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{SEC 2015-06} [Day 13 Morning Session ONLY]  $\{06-08-17\}$ 

1	PROCEEDINGS
2	CHAIRMAN HONIGBERG: All right.
3	Good morning, everyone. Welcome back. Welcome
4	back, Ms. Frayer.
5	WITNESS FRAYER: Thank you.
6	CHAIRMAN HONIGBERG: I
7	understand that the other groups that would
8	normally go before Counsel for the Public are
9	not here or are done with their questions. If
LO	that's correct, and I see no one correcting me,
L1	then I think Counsel for the Public is up.
L2	MR. PAPPAS: Thank you, Mr.
L3	Chairman.
L <b>4</b>	CROSS-EXAMINATION
L5	BY MR. PAPPAS:
L6	Q. Good morning, Ms. Frayer. We met before. I
L7	represent Counsel for the Public. Before we
L8	start, let me just mention a ground rule.
L9	I'm going to ask you some questions in public
20	session. Later on I'll be asking to go into
21	confidential session because a great deal of
22	your testimony and reports involves some
23	confidential information. I will try to
24	avoid asking any questions in the public

session about confidential information. 1 in case I make a mistake and accidentally ask 2 a question about confidential information, 3 please let me know, and please don't answer 4 if it involves confidential information. 5 Ιf you do answer, everybody will assume that 6 7 it's non-confidential information, since I 8 think you're the one, or certainly LEI is the one who designated them confidential and so 9 forth. Do you understand that? 10

11 A. Yes.

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12 Q. Okay. Thank you.

So you started by producing a report in October of 2015, correct, in terms of -- your first Prefiled Testimony was October of 2015, and with it you had a report that went along with it; correct?

- 18 A. Yes.
- Q. And your report addressed the wholesale electricity market impacts; is that right?
- 21 A. That was one of the topics, yes.
- Q. And it also addressed the impacts on the local economy from NPT; correct?
- 24 A. Correct.

- Q. And when I refer to "NPT," I'm referring to the Northern Pass Project, Northern Pass Transmission. Do you understand that?
- 4 A. Yes.
- 5 Q. It's the acronym I think most people have 6 been using in their reports.
- Now, as I understand it, you started

  work on your October 2015 report in September

  of 2015; is that right?
- 10 A. That sounds about right. I think it would
  11 have been in the fall. Early fall, late
  12 summer.
- Q. All right. So you spent about a month or so preparing your first report; is that right?
- 15 A. I would say I spent a month or so doing the
  16 analysis for the first report. We had
  17 sketched out and thought about the content of
  18 our report even prior to September 2015.
- Q. Okay. And in terms of the local economy, you analyzed the impact of NPT on the New Hampshire and New England economy. You analyzed its potential impact in terms of jobs; is that right?
- 24 A. Jobs was one of the econometric metrics. We

- 1 also reported state GDP impacts.
- Q. Right. So those were the two things in terms
- of the local economy that your report
- addressed, jobs and Gross Domestic Product;
- 5 correct?
- 6 A. Yes.
- 7 Q. And to perform your analysis, you, in terms
- 8 of the local economy -- I will tell you this
- 9 morning I'm going to focus mostly on the
- 10 local economy aspects. To perform your
- analysis on the local economy, you used the
- 12 REMI model?
- 13 A. I used the PI+ model, which is produced by
- 14 REMI. REMI is the name of the firm.
- 15 Q. And they're out of Amherst, Mass.?
- 16 A. Yes, I believe so.
- 17 Q. Okay. And did you rent the model to do that?
- 18 A. Yes.
- 19 Q. How long did you rent it for?
- 20 A. I don't recall, off the top of my head. But
- I can say that we have rented the same model
- 22 since we started work and produced this
- report. So we've continued to rent it up to
- 24 this point in time.

- Q. Okay. And in your October 2015 report, you did not analyze the economic impacts to New Hampshire from NPT's payment of property taxes; is that right?
- 5 We did look into this. Let me step back and Α. say we didn't -- I didn't estimate the 6 7 property taxes. Dr. Lisa Shapiro produced 8 that estimate of property taxes for Northern Pass, and we used her estimates. We did look 9 10 into it. But for the October 2015 report, as 11 I state in the report, we decided conservatively not to include it in the 12 simulation modeling done with the REMI PI+ 13 model because we were not certain about how 14 15 those taxes would flow through the economy 16 and therefore wanted to be conservative.
  - Q. So you did not analyze or produce any economic impacts with respect to NPT's payment of property taxes; correct? That's not part of your October 2015 report?
- 21 A. We did not document it in the October 2015 22 report.

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Q. And likewise, your October 2015 report did not provide economic impacts from NPT's

- payment of state business income taxes;
  correct?
- A. No, we did -- that is correct. We did not document any of those effects.
- Q. Now, in your October 2015 report, you did some analysis on the carbon emissions reductions; correct?
- 8 A. Yes. As part of our analysis of electricity
  9 market impacts, we were able to estimate,
  10 project avoidance of carbon emissions
  11 reductions in New England.
- Q. Okay. And what you did is you provided an estimate of how much carbon emissions would be reduced by NPT; correct?
- 15 A. Yes, we did that estimate, and we also
  16 calculated the monetary value to society of
  17 that emissions reduction.
- Q. But in your October 2015 report, you did not provide a quantification for the economic impact on jobs from carbon emissions reductions; is that right?
- 22 A. Conservatively, we did not document that.
- Q. And likewise, you did not provide a quantification for the economic impact on GDP

- from carbon emissions reductions; correct?
- 2 A. Yes, that's correct. Conservatively, we
- recognized that there's this benefit, but we
- didn't implement it within the REMI PI+
- 5 model.
- Q. Then in February of 2015 you provide an updated report; is that right?
- 8 A. In February 2017, we provided what we call an
- 9 "Updated Analysis." That's the acronym we
- 10 provide in our description. It's in response
- 11 to data requests that were filed by certain
- parties. So it's an updated analysis. I
- think of it as a supplement to the Original
- 14 Report.
- 15 Q. In your Updated Analysis or supplement to the
- 16 Original Report, you likewise did not -- you
- 17 did not update your analysis of the local
- 18 economic impacts; correct?
- 19 A. Yes, that's correct.
- 20 Q. Okay. And you produced a corrected report in
- 21 March; is that right?
- 22 A. Yes. There were some typographical issues
- and headers and footers that were off.
- 24 Q. Okay. And that corrected report, likewise,

- didn't make any update to the local economics
  portion of your report; correct?
- 3 A. That's correct.

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- Q. Okay. Then, in April of 2017, you produced another report along with some prefiled testimony; correct?
- 7 A. Yes, we produced a rebuttal after having
  8 reviewed the evidence and reports put
  9 together by a number of intervening parties
  10 and their experts.
- 11 Q. Okay. And in your April 2017 report, for the
  12 first time you quantified the economic
  13 impacts to New Hampshire from NPT's payment
  14 of property taxes; correct?
  - A. I would say that in the April rebuttal, that was the first time where we documented how property taxes which we recognized from the original analysis were a benefit to local communities, how property taxes could impact the local economy, using the REMI PI+ model.
  - Q. And in your April 2017 report, for the first time you also quantified the economic impacts from NPT's payment of state business income taxes; correct?

A. In the same vein, yes. And again, this was, in some ways, I would suggest a rebuttal to the analysis performed by other experts and the reports that they produced in December 2016 that we were responding to in our April 2017 report.

- Q. In your April 2017 report, for the first time you quantified the economic impact on jobs associated with carbon reductions; is that correct?
- 11 A. It was the first time that we took the carbon
  12 emissions reductions which we have always
  13 estimated and considered what their value to
  14 residents, to the population here in New
  15 England would be using the REMI PI+ model.
  - Q. You didn't do that for your October or your February reports; correct?
  - A. No, we did not conservatively do that in our reports. But in response to some of the discussions we had at technical sessions, and also to the intervenors' evidence, we felt it was a necessary addition in order for the Committee to have a complete picture of various impacts.

- Q. No intervenor did that analysis, did they?

  No intervenor estimated the economic impact

  on jobs from carbon emissions reductions, did

  they?
- 5 A. No intervenor estimated the positive
  6 externalities of carbon emissions. But we
  7 had lengthy discussions with your experts --
- 8 Q. Yeah, but my question is: No intervenor did 9 the analysis that you included in your April 10 report; correct?
- 11 A. No intervenor did that analysis. But again,
  12 we had lengthy discussions about those
  13 positive externalities, and it was well
  14 recognized by many different experts that
  15 those are valid and important.
- Q. And likewise, in your April report, for the first time you analyzed and quantified the economic impact on New Hampshire's GDP from carbon emissions reductions; is that correct?
- 20 A. Yes. I thought I just answered that 21 question.

- Q. The first question was with respect to jobs, the second question was with respect to GDP.
  - A. Yes, jobs and GDP go hand-in-hand as metrics

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1 that get reported.
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- Q. And you used the REMI model to do that analysis; correct?
  - A. Yes, using two different approaches, one that represented my estimates approach and another method that represented Brattle Group's preferred methodology.
- 8 Q. So in your April 2017 report, for the first time you provided analysis and economic 9 10 quantification on the effect of NTP [sic] 11 paying property taxes, the impact of NTP paying state business income taxes, the 12 impact on jobs from carbon emissions, and the 13 14 impact on GDP from carbon emissions; isn't 15 that correct?
- 16 A. Yes.

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- Q. And would I also be correct in saying that as
  of the time you did your October 2015 report,
  you had all of the information necessary to
  do that analysis? Correct?
  - A. We had the majority of information. But through the technical conferences that took place in early spring of this year, we gathered more information and came to an

- 1 understanding that there was a particular 2 view being taken by other experts that we wanted to make sure there was sufficient 3 documentation on. So I would say that we had 4 the building blocks, but I didn't appreciate 5 in October 2015 the consensus that other 6 7 experts had about the positive externalities 8 that exist with respect to those elements that you've just mentioned. 9
- 10 Q. So in other words, you had the data. You had
  11 the information in October of 2015 to do this
  12 analysis, but you didn't appreciate the
  13 approach others were taking about these four
  14 topics; is that right?
- 15 A. Yes.
- 16 Q. Okay.
- A. The December 2016 evidence provided by
  various experts was very important in our
  decision to then prepare those materials in
  our April 2017 report.
- Q. You didn't include them in your February update, did you?
- 23 A. The Update Analysis in February --
- 24 Q. The question is: You didn't include them in

- 1 your February update; is that correct?
- 2 A. Because the February update was very specific to a data request we received.
- Q. Now, your October 2015 Prefiled Testimony did not include these four areas; is that correct?
- 7 A. Just like the report, they were not
  8 documented within the REMI PI+ aspect of the
  9 analysis.
- Q. And the same thing applies for your February
  Prefiled Testimony; isn't that right?
- 12 A. The February Prefiled Testimony specifically
  13 talks to the Updated Analysis which we just
  14 discussed.
- Q. And your April 2017 testimony does not discuss these four new areas of analysis, does it?
- A. I think that the April 2017 Prefiled

  Testimony is a summary, a very high-level
  summary of what's in the report. So I would
  disagree with the implication that there
  is --
- 23 Q. Does your April --
- 24 A. -- a missing element to it.

- 1 Q. Does your April 2017 Prefiled Testimony
- discuss these four items?
- 3 A. It discusses the high-level report and
- 4 suggests to the reader, if they're
- interested, they can read the full report.
- 6 Q. Do you have your April 2017 testimony in
- 7 front of you?
- 8 A. Yes.
- 9 Q. Please show me where in your April 2017
- 10 testimony you discuss these four specific
- items.
- 12 A. If you bear with me...
- 13 Q. I'm a patient man.
- 14 MR. IACOPINO: Mr. Pappas, do
- 15 you have an exhibit number for that testimony?
- MR. PAPPAS: Yes, Exhibit 101.
- 17 MR. IACOPINO: Thank you.
- 18 (Witness reviews document.)
- 19 A. As an example, on Page 5 --
- 20 BY MR. PAPPAS:
- 21 Q. And Page 5 is the last page of your Prefiled
- 22 Testimony?
- 23 A. Yes. And there's only five pages. It's a
- very short summary. But on Page 5 it says --

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- 1 Q. Which line are you referring to?
- 2 A. Starting from the middle of Line 9 and going
- 3 to Line 11. If you'd like, I can read the
- 4 sentence.
- 5 Q. Sure.
- 6 A. Okay. "KRA has also only considered negative
- 7 externalities in its long-term aggregate
- 8 impact analysis, without quantifying the
- 9 impact of positive externalities." And my
- 10 interpretation of that sentence, if you also
- 11 read the full report, is that they haven't
- considered, for example, the positive
- 13 externalities that we have measured with
- 14 respect to carbon emissions reductions.
- 15 That's an example.
- 16 Q. Any other examples?
- 17 A. Line 4 through 6 on Page 5. "More
- 18 importantly, LEI is concerned with the
- 19 robustness of KRA's aggregate long-term
- analysis, which is geared to examining the
- 21 combined effect of various factors associated
- with the Project on the New Hampshire
- economy."

24 CHAIRMAN HONIGBERG: Ms. Frayer,

- if you're going to read, just read a little
- 2 slower for the stenographer.
- WITNESS FRAYER: I'm sorry.
- 4 Sorry about that.
- 5 A. And I did not itemize the items you're
- 6 talking about. But in my mind, these
- 7 sentences are referring to specific aspects
- 8 covered in my more detailed Rebuttal Report
- that addressed the issues that you're raising
- and talking about at the moment.
- 11 BY MR. PAPPAS:
- 12 Q. The two sentences you just read relate to
- 13 KRA, which is Kavet Rockler & Associates;
- 14 correct?
- 15 A. Yes.
- 16 Q. And the two sentences you just referred to
- 17 relate to KRA's analysis; isn't that right?
- 18 A. The two sentences refer to our concerns about
- 19 the KRA analysis.
- 20 Q. Right.
- 21 A. And our Rebuttal Report then addresses those
- 22 concerns.
- 23 Q. And the fact is your Prefiled Testimony
- 24 doesn't say anything about those four

- 1 specific items, does it?
- A. My Prefiled Testimony is five pages, sir. My report, in contrast, I can tell you --
- Q. My question is: It doesn't refer to those four items, does it?
- A. No, it doesn't. But again, my report is
  70-plus pages. So the Prefiled Testimony was
  8 really meant to just be a quick summary the
  9 reader. And I was hoping they would read the
  10 entire Rebuttal Report to get to the essence
  11 of what's indicated in the five summary
  12 pages.
- Q. Okay. Now, when you produced your April 2017
  report and your Prefiled Testimony, you did
  not produce any backup documents; correct?
- 16 A. I'm not sure what you mean by "backup documents."
- 18 Q. You didn't produce your REMI file; isn't that
  19 right?
- 20 A. No.
- Q. And you didn't produce any model input spreadsheets; is that right?
- 23 A. We produced various appendices for various 24 analyses that we documented, including source

- 1 citations, so somebody else could go through and check and understand those. 2
- You didn't produce any of your work papers, 3 Q. did you? 4
- 5 Work papers with respect to? Α.
- To the April 2017 report. 6 0.
- 7 Work papers with respect to the underlying Α. 8 data that goes into the REMI PI+ model?
- 9 Correct. Q.

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- In answer to that question, no, we did not 10 Α. produce any work papers. 11
- So, without this backup data, these work 12 Q. papers, the REMI input files and so forth, 13 14 there's no way for someone to review and 15 analyze your four new items without that 16 information; correct?
- 17 Α. I would disagree, wholeheartedly disagree, because there's information in our report, 70 18 19 pages of it, that goes through in detail some 20 of these aspects.
- Q. You would need that backup document if you were asked to review and analyze these four 23 new areas of analysis and quantification; 24 would you not?

- 1 I would argue not necessarily. I would read Α. 2 the report and see what's documented in the report, and then you would of course need 3 access to the REMI model, the PI+ model. 4 5 analysis was layered on top of the REMI PI+ model, workbooks and work papers that we had 6 7 previously provided. So, between having the 8 original foundation plus the information and description we have in the report, I believe 9 that should be quite sufficient for an expert 10 11 to make their way through the analysis.
- Q. An expert would need your REMI input files
  that you used to prepare your April 2017
  analysis; would they not?
- 15 A. No. They need to understand the description
  16 in our report and make an effort to review
  17 that.
- Q. When you reviewed and analyzed KRA's analysis
  and their use of the REMI model, you asked
  for and received their REMI input files; did
  you not?
- 22 A. Yes.
- Q. And you received all of their model input information; did you not?

- 1 A. Belatedly, but yes.
- Q. And you needed that in order to check how they used the REMI model and to determine
- whether you agreed with their use of the REMI model; correct?
- A. And we had provided similar spreadsheets that form the foundation as well.
- 8 Q. But you didn't provide those spreadsheets
  9 that you used for the April 2017 report on
  10 these four items; isn't that right?
- 11 A. But we provided a description of how we
  12 modeled those four items, so somebody would
  13 be able to take the words on the paper and
  14 translate that into an input.
- 15 Q. The words on the paper don't give the

  16 specific input that you put into the REMI

  17 model, specific input numbers that you put

  18 into your REMI model; correct?
- 19 A. I disagree. I think the words on the paper
  20 provide sufficient detail for an expert to do
  21 a backwards engineering of that analysis.
- Q. Do they provide the specific input numbers or descriptions?
- 24 A. Yes. For example, on the carbon emissions

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reductions, as I suggested, we used two
different methods to analyze it. And one
method used the very particular policy
variable in the REMI PI+ model, non-pecuniary
effects. We described it. The words are on
the paper. We said this is the policy
variable we used.
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Q. For the business income taxes, did you provide the amount of taxes that you assumed NPT would pay?

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- 11 A. We provided a description of how we estimated
  12 those business income taxes. And I believe
  13 we also referred the reader to Dr. Shapiro's
  14 testimony that provides additional detail.
  - Q. You didn't provide the numbers that you inputted into the REMI model in order to do the analysis for payment of business income taxes; isn't that right?

(Witness reviews document.)

- A. We provided references to Dr. Lisa Shapiro's Supplemental Testimony on the specifics of the taxes.
- Q. The REMI -- in order to do the carbon
  emissions analysis using the REMI model, did

- 1 you use the REMI amenity variable?
- 2 A. Yes.
- 3 Q. And the REMI amenity variable requires an
- 4 amount of annual incremental earned income
- that you need to input; is that right?
- 6 A. The amenity value requires a
- 7 dollar-associated value to the amenity that
- 8 you're trying to model, and that is related
- 9 to the carbon emissions reductions we
- 10 reported in the Updated Analysis in
- 11 March 2017.
- 12 Q. But you didn't provide the input number that
- 13 you inputted into the REMI model with your
- 14 April 2017 report, did you?
- 15 (Witness reviews document.)
- 16 A. The number was in the March 2017 report, the
- 17 Updated Analysis, I should call it.
- 18 Q. What number was that?
- 19 A. It was... bear with me. I should find the
- 20 page reference.
- 21 (Witness reviews document.)
- 22 A. So I can take you through it, sir.
- 23 Q. What page are you referring to?
- 24 A. I am first -- I'm looking at two different

- pages. First I'm looking on Page 48.
- 2 Q. In which report?
- 3 A. Of the April 2017 report.
- 4 Q. And that's Applicant's Exhibit 102.
- 5 A. Yes. And I'm also looking at Page 25 of the
- 6 Applicant's Exhibit 81, which is the Updated
- 7 Analysis Report filed in March 2017.
- 8 Q. Hmm-hmm. So what specific number did you
- 9 input into the REMI model?
- 10 A. So, just to explain --
- 11 Q. Can you tell me what specific number you
- inputted into the REMI model first and then
- 13 you can explain?
- 14 A. So, with respect to your question about
- 15 modeling the carbon emissions reductions
- 16 using the amenity value -- is that your
- 17 question, the amenity value? That would have
- been London Economics' estimate of the value
- 19 of carbon emissions reduction, which is
- documented in Section 3.4.2, starting on
- 21 Page 25 of the Updated Analysis. This is the
- March 2017 report.
- 23 Q. And that's Applicant's Exhibit 81?
- 24 A. Yes. And the actual dollar values per year

would have been taken from Figure 16. And if you notice, it has Social Cost of Carbon,
Dollar Millions Nominal. Last three rows,
unfortunately, I can't name the numbers
because that is marked as confidential. But
those are the numbers we would have used as
input to that policy variable in the REMI PI+
model for that method.

We also simulated a method using Brattle Group's proposed approach, and that particular number is referenced in the April report. If we go back to the April report, it's specifically referenced in the second paragraph, the last sentence, on Page 48. That number is not confidential, so I can name it. It was \$140 million per year, which was the lower estimate from Brattle Group's range of social benefits for New England from carbon emissions reductions produced by the Project.

- Q. So is that the amount of annual incremental earned income you inputted into the REMI model?
- A. That is the amount of subsidies avoided,

according to Brattle Group's expectation

about valuing this positive externalities.

So in that case, it doesn't use the amenity

variable. It's looking at electricity costs

and subsidies that would have otherwise been

paid, the Opportunity Cost Method Brattle

Group expected.

- Q. So that's not the number you inputted in the REMI model for the amenity portion for annual incremental earned income; is that right?
- A. Well, that's what I was trying to explain to you, and you wanted a number. There was two methods that we implemented to look at the value in the REMI PI+ model, as described very clearly in our April report. One uses the amenity value, and that's the number in Figure 16. It's using LEI's estimate of the social cost of carbon. The other approach is using Brattle Group's methodology of valuing the carbon emissions reductions for society based on opportunity costs, avoided subsidies.
- Q. I get the method you used. What I was looking for is the specific input numbers.

- A. And two methods, two separate inputs. That's what I was trying to explain. So, two different numbers, depending on which method.
- And in fact, that's what I documented in my results, two different results, too.
- Q. So, looking at Figure 16, which you -- that's the figure on Page 26? Did I hear you correctly?
- 9 A. Of the March 2017 Updated Analysis.

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- Q. And looking at Figure 16, tell me -- you
  can't tell me the number. But tell me
  which -- you can tell me what the description
  is, the specific number you used for this
  input into the REMI model.
  - A. I used the bottom three rows because I did it with every one of those three scenarios. So the bottom three rows as part of their labeling have references to 2.5 DCR -- which is discount rate, I apologize -- 3 percent DCR, 5 percent DCR. Those are naming conventions for three different levels of projected social cost of carbon that the Interagency Working Group puts out. And I modeled those three rows, and that's what's

- documented in Figure 8 and 9, in terms of
  results under the amenity value approach in
  those two tables for employment impacts and
  GDP impacts. There's three rows there as
  well. They correspond to each other, input
  and output.
- 7 Q. Your report doesn't indicate that, does it?
  8 It just gives the numbers. Doesn't indicate
  9 that's what you used for your input into the
  10 REMI model; correct?
- 11 A. I would expect that an expert --

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- Q. Is that correct, ma'am? It usually helps if
  you answer the question first and then
  explain. Is that correct?
  - A. My report does not spell it out. But my report is descriptive enough in using the exact same terminology between this report and the Updated Analysis, that someone should be able to understand that's what we did.
    - Q. And are all of the input numbers you used,
      when you used the REMI model for these four
      items, found somewhere in your reports, every
      single input number?
    - A. When you're referring, sir, to "the four

items," I think you're including --

- Q. I'm including payment of property taxes,

  payment of business income taxes, jobs from

  carbon emissions reductions, and impact on

  GDP from carbon emissions reductions. Those

  are the four items I'm referring to.
  - A. Yeah, so the first two items, as stated in my April 2017 report, relate to business taxes and property taxes. And as I said earlier, I relied on Dr. Shapiro's Supplemental Testimony. So one would have had to go to her Supplemental Testimony to understand inputs as well. So we worked together on creating those on the inputs, and then the REMI modeling, because I'm the expert responsible for the REMI PI+ modeling, and she is the expert that developed those estimates of property tax impacts.
  - Q. So, does anywhere in your reports tell the reader what input numbers you used in REMI for what REMI factor or category?
  - A. Again, I believe that the policy variables that we used in the REMI PI+ model are written out in the text of the report. In

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terms of the dollar inputs that we used,
because the REMI model takes dollar input
values, I think those are described as well.
And where they're not described verbatim,
there's a cross-reference in the citations to
other experts' testimony where those should
be described.

MR. PAPPAS: Mr. Chairman, I'm going to move to strike from LEI's report, April 2017 report, any discussion of these four new areas of analysis, specifically impacts from NTP's payment of property taxes, impacts from NTP's payment of business income taxes, impacts on jobs from carbon emissions, and impacts on GDP from carbon emissions reductions. I'd move to strike those from her April 17, 2017 report. Or alternatively, I'd move to allow us to conduct discovery on these items, obtain the backup documentation that was produced with respect to her prior report which used the REMI model, so that our experts can review it and have an opportunity to analyze it and, if necessary, submit a supplemental testimony report about them. Couple things --

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1	CHAIRMAN HONIGBERG: And put
2	succinctly, the reasons, the basis for your
3	motion is?
4	MR. PAPPAS: That this analysis
5	was not included in LEI's two prior reports,
6	and nothing prevented them from doing so. The
7	witness has indicated
8	CHAIRMAN HONIGBERG: Put
9	succinctly, the grounds are?
10	MR. PAPPAS: The grounds are
11	that this analysis could have been done before.
12	It wasn't. They had all the data, and it
13	wasn't provided. And it doesn't constitute
14	supplemental testimony. It constitutes new
15	analysis on new areas which is beyond
16	supplemental testimony. And so there's no
17	ability to do discovery. There's no ability to
18	have any meaningful opportunity to analyze and
19	review it. And so I think fundamental fairness
20	requires that either it be excluded or we be
21	allowed the opportunity to conduct discovery
22	and produce any supplemental report as
23	necessary.
24	CHAIRMAN HONIGBERG: Mr.

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33
         Needleman.
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2
                         MR. NEEDLEMAN:
                                         Two specific
         points here as to why this motion should be
3
         denied.
4
5
                         First point: The Committee,
         and I think it was you, Mr. Chair, issued a
6
7
         procedural order on March 1st, 2017.
8
         last page of that procedural order,
         Paragraph 13, set out deadlines. And I'm
9
10
         going to read them. "Prehearing motions and
11
         stipulations on Track 2 topics shall be filed
         on or before April 24, 2017."
12
                         Any motion like this was due
13
14
         on that date, which was over six weeks ago.
15
         You didn't hear a single statement from Mr.
16
         Pappas as to why this motion is over six
17
         weeks late. You also didn't hear a single
         statement from the witness or Mr. Pappas that
18
19
         in any way indicated that there was any
20
         information just elicited from this
21
         examination that was not available to Counsel
22
         for the Public or Mr. Pappas at that time.
23
                         CHAIRMAN HONIGBERG: Okay, I got
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that ground, or I got that argument.

	5	34
1	MR. NEEDLEMAN: Totally	
2	untimely.	
3	Second issue: Mr. Pappas is	
4	conflating rebuttal and supplemental	
5	testimony. Supplemental testimony is	
6	updating testimony that was filed previously.	
7	Rebuttal testimony is typically reserved for	
8	the Applicant, and it's the right to rebut	
9	things that are said after they filed their	
10	initial testimony. I think it's well	
11	recognized in SEC practice that Applicants	
12	are permitted to do that. And in fact, the	
13	Applicant is allowed to do that because we	
14	are the only party in dockets like this with	
15	the burden of proof. And there comes a point	
16	where there has to be a last word, and I	
17	believe that last word is the rebuttal	
18	testimony of the Applicant. For those	
19	reasons, I think this motion needs to be	
20	denied.	
21	CHAIRMAN HONIGBERG: Anything	
22	you want to add, Mr. Pappas?	
23	MR. PAPPAS: I do. First of	
24	all, I want to mention that I did give	

Applicants notice of this eight or nine days ago so they wouldn't be surprised. And I think his response probably reflects that.

Second, the SEC rules permit oral motions, and there's no time limit when oral motions can be done. I believe a motion to strike testimony is timely at any time during the proceeding.

CHAIRMAN HONIGBERG: What did
you just learn after the deadline for filing
motions to strike that was necessary to your
raising this now? Because it seems to me
that's a fairly good argument, that in fact you
and other parties have been moving to strike
aspects of Ms. Frayer's testimony over and over
and there have been rulings denying those
motions. So what's new since the deadline for
motions to strike?

MR. PAPPAS: Candidly, since that motion to strike -- I mean since the deadline, which I believe was April 24 or -- April 24, candidly, nothing. But there's a reason for that. And I think there's a good reason for that. These hearings started on

April 13th. We were dealing we were in
hearings dealing with witnesses there were
11 witnesses that we dealt with before we came
to Ms. Frayer. They had Supplemental Prefiled
Testimony. The parties were rather consumed in
11 or 12 days of hearings with other witnesses
that went long, and very long, detailed things,
who produced lots of information with their
Prefiled Testimony, including the entire new
survey maps and so forth from construction
folks. So I think it's a little bit
unrealistic to expect us to be able to read all
of the Prefiled Testimony for all of the
witnesses in Track 2, which is the remainder of
their witnesses, and prepare motions when we're
actively engaged in hearings, actively engaged
in trying to review the witnesses that are
coming up. And we did not I candidly did
not expect to find brand new analysis in
Supplemental Testimony. So I was focusing on
the other witnesses that were before us, and
when we finished with them and turned my
attention to Ms. Frayer, I became aware of
this. I then called the Applicants when I

became aware of it and let them know that this			
is an issue, that I was going to raise this, so			
they wouldn't be surprised. And so, candidly,			
no, I could theoretically have learned of this			
after or before the April 24th deadline.			
But I think it's a little unrealistic to expect			
that counsel were going to do that and deal			
with everything else in this very condensed			
proceeding that involved many witnesses.			
So I think that the Chair has			
the ability to waive any deadline at any			
time. The Chair certainly has the ability to			

instances fairness requires that because of the circumstances. It's not a situation where, you know, you've got a few witnesses. We've got many.

waive any requirement. And I think in these

CHAIRMAN HONIGBERG: I think Mr.
Roth would like to add something or have you add something.

(Off-the-record discussion among counsel.)

MR. PAPPAS: Mr. Roth reminds me that the procedural order refers to supplemental testimony, not rebuttal testimony.

I will candidly admit this is my first SEC proceeding, so I'm -- but Mr. Roth has been through many of them, and he indicates to me that typically they see supplemental testimony, not brand new analysis filed with supplemental testimony.

CHAIRMAN HONIGBERG: Mr.

Needleman, anything you want to add? I guess in responding to that, you might also give us an indication of what you view this as rebuttal to, because I think you articulated this in part "as rebuttal testimony" in addition to it being supplemental testimony. Is it both, or is it one or the other? And if it's rebuttal, what was it rebutting?

MR. NEEDLEMAN: It's certainly both. And I wish I could sit here and tick off the points for you as to why it's specifically rebuttal in certain places and supplemental in other. And if we had a timely motion, I would have had the time to do that. I can't sit here and tell you that. But I can tell you we had extensive discussions with Ms. Frayer about how to deal with this. And we focused very

carefully on what needed to be rebutted, and we did that. And if we had the time, I could sit here and I could tell you point by point which parts of her testimony were rebutting things that other witnesses said. But I will represent to you that I am highly confident that if we had the time to do that, we could show it was rebuttal. Again, I don't think it's fair to ask that we have to do that on the fly.

With respect to what Mr.

Pappas said about the timing of this motion,
I'm sympathetic to the fact that there's a
lot of work to be done in this case, and
there are tight deadlines to be met.
Frankly, I still don't think that's an excuse
for this. Counsel for the Public has
available to him a large, highly capable
litigation firm with the resources to be able
to do this work and analyze these types of
issues. And if there was any reason at the
time that they felt that they couldn't have
done it, they should have let us know, they
should have let the Committee know, and they

should have filed a motion. They shouldn't have handled it this way and waited six weeks to raise this.

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CHAIRMAN HONIGBERG: Mr. Pappas, I think you have a timeliness problem. I think you have a lot of resources. And I think if you had an indication that you needed to file a motion, it would have been appropriate to seek an extension of that deadline. There are certainly ways to get around that. I think Mr. Needleman has the better of these arguments. think the Committee can take your arguments as part of an argument that this isn't an adequate presentation by the Applicant to justify the relief that it seeks ultimately. And I'm going to deny the motion.

MR. PAPPAS: How about the alternative motion for producing the backup documentation?

CHAIRMAN HONIGBERG: I think
we've ruled on that a number of times with
respect to requests for production of
additional information from Ms. Frayer. She's
testified as to how to access the information,

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1
         how to use the information that she's used, how
2
         to find it, and then I think it's up to you all
         to manipulate that as you see fit. So that
3
         motion -- that request is denied as well.
4
5
                                      Okay. Thank you.
                         MR. PAPPAS:
                         CHAIRMAN HONIGBERG:
6
                                               Off the
7
         record.
8
                (Discussion off the record)
9
                         CHAIRMAN HONIGBERG: Mr. Pappas,
10
         you may proceed.
                         MR. PAPPAS:
11
                                      Thank you.
    BY MR. PAPPAS:
12
         Ms. Frayer, what's on the screen, can you see
13
         it in front of you?
14
15
         Yes, sir.
    Α.
16
         Okay. What's on the screen in front of you
17
         is Page 7 from your April 17, 2017 report,
         which is Applicant's Exhibit 102. And I have
18
19
         highlighted the first sentence that reads,
20
         "On the local economic impact analysis, KRA
21
         agreed that, 'in general,' the economic
22
         impact analysis by LEI was well performed."
23
         Do you see that?
24
         Yes, I see that.
    Α.
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- 1 Q. Now KRA, as we said earlier, is Kavet,
- 2 Rockler & Associates.
- 3 A. KRA, yes.
- 4 Q. And they were the experts retained by Counsel
- for the Public?
- 6 A. Yes.
- 7 Q. Now, you did not completely quote KRA's
- 8 report in your sentence here, did you?
- 9 A. Well, I believe this --
- 10 Q. Did you?
- 11 A. -- excerpt is from the KRA report.
- 12 Q. But you didn't include their complete -- you
- 13 didn't include their complete quote, did you?
- 14 A. I don't have a copy of the KRA report handy
- 15 right now. I can get it during a break and
- 16 check. I don't recall.
- 17 Q. Well, we do.
- 18 MR. PAPPAS: Can you put up 146,
- 19 Page 2?
- 20 Q. What I've put on the screen is from Counsel
- 21 for the Public's Exhibit 146. This is from
- 22 KRA's report which you were quoting.
- 23 A. Yes, I see it.
- 24 Q. And what KRA said was, "In general, the

- Applicants' economic impact analysis was well
  performed. However, model specification
  errors resulted in an overstatement of
  employment impacts during the development and
  construction phase of approximately
- 20 percent. Ongoing operational impacts were
  very close to our estimates, but are
  relatively small." Do you see that?
- 9 A. I see that.
- 10 Q. So you quoted from the first portion of the
  11 first sentence that I just read; correct?
  12 (Witness reviews document.)
- A. As part of my paragraph on Page 7 that you highlighted, yes, I quoted just the first part of the sentence.
- 16 Q. Right. And --
- A. But then I dealt with the second part of the sentence in the next sentence that you didn't highlight.
- 20 Q. You quoted them, and you put a period after
  21 "well performed"; correct?
- 22 A. The period is to end my sentence, yes.
- Q. But you put a period and then you closed quotation marks; correct?

- A. We can argue about the semantics of my
  editorials, but yes. And then in the next
  sentence I go on to address in my report the
  second part of their sentence.
- You're familiar with the use of an ellipsis in writing, are you, the three dots when there's more to a quote that's not being included?
- 9 A. I am familiar with that punctuation. Yes, sir.
- 11 Q. And it tells the reader that the writer is
  12 not including the entire quote; correct?
- 13 A. It tells the reader there is a
  14 continuation of some thought, yes.
- 15 Q. And when you quoted KRA, you did not tell the reader there's more to their quote, did you?
- A. No, but I addressed the second part of their quote in my next sentence.
- 19 Q. The reader would think, reading your
  20 sentence, that that is all that KRA said,
  21 correct, because you didn't tell the reader
  22 there was more to KRA's quote?

CHAIRMAN HONIGBERG: Mr. Pappas,

would you ask Mr. Roth to put up Ms. Frayer's

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report and highlighted section so we can see
how Ms. Frayer continued after the period,
where she failed to include the magic ellipsis?

MR. IACOPINO: And also if you
could please remind us of the number of that
exhibit and the page number.
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MR. PAPPAS: Sure. Yeah. What is on the screen now is Applicant's

Exhibit 102, Page 7.

## 10 BY MR. PAPPAS:

- 11 Q. So what you went on to say is, "However, KRA

  12 also performed their own local economic

  13 analysis using the same modeling tools as

  14 LEI"; correct?
- 15 A. Yes.
- Q. You didn't say anything about the 20-percent difference they indicated in the rest of the quote that you included; correct?
- 19 A. I didn't --
- 20 Q. Correct?
- 21 A. I didn't quote the rest of the quote, but I
  22 started explaining my rebuttal to the rest of
  23 the quote. So I started off recognizing that
  24 they did their own estimation, which refers

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back to the fact that in their original quote
1
        they talk about, I believe, a 20-percent -- I
2
        don't have it on the screen -- but a
3
        20-percent over-estimation. I'm starting to
4
5
        explain that. If you read on the next
        sentence, you can see my further explanation
6
7
        of that specific part of KRA's quote.
        You go on to say, "LEI found a number of
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   0.
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- Q. You go on to say, "LEI found a number of discrepancies and data-related errors, as well as more conceptual flaws and improper assumptions"; correct?
- 12 A. Correct.

9

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- 13 Q. You're referring to KRA's work; correct?
- I am referring in this particular aspect to 14 Α. 15 my review of KRA's work where they reached 16 the conclusion that we over-estimated. I 17 believe that's a flawed conclusion. 18 I believe they made some pretty silly 19 mistakes on data entry to get to that 20 conclusion.
  - Q. But nowhere in your paragraph do you refer to their rather significant qualification of what you quoted; correct?
- 24 A. I don't quote the rest of their report or

1 paragraph.

- Q. Would you agree with me that a more accurate approach would have been to quote their entire sentence rather than the truncated part you quoted? That would more accurately have reflected what KRA said?
- 7 A. I would agree that it's quite possible to
  8 write this paragraph and include the entire
  9 quote.
- 10 Q. Would you agree with me that if you included
  11 the entire quote, it would be a more accurate
  12 reflection of what KRA said?
  - A. If I had -- I included here the actual words that were in their quote. I could have included more of their actual words. And I don't believe that this gives the wrong impression because I continued to talk then about the local economic impacts that they estimated that led to the second part of their quote.
  - Q. Nowhere in your paragraph do you talk about KRA's view about model specification errors by LEI that resulted in an overstatement of employment impacts of approximately

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1 20 percent; correct?
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- A. On Page 7 of my April report, which is labeled as the "Introduction" -- it's actually the first page of my report -- I provide a high summary. But I do go back and talk about this particular assertion from KRA and explain it in excruciating detail. If you'd like, I can take you where in my report I specifically address this assertion.
- Q. My question is: You didn't include that portion of KRA's quote in the paragraph that you were referring to in your report; correct?
- 14 A. I did not include this entire paragraph from
  15 KRA's report in the first page of my
  16 introduction in the report.
- Q. When you wrote in your report that, in
  general, the Applicant -- in general, KRA
  thought your analysis was well performed, did
  you intend the reader to rely on that?

  (Witness reviews document.)
  - A. I'm not sure -- I wrote what I believed to be an important point, not the only point that KRA made of our report. And then I went on

			49
1		to talk about some other aspects of KRA's	
2		work. In this way, again, this is a rebuttal	
3		to the evidence and analysis that KRA	
4		performed.	
5	Q.	When you wrote the sentence that says, "On	
6		the local economic impact analysis, KRA	
7		agreed that, 'in general,' the economic	
8		impact analysis by LEI was well performed,"	
9		did you intend the reader to rely on that	
10		sentence?	
11	A.	Yes, among all the other elements of my	
12		report that I would like the reader to have	
13		reviewed and relied on.	
14	Q.	So you intended the reader to rely on a	
15		sentence that did not completely quote what	
16		KRA said; correct?	
17		MR. NEEDLEMAN: I'm going to	
18		object. She just got done explaining exactly	
19		what she intended the reader to rely upon.	
20		MR. PAPPAS: In	
21		cross-examination you're allowed to probe the	
22		witness.	

are. I'm not sure how much more you want to do

23

24

CHAIRMAN HONIGBERG: Yeah, you

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         with this. I think we probably got the point
         you're making. But you can certainly -- she's
2
         certainly able to answer that question I think.
3
4
                         MR. PAPPAS:
                                      Thank you.
         Sir, can you repeat the question?
5
    Α.
         Probably not.
6
    0.
7
                (Question read back.)
8
    Α.
         I intended the reader to use all the words in
         my report and rely on all of them.
9
                                              But I
         appreciate and recognize the point, sir,
10
11
         you're making, that I didn't include the
12
         entire paragraph from KRA's report or the
         entire sentence. I had an excerpt here of
13
         one part of the sentence.
14
    BY MR. PAPPAS:
15
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- 16 Okay. Ms. Frayer, I'm now putting on the 17 screen Page 45 from your April 17, 2017, report which is Applicant's Exhibit 102. 18 19 on page --
- 20 MR. PAPPAS: Right at the bottom 21 there.
- 22 And on Section 5.1, that starts your rebuttal 23 of KRA's report. Do you see that, where you say, "KRA's long-term economic impact 24

- 1 analysis is not reliable"?
- 2 A. Yes, I see that section.
- 3 Q. Okay. And in this section you go on to
- discuss your view of KRA's economic modeling;
- 5 correct?
- 6 A. Yes, in this section of the report I am
- 7 rebutting KRA's analysis.
- 8 Q. On Page 46 of the same report and exhibit,
- 9 you conclude, "LEI does not find the
- 10 long-term aggregate economic impact analysis
- 11 presented in Figures 24 and 25 on Page 75-76
- in the KRA Report to be believable because of
- the unreliable assumptions on which it is
- 14 based and the long forecast period." Do you
- 15 see that?
- 16 A. Yes, I see that sentence.
- 17 Q. And you described Figures 24 and 25 in KRA's
- 18 report as, quote, long-term aggregate
- 19 economic impact analysis; is that right?
- 20 (Witness reviews document.)
- 21 A. Yes, that's right.
- 22 Q. Okay. Now --
- 23 A. And I apologize. They may be Table 24 and
- 24 Table 25 in KRA's report.

1 Q. Okay.

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- A. But I believe that's the actual table

  nomenclature. It's an "aggregate economic impact analysis."
- 5 Q. Now, in KRA's report, they included several 6 tables; correct?
- 7 A. There are many tables in their report, yes.
- 8 Q. And each of those tables, with the exception 9 of these two tables, used similar time 10 periods that LEI modeled -- in other words, 11 five or ten year periods; correct?
  - A. I'd have to get a copy of the report to answer that. But subject to check, I guess I would agree. I'd need to go through and have it in front of me to be satisfied with my answer, but...
  - Q. So as not to waste the Committee's time by going through each one, I'll represent to you that KRA has several tables, starting with Table 7. And it goes through several tables, and they use time frames similar to your time frames. In fact, most of the tables will have your findings and their findings next to it. But at the end of their report you find

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         these two tables, 24 and 25.
1
              Now, this is from Counsel for the
2
         Public's Exhibit 146, and it's Page 75 of
3
         KRA's report. And KRA specifically says,
4
         "The below illustration is not meant to be a
5
         forecast of likely economic" -- "of likely
6
7
         impacts." Do you see that?
8
         I see that sentence, yes.
         That's a little different than how you
9
    Q.
         characterize Table 24; correct?
10
11
                (Witness reviews document.)
         I don't see where it's different.
12
    Α.
                                              I wrote
         that I don't find their aggregate economic
13
         impacts to be believable.
14
15
         You say "economic impact analysis." But they
    Q.
16
         specifically qualified Table 24; correct?
17
    Α.
         I'm not sure I understand your question.
         What do you mean, "they qualified"?
18
19
    Q.
         Well, what I just read to you. They said...
20
         they said that LEI -- no. Wait a minute.
21
         Yeah.
                Thank you. They said, "The below
22
         illustration is not meant to be a forecast of
23
         likely impacts"; correct?
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But I'm not suggesting that they were trying

- to forecast likely impacts. I'm just saying
  that I don't believe these numbers even as an
  illustration.
- Q. Ah, okay. So you go on, then, in your report to criticize KRA for what you say... you say at the top that you criticize KRA for not modeling negative externalities when they did the work for the Vermont project, the Clean Power Link; correct?
- 10 A. Can you find the reference?
- If you look right at the top on your screen, 11 0. you say, "While criticizing LEI for not 12 including certain negative externalities in 13 14 the LEI Original Report, KRA did not model 15 negative externalities like traffic delays, 16 property valuation loss and loss of local 17 business in their study for the New England Clean Power Link Project..." Do you see 18 19 that?
- 20 A. Yes, I see that now. Thank you.
- 21 Q. Now, that project is completely underground; 22 is it not?
- 23 A. That project is underground and underwater.
- 24 Q. Yeah. So that's a little different than the

- Northern Pass Project; correct? 1
- 2 Α. There are some differences. Yes, I would 3 agree.
- The Northern Pass Project has 60 miles of 4 Q. underground construction? 5
- That sounds, subject to check, about right. 6 Α.
- 7 And the Northern Pass Project will involve 0. lane closures throughout that 60 miles of
- underground construction? 9
- I not familiar with the specifics, 10 Α.
- 11 unfortunately, of the details of the
- construction. But subject to check... 12
- You're aware that the Northern Pass Project 13 Q.
- 14 will require some road closures and traffic
- 15 detours?

- 16 I would assume so. Again, I'm not aware of Α.
- 17 the details, but I would assume so.
- You're aware that the construction --18 Q.
- 19 Northern Pass goes through the middle of
- 20 various business districts, such as Plymouth
- 21 or Franconia or Woodstock?
- 22 Yes. Α.
- 23 And the impact of traffic delays on the Q.
- Northern Pass Project is very different than 24

- the project in Vermont; is it not?
- 2 A. Well, again, I'm not familiar with the
- details of the construction of the New
- 4 England Clean Power Link. But my
- 5 understanding is they also have some
- 6 undergrounding along roads of their project
- 7 as well.
- 8 Q. Do you know if it goes through business
- 9 districts?
- 10 A. I'm not sure. I'd have to refresh my memory.
- I haven't looked at that specific project in
- a while.
- 13 Q. And you chided KRA for not addressing
- 14 property valuation loss as part of the Clean
- 15 Power Link Project; correct?
- 16 A. Yes. Property valuation loss is included as
- 17 an example in my sentence.
- 18 Q. And would you agree with me that property
- 19 valuation loss results from visibility of a
- 20 transmission line?
- 21 A. I'm not a property appraiser. I would agree
- that visibility, aesthetics has a potential
- element or criteria in it. But I suspect
- there's other amenity values of being near

- various infrastructure corridors that may or
  may not be a consideration in a property
  appraisal. So --
- Q. Do you know the basis for property valuation loss for a transmission line?

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- A. I am not a property appraiser. So, no, I don't think I would like to speak to that today.
- Okay. So, although you chided KRA for not 9 Q. including negative externalities, such as 10 11 traffic delays and property valuation loss and loss of local businesses in the Vermont 12 project, you really didn't know whether or 13 14 not the Vermont project included or had 15 negative externalities for traffic delays, 16 property valuation loss or loss of business, 17 did you?
  - A. What I did know is that Mr. Kavet, in his testimony before the Vermont Public Service Board on this project, did talk about negative externalities. And so I was -- I think, in fact, if you scroll down, I'm wondering if... no, we don't have the citation here. Oh, we do, actually. I think

Footnote 94.

So I was talking to the information that I do know and the specifics of what Mr. Kavet had sent before the Vermont Public Service Board about the externalities. He did say that they exist, but they're temporary in his opinion and not significant.

8 Q. Okay.

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- 9 A. That's the quote, the next sentence that you didn't have highlighted.
- Q. And then you go on to say, "Perhaps most concerning, KRA did not consider any offset or positive externalities in their aggregate analysis"; correct?
- 15 A. Yes, that's my next paragraph.
- Q. But KRA did in fact consider positive
  externalities in their report; did they not?
- 18 A. They did not use any positive externalities,
- to my knowledge, in Table 24 and Table 25 of their report.
- Q. My question is: Did they consider positive externalities in their report?
- 23 A. I don't recall. I'd have to go back and take 24 a look at my notes.

- Q. Do you recall that -- well, you indicated
  earlier that one of the things you rebutted
  was the fact that KRA included the positive
  externality of payment of property taxes that
  you did not include in your first report;
  correct?
- 7 A. I don't consider property taxes to be an externality, so --
- 9 Q. The payment of property taxes is not a
  10 positive externality?
- 11 A. It's a positive economic benefit. But when I

  12 was talking about externalities, I was

  13 talking about emissions reductions.
- Q. Anything else that you consider positive externalities?
- 16 I would consider positive externalities to Α. 17 the extent that -- I don't know. think a little bit about this. Other effects 18 19 of the Project that aren't, I would say... 20 let me... aren't necessarily related to the 21 direct kind of costs, if you will, of the 22 Project. So the property tax payments, I 23 think of those as consistent with, for

{SEC 2015-06} [Day 13 Morning Session ONLY] {06-08-17}

example, the local spending that needs to be

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done, the economic development funding. I
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- didn't put a label of "positive
- 3 externalities" on those.
- 4 Q. Okay. But KRA included in its report the
- 5 economic impact from payment of property
- taxes and the economic impact from the
- 7 Forward New Hampshire Fund; correct?
- 8 A. Yes, they did.
- 9 Q. Okay. So, Ms. Frayer, I'm going to ask you
- 10 some questions about your analysis of NPT's
- impact on the local economy.
- 12 A. Yes, sir.
- 13 Q. Okay. So what I've put up on the screen is
- 14 Figure 40 from your October 2015 report. And
- 15 this shows -- it's a chart that shows direct
- 16 jobs created by NPT during the planning and
- 17 construction phase in New England. Do you
- 18 see that?
- 19 A. I see it. Yes, sir.
- 20 Q. And you didn't update this since this chart
- 21 was put into part of your Prefiled Testimony;
- 22 correct?
- 23 A. I have not updated it. There is no basis for
- 24 updating. This is inputs to the modeling.

- Okay. So the first category is jobs during 1 Q. planning, 2015. Do you see that? 2
- 3 Yes. Α.

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- And that involves spending that has occurred 4 0. since 2009; is that right? 5
- I believe so. 6 Α.
- 7 Yeah. And most of these funds have already 0. 8 been spent; have they not?
- The premise would be that these funds would 9 Α. 10 have been spent. But again, this was 11 information that we relied upon when we were developing our Original Report in 12 October 2015. I haven't come across any 13 14 updates or anything like that.
- Would you agree with me that, as of this Q. time, June 2017, most of the funds, the vast 16 majority of the funds for planning have been spent?
  - Α. Well, I think this process is continuing for at least a few more months. And I do believe that the funding for this process is generally considered part of the planning So I think a lot of funds have been spent. Do I know if all or some percentage?

- 1 I can't tell you.
- Q. Okay. So if most of the funds have been spent, most of the economic impact on job
- 4 creation would have already occurred; is that
- 5 right?
- 6 A. There is some year-over-year dynamics that
- 7 carry over forward in the REMI PI+ model
- 8 because it's chronological. But I would
- gree with you. If we assume that most of
- 10 the direct jobs have already been
- implemented, then the indirect and induced
- jobs and the additional economic activity
- would have also occurred already.
- 14 Q. All right. So, then, in the construction
- phase we have direct jobs, which are
- 16 essentially construction workers and
- 17 construction services; correct?
- 18 A. Construction-related jobs are the majority.
- 19 I would agree.
- 20 Q. And then you have indirect jobs, which are
- 21 essentially professionals and technical
- 22 service sector; correct?
- 23 A. No, I wouldn't agree. Direct jobs does
- 24 include also --

1 Q. No, indirect jobs.

6

7

- A. And so I'm saying I don't agree. Direct jobs

  could also include engineers and other

  professionals that are necessary for the

  construction phase of the Project.
  - Q. Sure. But indirect jobs includes professionals and technical service sector; correct?
- So indirect jobs, which are not in this 9 Α. 10 figure, by the way -- and I explain this in 11 very detailed form in my report -- would be including jobs that are being created 12 ancillary to the construction of the Project. 13 It's in Footnote 83 on Page 76. I give some 14 15 examples there. So it's basically jobs at 16 businesses that are providing certain goods and services essential to the construction 17 phase. For example, this project's going to 18 19 require quite a lot of specialized services 20 from the logging industry. And to the extent 21 that the companies need to hire a secretary 22 or additional assistant in the office, that 23 wouldn't really be a direct job, being employed on site of the construction of the 24

- 1 Project, but it would be an indirect job.
- Q. Okay. And then induced jobs are things such
- as jobs at restaurants or hotels or the
- 4 healthcare industry; correct?
- 5 A. Yes. It's basically jobs created at a
- 6 variety of other sectors of the economy
- 7 because of the workers on site. They require
- 8 various retail services, health services,
- 9 accommodation services.
- 10 Q. Okay. Now, if you look at your chart, you
- 11 have the construction phase over a four-year
- 12 period. Do you see that?
- 13 A. Yes, sir.
- 14 Q. Now, there's been testimony that construction
- will last 2 to 2-1/2 years. Does your chart
- 16 include some carryover? Is that why it
- 17 includes 4 years? Why does your chart
- 18 include 4 years if construction is going to
- 19 be 2 to 2-1/2 years?
- 20 A. I think there's a ramping-up period for
- 21 construction that, based on the schedule that
- we used to develop these which was provided
- to us by the Applicant, the end of 2016 --
- some construction activities were intended to

- start. It was before the schedule had
  expanded in this siting proceeding. And
  there was a ramp-up. And as you can see,
  even in my chart, 2017 and 2018 have the
  majority of the construction-related direct
  spending.
- Q. Right. So there's a little ramp-up. There's a little at the end. But the majority is going to be in that two-year period.
- 10 A. That is correct.

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- Okay. And do I have it correct that the way 11 0. you counted jobs is, if there's a job in 2016 12 that existed as part of this project in 2016, 13 that would be included in the number 38; if 14 15 that same job still existed in 2017, that 16 would be included in the 2017 number; and if 17 that same job still existed in 2018, that would be in the 2018 number? Do I have that 18 19 right?
  - A. Yes, that's correct. In other words, and that's standard procedure in this industry for this type of analysis. We looked each year discretely at how many jobs were being deployed for construction.

- 1 Q. So what you were looking at is jobs, not
  2 necessarily workers; correct?
- 3 A. It's total jobs per year. And it -- again,
  4 consistent with the Bureau of Labor
- 5 Statistics and how these metrics are modeled.
- Q. Okay. So, for instance, a worker could start in 2016, work the whole four-year period, and that worker would be included in each of those four years, in the numbers for those four years; correct?
- 11 A. Yes.
- 12 Q. Okay.
- 13 A. And that's for the -- that also explains why
- I don't have like a total or cumulative sum.
- What I'm presenting is a construction -- you
- 16 could talk about construction at peak, which
- 17 would have been the 1,249 jobs at
- 18 construction peak, or you should, if you want
- 19 to look at multiple years, talk about an
- average.
- 21 Q. Okay. So you've broken down the workers by
- the six New England states, then you have a
- 23 total. Do you see that?
- 24 A. Yes.

- Q. And do I understand correctly that, if a
  direct job -- if you expect a job to be
  filled, for instance, by somebody from
  Massachusetts, then that person -- that job
  would show up under the Massachusetts column;
- 7 A. Yes. It's geographic-specific at the state level.
- 9 Q. Okay. So would I be correct in saying that
  10 about -- under your chart, it's expected that
  11 about 21 percent of the workers are going to
  12 come from, looks like Massachusetts? About
  13 213 is about 20, 21 percent of 1,006?
- 14 A. Yes, that's correct.

correct?

- 15 Q. All right. And it looks like... and the math
  16 is fairly easy. You can tell it looks like a
  17 little over half of the workers are expected
  18 to come from New Hampshire.
- 19 A. On average, yes.
- Q. On average. Okay. And the other workers are expected to come from outside of New Hampshire.
- 23 A. Yes. Based on the information we received 24 from Eversource, they were budgeting some

- workers from Maine and a few from Connecticut and a few from Vermont.
- Q. Okay. Now, in terms of indirect jobs,

  indirect jobs arise as a result of supplying

  goods and services to the Project's

  suppliers; correct?
- 7 A. Yes.

24

- Q. And most of the supplies from the Project
  will come from out of state; correct?
- 10 A. Well, there's a lot of services that are
  11 being provided within New Hampshire. I'm not
  12 sure what you mean by "supplies." That's a
  13 very, kind of generic word.
- Q. Would you agree with me about 27 percent of the supplies will be sourced in New Hampshire?
- A. So, again, I'm a little bit concerned about your word "supplies." If you go to

  Figure 41, which is on the next page of our report, we talk in the words and terminologies that I'm comfortable talking.

  We talk about labor and material spending.

And I agree that there's very large portion of labor and material spending for the

- Project that's coming from outside New
  England. That's what's documented in
  Figure 41. I don't know if you have a copy
  of that for the ELMO.
- 5 Q. What I'm putting up in front of you, this is
  6 from your October 2015 report, Applicant's
  7 Exhibit 1, Appendix 43. You indicate that
  8 spending on materials is projected to equal
  9 about, almost \$506.7 million, of which almost
  10 27 percent would be spent in New Hampshire.
  11 Do you see that?
- 12 A. Yes, I do.
- 13 Q. Okay.

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- A. And so I use the word "materials." That's

  why I got confused with your earlier question

  about the term "supplies." It was...
  - Q. Okay. What's on the screen now is Counsel for the Public's Exhibit 293, and this is a chart out of, again, your October 2015 report, Applicant's Exhibit 1, Appendix 43.

    And this shows the direct jobs, indirect jobs and induced jobs in the planning and construction phase that we just talked about.

    Do you see that?

```
1 A. Yes, sir.
```

- 2 MR. PAPPAS: I think the
- 3 Committee can review it itself without me
- 4 walking through it.
- 5 BY MR. PAPPAS:
- 6 Q. But essentially what this shows is there's a
- 7 fair amount of direct jobs from New
- 8 Hampshire, there's a modest amount of
- 9 indirect jobs, and then there's an amount of
- 10 induced jobs. But essentially what the
- 11 Project provides is a two-year concentrated
- period where the job impact is the most, and
- 13 then it falls off fairly dramatically. Do
- 14 you see that?
- 15 A. Yes. And this is only with respect to the
- 16 construction phase of the Project because --
- 17 Q. Yeah, it says it right there, "Construction
- 18 Phase."
- 19 A. There's a lot of induced jobs for New
- 20 Hampshire during the operations phase of the
- 21 Project.
- 22 Q. We're getting to that next.
- Okay. So this is... what's on the
- 24 screen is Counsel for the Public's Exhibit

```
1
         294, which is your Figure 49 from your
         October 2015 report, Applicant's Exhibit 1,
2
         Appendix 43. And this shows jobs created by
3
         the operation of the Project that you
4
5
         mentioned just a moment ago; correct?
         This is our estimate from the Original Report
6
7
         about the jobs. Again, total jobs.
8
         direct, indirect and induced, during the
         first 10 years of operation of the Project.
9
         Right. And what it shows is you're
10
    Q.
11
         anticipating a fairly significant amount of
         induced jobs; correct?
12
13
    Α.
         Yes.
         And as the chart shows, you're showing sort
14
    Q.
15
         of a ramp-up of induced jobs and sort of a
16
         ramp-down. And then eventually the induced
17
         jobs, there are no longer new induced jobs;
18
         correct?
```

A. Yes, that is correct. Again, and I can try to explain those if you'd like further to help the Committee understand the --

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Q. I think that they can read your report. I'm just trying to move a little quickly through this.

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So, essentially what we see is for the first six years or so there's the induced jobs or a significant amount of job impact from operations; correct?
```

- A. Yes, and it's because of the electricity
  market impacts that we see most of these
  induced jobs. So this figure, in terms of
  its profile, looks very similar to the
  wholesale electricity market benefits that
  were estimated in another part of my report.
- 11 Q. Now, this is total jobs across New England;
  12 correct?
- 13 A. No, this is just for New Hampshire.
- Q. Oh, yeah, I'm sorry. You're right. I can't read it from here.
- 16 A. The New England is Figure 50, yes.
- Q. That's next. Okay. So these are the total jobs across New England; correct?
- 19 A. Yes.

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Q. Okay. And the Committee can read this on its
own. But essentially what it shows is
there'll be more new jobs created in
Connecticut and Massachusetts, and New
Hampshire would have the third most new jobs;

1 correct?

- A. Yes, and that's consistent with the
  distribution of the electricity market
  impacts that I mentioned a few minutes ago.
- Q. And if I understand correctly, these induced
  jobs, and I think you mentioned a moment ago,
  are the direct result of your forecasted
  reduction in electric rates; correct?
- 9 A. The majority of the total new jobs during the
  10 operations phase are related to the
  11 electricity market impacts.
- 12 Q. And the vast majority, about 90 percent, of
  13 the lower electric rates result from benefits
  14 from wholesale capacity market; correct?
- 15 A. That's correct.
- Q. So the causal link is about 90 percent of the reduced electric rates come from the wholesale capacity markets, and those reductions in electric rates result in increasing induced labor -- induced jobs; correct?
- 22 A. Yes.
- Q. Okay. So, for instance, if NPT does not qualify for the Forward Capacity Auction,

{SEC 2015-06} [Day 13 Morning Session ONLY] {06-08-17}

```
1
         most of these induced jobs will not
         materialize; correct?
2
         I don't agree with your "if" statement.
3
                                                    But
    Α.
         if I take the "if" statement as a
4
         hypothetical, the logic is correct.
5
         And if NPT does not clear, if its offer price
6
    Q.
7
         does not clear in the Forward Capacity
8
         Auction, most of these induced jobs will not
         materialize; correct?
9
10
         Again, I don't believe that the "if"
    Α.
11
         statement is realistic. But on a
         hypothetical basis, the logic connection is
12
13
         correct.
         And if NPT does not qualify and clear 1,000
14
    Q.
15
         megawatts, but only qualifies and clears some
16
         lesser amount, that will reduce the amount of
17
         induced jobs that materialize; correct?
18
         Subject to the same caveats on my answer, the
    Α.
19
         logic of your hypothetical is correct.
20
         Okay.
    Q.
```

{SEC 2015-06} [Day 13 Morning Session ONLY] {06-08-17}

(Discussion off the record)

CHAIRMAN HONIGBERG:

Off the

21

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24

record.

BY MR. PAPPAS:

- Q. If NPT qualifies and clears in the Forward
  Capacity Auction and reduces the clearing
  price in the capacity market, those benefits
  will result in lower revenue for energy
  generators; is that right?
  - A. Like with any competitive supply, when you have a new entrant come in that's competitive and introduces its supply into the market, other existing suppliers will be selling less --
- 11 Q. Yeah, so --
- 12 A. -- energy capacity.
- Q. Okay. So, generators will receive lower revenue if NPT qualifies and clears in the Forward Capacity Market -- Auction; correct?
- 16 A. Yes.

6

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- Q. Okay. Your analysis didn't model the
  economic impact of generators receiving less
  revenue, did it?
- A. My REMI analysis did not consider that. In fact, it's because most of the larger generators, in terms of their flow of funds and income, are outside New England. If the modeling was national or global, then that

1 type of effect would have shown up.

- Q. To the extent that generators in New England receive less revenue because NPT qualifies and clears in the Forward Capacity Auction, that would reduce the amount of induced jobs created; correct?
  - A. Not necessarily. For example, let's take a facility that has corporate owners. There's a number of facilities that have corporate owners outside New England. The shareholders, the corporation, will be receiving less revenues, but the workers will not be getting a pay cut. They will still be getting the same salaries. So when they go home and spend money at their local grocery store or at some local retailer, they'll continue to do so. So I don't agree with that premise.
    - Q. Well, you said "not necessarily." It could happen, it could not happen; correct? You'd have to model and analyze it to determine whether or not it will reduce some of these induced jobs; correct?
    - A. Again, for the logic that I've just

- 1 explained, I don't think it will happen.
- Q. Well, it's possible that generators would

  hire less employees if they had less revenue;

  correct?
- I think anything is possible. But I don't 5 Α. think the impacts we're talking about in my 6 7 modeling, when you delve it down to the individual generator, are going to create the 8 conditions that you're describing in your 9 hypothetical. Most of these facilities are 10 11 already being run with the right level of staffing. And our analysis shows that there 12 aren't any generator retirements as a result 13 14 of Northern Pass's entry into the market. 15 that type of condition you're thinking about, 16 which would happen if a plant retired --17 again, we're not predicting that's the case -- isn't present in our analysis. 18
  - Q. But if your prediction isn't correct and plants retire, then that would reduce the amount of induced jobs created by NPT; correct?

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23 A. I guess in theory and a hypothetical, if a
24 plant were to close down, yes, as a result of

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78
         Northern Pass.
1
2
    Q.
         Okay.
                                      Mr. Chairman, this
3
                         MR. PAPPAS:
         is a good place to break.
4
5
                         CHAIRMAN HONIGBERG:
                                               All right.
         We will take morning break and be back in 15
6
7
         minutes.
8
                (Brief recess taken at 10:42 a.m., and
                the hearing resumed at 11:03 a.m.)
9
10
                         CHAIRMAN HONIGBERG:
                                               All right.
11
         Mr. Pappas, you may continue.
    BY MR. PAPPAS:
12
         Ms. Frayer, I want to ask you questions about
13
14
         your use of the REMI model. Now, to develop
15
         your forecast on jobs, I understand you were
16
         supplied with data from Eversource. Is that
17
         correct?
18
         Yes.
    Α.
19
    Q.
         And one of the things Eversource gave you was
20
         construction cost estimating guides for
21
         hourly rates; is that right?
22
         Eversource provided us with -- yes, with
    Α.
23
         compensation rates. I referred to them as
24
          "compensation rates."
```

- Q. All right. As I understand it, they provided fully loaded wage rates; is that right?
- 3 A. Yes, that's correct.
- Q. And fully loaded wage rates include, in
  addition to wages, benefits such as union
  dues and health benefits and so forth?
- 7 A. That is correct.

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- Q. Did it also include contractors' overhead
  costs and contractors' profit?
- 10 A. Yes, it would -- well, depending on what
  11 category, it could include that.
- 12 Q. Okay. Now, what I'm putting up on the screen
  13 is Counsel for the Public's Exhibit 296. And
  14 this is Table 3 from KRA's report, which is
  15 Counsel for the Public's Exhibit 146. And
  16 this table shows different workers and wage
  17 rates that you used in -- the wage rates for
  18 different workers. Do you see that?
  - A. So what I see that refers to our inputs would be the light yellow columns, or the columns that have the heading row in light yellow,

    "LEI Category, LEI Annual Compensation"
    numbers.
  - Q. And these were the annual compensation

- numbers you used to input into the REMI model to do your analysis?
- 3 A. Yes, that is correct.

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- Q. Okay. Now, would you agree with me that the REMI model already counts for things such as union dues, contractors' overhead and contractors' profit?
- 8 A. Depending on how one uses the REMI model, it
  9 may or may not incorporate that. So the way
  10 that we had used the compensation data was
  11 internally consistent with a particular form
  12 of policy variables that we used which
  13 wouldn't double-count for any of those.
- Q. Another way of saying that is did you turn
  off certain things in the REMI model to avoid
  double-counting?
  - A. It's not a question of turning off. It's a question of selecting the units of the metric or policy variable you're using. For example, if you will, I can explain it to the Committee in a little bit more detail the differences between the middle columns and, for example, the REMI categories. It's a very, I think, straightforward, intuitive

```
1
         difference.
                       The REMI categories are
2
         essentially looking at maybe what I would say
         is a typical salary paid to a worker in this
3
         particular industry category; whereas, our
4
5
         compensation rates are looking at what
         Northern Pass, in this instance, would be
6
7
         spending on services provided by workers
8
         within a typical industry category.
         example, the invoiced amounts for Legal and
9
10
         Expert Witnesses, for Communications,
11
         Community and Legislative Outreach and so
         forth, it's the services that they're paying
12
         for that then go back and affect the economy.
13
         And the REMI model is flexible to use
14
15
         either/or.
16
         So if you look at the first category, which
17
         is Legal and Expert Witnesses, do you see
18
         that?
19
    Α.
         Yes, I do.
20
         And on the right it has what you used for
21
         annual compensation; correct? Is that what
22
         you used for annual compensation?
```

The figures that are listed in the two

columns under "LEI Compensation"?

23

- 1 Q. Yes.
- 2 A. Yes.
- 3 Q. Okay. And that's per person?
- 4 A. That's essentially a per-job --
- 5 Q. Per job?
- 6 A. -- per-job element.
- 7 Q. So that's the figure you used for annual
- 8 compensation per job.
- 9 A. Basically for the services paid by Northern
- 10 Pass for services over the course of a year
- from that category of Labor; so, for a team
- of legal experts providing those services
- over the course of a year.
- 14 Q. "Per job," does that mean one person filling
- 15 that job?
- 16 A. Well, actually, the total job definition, and
- 18 specific to FTE, part-time, seasonal worker.
- 19 It's a concept, a job. And a job doesn't
- 20 have to be a single individual. It --
- 21 Q. So some jobs may be a single individual and
- 22 some jobs may not?
- 23 A. It's a composite.
- Q. Do you break that out, in terms of which jobs

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- 1 you use composites and which jobs you
  2 considered single individual?
- 3 A. No, and we don't need to in REMI.
- Q. And as I understand it, you inputted your
  labor rates in order to determine essentially
  the impact on Gross State Product or Gross
  Domestic Product; correct?
- 8 A. We would have inputted compensation rates and
  9 the actual dollar spending. The two in
  10 combination work through the model to
  11 determine then the economic activity impacts
  12 and, of course, employment impacts.
- Q. Okay. So you also obtained from Eversource the value for materials required for the Project; correct?
- 16 A. Yes. We had a full budget, and the full
  17 budget incorporated labor and non-labor
  18 expenses.
- Q. And those are the two inputs you used in the REMI model.
- 21 A. Let me make sure I don't mistakenly answer
  22 the question. There's actually, I would say,
  23 multiple, more than two. On the labor side,
  24 we would need compensation, but we would also

- need dollar spending on labor. The two have to go hand-in-hand. So that's already two
- inputs. And then, of course, there's also
- 4 non-labor spending, materials spending, and
- 5 that has its own input fields in the REMI PI+
- 6 model.
- 7 Q. In the REMI model, did you use the General 8 Construction category for materials?
- 9 A. Yes, I believe we did.
- 10 Q. And the General Construction category
- includes a number of types of construction;
- 12 correct?
- 13 A. Yes. It's an aggregate industry sector.
- 14 Q. It includes, for instance, transmission
- 15 lines; correct?
- 16 A. A variety of different constructions, yes.
- 17 Q. It includes construction such as office
- buildings, warehouses, retail stores,
- 19 residential buildings; correct?
- 20 A. Yes, although I think we used a subcategory
- of the Construction sector that wasn't
- 22 including residential; so it was
- 23 non-residential construction.
- 24 Q. Okay. And as I understand it, the REMI

Construction sector includes purchases of 1 2 things such as plumbing and glazing and mill work and roofing insulation, things that go 3 into commercial office buildings or 4 5 warehouses and so forth; correct? It incorporate a number of different services 6 Α. 7 that would be demanded as part of a construction project, if that's the question. 8 And those include purchases such as plumbing, 9 Q. glazing and mill work and roofing and 10 insulation and so forth; correct? 11 Those include a variety of different services 12 Α. and different materials for those services. 13 Right. And the materials I just listed are 14 Q. 15 some of the materials included; correct? 16 Yes. Α. 17 Q. Okay. Now, those types of materials -plumbing, glazing, mill work, roofing -- are 18 19 not needed for a transmission line, are they? 20 No, those aren't, but other construction Α. 21 materials are. But the Construction sector that you used in 22 REMI includes spending for those types of 23

materials; does it not?

- 1 A. It includes spending for a variety of materials.
- 3 Q. Including the ones I just listed; correct?
- A. Yes. And the Project clearly requires
  spending on materials in the Construction
  sector. We didn't have within the REMI model
  the ability to focus just on the Construction
  sector for transmission. We focused on the
  broader Construction sector, Industry
  category.
- 11 Q. So the REMI model includes these additional
  12 purchases as part of its Construction sector
  13 that are not needed for a transmission line;
  14 correct?
- A. I wouldn't describe it that way. The REMI
  model incorporates a representation of the
  General Construction sector, and we focused
  on non-residential. But it doesn't break it
  down further.

20

21

22

- Q. Would you agree with me that adding purchases of this additional material would distort the number of induced jobs or the increase in the Gross Domestic Product?
- 24 A. No, I would not agree because I'm not telling

- the model to purchase insulation or glazing. 1 2 I'm telling the model that there is spending done for various materials that may be needed 3 as part of construction of the line. And I 4 5 know the dollar amounts of that spending. Ι can't direct the model to specify which 6 7 individual subsectors. But the model isn't 8 doing that 'cause it's higher. It's more 9 aggregate.
- Q. Let me ask you some questions about the
  payment of business income taxes that you
  included in your April 2017 report.

First of all, what state business income taxes are you referring to?

- 15 A. This would be the business income taxes
  16 payable by the Project.
- 17 Q. What are they?
- 18 A. I'm not sure I understand your question.
- Q. Can you name me the state business income tax payable by the Project?
- 21 A. I don't think I have a specific category of 22 the tax code for New Hampshire, if that's 23 what you're recommending -- or suggesting.
- Q. Do you know the specific state business

- income tax that you included in your report?
- 2 A. I relied, as I suggested earlier, and
- 3 coordinated with Dr. Lisa Shapiro. So I --
- 4 Q. So the answer is you don't know yourself.
- 5 A. I'm not sure I can provide you with the
- 6 nomenclature for that business income tax.
- 7 Q. Do you know the tax rate?
- 8 A. No, I don't know it, off the top of my head.
- 9 Q. Do you know what income is taxed?
- 10 A. I am not familiar with those calculations,
- but I'm pretty sure Mrs. Shapiro -- Dr.
- 12 Shapiro can help you.
- 13 Q. Okay. When you use the REMI model, you
- simulated the operation of NPT to determine
- the increase in jobs and the increase in
- 16 Gross Domestic Product, correct, for the
- 17 operational phase?
- 18 A. Yes, that's correct.
- 19 Q. Okay. And one of the things you simulated
- was a gain in utility employment; is that
- 21 right?
- 22 A. Yes. The Project expects to make
- 23 expenditures over the course of the
- operations of the line for operations and

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maintenance of the line. And the labor
component of that was simulated through
direct utility employment. It's a very small
number, but...
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- Q. And the REMI model estimates the economic effect of a change in utility employment;
  correct?
- 8 A. Can you repeat your question?

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9 Q. Sure. The REMI model will estimate the
10 economic effect from a change in employment
11 resulting from -- let me back it up.

12 You estimated the change in employment
13 from operations of the plant; correct?

- A. I estimated that approximately -- there would be approximately two jobs per annum related to the operations and maintenance of Northern Pass, and that was included in the operations period impacts.
- Q. Okay. And you also -- and so the REMI model
  then estimated the economic change from that;
  correct?
  - A. The REMI model would then look at those, and if it was done in isolation, let's just argue for the sake of clarity those two jobs, and

- say, okay, what other sectors of the economy
  may be impacted by those two new jobs.
- Q. And you also, as part of estimating the impact of business income taxes, estimated the increase of employment as a result of NPT; correct?
- 7 A. The business income taxes were modeled as payments made by Northern Pass.
- 9 Q. And when the REMI model estimates the
  10 economic effect of change in employment, does
  11 the REMI model implicitly estimate the
  12 payment of business taxes along with that
  13 change of employment?
- A. I'm not sure -- I think I'm going to have to
  ask you to repeat the question again. I'm
  not following the words.
- Q. Okay. So the REMI model, in order -- I'll back up.
- One of your inputs into the REMI model
  is a change in employment; right? New
  employment; correct?
- 22 A. Yes.
- 23 Q. Okay.
- 24 A. And in the operations phase, it's related to

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1 the O&M spending.

- Q. And the REMI model then estimates the

  economic impact of that change in employment;

  correct?
- A. Yes. So the two new jobs, those new jobs

  would be able to expand local retail

  services, housing and so forth in their

  incremental nature.
  - Q. And when the REMI model makes that estimation of the economic effect, does it implicitly include the payment of business income taxes?
  - A. It may or may not, depending on how you model that employment. And if I can also -- the way that we modeled business income taxes is it was a spending, a funding by Northern Pass. But essentially the policy variable we used to model business income taxes is the state government spending. So the state government received those business income taxes and then can spend on various programs.
  - Q. But my question is: The REMI model also implicitly includes an estimation for business income taxes; does it not?
  - A. It depends on how you model it, whether you

- put it in as industry sales or whether you put it in as jobs. We put it in as jobs.
- Q. And when you put it in as jobs, does the model assume that taxes will be paid?
- 5 A. When we put it in as jobs, there are some
  6 assumptions of taxes, but I don't believe
  7 business income taxes.
- 8 Q. So when you input it as jobs, it then -- the 9 REMI model then estimates the spending by the 10 utility; correct?
- 11 A. Yes.
- Q. Yeah. And when the model then estimates the spending by utility, it includes the payment of business taxes; does it not?
- A. No. The business taxes are being paid on income received by the utility, not expenses.
- Q. But doesn't the REMI model implicitly include
  the payment of business taxes when it does
  this modeling?
- 20 A. Depends on how you model it. The REMI PI+
  21 model is very flexible. You can model, for
  22 example, spending on a particular type of
  23 labor as industry sales or as jobs. And
  24 depending on how you choose to model it in

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the model, it may or may not include other,
what I would call "indirect demand effects"
on other elements of the economy. We chose
to model it, just for clarity, as incremental
utility jobs.
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- Q. Now, your forecast predicts the retirement of four New Hampshire carbon-emitting plants in 2021; correct?
- 9 A. Sorry. Repeat the question. Our model --
- Q. Your forecast predicts the retirement of four

  New Hampshire carbon-emitting plants in 2021;

  correct?
- 13 A. In the Updated Analysis, our modeling in the
  14 Base Case without Northern Pass predicted
  15 some retirements. I believe going beyond
  16 that, it gets us into confidential data.
- 17 Q. Okay. If I ask you about the Project Case,
  18 is that going to get into that confidential
  19 information in terms of retirement, without
  20 identifying specific plants?
- 21 A. Please go ahead and ask.
- Q. Okay. Your Project Case also includes the retirement of four New Hampshire plants;

  correct?

- So the way I like to actually just for Α. the sake of clarity state this, our Project Case has the same plants retiring that we would expect to retire even in a world without Northern Pass. So the same plants are exiting the market. We don't have any incremental or new retirements of any kind across New England as a result of Northern Pass.
  - Q. Okay. So when you -- as part of estimating the impact on the payment of business income taxes, did you account for the retirement of these four New Hampshire plants? For instance, did you remove the business income taxes they would have paid?

A. We didn't have to because we're trying to capture the differences between the Base Case and the Project Case. In order to do that, we would have to adjust what we call the "REMI baseline," which is a default set of inputs that the REMI PI+ model comes with.

And it would have resulted in the same exact numbers that we're presenting in our report.

Our entire analysis, be that the economic

analysis, the electricity markets analysis,

it's always looking between two states of

world: A world without NPT, the Base Case,

and a world with NPT. So if we change some

assumptions that equally affect both states

of the world, it would have no impact on the

results we're presenting.

- Q. So did you remove the effect of these four plants retiring when you did your analysis for the payment of business income taxes?
- 11 A. No, we did not. And again, because we're
  12 representing here the incremental, it's not
  13 necessary to do so.
- 14 Q. Well --

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- 15 A. We're not presenting a forecast of future GDP

  16 levels. What we're presenting is how does

  17 this project affect GDP. And as I said,

  18 those four plants retiring aren't caused or a

  19 consequence of Northern Pass.
  - Q. Would you agree with me that ultimately customers pay business income taxes as part of the electric rates? In other words, what they pay in electric rates goes to the utility, and that's the revenue from which

- utilities pay things such as business income
  taxes?
- A. I would agree that electric rates, absolute
  rates revenues that are received by utilities
  do include accounting for taxes. But I don't
  believe that's necessarily one-to-one because
  we have unregulated activities in the sector
  that don't necessarily flow through
  dollar-for-dollar.
- 10 Q. Now, Counsel for the Public's local economic
  11 experts, KRA, also used the REMI modeling in
  12 this proceeding; correct?
- 13 A. Yes, that's my understanding.

- Q. Yeah. And they also estimated different impacts from NPT as LEI did; correct?
- 16 A. Yes, they looked at the local economic

  17 impacts. They created their own estimates of

  18 the local economic impacts.
- 19 Q. And they -- in order to estimate, for
  20 instance, the jobs created, they, like you,
  21 used an input of the reduction in electricity
  22 rates, correct, the benefit -- essentially
  23 the benefit from the wholesale market?
  - A. Yes, I believe they did use that, among other

things in their analysis.

- Q. Would you agree with me that the major
  difference between your estimate of job
  creation and KRA's estimate of job creation
  is that you used in your modeling what you
  thought would be the benefits, the wholesale
  benefits from NPT, and KRA used benefits that
  - A. So, just to be clear that I understood, we're talking about electricity -- the economic impacts, local economic impacts associated from electricity market effects which would only -- we're talking about the operations period; is that correct?
- Q. Correct. We're not talking about construction. We're talking about operations, yes.

the Brattle Group estimated?

A. I believe there are actually two reasons why
the numbers differ. One of them is that my
understanding is KRA relied on a particular
scenario and a particular set of results from
Brattle Group's analysis. But there's also
another area that is combined in what they
call "electricity market effects," and it's

their own assumption, KRA's own assumption 1 2 that they made regarding certain plant closures that wasn't modeled or predicted by 3 Brattle Group's analysis. 4

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Q.

Okay. Would you agree with me that the major Q. difference, the driver of the difference between what LEI forecasted for job creation -- and again we're in the operations section -- and what KRA forecasted was that KRA used Brattle's estimate of wholesale benefits, and you used LEI's estimate of wholesale benefits? That's the major difference. The second part had some effect, but the major difference was you used your estimates of wholesale market benefits and KRA used an estimate from the Brattle Group.

(Witness reviews document.)

I don't know if it's possible to ask, but you Α. had an exhibit earlier that had Table 24 from KRA's report. If it's possible to put it up on the screen, that would help me in answering the question. And I apologize. I just don't have it readily available, so... Is this what you'd like to look at, at that

table?

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2 Yes, because you were asking about jobs; right? And this table is showing KRA's jobs 3 impacts. And they have something called 4 "electricity market effects," which is I 5 believe what you're asking about, if they're 6 7 the majority of the number. We can kind of 8 almost ignore all the other rows. But this is -- the second column, 2020 to 2030, is an 9 overlapping time period with our original 10 11 analysis for the electricity market effects. They have 131 jobs here. There's also 12 another table earlier in this report that 13 14 talks about the same category and presents a 15 slightly different number to this, which I 16 believe is 263 jobs. And I think that just 17 gives you a feel for the magnitude of the difference between those is that second 18 element that I described, the assumptions 19 20 made with respect to retirements of certain 21 plants.

New Hampshire, I would say the two effects
I'm talking about that differ between LEI's

So I think that, in fact, probably for

analysis and KRA's analysis is not just the difference in electricity market benefits, but also this assumption of the jobs lost, essentially, that comes from a hypothetical assumption KRA makes around certain plant closures that neither LEI nor Brattle Group are predicting.

So I wouldn't agree with the word
"majority," which is part of your question,
that the majority is all related to
differences in electricity market benefits.
No. I think another important reason is this
particular assumption KRA made in their
analysis that we don't agree with.

- Q. Did you analyze how much was out of one component -- one item and how much is out of another? Have you done that analysis?
- A. So we did part of the analysis where we analyzed what would happen with and without those additional retirements, and that's in my Rebuttal Testimony -- sorry -- the April 2017 report, and it's documented on Page 50.
- Q. Okay.

- 1 A. It starts on Page 49, of course, but 2 continues to Page 50.
- Q. So now I want to ask you some questions about increased Gross Domestic Product, or in the Battle Group -- I mean KRA, they call it "Gross State Product." That's the same item.

Now what's on the screen is Figure 48 from your October 2015 report which we separately marked as CFP Exhibit 298. And it shows your estimated increase in state GDP in New Hampshire and the rest of New England during the construction phase. Do you see that?

14 A. Yes, I do.

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- Q. Okay. And you estimated that -- as we saw in your prior chart, you have an estimate for increased GDP during the planning phase. Do you see that?
- 19 A. Yes.
- Q. And would you agree with me that, as of today, probably most of those impacts have already occurred?
- A. With the same reservation I had earlier today, yes, I would agree with that.

- Q. And then you show the impact during the four years that you estimate for construction.

  And as before, we see a small impact on the ramp-up, if you will, a much greater impact for the two years of construction and then a small impact on the ramp-down side. Do you see that?
- 8 A. Yes.

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- 9 Q. Okay. Now, would you agree with me that
  10 if -- and you probably don't disagree with
  11 the "if." But if you'd agree with me that if
  12 you inputted excessive wage rates for the
  13 construction part, that would have an impact
  14 on what you're estimating for Gross Domestic
  15 Product?
  - A. I would only agree to that if I was somehow modeling an impact where the wage rates themselves only changed without considering also the spending. So as I mentioned earlier, the dollar spending and the wage rates go hand-in-hand.
  - Q. Well, for instance, if the wage rates were actually lower than you used, you'd expect the spending to be lower, wouldn't it?

- 1 But that's not the case. We had inputs on Α. 2 spending dollars, wage rates dollars per job, and that dictated number of jobs. 3 just change one, of course it distorts 4 But we would never have done that 5 things. because it doesn't make sense in the context 6 7 of how this project impacts the economy. 8 It's the two that go hand-in-hand.
- 9 So if your wage rates were incorrectly Q. higher, and your spending on materials was 10 11 greater than actual, if the two items were 12 greater in your model than actual, that would then have an impact on your estimated GDP 13 14 increase during construction, correct, 15 because those are the two items you just 16 identified?
  - A. Well, it depends on how much each is off. So
    I don't know if I can answer the question.
    The model is looking at compensation. The
    model is looking at -- and you had a table
    earlier -- direct jobs. Direct jobs is an
    input, but it's an input that's a function of
    the compensation rate and the dollar
    spending. So if your, let's say, dollar

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spending was high by 10 percent and your compensation rates were high by 10 percent, then when you divide one by the other, you get to the same number of total jobs. Might not make a big impact. I think it depends on the combination of inputs that are going into the modeling.

- Q. We're talking about Gross Domestic Product here, not jobs.
- Yes, but the jobs, the direct jobs, is what Α. actually then drives economic activity. Direct jobs leads to indirect jobs, leads to induced jobs and expansion of the sectors directly impacted, but also expansion of other sectors indirectly impacted. that's what drives GDP, or GSP as you call it.
  - Q. So would you agree with the basic premise
    that if you inputted a higher, fully loaded
    wage rate than actual, and if you inputted
    more material spending than actual, that
    would have an impact on your estimate of GDP
    during the construction phase, in the sense
    that it would -- your estimate would be

- 1 higher than if you'd used the lower figures?
- 2 A. I'm not sure I understand your hypothetical.
- If you're inputting wrong data into the
- 4 model, you get wrong results. I'm confident
- 5 that we did not input wrong data into the
- 6 model.
- 7 Q. I understand you've expressed your
- 8 confidence. That's not what I'm asking
- about. I'm asking about if you put the wrong
- 10 data in, the wrong results come; correct?
- 11 A. I would say that about any model.
- 12 Q. Okay. And if you put -- if the wage rates
- and the construction material spending was
- 14 too high, this estimate of GDP would be too
- 15 high; correct?
- 16 A. In the hypothetical world, if you had wrong
- 17 numbers to put in, yes, and they were too
- 18 high, then you'd be over-estimating the
- economic benefits of a hypothetical project.
- 20 O. Okay. So what's on the screen now is Counsel
- 21 for the Public's Exhibit 299, which is
- Figure 41 -- Figure 51 from your October 2015
- report. And this is an estimate of annual
- GDP during the first 11 years of operation of

- 1 NPT. Do you see that?
- 2 A. Yes, I do.
- 3 Q. Okay. Now, you estimated an increase in GDP
- for the six New England states, and the New
- 5 England average is \$1,156,000. Do you see
- 6 that?
- 7 A. Yes, I do.
- 8 Q. And you estimate the New Hampshire average is
- 9 \$162 million per year. Do you see that?
- 10 A. Yes, I do.
- 11 Q. And my math tells me -- I should say my
- 12 calculator tells me that New Hampshire's
- share is about 14 percent of the New England
- 14 average.
- 15 A. Yes.
- 16 Q. Okay.
- 17 A. That's correct. Or subject to check. But
- that sounds in the ballpark.
- 19 Q. All right. Now, would you also agree with me
- that most of the GDP is a result of lower
- 21 retail electric rates?
- 22 A. Yes, that is correct. In our analysis, most
- of the GDP impacts during commercial
- operations as estimated is being driven by

- 1 electricity market impacts.
- Q. And the vast majority of lower retail
  electric rates, almost 90 percent, come from
  the wholesale capacity market benefits;
  correct?
- 6 A. That is correct.

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- Q. So if NPT does not qualify for the Forward
  Capacity Auction, the projected increase in
  GDP that you're showing on this figure will
  not occur; correct? Or the vast majority of
  it will not occur.
  - A. I don't agree with the "if" statement because that's not what our modeling showed. But I would agree with the logic that the capacity market benefits, the wholesale capacity market benefits are essentially driving the regional economic benefits we're seeing in my modeling.
  - Q. And the same applies if NPT's offer price does not clear in the Forward Capacity

    Auction. The projected increase in GDP that you're showing will not occur; correct?
- 23 A. Yes. In this hypothetical you're presenting, 24 that's correct.

- So in terms of NPT's impact on Gross Domestic 1 Q. 2 Product, we saw in the earlier slide the impact for a few years during construction, 3 and then on this we see the impact for the 4 first eleven years during operation. Would 5 you agree with me that, unless NPT qualifies 6 and clears in the Forward Capacity Auction, 7 the estimated economic benefits, in terms of 8 GDP for this project, are pretty much limited 9 to the impact from construction? 10
  - A. I would agree under that hypothetical.

    You're basically saying if there's no

    project, there's no benefits, and I would

    agree with that.

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- Q. No, I'm saying if there's a project, but you don't realize the wholesale benefits, the wholesale market benefits by clearing and qualifying in the Forward Capacity Auction, essentially what you get is a two-year bump in GDP from construction.
- 21 A. Well, for New Hampshire -- let's step back.
- Q. Wait a minute. Please answer my question first and then you're free to explain.
  - A. So your question -- can you repeat that so I

1 make sure I precisely answer it?

- Q. Sure. Unless NPT qualifies and clears in the
  Forward Capacity Auction, the only benefit to
  New Hampshire's GDP is essentially a two-year
  bump during construction.
- I don't agree. If your hypothetical holds 6 7 that New Hampshire -- sorry -- that Northern 8 Pass does not clear and does not qualify in the capacity market benefit, in my mind, at 9 least in my personal professional view, 10 11 that's equivalent to no project. You're basically creating a hypothetical where the 12 Project doesn't get any capacity revenues. 13
- Q. Do you think this project will go forward if it gets no capacity revenues?
- 16 A. I think the capacity revenues are an important element of the Project.
- 18 Q. Do you think this project will go forward
  19 without them?
- 20 A. I can't speak for the Project management. I
  21 don't know what their decision --
- Q. Do you think the economics of the Project
  make sense if they don't receive capacity
  revenue?

A. I think the capacity revenues are an important part of the Project, based on my projections. But there might be other commercial arrangements that I'm not aware of.

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- Q. Based on what you're aware of, does this project make economic sense without receiving capacity revenue?
- This project... maybe the way I need to 9 Α. 10 answer this is I haven't evaluated this 11 project without capacity market revenues. I've evaluated this project on the basis of 12 my forecast which does show that it should be 13 14 able to clear and qualify and clear the 15 capacity market. And on that basis, the 16 Project, on my numbers, looks very economic.
  - Q. So, because you haven't evaluated the Project on the basis of it not clearing and qualifying in the Forward Capacity Auction, if the Project does not clear and qualify in the Forward Capacity Auction, the Committee really should simply disregard your analysis because you didn't analyze that scenario; correct?

- I didn't analyze that scenario because I 1 Α. don't think it's realistic or probable. 2 project is a new supply source, very 3 competitive, a type of project that even the 4 ISO has said they're seeking, that they're 5 interested in having join their market. 6 all parameters that I've looked at, this 7 8 project should clear -- should qualify, first of all, and then should clear in the capacity 9 market. 10
- 11 Q. That's the basis upon which you did your analysis; correct?
- A. It is. That is -- I won't say it's the basis. It's the results of my analysis.
- 15 Q. That was an assumption that you made as part of your analysis; correct?
- A. It's an assumption that we started with. And then we tested, and we showed that there should be no problems qualifying the Project or clearing the capacity market based on our projections.

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Q. Okay. And you started with that assumption because you felt that the Project didn't really make economic sense unless it received

capacity revenue; correct? 1

- 2 No, that's not correct. I started with that assumption because, to me, it was 3 self-evident that this is a source of 4 competitive supply that will be able to 5 compete in these markets. 6
- 7 So, before you did your analysis, you really, 0. 8 in your mind, had concluded that this project would qualify and clear in the Forward 9 10 Capacity Auction, correct, and then your 11 analysis simply corroborated what your opinion was? 12
- Our analysis looked at the market rules, 13 Α. looked at the market fundamentals and 14 15 conditions, and concluded that this project 16 would be able to participate in the capacity 17 market.
- But you had made that conclusion at the 18 Q. 19 start, and your analysis corroborated your 20 conclusion; is that right?

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I don't know if I would say I made the conclusion that it would create these benefits. I made the conclusion that it is a 24 competitive source of supply that should be

- able to qualify and clear, subject to all the technical requirements that go along with it, and then we did analysis to show that that intuition is in fact correct.
- Ms. Frayer, what I'm showing you now on the 5 Q. screen is Counsel for the Public's 6 7 Exhibit 263. And this is Figure 1 from I believe your April 2017 report, which I think 8 is Exhibit 102. Now, this shows the 9 10 difference between your October 2015 analysis 11 and your updated February 2017 analysis. 12 you see that?
- 13 A. Yes, I see the figure.
- Q. And in October 2015 you had forecasted total
  wholesale market benefits of \$81 million to
  \$82.5 million; correct?
- A. That's correct. Can I just make a

  correction? I just want to make sure

  everybody knows. This figure is from my

  Updated Analysis issued in February and then

  with some revisions reissued in March. This

  isn't from our April 2017 report.
- 23 Q. Okay. So this is from your March report.
- 24 A. Yes, just to make sure everybody's on the

- same page.
- 2 Q. Thank you. And your October 2015 analysis
- forecasted \$79.6 to \$80 million of benefits
- from the capacity market; correct?
- 5 A. That is correct.
- 6 Q. And when you did your updated forecast, the
- 7 total wholesale market benefits you estimated
- 8 at \$61.6 million. Do you see that?
- 9 A. Yes.
- 10 Q. That's about 25 percent less wholesale market
- 11 benefits; correct?
- 12 A. Yes.
- 13 Q. Now, you indicated earlier that the wholesale
- 14 market benefits drive the decrease in
- 15 electric rates; correct?
- 16 A. Yes.
- 17 Q. Yeah. And the local economic benefits, once
- 18 NPT begins operations, are a function of the
- 19 wholesale electric market cost savings for
- 20 ratepayers; correct?
- 21 A. Consistent with our Original Report, they're
- the biggest driver of local economic benefits
- across the region. They're not the only
- driver for New Hampshire, but they're the

- 1 biggest.
- 2 Q. They're about 90 percent, aren't they?
- 3 A. Yes, they're a large share.
- 4 Q. Okay. And you had estimated that the
- 5 lower -- the local economic benefits once NPT
- 6 begins operation would result in Gross
- 7 Domestic Product of \$162 million per year on
- 8 average. Do you remember that?
- 9 A. I can find it. But subject to check, I'm
- assuming that you've captured the spirit of
- my analysis.
- 12 Q. I think I wrote it down correctly, but you're
- 13 welcome to check it.
- 14 And you also had estimated that, on
- average, the job increase would be 1,148 jobs
- 16 for New Hampshire.
- 17 A. That's correct.
- 18 Q. Okay. Now, since you now in your update had
- 19 forecast a decrease in wholesale electric
- 20 market benefits, you would expect a
- 21 corresponding decrease in the local economic
- benefits from operations of NPT; correct?
- 23 A. Yes. Again, for New Hampshire, the
- 24 electricity market effects aren't the only

- driver, but they're the majority of the driver.
- 3 Q. And you forecasted 25 percent decrease in the 4 amount of wholesale market benefits; right?
- 5 A. Correct.
- Q. So you would expect a corresponding
  percent decrease in the amount of
  electricity rate savings; correct?
- 9 A. That's approximately correct.
- 10 Q. And you'd also expect a corresponding
  11 25 percent decrease in the forecasted local
  12 economic benefits; would you not?
- It's going to be a little bit more -- I'm 13 Α. 14 sorry -- a little bit less than 25 percent 15 because, again, New Hampshire gets the 16 benefit of some other drivers of economic 17 activity, like the New Hampshire Forward Plan and the O&M spending by the Project and, you 18 know, as estimated by KRA and then ourselves 19 20 in the rebuttal, property taxes and so forth. 21 But it is in that range.
- 22 Q. It is in that range; correct?
- 23 A. Yes.
- 24 Q. All right. So, would -- also in that range

- would be a decrease in the estimated GDP
  increase and a decrease in the estimated job
  increase, correct, because those are the two
  economic, local economic benefits that you
  measured?
- A. Those local economic benefits, jobs and GDP,
  do go generally hand-in-hand. There are some
  differences. But in the scale of things, we
  would expect somewhat lower GDP benefits as
  well because of the lower electricity market
  benefits.
- 12 Q. Okay. Now, when you did your October 2015
  13 report, you did not discuss any economic
  14 benefit from NPT's payment of property taxes;
  15 correct?
- 16 A. We didn't include it in the REMI modeling.

  17 We acknowledged that they are an economic

  18 benefit, but we conservatively didn't include

  19 it in the REMI modeling.
- Q. And you have since estimated those impacts;correct?
- A. We have since, as part of the Rebuttal
  Testimony, incorporated an estimate of what
  those property tax benefits, which we

- recognized even originally, what those could do to the local economy through local government spending.
- Q. Right. So be fair to say that your estimate is no longer conservative in that respect, correct, because you didn't do it because you were being conservative. But now that you do it, that's no longer conservative.
- 9 A. The reason that we are doing it, in fact, is
  10 as part of a rebuttal to the analysis that
  11 KRA performed. We felt they did it
  12 incorrectly. So, to the extent that the
  13 Committee would like to see what that means,
  14 we wanted them to have access to correct
  15 numbers.
- Q. And that would no longer be considered conservative; correct?
- A. I think we were still in some ways perhaps
  conservative in the treatment that we
  assigned how we modeled it. But the number
  is definitely higher. It's not zero as it
  was in the original analysis.
  - Q. Now, you originally didn't discuss economic benefits from property taxes because you

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- thought all property tax payments would go to debt reduction and therefore not impact GDP; correct?
- A. I didn't say that's what I thought. I said
  they could. In fact, if you go to
  Footnote 79 on Page 72 of our Original
  Report, that pretty clearly spells out our
  views on property taxes in the original
- 10 Q. But you indicated that you thought all
  11 property tax payments would go to debt
  12 reduction; correct?

analysis.

- 13 A. No. I said they could go to pay off existing
  14 debt, and under that situation they would
  15 likely not generate additional economic
  16 activity.
- 17 Q. Okay.

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- A. I also went on to state that they could
  plausibly also be deployed to expand
  government spending, in which case they would
  positively affect the New Hampshire economy.
  - Q. Now, in your Supplemental Report, in estimating or forecasting the economic impact from the payment of property taxes, what

amount of tax revenue did you assume
municipalities would spend?

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(Witness reviews document.)

- A. We assumed that... subject to check, but we assumed that all of the estimated property tax revenues that Dr. Shapiro projected would be used, but for local government spending, and that's described on Page 69 of my Appendix C to the Supplemental Rebuttal Report.
- 11 Q. And by assuming that all of those property
  12 taxes would be spent by the local
  13 governments, that produces the most impact on
  14 the economy; correct? Can't get any more
  15 than spending 100 percent.
- 16 Well, you could spend 100 percent on other. 17 You could be very specific on what the local government spends it on, and there could be 18 19 bigger multiplier effects. We didn't go that 20 far. We didn't want to predict specific 21 projects that the local government would take 22 So we just used the generic local 23 government spending policy variable.
  - Q. And KRA, in its analysis, assumed that the

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- local government would spend 50 percent of
  the tax payments and apply 50 percent to debt
  reduction; correct?
- A. Subject to check, I think that sounds

  correct. I'd have to go back and take a

  look.
- 7 Q. And that approach would be a more 8 conservative approach than assuming that the 9 local government would spend 100 percent of 10 the taxes on new spending; correct?
- 11 A. Their number was lower than the number we estimated. So I can verify that.
- Q. That approach would be a more conservative approach; would it not?
- 15 A. I believe there were flaws in their approach.
- Q. My question is: Assuming that the local
  government spent 50 percent on spending and
  used 50 percent for debt reduction is a more
  conservative approach than assuming the local
  government spent 100 percent on spending;
  correct?
- 22 A. It results in a lower economic impact, yes.
- Q. Now, this project includes 60 miles of underground construction; is that correct?

- 1 A. Yes, that sounds right.
- 2 Q. Let me ask it this way: You indicated
- 3 earlier that you're not familiar with the
- 4 specifics of construction of this
- transmission line; is that right?
- A. With the specific schedules and how they plan
- 7 to stage it, I'm not familiar with that, no.
- 8 Q. And are you familiar with where the line goes
- 9 underground?
- 10 A. Very generally. I know that it does.
- 11 Q. And are you familiar -- are you aware that as
- 12 part of the underground construction there
- 13 will be lane closures and some road closures
- 14 and some traffic detours?
- 15 A. I would assume that there would have to be
- 16 some traffic detours for the period of time
- 17 that construction is occurring in a
- 18 particular location.
- 19 Q. Okay. And you're aware that all the
- 20 underground construction is north of
- 21 Bridgewater, New Hampshire?
- 22 A. That is now getting into geographical
- specificity that I might not be able to
- 24 confirm.

- Q. Okay. Are you aware that all of the underground construction activity occurs in an area that is highly dependent on the tourism industry?
- 5 A. I have read that that is the -- I believe I
  6 read that assertion in the report KRA put
  7 together, but I haven't independently
  8 confirmed that.
- 9 Q. Okay. Would I be correct in saying that you did not factor into your analysis any disruption to businesses in New Hampshire during the 2-1/2 years of construction?

- A. I would somewhat disagree with that statement. Northern Pass has retained experts that are more knowledgeable on those issues, like construction-related disruptions. And I have spoken to those experts to elicit their expert opinion on the impacts. And on the basis of the information they provided, in my Supplemental Report I made the conclusion that there would be no substantial lasting effects.
- Q. When you did your October 2015 report, had you spoken to any of the other experts that

- 1 you just referred to?
- 2 A. We had spoken to them, yes.
- 3 Q. Who did you speak to?
- A. I would have not spoken to them face-to-face,

  but we spoke with -- through the counsel to

  identify whether there were other issues that

  we had to take into account.
- 8 Q. Did you learn in October of 2015 whether or 9 not the construction would have an impact on 10 New Hampshire businesses during the two-year 11 construction period?
- What I learned in October is that there would 12 be no significant long impacts that needed to 13 14 be considered. Very high level and 15 generally. I think everybody understands 16 there are temporary effects. But, for 17 example, with business traffic, a temporary effect may mean -- and I think I write this 18 19 up in my Supplemental Testimony -- that there 20 may be reduced traffic in one town and 21 increased traffic in a neighboring town that 22 might have the same services that it could 23 offer to customers. So, since our analysis, 24 our REMI analysis is really at the state

- level, we don't go down to the locality, the
  county. We're keeping everything at the
  state level. We did not conclude that there
  was a measurable net negative.
- Q. At the time you did your October 2015 report, had you read the reports of any of the other experts in this case?
- 8 A. I personally did not read them. I relied on summaries provided to me by counsel.
- 10 Q. And you haven't changed your local economic forecast since October 2015; correct?
- A. We did not update the local economic benefits
  associated with construction -- there is no
  basis for it -- or the electricity market
  effects during the operations period.
- Q. And you didn't yourself do any analysis to
  determine whether or not the 2- to 2-1/2-year
  construction period would have an adverse
  impact on local businesses along the 60-mile
  underground route, did you?
  - A. I did not personally do any type of traffic, construction analysis, tourism analysis. No, I did not.
- Q. Or any analysis on the impact of businesses

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- along the 60-mile underground route; isn't that right?
- A. I reviewed the conclusions and analysis of other experts to form my conclusions. But when we talk "analysis," it's such a broad term. So I didn't do any other number crunching or other quantitative analysis on those issues.
- 9 Q. Did you assume that there would be no adverse
  10 impact to businesses along the 60-mile route
  11 during the 2- to 2-1/2-year construction
  12 period?
- A. I assumed that for New Hampshire state as a whole there would be no adverse impacts, yes.
- Q. So if businesses along the 60-mile
  underground route suffered adverse business
  consequences, a reduction in their business
  by some factor, that would affect your
  conclusions on state GDP during construction;
  correct?

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A. Hypothetically, yes. But we heard even last week from the construction panel that in fact some of those local businesses might see a boom during construction, if in fact

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- Eversource is going to give out vouchers for housing and local bed and breakfast inns and use of local restaurants. So there's ways to mitigate that.
- 5 Q. But you're not -- you didn't do any analysis
  6 to determine whether there's impact or
  7 whether there's mitigation or what the net
  8 effect is. You simply didn't do that
  9 analysis, did you?
- 10 A. I concluded --
- 11 Q. Did you do --

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- 12 A. -- on a statewide basis that there was zero
  13 measurable impact. That's the conclusion in
  14 my report.
- Q. No. Did you do any analysis to determine
  whether -- what the negative impact would be
  and whether there would be any positive
  mitigation? Did you do that analysis?
  - A. To the extent that you're speaking

    "analysis," as in doing quantitative

    estimates, no. But I listened to what other

    experts had stated and information about the

    Project to come to the conclusion of a zero

    effect.

- Q. And you listened to that after you issued your October 2015 report; correct?
- A. No, there was some information even available to me as part of discussions with counsel.

  Again, no independent number crunching, in case you're going to ask again. But I was
- 7 informed by the opinion of other experts.
- Q. And did any of those other experts give you
   any specific information about the impact on
   local businesses? Specific information.
- 11 A. I can't recall.

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- Q. All right. Now, you stated in your

  October 2015 report that you conservatively

  only considered 10 years of economic

  development spending; correct?
  - A. I believe in our report what we state is that we used the REMI model to only model the first, I think it's actually first 11 years of operations. And therefore, the local economic spending that was scheduled to happen within those 11 years was incorporated into our model.
  - Q. And you considered that a conservative approach; correct?

- A. Well, my understanding is, for example, the

  New Hampshire Forward Plan will continue to

  fund activities in New Hampshire well beyond

  the first 11 years of operations of the

  Project. So, yes, I considered it in that

  regard to be conservative.
- Q. And in your April 2017 report, you now include the full 20 years of economic development spending; correct?
- 10 A. I only include it as a form of rebuttal
  11 against the specific tables that KRA has
  12 included.
- Q. So that's no longer a conservative approach;

  correct?
- A. No. I think the point wasn't to make a less conservative assumption. The point was to correct for errors in KRA's analysis.
- 18 Q. Now, the REMI model has a category for adjusting for capital stock; correct?
- 20 A. Yes, it does dynamically consider capital stock.
- Q. And adjusting for capital stock has a negative impact from displacement of investment?

- 1 A. It could have a negative impact. And over
  2 the longer term it could have a positive
  3 impact as well because the investment made
  4 before the transmission infrastructure
  5 actually spurs its own set of investments in
  6 other infrastructure. So it depends on what
  7 time frame you're talking about.
- 8 Q. But LEI did not make the adjustment for 9 capital stock; correct?
- 10 A. We did not make an adjustment for capital stock.
- Q. And had you done so, there would have been some negative impact certainly in the short term; correct?
- A. And some positive impact in the longer term,
  which neutralizes each other over an average
  net present value basis.
- 18 Q. You didn't do that analysis, did you?

- A. We did not originally do that analysis. We looked at that criticism as raised by KRA and did the calculation and confirmed that it's immaterial, as documented in my April 2017 Supplemental Report.
  - Q. Right. But you didn't include that in your

- 1 October 2015 report; correct?
- 2 A. We did not.

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- Q. Yeah. Now, in your April 2017 report, you added several positive externalities or positive impacts; correct?
- A. We added consideration of some additional positive impacts. And the use of the word "externality," we incorporated one specific positive externality related to carbon emissions reductions.
- 11 Q. So you added things like the payment of
  12 property taxes and the payment of business
  13 income taxes and the additional 10 years of
  14 spending on economic development and effect
  15 from reduction of carbon emissions and so
  16 forth. Did you consider any negative factors
  17 in your 2017 report?
  - A. So, the specific elements that you are referring to are being -- were considered and documented in our April 2017 report to specifically rebut and address concerns we had in KRA's analysis that was released at the end of 2016 and insights we gathered regarding KRA's and Brattle's opinion on

certain things during the technical hearings.

So -- and I apologize. I'm dragging on a

little bit.

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But to answer your specific question, what we wanted to do was to take a look at Table 24 and 25 in KRA's analysis, which had a number of different categories. And in our view, it had a lot of negative impacts, but really not a comprehensive discussion of both negative and positive. So we got back together and thought through what a comprehensive, aggregate picture would look like. And in doing so, we did again reach out to other experts that could provide input, their professional input on categories of negative impacts that KRA considered. we did consider them, and in our analysis we determined that they should be documented with a zero-dollar impact for the state.

Q. So let me -- I'm going to ask you some questions about your estimating the impact from the reduction in carbon emissions. All right?

Now, you indicated earlier you used the

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REMI PI+ model to estimate the economic

consequences from reduced carbon emissions;

correct?
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- 4 A. Yes, that's correct.
- Q. Had you used the REMI model to do that before?
- 7 A. Not in the context of Northern Pass, no.
- 8 Q. No. In any other case, had you used the REMI
  9 PI+ model to estimate the economic
  10 consequences of reduced carbon emissions?
- 11 A. We had used the REMI model to do something
  12 similar, although it wasn't just focused on
  13 carbon emissions, in another project.
- 14 Q. Okay. One other project?

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15 A. One other project comes quickly to mind.

We've looked at also the methodology which we employed to represent the suggested approach of the Brattle Group to this issue. It's actually not specific to just carbon emissions. It's looking at implications on cost to consumers in the alternative but for this project and the carbon emissions that it produces. And we've used that methodology in other projects. Many other projects.

- Q. Yeah, but I'm talking about your use of the 1 REMI PI+ model to specifically estimate the 2 economic consequences of reduced carbon 3 emissions. And what I just heard is you 4 5 haven't used it on another case specifically, but you used something like it in one other 6 7 Is that right? case.
- 8 A. No, that's not correct, not completely
  9 correct. Just to clarify, there are two
  10 approaches that we documented --
- 11 Q. I'm interested in your use of the REMI PI+
  12 model, not the other approach.
- 13 A. No, the two approaches are both related to
  14 the use in the REMI PI+ model. One approach
  15 which uses the amenity policy variable we
  16 hadn't used in other projects for this
  17 purpose --
- 18 Q. You had not.
- 19 A. We had not.
- 20 Q. Okay.
- 21 A. The other approach which uses the REMI model
  22 and is geared specifically over the detailed
  23 projections that Brattle Group put forward in
  24 their December report we have used in other

- cases. We decided to present both because,
- in fact, the amenity value approach produces
- a lower, more conservative value. So we
- 4 wanted the Committee to have the value of
- 5 both approaches to review.
- Q. And the amenity approach you used here was
- 7 the first time you did that; correct?
- 8 A. It's the first time we've applied it to
- g carbon emissions, yes.
- 10 Q. Okay. Now, am I correct that the theory is
- that people will choose to migrate from one
- 12 region to another region based on some
- 13 variables? Correct?
- 14 A. The amenity approach is basically looking at
- 15 demographic changes in response to quality of
- life, essentially. It's proxying for quality
- of life considerations.
- 18 Q. And in order to do this analysis, you have to
- input certain things for these quality of
- 20 life factors; correct?
- 21 A. Yes.
- 22 Q. So tell me what you used to input for the
- 23 quality of life factors.
- 24 A. We had estimated the social cost of carbon --

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we had estimated what the incremental social value to the New England region, including New Hampshire, would be from the carbon emissions reductions based on the social cost of carbon. The social cost of carbon is measuring society's, or at least a particular maybe stakeholder portion, but society's view on what the social value is to reducing carbon. We took those dollar amounts and used that as our adjustment factor in the amenity policy variable which gets represented through compensation to attract population to New England, because if New England is responsible for reducing carbon, at least one segment of the population will appreciate that and get attracted to come and live in New England. That's the theory behind the amenity value.

- Q. So is that the only dollar input you used in the amenity value was your estimated social cost of carbon?
- A. My estimates of what the incremental social cost of carbon is for New England region, yes. And that's just the amenity approach.

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The approach using Brattle Group's
methodology is a little bit different in
terms of how it flows through the REMI model.
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- Q. Yeah, let's stick with one approach at a time.
- 6 CHAIRMAN HONIGBERG: Off the 7 record.
- 8 (Discussion off the record)
- 9 BY MR. PAPPAS:

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- 10 Q. So, Ms. Frayer, on the screen in front of you

  I have Page 47 of your April 2017 report,

  which is Applicant's Exhibit 102. And in the

  text, as well as in Footnote 96, you talk

  about the non-pecuniary amenity aspects. Do

  you see that?
- 16 A. Yes.
- 17 Q. What amount did you use in the REMI model?
- 18 A. So, essentially, if you go back to our
- 19 March 2017 Updated Analysis, you will see in
- there a description, depending on the
- 21 scenarios selected, there's a range -- again,
- I can't name the numbers because they're
- 23 confidential -- but a range of incremental
- social benefits to the New England region per

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year. Just for the sake of discussion, if we
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         pick a number -- let's say the number for the
         New England region was $200 million in a
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         particular year. We would then distribute
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         that $200 million across the New England
         states as a quality of life adjustment, pro
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         rata to the population of the states, to then
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         attract, essentially serve as a way to
         attract additional labor force to the
9
         economy. And as you do that, because you're
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11
         attracting additional labor force, you're
12
         basically giving a bump-up in economic
13
         activity.
         So you had to input a number; correct?
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- 14
- 15 Yes. Α.
- 16 And the number is found in your March report?
- 17 Α. Yes.

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You don't have to do it now, but I'd ask you 18 19 at a break, because it's confidential, just 20 to identify for me that number, okay. Make a 21 note, okay. Thank you.

Now, you also indicate in your report that "proxies for observed regional distinctions." Do you recall that?

(Witness reviews document.)

- You mean in the context of describing the 2 Α. amenity value policy variable? 3
- It's on Page 47. You talk about 4 0. "proxies for observed regional distinctions." 5
  - Yup, that's a description in some ways to Α. explain how REMI, in order to estimate this effect in their model, because they need to be able to reflect this, they use statistical and economic data to estimate this amenity value.
- That's something in the REMI model. 12 Q. not something you inputted. 13
- 14 Α. Exactly.

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- 15 All right. And then you talk about how the Q. 16 population values quality of life. Was that 17 input that you used, or was that in the REMI model? 18
- Α. Again, that's a description of what the amenity value is representing. But in terms of the actual amenity value variable, REMI estimated all the components to it, and we 23 simply used that policy variable in order to simulate the impact. We're not talking about 24

- 1 huge numbers here, just to kind of clarify.
- 2 Under the various different estimates of
- 3 region-wide social benefits from reducing
- 4 carbon emissions for New Hampshire, for
- 5 example, it was a range of about 5 to 37 jobs
- per annum.
- 7 Q. I understand. But I need to find out what
- you used to do it. Well, let me -- well...
- 9 Did you input into the REMI model any
- demographics of the labor force?
- 11 A. No, we used all the baseline assumptions that
- were part of the REMI model.
- 13 Q. Did you input any participation rates?
- 14 A. Excuse me?
- 15 Q. Did you input something known as
- 16 "participation rates"?
- 17 A. As related to the labor force?
- 18 Q. Correct.
- 19 A. Again, we used all the same default sets of
- assumptions for the baseline projections in
- 21 the REMI PI+ model.
- 22 Q. Would that include compensation rates or any
- change in compensation rates?
- 24 A. The only change in compensation rates we made

- were related to the construction period, as
- we discussed earlier today, not for the
- 3 operations period.
- 4 Q. Okay. But did you make those changes as part
- of analyzing the effect from reduced carbon
- 6 emissions?
- 7 A. No.
- 8 Q. All right.
- 9 A. That's a different time frame of the model.
- 10 Q. Yeah, I'm sticking strictly on the carbon
- 11 emissions analysis.
- 12 A. Thank you for clarifying.
- 13 Q. How about impact on housing costs? Did you
- 14 input any figures for that?
- 15 A. No.
- 16 (Pause in proceedings)
- 17 Q. In your use of the amenity variable in the
- 18 REMI model, did you input any non-monetary
- 19 inputs?
- 20 A. Essentially we had to effect in the
- 21 modeling -- so the short answer to your
- question is no. We basically modeled it
- through a change in real compensation to
- 24 attract a migration of certain individuals to

the labor force in the region.

- Q. Okay. Did you make any assumptions when using the amenity variable? For instance, assume any change in population, assume any change in government output, private output and so forth?
- 7 A. The model simulates that.
- Q. Okay. So you didn't make -- change anyassumptions of the model.
- So the whole point of the REMI PI+ model 10 Α. 11 is that it's a dynamic computer general equilibrium of the economy. So if you change 12 one aspect of the economy -- in this case, we 13 14 were enticing migration of labor force 15 population to the region -- it would then 16 assume knock-off effects throughout the 17 economy, ripple effects throughout the 18 economy as necessary.
- Q. So, essentially what you did was input an increase in wages, and the model then estimated the impact of that.
- A. Well, we used the amenity value which assumes
  a change in real compensation in order to
  attract migration to the region to represent

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that relative perspective on quality of life.
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         So, essentially what you did is you took the
         value you calculated for -- I'll use your
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         social cost of carbon -- and put that into
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         the model. The model then determines the
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         change in compensation and determines the
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         attraction of additional workers to then
         increase the jobs. Is that essentially how
8
         that works?
9
         Yes. So, basically it takes the dollars of
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11
         social value and converts that into, based on
         the amenity value principles that the model
12
         itself has calculated, how much additional
13
14
         migration it expects from that additional
         social value.
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16
    Q.
         Okay.
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                         CHAIRMAN HONIGBERG:
                                              We're going
         to take our lunch break in just a second.
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19
         Pappas, you have more to do after lunch?
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                         MR. PAPPAS:
                                      I do indeed.
21
                         CHAIRMAN HONIGBERG:
                                              How much,
22
         just as a ballpark, do you think?
23
                         MR. PAPPAS: I'm probably going
         to take the better part of the afternoon.
24
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## 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
Licensed Shorthand Court Reporter
Registered Professional Reporter
N.H. LCR No. 44 (RSA 310-A:173)

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