communications that foresters wouldn't have necessarily in their trucks, are there portable units or

- 1 temporary units that can be loaned out?
- 2 A. (Johnson) Yes. Absolutely.

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- Q. Okay. Are there particular seasons that you're planning to focus on for different phases of construction?
 - (Johnson) Yes. Typically the tree-clearing Α. will be done in the winter months where the ground tends to be more frozen. Obviously, there are also some other restrictions that are biological and ecological that we must be sensitive to. So there are certain construction activities that need to be phased, depending on how that all comes together. And that's exactly the process that we're in right now is trying to figure out that. But from a general perspective, it's clearing access roads in the winter, and then the construction activities would follow usually post-mud season to avoid, obviously, the major impacts and take that going forward.
 - Q. At this point, are you expecting those activities to each be one season, or are you expecting this to last for multiple years of

construction?

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- (Johnson) Good question. It really depends I 2 think on the productivity that we get through 3 one or more seasons. Conceivably the 4 24 miles that are in the forest could be done 5 in one season. But I don't think we're going 6 7 to limit ourselves at this time. obviously we'll work with you as the Forest 8 to come up with a most appropriate solution 9 for that area. 10
- 11 Q. Okay. What are your plans for sourcing
 12 materials related to construction there,
 13 notably gravel and matting you mentioned
 14 earlier?
- 15 A. Gravel will all be local. Obviously, the
 16 less truck time we have, the better.
 17 Matting, we've been working with several
 18 vendors in the area, all New Hampshire-based.
 19 So it will be most likely somebody in New
 20 Hampshire that will provide the matting.
 - Q. Okay. And it sounds like from your prior answer there's going to be both temporary and permanent bridging structures potentially.
 - A. (Johnson) Potentially. At this point,

- anything that's on one of the major access
 roads would be permanent, and anything along
 our right-of-way would be temporary.
- Q. Okay. Will there be a minimum height above the road that lines will be strung? In particular, I'm worried about collisions with forestry trucks.
- 8 A. (Bradstreet) So, yes, all of our design
 9 accommodates road-crossing clearance
 10 requirements. So as long as vehicles aren't
 11 taller than over-the-road, I guess,
 12 non-permitted load, clearance will be
 13 adequate.
- Q. And then my final question: Do you
 anticipate there will be any gating of the
 roads or line corridors during construction
 or after construction?
- 18 A. (Johnson) Only if required by the Forest.
- MR. NOVELLO: Thank you.
- 20 That's my last question.
- 21 CHAIRMAN HONIGBERG: All
- right. I think we're up to Counsel for the
- 23 Public.
- MR. PAPPAS: Mr. Chairman,

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we're going to allow Mr. Bilodeau to go in
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         front of us. He only has a limited amount of
         time, and he'd like to leave to go to work,
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         and then I'll follow him.
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                         CHAIRMAN HONIGBERG: While Mr.
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         Bilodeau's coming up, is there anybody else
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7
         who has a particular time constraint today
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         that we need to work around? If so, at the
         next break, either tell Ms. Monroe or
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         Attorney Iacopino, and we'll try to work that
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11
         out. Mr. Pappas will be more than
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         accommodating.
         Bill dough Exhibit 18 is now up on the
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         monitor.
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                         CHAIRMAN HONIGBERG:
                                              Mr.
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         Bilodeau, you may proceed.
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                         MR. BILODEAU:
                                        Good morning.
         Thank you, Members of the Committee, and
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         thank you, Attorney Pappas, for the few
20
         minutes to get me in and out of here.
21
         you.
22
                      CROSS-EXAMINATION
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    BY MR. BILODEAU:
         And good morning, gentlemen and lady of the
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                  I guess I want to ask you all
          individually if you are familiar with the
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         existing Deerfield substation. And answer in
3
         any order or whatever.
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    Α.
         (Kayser) Yes.
         (Bradstreet) Yes.
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    Α.
7
         (Bowes) Yes.
    Α.
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    Α.
         (Scott) Yes.
9
         (Farrington) Yes.
    Α.
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         (Johnson) Yes.
    Α.
11
         Have you been there, to the Deerfield
    Q.
         substation?
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13
         (Kayser) Yes, I have.
    Α.
14
         (Bradstreet) Yes, sir, I have.
    Α.
15
         (Bowes) Yes.
    Α.
16
         (Johnson) Yes.
    Α.
17
    Α.
         (Farrington) I have not.
         (Scott) No, I have not.
18
    Α.
19
    Q.
         Thank you.
20
               And as you'll see on the screen, there's
21
         a representation there of what's there now
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         presently that I just asked you about.
23
         now I will replace that with a representation
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         prepared by --
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- A. (Johnson) Could you spin that around?

 Perfect.
- 3 Q. Sorry. I'm not used to this.
- 4 A. (Johnson) Neither are we. It's okay.

5 MR. IACOPINO: Mr. Bilodeau,

it would also be helpful if you referred to

your exhibits by their number so that the

8 record knows what exhibit you're speaking

g about.

- MR. BILODEAU: Okay.
- 11 Eighteen.
- 12 BY MR. BILODEAU:
- 13 Q. Can any one of you -- so that's a
- 14 representation of what's proposed from the
- documents prepared by the Applicant. Can one
- 16 of you, or any one of you, confirm that the
- 17 plans and supporting documents that have been
- 18 proposed is a 16- to 18-acre clear cut?
- 19 A. (Kayser) I don't remember the exact acreage,
- 20 but we will be clearing that area where the
- 21 SVC and capacitor bank area are shown on your
- exhibit.
- 23 A. (Bowes) I was under the impression it was
- about 8.4 acres of clearing.

- Q. I'm only reporting what I heard at one of the public meetings that had taken place by one of your experts.
- A. (Johnson) Sure. I believe the existing
 substation has 8 acres, and there's an
 additional 8 acres that will be cleared for
 the total of 16.
- 8 Q. Thank you.

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9 Can you confirm, can any one of you
10 confirm that there's a 22-foot cut and a
11 14-foot fill section that will be necessary
12 to flatten the hill to make a flat spot for
13 this SVC thing, station?

- A. (Kayser) I don't have the plans in front of me, but there are some cut and fills to make that flat for where the SVC and capacitor bank areas are.
- Q. Okay. Can anyone of you who would be most comfortable describe the sequence of putting that SVC station there, you know, from initiation to you drive away and all we see is your taillights?
 - A. (Kayser) I guess I can start on it and then maybe Derrick or Sam can jump in.

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The first thing the contractor would do
is to come in and clear the area, clear the
vegetation for the capacitor bank and also
where the relocated 345 kV line will go.
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- Q. Could we just do this sequentially so I don't -- we don't remember at the end?
- 7 A. (Kayser) Okay.

5

- 8 Q. How will that take place, the clearing? What
 9 type of equipment and what do you expect?
- (Kayser) Yeah, the contractor will have 10 Α. 11 typical clearing equipment, the feller 12 bunchers. Depending on the area, there may be some hand clearing that needs to be done. 13 14 But they'll come in there and take the trees, 15 either chip them and dispose of the chips, or 16 take the trees out if there's any marketable 17 timber.
- 18 Q. Thank you.
- 19 A. (Kayser) Then, once the clearing's done,
 20 they'll start the site development work.
 21 Again, the equipment for site development
 22 would be bulldozers, excavators, dump trucks,
 23 normal site development. As they're doing
 24 that -- prior to starting the site

- development, they would set up all the
 necessary environmental controls to control
 that site development. Then they would put
 the subbase down there, and then foundations
 for all of the equipment in the area would
 follow that.
- 7 Q. I'm sorry again to interrupt. The cut and
 8 fill, has there been boring done? Is there
 9 ledge there, and would ledge need to be
 10 blasted?
- 11 A. (Kayser) They've done some soil borings. I
 12 don't know what those soil borings showed.
- Sam, I don't know if you know if they've completed all of them.
- A. (Johnson) They have. There's a potential for a small amount of blasting, but that has not been determined at this time. The contractor still believes they can remove some of that with mechanical means as opposed to blasting.
 - Q. That would be part of the site preparation?
- 21 A. (Johnson) That's correct.

20

22 A. (Kayser) Yeah, the cut and fill would be part
23 of the site preparation. Once the site is
24 done, then they would start with the

- foundations, any of the foundations for the
 equipment, and also the ground grids that
 would go in there that are required for that.
- 4 Q. A lot of concrete?
- 5 A. (Kayser) Yes, for -- yeah, the foundations
 6 would be concrete. Any of the stands for the
 7 bus work are concrete foundations. The
 8 transformer has a concrete foundation. And
 9 then SVC building itself would have a
 10 concrete foundation.
- 11 Q. On-site material production or trucked-in concrete?
- 13 A. (Kayser) Most likely trucked in from a batch
 14 plant locally.
- So, after foundation, then they would
 start erection of the steel, get the
 equipment in there and then start with
 installing the electrical lines to energize
 the equipment.
- Q. The line relocation and station, is that the same firm doing that, or is that two separate activities taking place at the same time?
- A. (Kayser) The SVC would be done by a separate firm. And then the lines and the electrical

- equipment and the existing substation will be
 done by PAR Electric as the general
 contractor. ABB would be installing the SVC
 capacitor bank.
- Q. So as you describe this activity, could you surmise -- or summarize how long all of this would take from start to finish?
- 8 A. (Kayser) They don't have the exact schedule,
 9 but I would say you're probably in the
 10 18-month time frame, give or take a few
 11 months on either side.
- 12 Q. So would that 18-month period be consistent
 13 throughout the 18 months? You start in month
 14 one and just keep working until you're at the
 15 end and it's continual?
- 16 A. (Kayser) Yes, I would say it's fairly
 17 continuous work.
- 18 Q. That's the overall. What's the daily
 19 activity like?
- A. (Kayser) Depends on what type of work they're
 doing there. So, during the site
 development, a lot of site-development
 equipment. Work hours would be similar for
 most of the Project, which would be the

- daylight hours doing construction, Monday
 through Saturday.
- Q. So in previous testimony -- and I'm pleased to hear you say that, Mr. Kayser -- it was six days a week. Saturdays are an included workday?
- 7 A. (Kayser) Yes, Monday through Saturday. Yeah.
- Q. In some of the previous discussions over the past year and a half we've heard it's like from 7:00 to 7:00?
- 11 A. (Kayser) Yeah, that's probably about the timing of that.
- Q. Okay. Would you consider any of this work to be quite noisy?
- 15 (Kayser) It would be typical noise for a Α. 16 construction site. During the site 17 development there would be more noise than 18 during the other parts of that because you've 19 got more equipment that will be doing the 20 cutting and fill. And then, if there is any 21 potential for blasting, that will be done 22 during that time period.
 - Q. Thank you.

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MR. BILODEAU: And thank you

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         again, Mr. Pappas.
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                         And one last thing.
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         wanted to show with my finger here where my
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         house is on the sketch so you can kind of get
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         the sense of my questions.
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                         Thank you very much.
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                         CHAIRMAN HONIGBERG:
                                               Mr.
8
         Pappas.
9
                         MR. PAPPAS:
                                      Thank you.
10
                      CROSS-EXAMINATION
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    BY MR. PAPPAS:
         Good morning, gentlemen, Ms. Farrington.
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              Attorney Needleman went over your areas,
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         but I want to just make sure I understand
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         what each of you are going to -- the areas
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         you'll cover during the testimony. So I'll
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         start with you, Mr. Bowes.
              You indicated that you're the lead
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19
         technical expert. So I understand that
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         covers basically overall construction,
21
         including summary of the construction plans
22
         and the decommissioning plan. But you also
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         touch upon property rights; is that right?
         (Bowes) Yes, as well as operation and
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- 1 maintenance of the line.
- Q. Okay. And Mr. Kayser, you're employed by
- Burns & McDonnell as a project manager, so
- 4 you're going to be talking about both
- 5 managing this project, as well as some
- 6 specific construction items?
- 7 A. (Kayser) Yes.
- 8 Q. Okay. And Mr. Johnson, you are also employed
- 9 by Burns & McDonnell. I understand your
- 10 areas include land rights, public outreach
- and some overall project costs?
- 12 A. (Johnson) That's correct, as well as overall
- management of the program.
- 14 Q. Okay. And Mr. Bradstreet, you oversaw the
- overhead portion of the Project; is that
- 16 right, initially?
- 17 A. (Bradstreet) Yes, from the design aspect.
- 18 Q. And you also oversaw the design of the
- 19 converter terminal in Franklin?
- 20 A. (Bradstreet) That's correct.
- 21 Q. And today your role has changed a little bit.
- You're now the lead engineer for all the
- engineering scopes; is that right?
- 24 A. (Bradstreet) Yeah. I mean, so my overall

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(Farrington) Correct.

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Α.

- Q. And you, I understand, were initially advised to work on traffic issues and planning?
- 3 A. (Farrington) Yes, that's correct.
- 4 Q. And subsequently your firm has been retained by PAR Electric?
- 6 A. (Farrington) Yes.
- Q. And as with a contract with PAR, you've developed the traffic control plans to date?
- 9 A. (Farrington) Yup.
- 10 Q. And you'll eventually develop a traffic
- 11 management plan?
- 12 A. (Farrington) Yes.
- 13 Q. Okay. So let me start with Mr. Kayser and
- Mr. Bowes and ask some questions about the
- overall project management.
- Now, Quanta will be the overall general
- contractor; is that right?
- 18 A. (Kayser) Yes.
- 19 Q. Okay. And Quanta will be responsible for the
- 20 entire project; correct?
- 21 A. (Kayser) Yes.
- 22 Q. Okay. And that includes final design, hiring
- all the subs and actually constructing the
- 24 Project?

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Α.

(Johnson) So, PAR Electric is a subsidiary of

- Quanta. That's correct. The bid was
 actually bid by PAR Electric, not by Quanta.
- Q. Ah, okay. And so PAR, then, will actually oversee all parts of the construction.
- 5 A. (Johnson) Correct. The contract is with PAR Electric.
- 7 O. With PAR. Okay.
- Now, PAR, as I understand it, has retained SGC Engineering for the civil engineering for open trench?
- 11 A. (Johnson) That is correct.
- Q. And PAR has retained Brierley Associates for the trenchless engineering?
- 14 A. (Johnson) That is correct.
- 15 Q. And you said a moment ago NPT hired ABB
 16 directly for the underground cable.
- 17 A. (Johnson) That is correct.
- Q. All right. So in terms of the overhead
 construction, that will be done by PAR and
 whatever subs it hires?
- 21 A. (Johnson) That's correct.
- Q. And in terms of the underground construction,
 the open trench will be by PAR and whatever
 subs it hires?

But apart from the general contractor, does

24

Q.

PAR also have an agency relationship with NPT to oversee construction apart from the

(Johnson) So the agency part that we're

- 3 contract for the general construction?
- referencing, their contract is effectively
 managing the material deliveries from the
 other vendors that have been
- direct-contracted with Eversource, or NPT, as

 well as managing the ABB installation, as far

 as touch points and schedule and making sure

 that they are all working harmoniously.
- 12 A. (Bowes) But it is a single agreement that
 13 includes both the agent and the general
 14 contractor.
- Q. Okay. But the agency part is for overseeing material procurement and overseeing ABB's work?
- 18 A. (Johnson) Correct.

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Α.

- Q. Okay. Does the agency part include overseeing PAR's work?
- 21 A. (Johnson) By definition, I would -- yes.
- Q. Okay. So, essentially, PAR is going to be the general contractor, plus they're going to be NPT's agent to oversee the construction

1 work?

- 2 A. (Johnson) From the direct construction.
- 3 There would still be oversight from the owner
- 4 as well.
- 5 Q. Okay. But the owner doesn't have a separate
- agent to oversee any of PAR's work direct?
- 7 A. (Bowes) Yes, we do.
- 8 Q. Who's that?
- 9 A. (Bowes) One of them will be Burns &
- 10 McDonnell. So there is an organization chart
- actually on the last page of Jerry Fortier's
- 12 testimony that's actually color-coded as
- 13 well. And the areas in I'd say pink or light
- 14 red are really under the PAR general
- 15 contractor, and then there's two columns to
- the left which includes the design
- 17 engineering and owner's engineer, project
- 18 controls, environmental project management,
- 19 and then various technical oversight for the
- 20 PAR contract and community relations and
- 21 environmental oversight for the work that PAR
- does.
- 23 Q. Okay. So I want to walk through that a
- 24 little bit.

- 18 A. (Johnson) And permit development and
 19 everything else, yes.
- Q. Okay. Now, has PAR also retained Burns & McDonnell with respect to designing, doing the final designs for the Project?
- 23 A. (Johnson) No.
- Q. No. But will Burns & McDonnell work with PAR

- in developing the final design of the Project?
- A. (Johnson) So, Burns & McDonnell's role is
 that of, specific to design, is that of
 owner's engineer, where we will check their
 work, if you will, and make sure that they
 are complying with the appropriate standards
 and appropriate laws.
- 9 Q. Okay. So that's an agency role where Burns &

 10 McDonnell will be the agent of the owner

 11 checking PAR's work?
- 12 A. (Johnson) Correct.
- Q. Okay. Now, Burns & McDonnell's also retained for the construction part; correct?
- 15 A. (Johnson) The management side of it, yes.
- Q. Right. And in your role in the management side of construction, is that also as the agent of the owner?
- 19 A. (Johnson) Correct.
- Q. As the agent of the owner, will Burns &

 McDonnell have any role in overseeing PAR

 with respect to material procurement and the

 ABB work?
- 24 A. (Johnson) In the sense that we will be making

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sure that they're adhering to the schedule that they've produced, in the sense that they've -- that they are adhering to any environmental requirements from any of the agencies, in the sense that they're meeting the designs that have been approved by the agencies, yes, we will be overseeing them. On a day-to-day basis, we will have, at least as proposed right now, we will have field monitoring from both an environmental and construction management perspective. again, those nuances are yet to be determined. There will at least be somebody out there, whether it's Burns & McDonnell or an independent third-party vendor. That's to be determined.

- Q. So, just to summarize, for final design going forward, that will be done by PAR, and Burns & McDonnell will oversee that work on behalf of the owner.
- 21 A. (Johnson) As the owner's engineer, yes. And 22 the actual construction will be done by PAR.
 - Q. And Burns & McDonnell will be the owner's agent to help manage or oversee the

construction activity?

- A. (Johnson) That's correct. In essence, we're
 an extension of the owners, almost as staff
 augmentation, if you will.
 - Q. And PAR will be doing the construction on behalf of the owner, and under the same contract, but separately will be the owner's agent to procure materials and essentially deal with ABB; correct?
- 10 A. (Johnson) Correct. One nuance there is some
 11 of the major material is already procured.
 12 It's just the management of the schedule of
 13 delivery, et cetera. But essentially, yes.
 - A. (Bowes) I was just going to add, they're assuming Eversource contracts for some of the major materials, and they're assuming the responsibilities for control of ABB to make sure there are no seams within the Project. So they kind of have a wrap around the entire construction activities.
 - Q. Okay. Now, earlier you indicated the lattice towers are manufactured in Canada; is that right?
 - A. (Johnson) That's correct.

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    Q.
         And the monopoles, I understand, are
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         manufactured in Texas and Indiana?
2
         (Johnson) That's correct.
3
    Α.
         And the conductors are manufactured somewhere
4
    0.
         in the Carolinas?
5
         (Johnson) Yes, I believe so.
6
    Α.
7
         Okay. And the capacitor banks are
    Q.
         manufactured overseas by ABB, probably in
8
         Germany or Sweden?
9
         (Johnson) Again, that sounds about right,
10
    Α.
11
         too.
         (Kayser) Yeah.
12
    Α.
         And the transformers are also manufactured by
13
    Q.
14
         ABB overseas?
15
        (Johnson) Correct.
    Α.
16
         And the steel for the substations, that will
17
         be manufactured somewhere outside of New
18
         Hampshire?
19
    Α.
         (Johnson) I don't believe there's any steel
20
         capacity in New Hampshire. So, yes, it would
21
         be somewhere outside of New Hampshire.
22
         Okay. And the cables, those would be
    Q.
23
         manufactured outside of New Hampshire?
         (Johnson) Those are specialty equipment, yes.
24
    Α.
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- Q. Yeah. The concrete will be both sourced in New Hampshire and outside New Hampshire?
- 3 A. (Johnson) I would say almost entirely in New Hampshire.
- 5 Q. Have you identified all the concrete batches 6 yet?
- 7 A. (Johnson) We have not. That's PAR Electric's responsibility.
- 9 Q. Do you know if there's enough capacity in New
 10 Hampshire to supply all the concrete for this
 11 project?
- 12 A. (Johnson) I know that they're considering
 13 developing temporary batch plants to make
 14 sure there is enough concrete available, all
 15 locally sourced of course.
- Q. So would it be fair to say that, other than
 the concrete and perhaps some local gravel,
 the vast majority of the supplies and the
 materials for the Project will be sourced
 from outside New Hampshire?

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A. (Johnson) Not necessarily. New Hampshire
does have some manufacturing capability for
hardware materials, if you like. There's a
fair amount of those types of materials that

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- need to be purchased and installed on this
- project. In addition, there will be your
- 3 hand tools and your smaller type of
- 4 equipment, disposable equipment, if you will,
- 5 that will all be sourced from New Hampshire.
- 6 So there's a fair amount that will be still,
- you know, made in New Hampshire, if you will.
- 8 Q. Percentage-wise, certainly on a cost basis
- 9 that's a pretty small percentage, isn't it?
- 10 A. (Johnson) On a cost basis, yes. And I'll add
- 11 that that's not atypical of any other
- 12 project. Most of the equipment that we're
- 13 purchasing is specialty-type equipment and is
- 14 built in relatively discrete locations all
- 15 around United States and abroad.
- 16 Q. Okay. Now, other than perhaps concrete
- 17 sourced locally, and perhaps some gravel, all
- 18 of this material needs to be shipped to New
- 19 Hampshire and stored until installed in the
- 20 Project; correct?
- 21 A. (Johnson) Correct.
- 22 O. And I assume that will be stored in the
- 23 laydown areas?
- 24 A. (Johnson) That's correct.

- Q. Okay. Let me ask a few questions about labor on the Project.
- Is it your anticipation that, in terms
- of linemen, somewhere between 500 and 800
- 5 will be required during construction?
- 6 A. (Johnson) That seems about right, yes.
- 7 Q. And there are approximately 250 linemen in 8 New Hampshire?
- 9 A. (Johnson) That is correct, as far as I know.
- 10 A. (Bowes) I think actually during the public
- sessions, I think we actually had a data
- request, and I think the IBEW provided a
- figure a little bit higher than that. But
- 14 approximately 250 are probably able to work
- 15 at this point.
- 16 Q. Actually, the data request was 250.
- 17 A. (Bowes) Okay.
- 18 Q. That's where I got the number from.
- 19 A. (Bowes) I remember a 269 number. So you're
- 20 probably correct then.
- 21 Q. Well, for the record, I'll let you know
- Exhibit 160, Page 12, is the data request
- response, and that indicates 250.
- MR. IACOPINO: Whose exhibit?

New Hampshire, obviously you'll have to

- source them outside New Hampshire.
- 2 A. (Johnson) Yes, but we don't think that will
- 3 happen.
- 4 Q. Have you done a survey of all the available
- New Hampshire sourcing for those items?
- 6 A. (Johnson) We've done preliminary surveys,
- 7 yes. And we expect as we get more towards
- 8 the construction process inevitably people
- 9 start contacting us to provide services.
- 10 Q. Okay. Now, along with this material -- it
- involves a lot of heavy construction
- 12 equipment; correct?
- 13 A. (Johnson) Correct.
- 14 Q. And, for instance, all the specialty drilling
- 15 equipment, that will come from outside New
- 16 Hampshire?
- 17 A. (Johnson) I don't believe there are any
- 18 rigs --
- 19 Q. In New Hampshire.
- 20 A. -- in New Hampshire. That's correct.
- 21 Q. And a number of the heavy construction
- 22 equipment will likely be sourced from outside
- New Hampshire as well; correct?
- 24 A. (Johnson) Most likely not, no. Transporting

```
heavy equipment is very expensive. So,
1
2
         excavators, bulldozers, dump trucks, all that
         will be locally sourced as much as possible
3
         just to curtail costs. There are certain
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         pieces of equipment, like tensioners and
         other things, overhead lines, that are
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7
         unique. But your standard bucket trucks and
         those kind of things exist today in New
8
         Hampshire, and we will, for the most part --
9
         or the contractor will, for the most part, be
10
11
         using local equipment, as it is cheaper.
         And, for instance, dump trucks. Have you
12
         determined whether or not you can source a
13
         sufficient number of dump trucks for this
14
15
         project in New Hampshire?
16
         (Johnson) I personally do not know the answer
    Α.
17
         to that. I would assume yes, but...
         How about concrete trucks for all of the
18
    Q.
19
         concrete, whether it's concrete slabs or the
```

- concrete, whether it's concrete slabs or the
 FDB material? Do you know whether there's a
 sufficient number of those sourced in New
 Hampshire?
- 23 A. (Johnson) Same answer.
- 24 Q. You don't know?

- 1 A. (Johnson) Yeah, I don't know for sure.
- 2 Q. That's fair enough.

All right. So let me ask some questions
about construction time and construction
management, starting overall. I think, Mr.
Kayser, you touched upon this in your

7 testimony.

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We have Counsel for the Public

Exhibit 1, which is a map showing the route.

As I understand it, there are essentially seven major construction activities that will take place. First is the HVDC overhead transmission from the Canadian border down to the Franklin converter station; correct?

- 15 A. (Kayser) Yes.
- Q. And then there's also the HVDC underground transmission within that area as well; correct?
- 19 A. (Kayser) Yes.
- Q. Okay. And then there are
 overhead/underground transition stations
 along the way where it transitions from
 overhead to underground. And those
 transition stations are really a separate

```
65
         major construction item; correct?
1
2
    Α.
         (Kayser) Yes.
         Certainly the converter station in Franklin
3
    Q.
         is a major construction project; correct?
4
         (Kayser) Yes.
5
    Α.
         And then we have the AC overhead lines
6
    Ο.
7
         running from Franklin down to Deerfield, and
8
         that would be really a separate construction
9
         segment; correct?
         (Kayser) Yes.
10
    Α.
         Okay. And then there's also the relocation
11
    0.
         of existing 115 kV lines that occur in
12
         several places throughout the route; correct?
13
14
         (Kayser) Hmm-hmm. Yes.
    Α.
                                   Right.
         And then the seventh item would be various
15
    Q.
16
         modifications to substations along the way;
17
         correct?
18
        (Kayser) Yes.
    Α.
19
    Q.
         So these seven major construction activities
20
         really constitute the seven, if you will,
21
         construction activities or construction
22
         projects that make up this overall project;
23
         is that fair to say?
         (Kayser) Yes.
24
    Α.
```

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- 1 A. (Johnson) I would just clarify that No. 6,
- which is the relocation of the 115 line, is
- 3 really in tandem with the installation of the
- 4 other. So, whether you call it discretely
- separately, it'll occur at the same time as
- 6 the DC or the 345 line is built.
- 7 Q. Okay. Now, I understand it's anticipated to
- 8 take about two and a half years, start to
- 9 finish, for this transmission line?
- 10 A. (Kayser) Yeah, I think in general it's around
- 11 that time frame.
- 12 Q. Okay. And you plan on working on multiple
- 13 construction activities at the same time, I
- 14 assume?
- 15 A. (Kayser) Yes, in order to finish the Project
- 16 there will be multiple sites throughout the
- 17 state.
- 18 Q. Okay. The Franklin converter station itself
- 19 will take about two years?
- 20 A. (Kayser) Yeah, I believe that's in the
- 21 ballpark of what we think that's going to
- take.
- 23 Q. So you're likely to start there early.
- 24 A. (Kayser) Yes.

- A. (Johnson) That's the first or one of the first places.
- 3 A. (Kayser) Yeah, they'll start site
 4 development.
- Q. And relocating the existing 115 line I assume is an early activity?
- A. (Kayser) It would be coordinated with the -
 as they develop their schedule, they would

 coordinate that with the construction because

 you don't necessarily want to mobilize in the

 same right-of-way. You know, they'd just

 make sure they're ahead of their construction

 there to relocate those lines.
- Q. Yeah. And I also assume that an early activity will be site work for the new transmission line; correct?

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- A. (Kayser) Well, by "site work," they would be working in those locations, you know, doing the clearing, and then they would come in and put their access roads, build their work pads, then foundation, come along and set the structures. So, yeah.
- Q. That's what I mean by "site work." Getting the land ready to receive towers.?

- 1 A. (Kayser) Yes. Hmm-hmm.
- 2 Q. Okay. Now, do I have it correct that you
- anticipate having somewhere between 5 and 10
- 4 crews available to work on what I described
- as sort of the site work?
- 6 A. (Kayser) I don't know if PAR has got their
- 7 exact number. But in general, yeah, you're
- going to need 5 to 10 crews to do some of
- 9 that site development work, whether it be at
- 10 Franklin, Deerfield, Scobie, or along the
- 11 right-of-way building work pads, yeah.
- 12 Q. And it's anticipated that these 5 to 10 crews
- will be working at the same time in different
- 14 locations?
- 15 A. (Kayser) Yes.
- 16 Q. All right. Now, in terms of the underground
- 17 construction, those will be separate crews
- 18 than I just described; is that correct?
- 19 A. (Kayser) Yes, there will be different
- 20 contractors and separate crews doing the
- 21 underground portion of the Project.
- 22 Q. And how many underground construction crews
- do you anticipate?
- 24 A. (Kayser) Again, I don't think they have the

- exact number, but I would assume you're in the 10 to 15 crews.
- 3 Q. Okay.
- A. (Kayser) As they further develop their
 schedule, they'll determine exactly which
 areas, and then, also in coordination with
 the DOT, on which areas they can be working
 simultaneously in.
- 9 Q. Okay. And the trenchless crews, they'll be
 10 yet a different set of crews, correct, doing
 11 the HDD drilling?
- 12 A. (Kayser) Yes, that is a separate crew.
- Q. And how many trenchless crews do you anticipate working at any one time?
- 15 A. (Kayser) I don't know if they've determined 16 the exact number on that, but --
- 17 A. (Johnson) I'm guessing five.
- 18 A. (Kayser) Yeah, I was going to say in that 5
 19 to 10 area.
- Q. All right. So it's possible that during
 construction you would have 5 to maybe 10
 trenchless crews, 10 to maybe 15 open-trench
 crews, and somewhere in the 5 to 10 range of
 crews doing what I've described as the "site

- work" -- access roads, you know, leveling
 both off site and the right-of-way access
 roads and getting the areas ready to pour
 foundations and erect towers. Is that fair
 to say?
- 6 A. (Kayser) Yes.

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- 7 (Johnson) A fair amount of those are discrete Α. 8 areas, which means that they are not in the public areas. So, for instance, any of the 9 substations, other than the abutters around 10 11 that area, anywhere along the right-of-way typically would be, again, not in the general 12 view of the public. The road activities, 13 14 certainly that would be something that would 15 be more prevalent to people in the area.
 - Q. Okay. And I assume you anticipate throughout the two and a half years there will be construction taking place in multiple locations. Maybe it'll require that.
- 20 A. (Kayser) Yes. In order to construct the
 21 Project, there will be crews all along the
 22 route.
- Q. Okay. As I understand it, these construction activities will be managed by a project

- 1 management team; is that right?
- 2 A. (Kayser) Yes. As far as the general
 3 contract, they will have a project management
- 4 team managing each portion of the
- 5 construction.
- 6 Q. And a project management team would include a
- 7 project manager, assistant project manager,
- 8 construction manager, probably an
- 9 environmental manager and perhaps a community
- 10 relations manager?
- 11 A. (Kayser) Yeah, typically. Yeah.
- 12 A. (Johnson) And that would include safety and
- project controls, managing the money, et
- 14 cetera, and the schedule.
- 15 Q. And will there be separate project management
- 16 teams for separate construction sites, or one
- general one and then spread out?
- 18 A. (Johnson) So right now it's anticipated that
- there is one general overseeing all, so
- there's common document control, invoicing,
- that kind of thing across the system. There
- then would be a overall overhead, an overall
- underground and an overall station set of
- 24 management. And then subject -- and then

- further to that, specific for stations, there
 would be a Franklin person, a Deerfield and
 Scobie person, and then a transition station
- 4 person. So there are subsets of each, but
- 5 several layers of management.
- Q. So it essentially sounds like six layersunder that overall layer.
- 8 A. (Johnson) Yes.
- 9 Q. Okay. And within this layer, you mentioned earlier the construction field inspectors?
- 11 A. (Johnson) Yeah. So PAR will have its on 12 construction field inspectors, and then the
- owner will have independent field inspectors.
- Q. And who will oversee the independent field inspectors?
- 16 A. (Johnson) Mr. Jerry Fortier will be the direct report of those.
- 18 Q. And how about environmental inspectors?
- 19 A. (Johnson) Same. PAR Electric will have its
- own, as will ABB. However, there will be an
- owner tier, if you will, that will report
- directly to Mr. Fortier.
- 23 Q. And would the same be for a safety
- 24 specialist?

1 A. (Johnson) Yes.

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- Q. Do you know how many construction field inspectors, independent ones, are expected?
 - A. (Johnson) Depends on the time of the schedule and how much activity is going on. In the early year, we're anticipating very few because we believe there will be very limited activities. As the Project ramps up through 2019 and into '20, that number will grow.

 The exact number is really dependent. But it could be 10 to 20 of each, depending on the
- 13 Q. Do you anticipate an independent field

 14 inspector and environmental inspector for

 15 each construction site because you'll have

 16 multiple sites throughout the 192-mile route?
- 17 A. (Johnson) Not necessarily, no.
- 18 Q. So, some may cover more than one site.

number of activities around.

A. (Johnson) Yeah. And if you think about the way the Project's going, just from a regional perspective and a geographical perspective, there will most likely be a group in the north, a group in the central and a group in the south, again, yet to be determined. But

- that makes the most sense. You wouldn't want somebody in Deerfield checking on something in Bethlehem. It's just too far away.
- 4 Q. And would the overhead inspectors be separate
 5 from the underground inspectors?
- A. (Johnson) Typically, yes. It's a slightly different skill set. But some people have the capacity to do both.
- 9 Q. Okay. And how about the environmental
 10 inspectors? Would they be the same for
 11 underground and overhead?
- 12 A. (Johnson) Yes. Typically there's not a
 13 difference there.
- Q. So if one of the field inspectors, say an independent field inspector, sees something that is not consistent with the plans or specifications, who do they report that to?
- 18 A. (Johnson) So if they're on site, they report
 19 that to the general foreman, who will then --
- 20 O. The on-site foreman?
- 21 A. (Johnson) The on-site foreman, yeah. At the
 22 same time, at the end of the day they would
 23 report back to Jerry Fortier, who would then
 24 figure out what kind of action to take.

- Q. Okay. And would it be Mr. Fortier who has the authority to take whatever action is necessary?
- A. (Johnson) If the action is egregious enough
 that it needs work stoppage, that field
 inspector could stop the work immediately at
 that time. But yes, Mr. Fortier has the
 overall authority to stop the work.
- 9 Q. And the discretion to stop the work10 immediately is with the field inspector?
- 11 A. (Johnson) If it's egregious, yes.
- Q. And what would constitute "egregious"? Can you give an sample of "egregious"?
- 14 A. (Johnson) Yeah, please.

22

23

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15 (Bowes) So I would break it up into several Α. 16 segments. The first would be safety. If we 17 see something that's life-threatening, failure to wear proper PPE, failure to 18 19 observe DOT restrictions or regulations, that 20 would be the first one, or OSHA regulations, 21 obviously.

The second area would be environmental.

If there's an uncontained release, oil from a piece of machinery that they're not

addressing, if there's issue with an HDD that they're not addressing, they clearly have the right to stop that job.

On the community relations side, if we get into a situation where there's interactions with a customer that are not acceptable, we would stop the job in that case, too, and stand down the work crews.

Those are three examples I can think of that kind of cover a broad range of topics. There are probably dozens of others as well.

- Q. And within the PAR contract, do these independent field inspectors and environmental inspectors recognize this ability to stop work?
- A. (Bowes) So it's actually -- I think maybe
 you're confused. It's not under the PAR
 contract. They obviously have their own
 inspection. But this is the independent
 construction inspectors --
- 21 Q. Right.

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- 22 A. (Bowes) -- from either NPT or from Burns & McDonnell.
 - Q. But I assume the contract with PAR would

- recognize the right of NPT's inspectors to stop the work.
- 3 A. (Bowes) That is correct.
- Q. I take it that the field inspectors and the
 environmental inspectors will be covering, by
 my count, somewhere around 25 to 35
 construction sites, depending on whether you
 have 5 to 10 overhead, 10 to 15 underground
 open trench, and 5 to 10 underground trench.
 So it would be in that range.
- 11 A. (Johnson) Give or take.
- 12 A. (Kayser) Yes.

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- Q. Is there an expectation of how often field inspectors and environmental inspectors will visit each site?
 - A. (Johnson) For the major construction site such as Franklin and/or Deerfield, where there's permanent activity, if you will, there would be a designated person. So there will be somebody there at all times. When you get out to an access road, tree-clearing crews, they may be staggered a couple miles apart. So it's very easy for somebody to traverse up and down and touch multiple

- crews. But typically you like to see a construction area daily, or every other day at a maximum. You don't want to spread it out. You want to touch each of those crews as much as possible.
- Q. So the expectation is to touch each
 construction site at least daily or every
 other day?
- 9 A. (Johnson) From the independent inspectors,

 10 yes. PAR obviously has to have their own,

 11 and those will be mandated daily.
- Q. Where will these independent inspectors be located?
- A. (Johnson) Again, our thought process is geographically. So, north, central, south.
- Q. So, there will be offices north, central, south?
- A. (Johnson) Yes. Currently the Project has an office in North Umberland, so they could be staged out of the north there. I think the center part of the state we do not. In the south, obviously, in Manchester.
- Q. And in terms of the community relations
 managers, do you have a sense of how many you

anticipate having?

- A. (Johnson) We do not at this point. Part of it depends on where we are and the type of construction we're doing. Right now our focus is on the underground because we believe that will be the most impactful. But certainly we're not losing sight of the amount of work that needs to be done on the overhead and the stations themselves. My thought, again, is north, central, south type of management system where overall -- this is just the independent -- with overall management here in Manchester.
 - Q. And would these community relations managers be responsible for interacting with residents and businesses and town officials and first responders, essentially everybody who needs to be contacted?
- A. (Johnson) So they will be responsible for it.

 There will be a sub tier, if you will, doing
 the actual door knocking and informing
 residents on a, you know, daily basis or
 weekly basis when construction activities are
 there, or doing the preconstruction outreach

- prior to construction activities being in their neighborhood.
- Q. Okay. So it's your anticipation that with any one of these 20 or 25 crews working in different areas, a public relations person will be on the ground in those areas contacting whether it's residents or businesses or town officials or first responders?
- (Johnson) So as I stated earlier, there could 10 Α. 11 be two or three of those crews within a mile of each other, and you can have one 12 individual managing that area. Typically 13 14 they are available if, as Mr. Bowes noted 15 earlier, if there are inappropriate 16 interactions between a landowner and a crew. 17 Then a community relations specialist will be 18 immediately dispatched in those cases. 19 typically, once people are aware of the types 20 of construction that is upcoming and have 21 asked their questions, usually to their 22 satisfaction, then that's usually the touch 23 that's needed or required.
 - Q. I assume they will also be needed for

- informing people about blasting activity?
- 2 A. (Johnson) Absolutely. Yes. Yes. That's a unique situation, yes.
- Q. Okay. Will the community relations managers
 be responsible for the claims process we
 heard about?
- 7 A. (Johnson) For initiating the process, yes.
- 8 Q. And by that, what do you mean?

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Q.

Okay.

(Johnson) So there is, I believe one of the Α. exhibits is a claims process that outlines the information that's required. community relations person would typically be responsible for making sure that information is collected correctly. It would then be submitted to the higher project management team for -- well, I shouldn't say that. there are certain things that are very cut and dry and very obvious, then the manager can make the decisions then. If there's something monetarily involved or is of a higher escalation, if you will, it will be brought back to the management team, and ultimately Mr. Fortier would make a decision.

the Eversource system, so it's not a form

The form itself is standard across

23

- 1 that's unique other than the title.
- Q. Perhaps tweaked a bit for New Hampshire,though.
- 4 A. (Johnson) Yes, it was. No question.
- Q. So, just to wrap up my last question on claims, does this claims process only involve property damage, or does it include, for instance, loss of business for businesses?
- 9 A. (Johnson) It includes both.
- Q. Okay. And so they'll be project -- I mean
 community relations managers throughout the
 construction period that will be the
 frontline folks for the claims process. And
 after construction is done, anybody who has a
 claim would then just contact Eversource
 directly.
- 17 A. (Johnson) That's correct.
- MR. PAPPAS: I think this
 would be a good time to break.
- MR. IACOPINO: Before we
 break, that claim process form you're talking
 about is Counsel for the Public Exhibit 41.
- 23 CHAIRMAN HONIGBERG: All
- right. We're going to take our break and

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84
         come back as close to quarter to eleven as we
1
2
         can.
                (Brief recess taken at 10:33 a.m., and
3
               the hearing resumed at 10:47 a.m.)
4
                         CHAIRMAN HONIGBERG:
5
                                               Mr.
6
         Pappas, you may proceed.
7
                         MR. PAPPAS:
                                      Thank you.
8
    BY MR. PAPPAS:
         Mr. Bradstreet, let me ask you some questions
9
         about the design of the overhead segments.
10
11
              So, in the northern section, the
         transmission line will run through
12
         approximately 80 miles from Pittsburg down to
13
14
         Bethlehem; is that right?
15
        (Bradstreet) Sounds about right, yeah.
    Α.
16
         And within that 80 miles there are 32 miles
    Q.
17
         of new right-of-way; correct?
         (Bradstreet) Yes.
18
    Α.
19
    Q.
         And we heard earlier this morning, 24 miles
20
         through the Wagner Forest?
21
    Α.
         (Bradstreet) Sounds right, yes.
22
         And through the Wagner Forest it's a 120-foot
    0.
23
         right-of-way?
         (Bradstreet) That's correct.
24
    Α.
```

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- 1 Q. And then from Dummer to Bethlehem, the
- 2 transmission line is in an existing
- 3 right-of-way leased from PSNH; correct?
- 4 A. (Bradstreet) Correct.
- 5 Q. And within that existing right-of-way, it
- shares the right-of-way with either one or
- 7 two existing lines, typically.
- 8 A. (Bradstreet) Typically. There's a few areas
- 9 where there might be a little more,
- 10 specifically around the Whitefield
- 11 Substation, but...
- 12 Q. Okay. Now, the transmission line is
- 13 constructed using either lattice towers or
- monopole towers, by and large; correct?
- 15 A. (Bradstreet) For the Northern Pass line, yes.
- 16 Q. Right. And each lattice tower is set on four
- 17 footings; is that right?
- 18 A. (Bradstreet) That's correct.
- 19 Q. And the footings themselves will either have
- 20 a caisson concrete foundation or a grillage,
- 21 basically steel foundation; correct?
- 22 A. (Bradstreet) Currently that's the thought,
- yes.
- 24 Q. And the monopole themselves have one

- foundation; correct?
- 2 A. (Bradstreet) That's right.
- Q. And that also is either a concrete foundation
- or there's some direct embedded into the
- 5 ground; correct?
- 6 A. (Bradstreet) For the Northern Pass line,
- 7 direct embed is not going to be typical. It
- 8 would be very rare if we did a direct embed
- 9 for the Northern Pass line just due to the
- size of the conductors it's holding.
- 11 Q. Within that northern section, do I understand
- that there are 280 lattice towers and 9
- monopoles? Does that sound right to you?
- 14 (Witness reviews document.)
- 15 A. (Bradstreet) Yeah, I think that's... I don't
- 16 believe that's correct. I think there's a
- 17 few more monopoles than --
- 18 Q. That was in your Application. So tell me
- 19 what the change has been since.
- 20 (Witness reviews document.)
- 21 A. (Bradstreet) I guess I'd have to
- double-check.
- 23 A. (Bowes) Do you have a reference in the
- 24 Application itself?

```
87
1
    Q.
         I did not write that down.
2
    Α.
         (Bowes) Because we're looking at the data
3
         request.
         (Bradstreet) SEC 1-014.
4
    Α.
         And what does that indicate?
5
    Q.
         (Bowes) By town, the number of --
6
    Α.
7
         (Bradstreet) It's by town, so it's not
    Α.
8
         necessarily broken apart in the same
         segments. But from Pittsburg to I guess
9
10
         Dummer, not including Dummer, we have one in
11
         Pittsburg, 11 in Clarksville, 14 in
         Stewartstown, 1 in Dixville and 2 in
12
         Millsville. So...
13
14
         All right. So, predominantly lattice towers
    Q.
15
         and anywhere from 10 to maybe 15 monopoles.
16
         (Bradstreet) I would say more like 30
    Α.
17
         monopoles.
18
         Okay. But --
    Q.
19
    Α.
         (Bradstreet) Yeah, it's predominantly a
         lattice line.
20
21
    Q.
         Yeah. At least 250 lattice towers.
22
         (Bradstreet) Yes.
    Α.
23
         Now, they vary in height anywhere from
    Q.
24
         roughly 120-foot in this northern section?
```

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- 1 (Bradstreet) That sounds in the range, but Α. I'd have to double-check it. 2
- Okay. Now, as I understand it, there are
- several things that dictate the height of the 4
- towers; is that right? 5
- (Bradstreet) There's many factors. 6 Α.
- 7 Yeah. One of them is because it's a Q.
- 345,000-volt conductor, it has to be a 8
- certain height off the ground? 9
- (Bradstreet) Well, in the northern section 10 Α.
- 11 it's 320 kV DC line.
- 12 Yeah. Q.

3

Q.

- (Bradstreet) But yes, the voltage that the 13 Α.
- line operates does dictate or drive the 14
- 15 overall clearance requirements.
- 16 And is there another requirement to be so Q.
- 17 much distance from an existing 115 kV line or
- another line in the right-of-way? 18
- (Bradstreet) That is correct. 19 Α.
- 20 And the distance between two tower structures
- 21 might also dictate the height of those
- 22 structures in order to have the line a
- 23 certain height off the ground?
- (Bradstreet) Yeah. So the spacing between 24 Α.

- circuit structures will drive or control some
 of the heights, yes.
- Q. So, for instance, if two towers were closer together, the line -- the towers could be smaller or shorter because the line could be tighter between them; correct?
- 7 A. (Bradstreet) Given the same specific terrain 8 case, that would be correct.
- 9 Q. Okay. And if the Northern Pass line didn't
 10 share the right-of-way with some other lines,
 11 towers could be shorter as well; correct?
- 12 A. (Bradstreet) In some areas. In some areas
 13 not.

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24

Q. What's on the screen, and you folks have nice big screens now I notice, is Counsel for the Public's Exhibit 221. And what these are, are some sheets from documents you've produced that show various towers. And I'm going to go through and talk about some of the different tower configurations along the line. So if you start up north, your sheets indicate, for instance, Segment N1-1 is up in the north. "N" stands for north; correct?

(Bradstreet) Yeah, we broke it into multiple

1 segments.

20

- Q. Okay. So here we see on the N1-1 is a lattice tower; correct?
- 4 A. (Bradstreet) That is correct.
- Q. Could you give us a sense of the size of the footprint for the foundation, the poured concrete foundation for this lattice tower?
- 8 A. (Bradstreet) So what's shown on this current
 9 drawing, I believe we assumed a 30-foot
 10 spacing between foundations. So there would
 11 be a square, if you will, of the footprint
 12 where foundations are separated by 30 feet in
 13 each direction.
- 14 Q. And how big are the foundations themselves?
- 15 A. (Bradstreet) So the Project has not completed
 16 all the geotechnical information acquisition
 17 in order to complete the foundation design.
 18 But for the structure type, the Project has
- estimated that the foundations will be
- Q. Okay. And how about the spread of the arm
 near the top? What are the dimensions of
 that, a typical spread for a lattice tower?

approximately 4 feet in diameter.

24 A. (Bradstreet) I would -- this is going to be

- off of memory, but I think, if I remember right, it's probably in the range of 30 feet from the center. So the overall spread of that arm would be approximately 60 feet.
- Q. And how about the V-shaped isolators? What are the dimensions of those?
- 7 A. (Bradstreet) Just the length dimension?
- 8 Q. Yes.
- (Bradstreet) Again, going off of memory, I 9 Α. think they're approximately... they're 10 11 probably approximately 12 to 13 feet for just the insulators themselves. And then as you 12 can see in the detail, there's something that 13 looks like it gets a little skinnier 14 15 towards -- that's just an extension strap. 16 So the insulators themselves are probably 17 13 feet long, and that extension strap might be another 4 or 5 feet. 18
- Q. And looking over on the right indicates a monopole. Do you see that?
- 21 A. (Bradstreet) Yes.
- Q. So what is the size of the foundation, the single foundation for a monopole, typically?
- 24 A. (Bradstreet) So, again with the same

- clarification, we've estimated it to be around 8 to 9 feet.
- Q. Okay. And how about the dimension of the arm on the monopole?
- A. (Bradstreet) So the dimension of the top of
 the structures themselves is not
 significantly different. It might be a
 little bit narrower, but it would be
 approximately 60 feet also.
- 10 Q. And how about the length of the isolator
 11 strings? Would that be similar?
- 12 A. (Bradstreet) It would be the same assembly,
 13 yes. The only thing, I guess to carry out,
 14 the only thing it might change is the
 15 extension strap length just to -- the
 16 attachments for the two structures are

slightly different.

17

18

19

20

21

22

23

24

Q. All right. So would I be correct in saying that for the northern section, and particularly the new right-of-way, there would either be segment N-1 which -- and predominantly in 1-1, which is the lattice tower -- or for those 15 or 20 or 25 monopoles, it would be N1-1T?

So...

- 1 A. (Bradstreet) That is correct.
- Q. Okay. Now, when the Northern Pass
- 3 transmission line gets to Dummer, it begins
- 4 to share the right-of-way with the Coos Loop;
- 5 is that right?
- 6 A. (Bradstreet) That is correct.
- 7 Q. So if you -- so on the next page we start to
- 8 see segments N2-1 and N2-2 and N2-3. Do you
- 9 see that?
- 10 A. (Bradstreet) Yes, I do.
- 11 Q. So, looking first at N2-1, that indicates an
- existing 115 kV line. Do you see that?
- 13 A. (Bradstreet) Yes.
- 14 Q. And would that be the existing 115 line in
- 15 the Coos Loop?
- 16 A. (Bradstreet) That is correct.
- 17 Q. So this will show moving that existing line
- 18 to the right and stacking it on a monopole.
- 19 Do you see that?
- 20 A. (Bradstreet) Yes.
- 21 Q. Okay. And then it shows the new 320 line,
- 22 the Northern Pass line on the left. And you
- sort of see two arms. Do you see that?
- 24 A. (Bradstreet) Yes.

- Q. So you could tell me what the difference is between N2-1 and N2-2 and N2-3?
- A. (Bradstreet) As far as what's shown on these
 drawings, I don't believe there's any
 difference. The difference for the Project
- is the location of the pipeline shifts
 between these various segments.
- Q. Okay. So on the next page of Exhibit 221 we see on the right N2-4. Do you see that?
- 10 A. (Bradstreet) Yes, I do.
- 11 Q. And that would be, again, probably within the
- 12 Coos Loop. But it's showing installation of
- a lattice tower for the Northern Pass as
- opposed to the monopole we saw before; is
- 15 that right?
- 16 A. (Bradstreet) That is correct.
- 17 Q. Okay. Now, if you look at -- take a look at
- 18 N2-3. Do you see where it indicates the
- monopole for the Northern Pass?
- 20 A. (Bradstreet) Yes.
- 21 Q. Okay. And this is N2-5, which is essentially
- the same configuration. Is the difference
- again the location of the gas pipeline?
- 24 A. (Bradstreet) Well, I believe the difference

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[SCOTT|FARRINGTON|JOHNSON|BOWES|BRADSTREET|KAYSER]
                                                         95
1
         between N2-3 and N2-5 is we went to the
2
         lattice configuration, and that's being
         driven by the location of the pipeline.
3
         No. Well --
4
    0.
         (Bradstreet) So N2-4 shows a lattice --
5
    Α.
         Right. I was looking at N2-3 and N2-5, which
6
    Q.
7
         to me look identical.
8
    Α.
         (Bradstreet) They are.
9
         So what's on your screen now is Sheet 49.
    Q.
10
         And this shows, if you look on the right,
11
         N2-7, a different configuration than we saw
12
         before. Do you see that?
         (Bradstreet) Yes.
13
    Α.
         Okay. And this configuration shows
14
    Q.
15
         relocating both a distribution -- shows the
16
         distribution line relocation. Do you see
17
         that?
        (Bradstreet) Yes.
18
    Α.
19
    Q.
         Okay. And then it shows the relocation --
20
         and as well as a relocated 115 kV line; is
21
         that right?
22
         (Bradstreet) Yes, sir.
    Α.
23
         And are both of those then put on a monopole
    Q.
```

that has arms on both sides?

- A. (Bradstreet) So, yes, in this view, the right side of that structure is a relocated 115 and the left side is one of the relocated distribution lines.
- Q. Okay. So this would be a segment of the line
 where you have a distribution line and 115
 kV, and you relocate both of those onto one
 structure in order to make room for the
 Northern Pass?
- 10 A. (Bradstreet) In order to make room for the
 11 Northern Pass to be constructed in a
 12 horizontal configuration, yes.
- Q. Okay. And the difference between N2-7 and N2-7T is whether it's a lattice tower or a monopole for the Northern Pass?
- 16 A. (Bradstreet) Correct.
- Q. If you look at N2-9, this is yet a different configuration than we've seen. It shows relocating a distribution -- one distribution line as opposed to two. Do you see that?
- 21 A. (Bradstreet) Yeah, there's only one existing
 22 distribution line in that corridor.
- Q. Yeah. And so that's simply moved over to the right. And then the existing 115 kV is also

lay this foundation. I'm almost done with

1 this.

- 2 BY MR. PAPPAS:
- 3 Q. So, Mr. Bradstreet, when you switch then to
- 4 the central part, the designation becomes C;
- 5 correct?
- 6 A. (Bradstreet) Yeah. So we broke it into
- 7 northern --
- 8 Q. Central --
- 9 A. (Bradstreet) -- two sections; central, two
- sections; and southern, one section.
- 11 Q. And would I be correct in saying that in
- various parts of this, whether there's an
- 13 existing transmission line or two existing
- 14 transmission lines, or an existing
- distribution line or two existing
- 16 transmission -- distribution lines, that has
- an effect on how high you have to make the
- 18 towers; correct?
- 19 A. (Bradstreet) That, combined with the
- available right-of-way, yes.
- 21 Q. Right. So, to the extent you're using a
- section that already has two or three, or in
- some places four existing lines that requires
- essentially to make the towers higher;

correct?

- A. (Bradstreet) I mean, I guess I would say the
 Project has approached that issue in a manner
 to try to relocate structures to effectively
 reduce the required height of the Northern
 Pass line.
- Q. But because of those existing structures,
 whenever you come to a place where you have
 multiple existing structures, you're required
 to make the tower higher because of those
 existing structures; correct?
 - A. (Bradstreet) If the clearances are such that they don't meet the requirements of the clearance of a shorter structure, we would go higher, yes. But I would not say that that is in all cases.
 - A. (Bowes) I would frame it as we required

 Northern Pass to relocate the distribution

 and transmission facilities at their cost, to

 the benefit of PSNH, if they were going to be

 co-located with PSNH existing facilities.
 - Q. Let me ask it another way. If the right-of-way didn't have so many existing either transmission lines or distribution

100 1 lines, the towers for Northern Pass could be 2 lower; correct? (Bradstreet) Not in all cases. 3 Α. 4 But in most cases; correct? Q. (Bradstreet) Not in most cases. 5 Α. So you're telling me, in most cases, if 6 Q. 7 there's nothing else in that right-of-way, 8 the tower height would still be the same as 9 they are now? (Bradstreet) Yes. 10 Α. And that's because why? Because they have to 11 Q. be so high off the ground? 12 (Bradstreet) So the majority of the Northern 13 Α. 14 Pass line is proposed to be a horizontal 15 configuration. There's a few areas where 16 we're proposing a vertical configuration. 17 But in general, it's mostly horizontal, which is the shortest configuration possible. 18 And the existence of the other lines has no 19 Q. 20 impact on how high those towers are? 21 Α. (Bradstreet) Assuming they're out of the way, 22 that is correct, which is the case. 23 But don't you have to be a certain distance Q.

from them?

- 1 A. (Bradstreet) Horizontal distance is different 2 from vertical distance. Yes.
 - Q. But when you move -- okay. All right.

Do you know how many locations you are required to increase the tower heights because of existing infrastructure within the right-of-way?

- A. (Bradstreet) I don't have a count available, but I think we could put one together fairly quickly. For the areas you just walked us through, the pipeline and the existing line that's in the corridor between North

 Umberland and Dummer is the only area proposing a vertical structure configuration for the DC line, and that's being driven by available right-of-way.
 - A. (Bowes) So there was a segment where you had both the 115 rebuilt, which was vertical, and Northern Pass which was vertical in the same right-of-way with the pipeline. That's that area where both had to be vertical, which would drive the structure heights of both the 115 and the 320 higher.
 - A. (Bradstreet) And then all the other areas,

102 clearances are what's driving heights. 1 2 0. And it's clearances from the ground. (Bradstreet) Correct. I mean, ground, roads, 3 Α. anything that would drive clearance. 4 5 yes. And how about the clearance from how close 6 Q. 7 you are to a 115 kV line or a distribution line? 8 (Bradstreet) I guess can you clarify? 9 Α. 10 Is there a -- do you have to be so far 0. Sure. 11 away horizontally from another line? 12 (Bradstreet) Yes, we do. But that doesn't Α. necessarily impact height. 13 Is there a requirement to be so far 14 Q. 15 vertically from another line? 16 (Bradstreet) If we cross that line, yes. Α. Ιf 17 we're adjacent to it, generally the horizontal clearance is going to drive the 18 19 design.

- 20 But if you don't have sufficient horizontal 0. 21 clearance, can you make that up by vertical 22 clearance?
- 23 (Bradstreet) I guess we could, but we're not. Α.
- Nowhere in this line? 24 Q.

- (Bradstreet) No. 1 Α.
- 2 0. Okay.

18

19

20

- (Bradstreet) In that case, the structure 3 Α. would be towering over the adjacent structure 4 in order to maintain that clearance. 5
- So what you're saying is, other than those 6 Q. 7 areas where the co-location exists, this line has to be -- its height is off the ground 8 because -- the towers have to be their height 9 10 because you have to be so high off the 11 ground, essentially.
- 12 (Bradstreet) Essentially, yes. Α.
- And essentially by how close the towers are 13 Q. 14 to each other. So, for instance, if they 15 were closer, you could be lower. But the 16 current -- the distance between two towers 17 then dictates how high up it has to be.
 - (Bradstreet) If structures on the same Α. circuit were closer, it would generally reduce tower heights, but it would also impact other things on the project.
- 22 And we saw where you had the V isolators. 23 There are also something known as "I 24 isolators"; correct? They aren't a V but an

104 I? 1 (Bradstreet) Correct. Some of the exhibits 2 you were showing earlier, the 115 kV line, we 3 reference them as an "I string" versus a "V 4 string," and the 115 kV insulators are I 5 strings. 6 7 And the Northern Pass line uses the V string; 0. 8 correct? (Bradstreet) That is correct. 9 Α. 10 If it used the I string, that could lower 0. 11 tower heights a bit; could it not? 12 (Bradstreet) No. Α. Why not? 13 Q. 14 (Bradstreet) Because you have the same Α. 15 vertical distance requirements that no longer 16 make a triangle; it hangs straight down. (Bowes) So one of the other benefits of using 17 Α. the V string, it constrains the conductors at 18 each location and allows the right-of-way 19 20 clearing to be 20 to 30 feet less; so instead 21 of 150-foot corridor where the new line would 22 be, it's now down to 120-foot corridor 23 because of that design change.

24

Q.

Now, as I understand it, Mr. Bradstreet, for

- the AC portion, you used existing Eversource design criteria; is that correct?
- 3 A. (Bradstreet) For the 345 and the 115, that is correct.
- Q. Right. You weren't hired to study the existing Eversource criteria; correct?
- 7 A. (Bradstreet) We were not tasked with doing 8 that.
- 9 Q. And you weren't tasked to see whether or not
 10 that existing Eversource criteria could be
 11 changed or improved; right? That wasn't part
 12 of your job?
- 13 A. (Bradstreet) I mean, I guess the standards
 14 that were applied were based off of the
 15 Eversource requirements, and we were
 16 contracted to use those requirements.
- Q. All right. You didn't look at using what's known as "ACC conductors" to see if they would lower the tower heights, did you?
- 20 A. (Bradstreet) We have not, no.
- Q. Okay. And do you -- am I correct that ACC conductors have a lower sag than the conductors used on the Northern Pass Project?
- 24 A. (Bradstreet) There's a lot of variables, so I

```
106
1
         can't say that in all cases.
                                        But ACC
2
         conductors are known as -- they're high
3
         temperature/low sag conductors. So for a
         high temperature operation, typically they
4
5
         have less sag than an equivalent other
         conductor.
6
7
         (Bowes) So, to add to that, Eversource uses a
    Α.
8
         design criteria for 140-degree C rise, and
9
         the high temperature operates at about 200
10
         degrees C.
11
         (Bradstreet) But for an ice condition, that
    Α.
         might not be the case, so that performs
12
         better.
13
14
         Now, Eversource standard design criteria
    Q.
15
         calls for untreated conductors; is that
16
         right?
17
    Α.
         (Bradstreet) If you mean specular or non-
18
         specular --
19
    Q.
         Correct.
20
        (Bradstreet) Yes.
    Α.
21
         And non-specular conductors are treated to
    Q.
22
         reduce the reflectivity; is that right?
23
         (Bradstreet) They're treated to reduce the
24
         reflectivity at installation. Over time the
```

```
107
1
         non-treated conductors have a similar
 2
         appearance.
         The treated conductors essentially dull the
 3
    Q.
         conductors, so you don't see it as clearly as
 4
         the untreated ones; correct?
5
         (Bradstreet) It reduces the reflectivity.
 6
    Α.
 7
         Yeah. Now, the Eversource design criteria
    0.
         has sort of minimum spacing or clearance
8
         requirements, doesn't it?
9
10
         (Bradstreet) Between structures of different
    Α.
11
         circuits or --
12
         Right.
    Q.
         (Bradstreet) Yes.
13
    Α.
         Okay. And for the 115 kV lines -- strike
14
    Q.
15
         that.
16
              For the 345 kV lines, the
17
         conductor-to-tower clearance is about
         26 feet. Is that your recollection?
18
         (Bradstreet) I believe it's 26 feet from
19
    Α.
20
         phase to phase.
21
    Q.
         Okay.
22
    A.
         (Bradstreet) So all three phases are
23
         basically separated by 26 feet each.
         And what is it for a monopole?
24
    Q.
```

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[SCOTT|FARRINGTON|JOHNSON|BOWES|BRADSTREET|KAYSER]

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108
         (Bradstreet) The same.
1
    Α.
         The same 26 feet?
2
    Q.
         (Bradstreet) Between phases?
3
    Α.
4
    Q.
         No.
         (Bradstreet) It's not 26 feet to the
5
    Α.
         structure, I guess. I don't know if that was
6
7
         your direct question or not.
8
    Q.
         That is my question.
         (Bradstreet) So the clearance to the
9
    Α.
10
         structure is based off of a wind case.
                                                   I
         don't have that number in front of me.
11
                                                   But
         it's not 26 feet.
12
         It's less?
13
    Q.
14
         (Bradstreet) Yes.
    Α.
15
         My point is that it's less for a monopole
    Q.
16
         than it is for a lattice tower; correct?
         (Bradstreet) I don't believe they have -- at
17
    Α.
         345, I don't believe there's distinction
18
         between lattice or tubular. The clearance
19
20
         that's driving everything is a energized
21
         conductor to a grounded object. So it would
22
         be the same.
23
         How about for the 320?
         (Bradstreet) Same. Generally, clearance to
24
    Α.
```

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- the structure is driven by voltage to ground or climbing space requirements for somebody
- 3 to work on the line. So, an OSHA code.
- Q. Is there a minimum spacing between tower center lines of parallel lines?
- 6 A. (Bradstreet) Yes.
- 7 O. What's that?
- 8 A. (Bradstreet) Depends on the voltage and the 9 span lengths and all variables.
- 10 Q. Is it different for lattice as opposed to monopole?
- 12 A. (Bradstreet) For this project in general, I

 13 don't believe it is.
- Q. Okay. For the cost of monopoles and the cost
 of lattice towers, for all costs otherwise
 sort of known all in, is it about the same
 cost?
- 18 A. (Bradstreet) For lattice versus monopole?
- 19 Q. Yes.
- 20 A. (Bradstreet) Again, it depends on a lot of
 21 variables. But in general what we've seen is
 22 lattice is somewhat cheaper than monopole.
 23 Like for a standard tangent case, we'll take
- 24 that as an example, tangent lattice versus

- tangent monopole could be fairly similar in 1 2 price, depending on subsurface conditions. A lattice dead end, which is a large angle --3 so, a turning structure is what some people 4 5 call them -- the lattice dead end is going to be cheaper than a monopole dead end just 6 7 because of the amount of steel you have to 8 purchase and the larger foundations associated with the monopole. 9
- 10 Q. But other than those particular situations,
 11 the cost of putting in a monopole versus the
 12 cost of putting in a lattice is roughly the
 13 same.
- 14 A. (Bradstreet) No.
- Q. Didn't you just say a minute ago the costs are roughly same?
- 17 A. (Bradstreet) I just said that the cost of
 18 lattice tangent is roughly the same as
 19 monopole tangent. The cost for dead end
 20 lattice is less than a monopole.
- Q. Yeah, leave the dead end alone. I said apart from that specific situation, just the typical lattice pole versus a monopole along this 192 route --

A. (Bradstreet) For a tangent case they're similar.

5

6

- Q. And that's the vast majority of structures on this route; is it not?
 - A. (Bradstreet) I mean, there's a substantial amount of turning structures. But it would be a higher percentage for tangents, correct.
- 8 (Bowes) Some of the secondary impacts of going with a monopole are, of course, you 9 have to have larger roads because you have to 10 11 transport larger pieces of the structure itself, and that obviously impacts the 12 environmental aspects of the Project. And 13 14 then the foundation itself, it becomes an 15 8-foot diameter, 25 to 30 feet deep, versus a 16 3- to 4-foot diameter and 8-foot-deep 17 foundations for the lattice structure. assembly as well takes -- you know, it's 18 19 different type of equipment used, 20 different-size cranes. And the monopole 21 probably erects quicker than the lattice 22 structure. So there's a labor savings for 23 I guess what I'm trying to say the monopole. is there's several variables besides just say 24

- 1 the cost of the structure.
- 2 A. (Bradstreet) I mean, some of the other
- 3 benefits of lattice is foundation. Like Ken
- said, they could be smaller if we're doing
- 5 drilled caisson type. But we also have some
- other alternatives for lattice foundations,
- such as "grillage" is what we refer to it as.
- 8 It's like an overburdened foundation where
- 9 you're burying steel to support the
- 10 structure. It gives a little more
- flexibility when the foundation is on.
- 12 (Court Reporter inquiry)
- 13 Q. So, a moment ago, or earlier you indicated
- that the foundation for a lattice tower is 4
- to 5 feet each; correct?
- 16 A. (Bradstreet) For all four, yeah. So, each
- four would be 4 to 5 feet, yes.
- 18 Q. Yeah. So we're talking 16 to 20 feet total
- over the 4; correct?
- 20 A. (Bradstreet) That would be correct.
- 21 Q. And for a monopole, you have one foundation,
- and you indicated that's 8 or 9 feet;
- 23 correct?
- 24 A. (Bradstreet) That is correct.

113 Q. Okay. 1 (Bowes) Those are the diameters, not the 2 Α. depths. 3 I understand. I understand. 4 0. 5 And so when you indicated that you need larger roads, you need larger roads within 6 7 the right-of-way for the monopole? 8 (Bowes) Correct. And that's because the monopoles themselves 9 Q. 10 are larger, the component segments of them, 11 than the individual segments of the lattice 12 tower? (Bowes) Correct. 13 Α. 14 How much larger do the roads need to be? Q. 15 (Bowes) So they'd have to withstand, you Α. 16 know, standard tractor-trailer traffic versus 17 delivery trucks. Or in the case of lattice structures, though I don't think we've 18 planned to use it, obviously helicopters for 19 20 some of the locations where we don't plan to 21 build roads at all. 22 So how much larger would the road Hmm-hmm. Q. 23 need to be? (Bowes) It would have to support a commercial 24 Α.

tractor-trailer versus, you know, off-road vehicles, both the quality of the road, as well as the width and turning radius of the road. So without a specific example, it's probably a couple feet wider. But there may be certain cases where we have to, you know, build additional turnouts or other areas where the truck can maneuver. So it factors into the crane size, as well as the amount of or the number of concrete vehicles as well. So you have to use those.

- Q. Well, the concrete vehicles I assume would be the same whether you're pouring concrete for a monopole or pouring concrete for a lattice structure.
- 16 A. (Bowes) Same vehicles, but the quantity would
 17 go up with a monopole.
- Q. Well, how's that when you've got 8- or
 9-foot -- you're saying the depth is that
 much deeper that you'd use that much more
 concrete?
- 22 A. (Bradstreet) Yes.

- 23 Q. Do you have any order of magnitude of that?
- 24 A. (Bradstreet) Approximately double is probably

1 a good estimate.

- Q. Nonetheless, you said earlier, essentially, except for those dead end ones, the overall cost all in is about the same.
- 5 A. (Bradstreet) I mean, I would skew that the
 6 lattice is still going to be cheaper. But
 7 there's a lot of variables.
 - Q. Okay. So, either Mr. Bowes or Mr. Kayser, let's talk about the construction equipment on the line that you just mentioned there.

For summary sake, what's on the screen is a response to a data request, and it requested about the types of vehicles for construction. So, rather than spending the time to walk through each type, could you just take a look at this and tell me if this page -- and when you finish this page, let me know and we're going to flip to the next page -- is a pretty good summary of the types of construction equipment used to construct the overhead sections of the transmission line.

MR. IACOPINO: For the record, what Mr. Pappas is showing to the

```
116
1
         Committee right now is CFP Exhibit 154.
2
                         MR. PAPPAS: Yeah, Page 9 and
         then Page 10.
3
         (Kayser) Yeah, the equipment shown here looks
4
    Α.
         correct for the clearing operations as
5
         stated.
6
7
         And the next page will show the transmission
    Q.
         line substation vehicles and equipment.
8
         a look at those.
9
10
                (Witness reviews document.)
11
         (Kayser) Those look correct also.
    Α.
         Okay. Now, Exhibit 219 is from the
12
         Application. And that lists the various --
13
         Page 24. That lists the various activities
14
15
         for constructing the overhead sections.
                                                    Do
16
         you see that?
17
    Α.
         (Kayser) Yes.
         Okay. So I'm going to just briefly go
18
    Q.
19
         through these with you. I'm not going to --
20
              Development of compliance plan, I think
21
         that's self-explanatory.
22
              Establishing yards for laydown areas, as
23
         I understand it, the laydown areas are
24
         expected to be between 5 and 50 acres; is
```

[SCOTT|FARRINGTON|JOHNSON|BOWES|BRADSTREET|KAYSER] 117 that right? 1 2 Α. (Kayser) Yes. And they're going to be used to store things 3 Q. such as the lattice towers and the monopoles 4 and other things until they're used. 5 (Kayser) Yes. It would be all the material 6 Α. 7 necessary to construct they would have delivered there and then take it out to the 8 site. 9 And also store equipment when it's not 10 Q. 11 needed? 12 (Kayser) Yes. Α. And also locate field offices, I assume, 13 Q. 14 could be --15 (Kayser) Yeah. Typically they're going to be Α. 16 co-located with their laydown yards for their field offices. 17 And I assume laydown areas is where workers 18 Q. could park their vehicles? 19 20 (Bowes) Yes, that is correct. Α.

(Kayser) Yeah. 21 Α.

22 During construction, there'll be a need for 0. 23 laydown areas that each of the various 24 construction sites that are ongoing can

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118 access; correct? 1 (Kayser) There'll be a number of laydown 2 areas that PAR, as the general contractor, 3 will place along there. But they could e 4 5 used by multiple contractors. Right. So, for instance, if you have 20 to 6 Q. 7 25 crews working in 20 or 25 different areas, 8 each of those crews are going to need access 9 to some laydown area in order to complete 10 their work; correct? 11 Α. (Kayser) Yes. So you're going to need laydown areas all 12 Q. along the 192-mile route; correct? 13 14 (Kayser) Yes. Α. 15 And to date, you've only identified three Q. 16 laydown areas: One in Clarksville which is 17 about 5 acres, and two in Millsfield which 18 are about an acre or an acre and a half each; 19 is that right? 20 (Johnson) That's correct. Α. 21 And there's a lot of line below Millsfield; Q. 22 correct? 23 A. (Johnson) Yes, sir.

(Kayser) Yes, there is.

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Α.

- 1 Q. And I understand PAR is responsible to locate
- and secure those laydown areas. But that
- 3 hasn't been done yet, has it?
- 4 A. (Johnson) That's correct.
- 5 Q. Would I be -- would you agree with me that
- it's likely to require up to 20 different
- 7 laydown areas?
- 8 A. (Kayser) I'm guessing probably between 10 and
- 9 20 miles between the laydown areas, based on
- 10 delivery of the underground cable.
- 11 Q. Yeah.
- 12 A. (Kayser) So, yeah.
- 13 Q. That's a pretty good estimate, then, isn't
- 14 it, about 20?
- 15 A. (Kayser) Somewhere in that ballpark, I would
- guess, between 10 and 20, yeah.
- 17 Q. Now, the location of these laydown areas can
- 18 have an impact on traffic; can they not?
- 19 There's going to be a lot of activity in and
- out of these laydown areas; right?
- 21 A. (Kayser) Yes, the equipment and taking
- 22 material out from the laydown areas.
- 23 Q. Right. There's going to be -- whether it's
- 24 construction workers going there in the

- morning or at night, whether it's materials
 going to the site, whether it's equipment
 going to the site, there's going to be a lot
 of activity at each of these laydown areas
 during the workday; is there not?
- 6 A. (Kayser) Yes.

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- 7 Yeah. So, without knowing the locations of 0. 8 the laydown areas for anywhere south of Millsfield, we can't assess right now what 9 10 the impact on traffic's going to be unless we 11 know where they're located and therefore know what the travel routes are from the laydown 12 areas to the various access points for the 13 14 right-of-way; correct?
 - A. (Kayser) Yeah. The impacts of traffic would be taken into account as we're choosing the laydown areas.
- Q. But until we know where those laydown areas
 are, you can't assess the impact on traffic
 because you don't know where the laydown
 areas are; correct?
- A. (Kayser) Yes. They would be done in conjunction. But yes, correct, you have to pick an area and then assess it.

- Q. As I understand it, PAR will also secure staging areas; is that right?
- 3 A. (Kayser) Yes.
- Q. And a staging area is a little different than laydown areas. They tend to be fairly close to the right-of-way; isn't that right?
- 7 A. (Kayser) Yeah. Either very close or in the right-of-way, yeah.
- 9 Q. Okay. And there you tend to use staging
 10 areas for such as stockpiling material like
 11 spoils until they can be hauled away?
- 12 A. (Kayser) It could be for taking the hardware
 13 to the site or, yeah, delivery of gravel to
 14 an area so that then they could go get that
 15 and take it to each individual structure.
- Q. Sure. So staging areas also will have a fair amount of activity during the construction day; correct?
- 19 A. (Kayser) Yes.
- Q. It's going to be used on a daily basis to
 either take stuff off the work area or take
 stuff from the staging area and put it on the
 work area; correct?
- 24 A. (Kayser) Yes.

- Q. And you will need staging areas up and down the 192 miles; correct?
- A. (Kayser) The staging areas will be more in the overhead, in the right-of-way for the overhead lines, but in the right-of-way, typically.
- Q. Right. There'll be a number of staging areas
 off the right-of-way; would there not?
- 9 A. (Johnson) No, I would disagree with that

 10 statement.
- Q. You think all the staging areas will be on the right-of-way?
- A. (Johnson) The vast majority will be on the right-of-way.
- 15 Q. And have those been shown on maps?
- 16 A. (Johnson) There will be the crane pad that
 17 we've shown. So all the crane pads that are
 18 ahead of the construction process will be
- used as staging areas for the equipment
- 20 that's required.
- Q. Ah, so you're going to -- so those will be the staging areas as you sort of leap frog
- 23 down the line?
- 24 A. (Johnson) That's correct. For instance, as

we just suggested, monopoles or lattice structures, those will be delivered to the main yards, if you will, and assembled or pre-assembled into smaller sections. They will then be taken out to the right-of-way and laid either on the crane pad that will be used to erect the structure, or the one next up, and then as the erection of that structure comes, they will then pick them up with the crane and install them in those locations.

- Q. And how about when you take material off of the site, such as either spoils from an excavation or when you're leveling the right-of-way for access roads, or you're clearing trees and shrubs and you need to store those until they're hauled off? Won't those be stored in staging areas?
- A. (Johnson) Again, not necessarily. It depends where you are. If you are -- typically what the contractor will do is look for somebody who wants the spoils or who can continue to recycle them, if you will, and truck them directly to either a disposal facility or

another construction site that's looking for 1 2 spoils, so there's one trip only. Clearly, whether there's evidence of contamination or 3 potential contamination, those would have to 4 be specifically stored for further testing 5 before they would be removed. But we do not 6 7 anticipate to have multiple staging of soils. Again, it's the economics of double trucking 8 versus single trucking. 9

- Q. Does not your Application indicate that spoils and trees and shrubs will be stored at times at staging areas?
- A. (Johnson) At certain times, certainly as
 mentioned, but not necessarily all the time.

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- Q. And doesn't your Application also indicate that, for instance, when you dismantle the 115 kV lines, that the dismantle equipment will be stored in staging areas for a period of time until hauled away?
 - A. (Johnson) Again, typically on site, right on the crane pad that it came from, and then a recycler would come and collect that material and take it directly to a recycling facility.
 - Q. But you also anticipate having storage areas

off the right-of-way; correct?

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- 2 A. (Johnson) Yes, absolutely. That's in our 3 Application.
 - Q. Yeah. And those storage areas will -staging areas will have a fair amount of
 traffic on a regular basis; correct?
 - (Johnson) So, traffic typically is first Α. thing in the morning or last thing at night when you're either taking material out to the site to be installed or you're bringing some material back to be stored as I mentioned, unless there's a case where you need to temporarily store some sort of soil for, as I mentioned, a potential contamination. clearly there would be no show up where the workers would come for tailboards. And these sites would be typically right on the major thoroughfares, whether it's Route 3 or Route 110 or wherever in previously disturbed areas, such as industrial parks or existing commercial operations.
 - Q. Would you agree with me that, until we know where these areas are, we can't assess the impact of the increased traffic because we

- need to know where they are and therefore
 assess the impact of traffic to where they
 are?
- (Johnson) So I would disagree with that 4 Α. statement. I believe the thoroughfares that 5 we're planning on using are already 6 supporting a logging industry and heavy 7 industrial gravel pits as we mentioned 8 earlier. There are a lot of industrial 9 applications up and down the right-of-way. 10 11 Access to and from the right-of-way is typically off of those major thoroughfares 12 for major equipment. And I don't believe 13 14 that we will be adding significant 15 differences in traffic, again, in a local 16 situation. If you're looking at adding up 17 all the trucks across the entire 192 miles, the number may be large. But if you're 18 19 looking at a specific 3- or 4-mile segment 20 from each of the potential locations, then I 21 don't believe that it's that different. 22 certainly increased, but it's not incredibly 23 increased.
 - Q. It's increased from what exists today;

correct?

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- A. (Johnson) Absolutely. It's a construction project. It's going to have increases across the board.
- (Farrington) Could I just add to that? 5 Α. can generally assess the impacts. We know --6 7 once we know where the laydown areas are, 8 we're going to work with the emergency responders and the local schools so that we 9 can plan to avoid some of the peak hours so 10 11 that the disruptions can be mitigated. don't think it's likely that we're going to 12 need any traffic signal at any of these 13 14 laydown areas, which seems a little extreme. 15 The previously disturbed areas likely already 16 have driveway permits from DOT. So, from a 17 safety standpoint, they have been evaluated for safe site distance pulling out based on 18 19 the speeds on the main road. And for those 20 areas that we are going to see larger trucks than we are used to, I think the mitigation 21 22 would be to possibly use a flagger to let 23 those large vehicles that need the larger turning radius, help them out onto the main 24

- roads in a safe manner. 1
- 2 But in order to do that assessment, you have
- to start by knowing where these areas are; 3
- correct? 4
- (Farrington) Correct. 5 Α.
- And until you know where they are, you can't 6 Q.
- 7 do the impact assessment on traffic; can you
- 8 not?
- (Farrington) We have a general sense of what 9 Α.
- 10 the implications are going to be. It will
- 11 be -- once these areas are decided, it will
- all become part of the transportation 12
- management plan and which we will identify 13
- each location and study in detail. 14
- 15 Right. But you can't do that until you Q.
- 16 identify the location; correct?
- 17 Α. (Farrington) Right.
- So, sitting here today, you can't assess the 18
- 19 impact on traffic at any one location because
- 20 you don't know where that location is; isn't
- 21 that right?
- 22 (Farrington) We can make some assumptions. Α.
- 23 But correct. Yeah.
- Mr. Bowes, has NPT or Renewable Properties 24 Q.

129 1 purchased any land for staging areas or 2 laydown areas? (Bowes) Not specifically, no. 3 Α. 4 0. Okay. (Bowes) We typically do those sort of on a 5 Α. short-term lease. The construction 6 7 contractor will do that. We do these 8 projects routinely across New Hampshire, as well as across New England, and we usually 9 10 have ample people that want to provide us 11 temporary construction laydown areas or 12 staging areas. But you haven't done a project of 192 miles 13 Q. 14 in New Hampshire, have you? 15 (Bowes) That's true. But the aggregate of Α. 16 the projects we have ongoing today is, you 17 know, certainly equal to that or larger. Not in New Hampshire. 18 Q. (Bowes) Well, I think we have 25 crews 19 Α. 20 working in New Hampshire today, so --21 Q. On brand new construction? 22 (Bowes) Yes. Α. 23 And so you add up those 25 crews and brand Q. new construction, and you think it approaches 24

130 192 miles? 1 (Bowes) Well, we have 40 distribution crews 2 that work on the roadway every day. We have 3 transmission construction going on at 4 5 multiple locations across the state. So we 6 clearly have more than the 20 or 25 that you 7 described. 8 0. But those --9 Α. (Bowes) And we use construction laydown areas today in New Hampshire. 10 11 But those are in locations different than the Q. Northern Pass Project; correct? 12 (Bowes) For the most part, yes. I mean, 13 Α. 14 there's always ongoing work at Scobie Pond, 15 but --16 Let me ask you some questions about access 17 roads. Now, as I understand it, the 18 19 right-of-way will be accessed either through 20 private roads or from public roads where they intersect the right-of-way; is that right? 21 22 (Johnson) That is correct. Α. 23 (Kayser) That's correct. Α.

Okay. And NPT's permit application to DES

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Q.

just for our edification, this is something

that was prepared by somebody other than the
Applicant?

MR. PAPPAS: Yes. This was prepared by Dewberry. It's actually within the report, but it's easier to pull up separately.

MR. IACOPINO: Thank you.

- 8 A. (Johnson) Are these your access road
 9 designations, or are they the Project's
 10 access road designations?
- 11 Q. They are -- I believe they're both, actually.
- 12 A. (Johnson) Okay.

Q. So as you can see, we've added them up, and it's a little over 67 miles. So I just want to take a moment to get some sense of what these access roads -- where they are and what they -- on the map.

So what's on your screen now is the Project's map as part of its DES Alteration of Terrain permit application. And the first page shows the Project coming into New Hampshire up in Pittsburg. And just for orientation, if you look at Halls Stream Road, do you see where it intersects the

133 right-of-way? 1 2 (Johnson) Yes. And then if you look in the red, that denotes 3 Q. proposed access to the right-of-way; correct? 4 5 (Johnson) Correct. Along the right-of-way. Α. So there's two types of access roads. 6 7 There's an on right-of-way and an off right-of-way. This is representing on 8 right-of-way. 9 Correct. 10 Q. 11 IACOPINO: This is MR. CFP 222? 12 13 MR. PAPPAS: Yes. 14 MR. IACOPINO: Thank you. BY MR. PAPPAS: 15 16 So wherever you see the right-of-way crossing 17 a public road and you see that red designation, that indicates gaining access to 18 the right-of-way from the public road; 19 20 correct? 21 Α. (Johnson) That is correct. 22 (Kayser) Yes. Α. 23 Okay. And then if you go to the next page, 24 on the next page you'll see a section of the

- right-of-way that's in Pittsburg. And if you
- look along the right-of-way, you see that
- 3 red, or those two red lines running parallel.
- 4 Do you see those?
- 5 A. (Johnson) Yes.
- 6 Q. And those indicate access within the
- 7 right-of-way; correct?
- 8 A. (Johnson) Not for the portion that's below
- 9 the red -- the right-of-way designated line.
- 10 But yes.
- 11 Q. Right. If you fall --
- 12 A. (Johnson) It dips outside, yes, in this case.
- 13 Q. Right, right. So what this is, is indicating
- essentially the roads that will be built
- within the right-of-way where that -- that
- 16 gain you access from essentially the location
- of a structure to the next structure to the
- 18 next structure; correct?
- 19 A. (Johnson) That's correct.
- 20 Q. Okay. And if you look and you see the yellow
- 21 with the little red dots, that indicates some
- temporary wetlands that have to be addressed;
- 23 correct?
- 24 A. (Johnson) That is correct.

- 1 Q. So let's go to... so if you look at the next
- page, to the right you see that red parallel
- line from the bottom of the page on the right
- 4 that's off the right-of-way going onto the
- 5 right-of-way. Do you see that?
- 6 A. (Johnson) Yup.
- 7 Q. And that would be a private access road onto
- 8 the right-of-way?
- 9 A. (Johnson) Yes, that is land that we or RPI
- owns.
- 11 Q. Okay. And if you go to the next page, what
- 12 you see is the red line off of Old Canaan
- Road and then going through land to access
- the right-of-way. Do you see that?
- 15 A. (Johnson) So that's the extension of that
- 16 before-mentioned access road down to Old
- 17 Canaan Road, yes.
- 18 Q. So that's an example of a private access road
- 19 to get to the right-of-way; correct?
- 20 A. (Johnson) Correct, on land that we own. So,
- 21 yes, it's private.
- 22 Q. Right. And that's, for instance, on that
- land where you see the double red line you
- will build an access road in order to get to

[SCOTT|FARRINGTON|JOHNSON|BOWES|BRADSTREET|KAYSER] 136 the right-of-way. 1 2 (Johnson) That's correct. And in a number of places you'll have to deal 3 Q. with wetlands in order to do that? 4 (Johnson) Yeah, the designation of the 5 Α. hashed, as we mentioned earlier, is the 6 7 wetlands. 8 Q. Okay. Now, as I understand it, the private access is either through land you own or 9 other private property which you've acquired 10 11 rights to use the property to gain access to 12 the right-of-way. (Johnson) That is correct. 13 Α. And for all of these 67 miles of access road, 14 Q. 15 you will build roads to get to the 16 right-of-way; is that right? 17 Α. (Johnson) No. Well, some of them exist? 18 Q. 19 Α. (Johnson) So the vast majority of them 20 already exist. If you go to the ones in 21 Dixville, Millsfield and Dummer, those are

22 all the existing logging roads. So, of that 23 67 miles you put forth, I would venture -again, I don't know exact numbers here, but I 24

- would say less than 10 miles of that is actual new roads.
- Q. For the existing roads, you would anticipate needing to upgrade them.
- A. (Johnson) So as I mentioned earlier today, we have done a study of the culverts along those roads, and the Project needs to improve those where we've identified them. And then typically it's the last half- to quarter-mile to get into our right-of-way is where we need to do the most improvements.
- Q. And some of those improvements would probably necessitate widening roads in some places?
- 14 A. (Johnson) Yes, yes. No question.
- Q. And some of them will require cutting trees and shrubs?
- 17 A. (Johnson) Yes.
- 18 Q. And placing gravel where necessary?
- 19 A. (Johnson) Yes.
- Q. Okay. And once you access the right-of-way
 as we saw on the maps, is a typical width of
 the road within the right-of-way 12 to
 16 feet wide?
- 24 A. (Johnson) I believe so, with a potential

- taper, depending on your elevation and how
 much you have to excavate to get up.
- Q. And some of the areas need to be a little wider for passing or turning areas?
- 5 A. (Johnson) So if you note, one of the drawings
 6 you just had up does sort of have a flare in
 7 it. In effect what that is, is to allow a
 8 truck to pull over as another truck comes
 9 through and then come down. For smaller
 10 vehicles, yes, that would allow for turning,

for larger vehicles, potentially not.

- Q. And those access roads that run along the right-of-way will require some clearing as well; correct?
- 15 A. (Johnson) In the new areas, yes.

- 16 Q. And you'll have to, I assume, grade areas to
 17 10 percent or less grade?
- 18 A. (Johnson) Approximately, yes.
- Q. Okay. And you'll have to probably in areas install some gravel?
- 21 A. (Johnson) Oh, definitely.
- Q. Yeah. And you already indicated earlier timber mats over wetlands.
- 24 A. (Johnson) Correct. That's a technique to

- 1 prevent permanent damage to a wetland.
- Q. Okay. Now, would I be correct, as of today,
- 3 the Project hasn't identified which part of
- 4 these access roads will remain permanent
- 5 improvements and which parts will be
- 6 temporary?
- 7 A. (Johnson) So, primarily these are 100 percent
- 8 temporary and will be removed and restored to
- 9 their natural grade, unless there is a
- 10 situation where a land owner would like us to
- leave the road in those areas where it's not
- RPI, but then only in an upland area. So,
- any wetland areas we would be removing that
- 14 matting so that the wetlands could be
- 15 restored to their natural --
- 16 Q. Other than the wetlands, the access roads
- 17 within the right-of-way, are those going to
- 18 remain permanent or temporary?
- 19 A. (Johnson) Those will all be temporary.
- 20 Q. So they'll all be removed once the line is
- 21 up?
- 22 A. (Johnson) That is the plan, yes.
- 23 (Pause in proceedings.)
- 24 Q. So we're back on the access road maps, and I

- just want to get a sense of some areas where there are multiple access points in a similar area. So what you have here is Whitefield.?
- 4 A. (Johnson) Yeah.
- Q. And you can see what looks like four access points off two different roads in the same general area. Do you see that?
- 8 A. (Johnson) Yeah. It's the potential for four9 access roads.
- 10 Q. Right.
- 11 A. (Johnson) So in that center intersection, if
 12 there is no construction being done, then
 13 we'd access from one side or the other, but
 14 not necessarily four.
- 15 Q. But would I be correct in saying that there
 16 are a number of places along the route where
 17 there are multiple access areas off the
 18 public roads?
- 19 A. (Johnson) Correct.
- Q. And in some areas there's only one or two access out of public roads. It varies.?
- 22 A. (Johnson) One either side, yes. This is kind
 23 of a unique case where you have two roads
 24 crossing each other right at the intersection

with the right-of-way.

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- Q. Now, where the -- you access the right-of-way from a public road. I assume you're going to need to do some work at that access point, such as whether or not you need to do some clearing and some other work in order to be able to access the right-of-way?
- 8 A. (Johnson) So there would be clearing. There
 9 would be a gravel mud trap, if you will, put
 10 down to prevent material leaving the
 11 right-of-way on the truck tires. But yes,
 12 there would be.
- Q. Yeah. So everywhere along the route where
 you access the right-of-way from a public
 road, you're going to have work at that
 access point to allow all of the heavy trucks
 to access the right-of-way; correct?
- 18 A. (Johnson) Correct.
- Q. And are all of those access points intended to be temporary, or are some of them permanent?
- 22 A. (Johnson) Temporary.
- Q. So you're going to do the necessary clearing, do any grading, put in gravel and do whatever

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         is necessary to allow heavy construction
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         equipment to access the right-of-way and take
         it all away when it's done?
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         (Johnson) That's correct.
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    Α.
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         (Bowes) These are also stipulations or
    Α.
         requirements of the DOT permit.
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         Okay. Now, once you access the
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         right-of-way -- and you can stay right on
         this picture. You see the yellow squares?
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         Do you see those?
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         (Kayser) Yes.
    Α.
         (Johnson) Yes.
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    Α.
         And are those the -- what are those?
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    Q.
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         (Johnson) Those are the crane pads.
    Α.
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         (Kayser) Crane pads.
    Α.
16
         That's what I thought. So that's where you
    Q.
17
         need to, for instance, remove vegetation and
         grade the area in order to do work?
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    Α.
         (Johnson) So, for the most part, vegetation
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         has already been removed in these corridors.
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         But yes, if there is any remaining, we would
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         have to take it out. Typically the extent of
23
         clearing is only along the very edge of the
24
         corridor.
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- Q. But for each one of these crane pads, I assume you have to grade that level flat?
- A. (Johnson) Yes, you can do that by bringing gravel in instead of digging the actual
- ground. But yes.
- Q. You can bring gravel in or you can removesome of the top soil and then put gravel in.
- 8 A. (Johnson) Correct.
- 9 Q. And I assume you're going to install some
 10 filter fabric as part of this area as well?
- 11 A. (Johnson) Yes. Every location has extensive
 12 environmental controls to prevent runoff, et
 13 cetera.
- Q. Okay. So everywhere along the route for these crane pads you have to -- and the crane pads are about 100 feet by 120 feet?
- 17 A. (Johnson) Approximately, yes.
- 18 A. (Kayser) Yes.
- Q. So everywhere along the route you're going to
 be grading, leveling and constructing these
 crane pads everywhere along the route in
 order to install structures; correct?
- 23 A. (Johnson) Yes.
- 24 Q. In addition to the crane pads, do you have

144 separate work pads as well? 1 2 (Johnson) What do you mean by that? Well, do you have -- is all of the work to 3 Q. construct a structure going to be done within 4 5 the crane pad? (Johnson) Yes. So you'll see different sizes 6 Α. 7 of crane pads, and those would correspond to 8 the different types of structures there, whether -- if it's a distribution line, 9 obviously it needs a much smaller footprint 10 11 versus, in this case, the DC structures which 12 need the largest footprint. And that's purely a function of the type of equipment 13 that needs to be staged there. 14 15 Okay. So, for each one of these crane pads, Q. 16 potentially you'll need site equipment to 17 grade it; correct? 18 (Johnson) Yup. Α. 19 Q. And you'll need trucks to deliver gravel to 20 put the gravel down.

- 21 Α. (Johnson) Yes.
- 22 And you'll need rollers to presumably compact 0. 23 it so that it can be a construction site.?
- (Johnson) Typically, no, we don't use 24 Α.

- rollers. It's possible in certain locations, but typically no.
- Q. Not what your Application says, but all right.
- 5 A. (Johnson) So, remember the Application is
 6 overstated in a lot of cases to ensure that
 7 we fully permitted and taken the most
 8 conservative route. The contractor may
 9 choose not to do certain things, as long as
 10 it's less, not more.
- Q. Okay. And then, from these crane pads you're going to need to do some excavation in order to put foundations?
- A. (Johnson) Correct. The drill rig will be right there.
- 16 Q. Yeah. Okay. And then you're going to need to bring concrete trucks in to pour concrete?
- 18 A. (Johnson) That's correct.
- Q. And then you're going to bring in cranes in order to install the structures. First you're going to bring in structures, the components in, and then you'll bring the cranes in to erect them?
- 24 A. (Johnson) That's correct.

- Q. And then after you get them erected, you're going to reverse much of that by either pulling out unnecessary gravel or timber mats or filter fabrics or whatever else in order to restore the area?
- 6 A. (Johnson) That is correct.

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- Q. So all of -- and do you have any sense of how many crane pads there are for this overhead construction?
- 10 A. (Johnson) There's approximately 1200

 11 structures, so approximately 1200 crane pads.
 - Q. Twelve hundred. Right. So in order to do all this work for the 1200 crane pads over this 2-1/2-year-period, there's going to be a lot of truck and equipment activity constantly accessing and getting onto the right-of-way and getting off the right-of-way; correct?
 - A. (Johnson) As with any construction project,
 yes, there will be a fair amount of material.
 I can tell you that there will not be 1200
 individual crane pads. A lot of material
 will be reused as you construct, as you go
 down the -- so there won't necessarily be

- 1 1200 loads of gravel coming in or anything of
 2 that nature. Typically when we build the 115
 3 lines, as we discussed earlier, to cut them
 4 over, we'll take the crane pads from the 115
 5 lines and move that material to create either
 6 the DC or the 345 AC materials. So you don't
 7 need to constantly bring new material in.
- 9 Q. But you're bringing in new concrete for each one of these structures; right?

You're recycling as much as you can --

11 A. (Johnson) Each concrete will have -- each
12 structure will have concrete.

- Q. And you're bringing new, whether it be
 lattice or monopole, for each one of these
 structures.
- 16 A. (Johnson) The material delivery will be unique, yes.
- Q. So there might be some reuse of gravel or
 some other material, but for the most part,
 each one of these crane pads is going to
 require its on material for the structures;
 correct?
- 23 A. (Johnson) Correct. There's 1200 structures.
 24 It's unique material.

- Q. Okay. Ms. Farrington, let me ask you a couple questions about impacts on traffic from activities we just described.?
- 4 A. (Farrington) Okay.
- Now, have you determined all the number of trucks, whether it's concrete trucks, dump trucks, flatbeds for cranes, other types of trucks that are going to be accessing these public -- these rights-of-way from the public roads? Have you gone through that and done an analysis?
- 12 A. (Farrington) I have not. I believe it was
 13 done in the EIS.
- 14 Q. Say that again?
- 15 A. (Farrington) I believe it was done in the EIS.
- Q. Okay. So as part of your work, you didn't go through and make an analysis of the impact on each one of these areas -- each one of these access to the right-of-way from a public road.
- 22 A. (Farrington) No, and I don't believe there
 23 would be any reason to do that, just because
 24 the number of vehicles on any given day using

- each of these entrances is going to vary, and
 I don't know that there's any reason to
 analyze to that sort of detail for something
 this brief and really minimal.
- Q. Well, you don't know the number of vehicles
 on the access each day because you didn't do
 the analysis; correct?
- 8 A. (Farrington) Well, I'm familiar with the
 9 number of vehicles that are going to be
 10 needed for the entire project. But when you
 11 divide them up by the number of access
 12 points, we're not going to have the same --

- Q. But you don't know for any given access point how many vehicles there are going to be on any given day on any given access point; correct?
- A. (Farrington) I don't know today, and I don't know that I would ever do that analysis or ever know that specific of information. It's just not a necessary parameter.
 - Q. So if an access point has multiple vehicles accessing the right-of-way coming on or going off throughout the day, won't that have an impact on the traffic at that spot?

- 1 (Farrington) It will. But it's evaluated Α. from the driveway permit side of things, 2 which is more of a safety evaluation. It's 3 certainly not a traffic impact evaluation 4 5 where we're going to consider the delay to the travelers caused by this. 6 I mean, the 7 delays are going to be less than ten seconds 8 per vehicle caused by any particular access 9 point.
- 10 Q. You think it's less than ten seconds for any
 11 of those vehicles to get off the road and
 12 onto the access right-of-way, or come off the
 13 right-of-way and get onto the road?
 - A. (Farrington) That's different. The delay for the construction vehicles we're not as concerned with. We're concerned with the delays for the traveling public.
- Q. Well, the traveling public can't pass if a construction vehicle is either going to come off the right-of-way and get on the access -- get on the public way; correct?
- 22 A. (Farrington) Correct.

14

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17

Q. Yeah. And it's going to take more than ten seconds for some of these large construction

- vehicles to come off the right-of-way and get on the public road; is it not?
- A. (Farrington) It could. We'll see. Could be less than one minute.
- Q. And if there are multiple vehicles coming at the same time, it could be more than that; isn't that right?
- 8 A. (Farrington) Well, each vehicle is going to
 9 have to -- sorry. Coming out of the
 10 construction zone or going into it?
- 11 Q. Either way.
- 12 A. (Farrington) Yeah, I suppose it could be.
- Q. So you really can't assess the impact of any particular access point because you don't know how many vehicles are going to go at any given time in order to make that analysis;
- 17 correct?
- 18 A. (Farrington) Again, there's no requirement in 19 the permitting --
- Q. I didn't ask you if there's a requirement. I
 asked you whether or not you'd done the
 analysis and you can determine the impact.
 And the answer is you can't because you need
 to do that analysis to determine the impact;

152 isn't that right? 1 (Farrington) I have not done the analysis, 2 and I will not do the analysis for this. 3 All right. Mr. Kayser or Mr. Johnson, let me 4 0. 5 ask you a question about road damage for these access points. 6 7 Now, heavier construction vehicles clearly have a vertical load based on their 8 weight on the road; correct? 9 10 (Johnson) Correct. Α. 11 (Kayser) Yeah. Α. And starting and stopping creates some 12 Q. horizontal load friction; correct? 13 14 (Johnson) Sure. Α. 15 Many of the public access roads are -- aren't Q. 16 state highways. They're local roads; isn't 17 that right? 18 (Johnson) In certain cases, yes, especially Α. in the south. 19 Yeah. And those local roads tend to be 20 0. 21 designed to different standards than, say, 22 highway roads; correct? 23 (Johnson) Correct. Α.

24

Q.

And so, for many of those local roads they're

- not designed for heavy use by construction
- vehicles. They're typically designed for
- 3 passenger vehicles and the occasional
- 4 construction vehicle; isn't that right?
- 5 A. (Johnson) Correct. Although, I would say
- 6 occasionally -- okay. Fair statement.
- 7 Q. So it's fair to say that, given the
- 8 construction activity on many of these local
- 9 roads, there's a fair likelihood that there
- will be damage to the roads, particularly
- where the asphalt meets non-asphalt. It's a
- high point of potential damage; correct?
- 13 A. (Johnson) I would say it's an area where it
- 14 could occur. I wouldn't say that it would
- 15 necessarily occur. If the contractor does
- their job right, then it won't.
- 17 Q. Okay. I want to ask you questions about if
- 18 it occurs.
- 19 A. (Johnson) Okay.
- 20 Q. So if it occurs, what's the Project's plan to
- 21 deal with that?
- 22 A. (Johnson) We'll fix it and restore it to
- existing or better conditions.
- 24 Q. And to do that, are you going to meet with

- the local officials to determine the
 necessary standard to meet to fix it to as
 good a condition or better?
- A. (Johnson) So, typically what the contractor does is photograph or video-tape that crossing so the existing conditions can be ascertained, and then the roads will be restored to DOT standards.
- 9 Q. Well, I'm talking right now about non-DOT10 roads. I'm asking you about the local roads.
- 11 A. (Johnson) Yeah.
- 12 Q. I understand for DOT they all require you to
 13 meet their standards, and they'll monitor
 14 you. I'm inquiring about local roads that
 15 towns maintain and DOT does not maintain.
- 16 A. (Johnson) Yeah.
- Q. So, for the local roads, is the Project's
 anticipation to meet with local officials to
 agree on the requirements to restore those
 roads to local -- to the local requirements?
- 21 A. (Johnson) Typically the DOT standards are 22 higher than the local roads, or equal.
- 23 Q. But my question is --
- 24 A. (Johnson) Yeah. So the answer is, if there's

- a road agent or a municipal official that is responsible for that particular, you know, return of the roads, we will develop a plan according to what the existing conditions
- were and either build it back to that condition or better.
- 7 Q. Okay. So --
- 8 A. (Johnson) There is no approval, if that's what you're searching for, though.
- 10 Q. No?
- 11 A. (Johnson) We're not asking for the municipal to approve.
- 13 Q. I understand the Project's legal position.
- 14 I'm not asking you about the legal position.
- That's for the lawyers to talk about.
- 16 A. (Johnson) Hmm-hmm. Agreed.
- 17 Q. What I want to know is what the Project's
- 18 commitment is in certain instances. And if
- 19 you were here for prior testimony, we've
- asked about the Project's commitment in
- 21 certain instances. And in this instance, I
- 22 want to know about the commitment to address
- damage to local roads that are maintained by
- localities. And every town, or virtually

every town has a road agent or a municipal agent responsible for the road. I want to know if it's the Project's commitment to meet with local officials where damage to local roads are done in order to agree on what the restoration of those roads should be. And if Mr. Bowes wants to answer that, that's fine.

- A. (Bowes) So you're asking if we're willing to meet with town officials? The answer is yes.
- Q. And are you willing to repair or restore the roads to the requirements that are requested by the town official?
- A. (Bowes) Provided they're consistent with the

 New Hampshire DOT standards, I would say yes.
 - Q. What happens if there's a difference between the DOT standards and the town standards?
 - A. (Bowes) Then we should have that discussion before the construction starts, not after an event occurs. And that's part of the process we're doing with the municipal outreach and the agreements that we're trying to put in place. We've completed that with the Town of Franklin, for example, and we'd like to follow that model for the remaining 30 towns.

- Q. So the objective is to reach an agreement
 with each town on what is required to restore
 damage to a town road?
- 4 A. (Bowes) Sure. Yes.
- Q. What happens if you and the town don't agree?
 What does the Project intend to do in that
 case?
- 8 A. (Bowes) Then we would look to the DOT
 9 standards and complete it to that standard,
 10 and the SEC would have the authority to
 11 enforce it.
- Q. And if the SEC requires you to meet whatever the town standards are, I assume that's what you will do?
- 15 A. (Bowes) I would say in general, yes. But not
 16 knowingly what they are, I would reserve some
 17 judgment on that.
- Q. Okay. Who would be responsible for interacting with the town officials, in terms of damage to a town road?
- A. (Bowes) I would say the first person would be that community relations manager. And we would be having that conversation I hope early on in the process. If we identified an

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		158
1	issue where we damaged a road, we would take	
2	that to the town before they came to us.	
3	MR. PAPPAS: Okay.	
4	CHAIRMAN HONIGBERG: Okay.	
5	We'll take our break now. We'll shoot for a	
6	little after 1:00. Might be closer to 1:10,	
7	but that's the target.	
8		
9	(Lunch recess was taken at 12:13 p.m	
10	This concludes DAY 6 MORNING SESSION.	
11	The hearing continues under separate	
12	cover in the transcript noted as	
13	"AFTERNOON SESSION ONLY.")	
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{SEC 2015-06} [Day 6 Morning Session ONLY] {05-01-17}

CERTIFICATE

I, Susan J. Robidas, a Licensed
Shorthand Court Reporter and Notary Public
of the State of New Hampshire, do hereby
certify that the foregoing is a true and
accurate transcript of my stenographic
notes of these proceedings taken at the
place and on the date hereinbefore set
forth, to the best of my skill and ability
under the conditions present at the time.

I further certify that I am neither attorney or counsel for, nor related to or employed by any of the parties to the action; and further, that I am not a relative or employee of any attorney or counsel employed in this case, nor am I financially interested in this action.

Susan J. Robidas, LCR/RPR
20 Licensed Shorthand Court Reporter

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