1   STATE OF NEW HAMPSHIRE
                  SITE EVALUATION
2

3

4   October 11, 2017 - 9:06 a.m.   DAY 45
    49 Donovan Street   MORNING Session ONLY
5   Concord, New Hampshire

6   {Electronically filed with SEC on 10-25-17}

7

                 IN RE: SEC DOCKET NO. 2015-06
8   Joint Application of Northern
                          Pass Transmission, LLC, and
9   Public Service Company of
                          New Hampshire d/b/a Eversource
10   Energy for a Certificate
                          of Site and Facility.
11   (Hearing on the merits)

12

    PRESENT FOR SUBCOMMITTEE/SITE EVALUATION COMMITTEE:
13 Chrmn. Martin P. Honigberg Public Utilities Comm.
    (Presiding as Presiding Officer)

14

    Cmsr. Kathryn M. Bailey   Public Utilities Comm.
15 Dir. Craig Wright, Designee Dept. of Environ. Serv.
    Christopher Way, Designee   Dept. of Resources &
16   Economic Development
    William Oldenburg, Designee Dept. of Transportation
17 Patricia Weathersby   Public Member

18

19 ALSO PRESENT FOR THE SEC:
    Michael J. Iacopino, Esq., Counsel to the SEC
20 (Brennan, Caron, Lenehan & Iacopino)

21 Pamela G. Monroe, SEC Administrator

22   (No Appearances Taken)

23   COURT REPORTER: Susan J. Robidas, NH LCR No. 44

24

1   I N D E X

2

3   WITNESS PANEL: THOMAS E. KAVET

4   NICOLAS ROCKLER

5

6

14

15

16

17

18

19

20

21

22

23

24

{SEC 2015-06}[Day 45 MORNING Session ONLY]{10-11-17}

1   I N D E X (CONT'D)

2   EXHIBITS   DESCRIPTION   PAGE

3

24

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

 1   P R O C E E D I N G S

 2   CHAIRMAN HONIGBERG: Good

 3   morning, everyone. We're here for Day 45. I

 4   understand that Mr. Raff has no questions for

 5   the panel. So, Mr. Needleman, you're up.

 6   MR. NEEDLEMAN: Thank you.

 7   CROSS-EXAMINATION

 8 BY MR. NEEDLEMAN:

 9 Q.   Mr. Kavet and Mr. Rockler, good morning.

10   We've met before. My name's Barry Needleman.

11   I represent the Applicant here. I'm not

12   really sure who will be the right person to

13   answer most of my questions, so I'll let the

14   two of you decide that. I would just remind

15   you to please wait until I'm done asking the

16   question before you answer so we can get a

17   clean transcript.

18   I want to start off by talking about

19   your analysis of market impact. I'm going to

20   make frequent reference to your supplemental

21   report, which is CFP Exhibit 148.

22   MR. NEEDLEMAN: So I will ask

23   Dawn to call up Page 42 of that report,

24   please.

1 BY MR. NEEDLEMAN:

2 Q.   A couple of points that you make here with

3   respect to these electricity market benefits

4   on Page 42. You say, "They boost disposable

5   income for households and reallocate consumer

6   expenditures away from electricity purchases

7   and towards goods and services that generally

8   have higher local content"; is that right?

9 A.   (Kavet) That's correct.

10 Q.   Lower costs for businesses, which in turn add

11   to corporate income?

12 A.   (Kavet) Yes.

13 Q.   And if sustained over time, they encourage

14   greater business growth by making regional

15   businesses more competitive.

16 A.   (Kavet) Yes.

17 Q.   Now, you also say on Page 42 that these

18   benefits are included in your economic model

19   in much the same way that LEI included them

20   in its original analysis, with similar

21   beneficial effects; is that right?

22 A.   (Kavet) That's correct.

23 Q.   But you go on to say, "However, we assume a

24   supply response to the introduction of

1   lower-priced power that will likely displace

2   existing power generation"; right?

3   A.   (Kavet) That's correct.

4   Q.   So in that respect you're different from LEI

5   because they assumed plant retirements in

6   their base case; whereas, you are assuming

7   that plants will retire because of the

8   introduction of Northern Pass; correct?

9   A.   (Kavet) It's really more a question of how it

10   gets entered into the REMI model. So there

11   were no entries into the REMI model that LEI

12   did that had any kind of retirements, even

13   though in their price analysis they were

14   assuming, and it wasn't explicit, but I, as

15   you suggest, assumed that there were some

16   retirement to that. But when you put a price

17   effect into the REMI model, the REMI model

18   doesn't know why that's happening. It

19   doesn't know that you're importing power from

20   outside or if the local producers are

21   becoming more efficient. So it's a question

22   of what you tell the REMI model is happening.

23   And if you don't tell it power's coming in

24   from outside and that could affect and

1   displace some power that's generated locally,

2   then the model wouldn't know that and

3   wouldn't take it into account. So it's more

4   a REMI -- what gets entered into the REMI

5   model that's different.

6 Q. Okay. I can come back to this in a second.

7   But it's clear, though, that you didn't use

8   LEI's numbers here for purposes of your

9   analysis. You actually used Brattle's

10   numbers; right?

11 A. (Kavet) That's right. It was a method that

12   was similar.

13 Q. Right. And I think that was what you

14   referred to as Brattle Scenario 2 for the

15   electricity market impacts; right?

16 A. (Kavet) Well, we used all -- I mean, we

17   presented a range of Brattle scenarios, and

18   we chose one for purposes of example, which

19   was kind of a middle of the road one, which

20   was No. 2.

21 Q. Right. And I think you said at the tech

22   session that you didn't presume Scenario 2 as

23   a likely outcome; you just picked it because

24   it was a midpoint. Right?

1   A.   (Kavet) It was a reasonable midpoint among

2   the ones that Brattle had presented. That's

3   right.

4   Q.   And in fact, in their report, and we don't

5   need to go to it unless you'd like to, but in

6   Exhibit 144, Page 45, Brattle said the same

7   thing. They said, "In spite of all of the

8   above, we do not believe it is reasonable to

9   assign specific numeric probabilities to any

10   of our four scenarios." So you and Brattle

11   agree on this; right?

12 A.   (Kavet) Yes. We got this information from

13   Brattle, so that's what we -- we took that as

14   a given.

15 Q.   Okay. And this Scenario 2 analysis is what

16   you include in your aggregated analysis of

17   New Hampshire economic impacts on Tables 24

18   and 25; correct?

19 A.   (Kavet) Yes.

20 Q.   And so it's Scenario 2, really, that assumes

21   that as a consequence of Northern Pass coming

22   online, 500 megawatts will be displaced;

23   right?

24 A.   (Kavet) All of the scenarios that we analyzed

1   had that assumption.

2 Q.   Right. Including Scenario 2.

3 A.   (Kavet) That's right.

4 Q.   And conversely, it also has to assume that if

5   NPT did not come online or simply wasn't

6   built, that those 500 megawatts would not be

7   displaced.

8 A.   (Kavet) That's correct.

9 Q.   Okay. So I want to look for a minute at

10   these four scenarios. So let's go to

11   Table 24 of your report. This shows your

12   aggregated analysis for economic impacts out

13   to 2060; correct?

14 A.   (Kavet) No, that was actually one of the

15   three pages that was replaced with CFP

16   014276. That's the number at the bottom of

17   the page of three replacement pages that in

18   the last session we introduced. So there are

19   minor differences, none of the electricity

20   market effect page. But just so you have the

21   latest one up, that should be the page you --

22   it's Exhibit 148A, I think.

23 Q.   Okay. Fair point. And I'm not sure I can

24   get to it quickly. I'm also not sure, for

1   purposes of the questions I have, that it

2   will matter. But if it does, you tell me.

3 A.   (Kavet) Okay.

4   MR. NEEDLEMAN: So, Dawn, this

5   is Page 76 of their report. Can we go back

6   to Page 75 for a minute?

7 BY MR. NEEDLEMAN:

8 Q.   So in that third paragraph of Page 75 -- I

9   think it's the third paragraph -- yeah, you

10   say, "The below table illustrates the

11   enormous beneficial employment impacts of the

12   initial project construction expenditures,

13   followed by Forward NH Plan spending and

14   sizable property tax payments"; correct?

15 A.   (Kavet) That's correct.

16 Q.   So that "below table" you're referring to are

17   the tables we just looked at, the substituted

18   versions.

19 A.   (Kavet) That's correct.

20 Q.   And in those tables -- and again, let's go

21   back to them. And if the numbers are not

22   correct, you'll tell me. For the period 2020

23   to 2030, you had 131 jobs created.

24 A.   (Kavet) For the electricity market effects,

1   yes.

2 Q.   Right. And then beginning in 2030 you have a

3   net loss in employment; correct?

4 A.   (Kavet) That's correct.

5 Q.   And you model those negative effects on

6   employment beginning in that time period

7   because of these assumed plant closures;

8   correct?

9 A.   (Kavet) No, that's only one part of it.

10   There's a supply response that's in the REMI

11   model as well. If you look at LEI's analysis

12   in their Figure 14 on Page 56 of their

13   rebuttal report, they have a larger negative

14   number over that same period than we do; they

15   have a minus 252. So part of that's a big

16   part of what's happening in the REMI model

17   with the supply response, not necessarily the

18   loss of the output locally.

19 A.   (Rockler) And our retirements don't start

20   until 2022. They don't start in 2030 and

21   beyond. They actually -- the retirements

22   begin in 2022.

23 Q.   But going back to what we talked about a

24   moment ago in the base case, your point, or

1   the Scenario 2 assumes that, but for the

2   construction of Northern Pass, these plant

3   closures wouldn't happen; correct?

4   A.   (Kavet) It's more how it's entered into the

5   REMI model. That's what this is about.

6   We're saying there are plant closures that

7   the REMI model doesn't know is happening in

8   association with the price reductions that

9   cause the benefit. So you're having that

10   much less power being generated locally. And

11   even that's not plant closures. We're saying

12   half of those are mothballed, so they retain

13   most of their employment, and half are

14   closed.

15   Q.   But again, I think we're confusing how you

16   put it into the REMI model with the

17   underlying assumption. And the underlying

18   assumption in Scenario 2, as we talked about

19   a moment ago, is that if Northern Pass comes

20   online, because of that, 500 megawatts

21   somewhere will be displaced.

22   A.   (Kavet) A thousand, yeah.

23   Q.   I think you said for Scenario 2 it was 500.

24   A.   (Kavet) Five hundred are mothballed and 500

```
 1        are closed --

 2   Q.   Okay.

 3   A.   (Kavet) -- in Scenario 2 and all the

 4        scenarios.

 5   Q.   And you actually say on Page 75 of your

 6        report, in the middle of the fourth

 7        paragraph, "The displaced regional electric

 8        generation supply response also persists

 9        indefinitely."

10   A.   (Kavet) That's correct.

11   A.   (Rockler) Yeah.

12   Q.   So this is a combination of the plant

13        closures and what you're calling the "supply

14        response."

15   A.   (Kavet) That's right.

16   Q.   Okay.  So I want to pull up Applicant's

17        Exhibit 300.  And I'll actually ask that it

18        be put side by side with Table 11 from your

19        report.

20            Table 11 in your report is your

21        explanation of the supposed electric

22        generating facilities that according to ISO

23        are "at risk" plants; is that correct?

24   A.   (Kavet) This was a list that Brattle provided
```

    1   us of plants that they felt were most

    2   vulnerable to closure from displaced energy

    3   that would be coming from imports.

    4   Q. And Applicant's Exhibit 300 is that same

    5   list. And what we're looking at here is what

    6   the age of those plants would be in 2060 if

    7   they remained online. Do you see that?

    8   A. (Kavet) Okay. Yes.

    9   Q. And so under Scenario 2, because you assume

   10   that Northern Pass causes the closure or the

   11   mothballing of plants, you can't say which

   12   specific plants will be closed or mothballed,

   13   but it's reasonable to conclude that it would

   14   be some of the "at risk" plants that you've

   15   identified; correct?

   16   A. (Kavet) Well, that's right. But understand

   17   that in the REMI model, the assumption when

   18   you go out that long is that there will be

   19   new plants built. So in the baseline,

   20   they're not only assuming there's a churning

   21   of capital stock, but there will be new

   22   plants built. So this could be displacing

   23   new plants built, existing plants that are

   24   there now. Now, the assumption is the older

1   the plant or the less efficient it is or

2   whatever, those would be going first. But we

3   can't guess what those are. But the REMI

4   model otherwise will assume you're going to

5   keep building new plants. And that won't

6   happen when you're bringing the power in from

7   outside. The power's produced in Canada, and

8   there's employment in Canada associated with

9   the production of that power and that won't

10   be produced in New England, and so you have

11   to tell the model that; it doesn't know that

12   otherwise.

13 Q. Understood. But again, for purposes of

14   Scenario 2, because you were assuming

15   Northern Pass would cause plants to close,

16   and you acknowledged earlier that without

17   Northern Pass the plants would stay open, the

18   assumption is that all these "at risk" plants

19   would stay open.

20 A. (Kavet) No, it's not -- we're not saying all

21   those plants would stay open. We're saying

22   initially some of those plants would be

23   staying open, but also some plants wouldn't

24   get built that REMI otherwise would be

1   assuming would happen, or expanded or

2   whatever, as a result of having lower-priced

3   power coming in from outside that has no

4   employment associated with the generation of

5   that power.

6 A.   (Rockler) And the baseline forecast from REMI

7   implicitly includes historical rates of

8   retirement and historical rates of

9   replacement.

10 Q.   So when you show negative employment numbers

11   on Table 24 in the electricity market, you

12   are ascribing those negative employment

13   numbers to Northern Pass as a consequence of

14   the supply displacement and the plant

15   displacement.

16 A.   (Kavet) It's the REMI model --

17 A.   (Rockler) It's combined.

18   (Court Reporter interrupts.)

19 A.   (Kavet) Sorry.

20 Q.   Right. But it's because of Northern Pass.

21   That's what Scenario 2 says.

22 A.   (Kavet) Yes.

23 A.   (Rockler) Yes.

24 A.   (Kavet) And I would say that LEI, as I said,

1   and with that same period of time, they shift

2   it back one year as a minus 252 for

3   employment. We have a minus 192. So we have

4   less, actually, with the way it ended up

5   being modeled than they do for that same

6   period. It's the same -- but yes, it's the

7   model saying the same thing.

8 Q.   Got it. So let's go to Page 76 of your

9   report and look again at Tables 24 and 25.

10   So while we're calling those up, it's

11   correct that you modeled the aggregated

12   economic impacts of the Project out to 2060;

13   correct?

14 A.   (Kavet) We used that -- yes, we modeled it

15   out to 2060 as a -- to show an example of the

16   sort of thing that might happen with various

17   assumptions.

18 Q.   In fact, it's not just electricity market

19   impacts, but you looked at tourism impacts

20   and other economic impacts --

21 A.   (Kavet) That's right.

22 Q.   -- after 2060; is that correct?

23 A.   (Kavet) Yes.

24 Q.   Now, I take it that you're familiar with the

```
 1        New England Clean Power Link Project?
 2   A.   (Kavet) We are.
 3   Q.   In fact, Mr. Whitley, the other day when he
 4        was asking you about your background, asked
 5        whether you had worked on any other linear
 6        and transmission line projects, and you
 7        didn't mention this project.  That was an
 8        oversight, wasn't it?
 9   A.   (Kavet) It was.  Nick mentioned right
10        afterwards, he said, "Yeah, that's a linear
11        power line, even if it's undergrounded."
12        Yeah.
13   Q.   So this is the Vermont TDI Project, right,
14        the one that's partly underwater in Lake
15        Champlain and then partly underground through
16        state roads in Vermont?
17   A.   (Kavet) Yes.
18   Q.   And this project is also a 1090-megawatt
19        transmission line; right?
20   A.   (Kavet) That's right.
21   Q.   And it's roughly 98 miles underwater and
22        about 58 miles underground; right?
23   A.   (Kavet) That's right.  Roughly, yeah.
24   Q.   And if it were constructed, it would also
```

1   import Canadian hydropower into the New

2   England electric market; right?

3   A. (Kavet) That's right.

4   Q. And it also had a bid into the Massachusetts

5   RFP; correct?

6   A. (Kavet) That's correct.

7   Q. And that project also went through a siting

8   proceeding in Vermont; right?

9   A. (Kavet) That's correct.

10 Q. And you provided expert testimony in that

11   siting proceeding; is that correct?

12 A. (Kavet) Yes.

13 Q. And one of the topics you testified on was

14   regional and state economic benefits during

15   construction and operation, and electricity

16   market benefits; right?

17 A. (Kavet) Yes.

18 A. (Rockler) Right.

19 Q. So I want to call up Page 12 of that

20   testimony. This is Applicant's 301. Is that

21   your testimony?

22 A. (Kavet) Yes.

23 Q. So I'm looking at 301, Page 12. And it's

24   that first response that we want to

1   highlight. And in this response you say, "We

2   aggregated economic impacts associated with

3   the Project into two relevant time periods:

4   A construction phase between 2016 and 2018

5   and an initial 10-year operational period

6   between 2019 and 2028." And then you say,

7   "Although not presented in this analysis,

8   economic impacts beyond 2028 are more

9   uncertain, but likely to continue to be

10   positive and of comparable magnitude, for an

11   indefinite period of time." Do you see that?

12   A.   (Kavet) Yes.

13   Q.   So in that case you were testifying on behalf

14   of the Project; correct?

15   A.   (Kavet) Yes.

16   Q.   And your opinion was that predicting economic

17   impacts beyond 10 years was uncertain;

18   correct?

19   A.   (Kavet) Yes.

20   Q.   But in this case, where you have an

21   assessment of economic impacts beyond 10

22   years in essentially identical circumstances,

23   you're comfortable predicting those impacts

24   out beyond 10 years; correct?

1   A.   (Kavet) I think the term we used was "more

2   uncertain."

3   Q.   More uncertain. Right. But there you didn't

4   do it, and here you're comfortable doing it

5   out 40 years; right?

6   A.   (Kavet) Yes.

7   Q.   And in that case, you said that ongoing

8   positive impacts were likely, but here you

9   say the opposite; you say ongoing negative

10   impacts are likely.

11 A.   (Kavet) Yeah.

12 Q.   Right? And so in that case, we're talking

13   about the same amount of power, the same time

14   period, going to the same New England power

15   market. So why don't plant displacements in

16   that identical situation cause the same

17   negative effect there that you're claiming

18   plant displacements would cause here?

19 A.   (Kavet) At a state level, there were

20   virtually no Vermont facilities that were

21   vulnerable to displacement. The state had

22   already lost Vermont Yankee, and there was

23   very little production instate that would be

24   affected by that. The main thing, though, is

1   it's underground and underwater. So the

2   biggest negative effects come from potential

3   tourism, negative tourism impacts. And there

4   were none because the facility was

5   underground and underwater.

6   Q. All right. Let's unpack that a little bit

7   because I don't think you answered my

8   question.

9   A. (Kavet) I'm sorry.

10   Q. So let's start with why it doesn't cause

11   displacements. We're not talking about

12   Vermont displacements or New Hampshire

13   displacements. We are talking about regional

14   electricity market displacements. And if I

15   call up your Table 11, it's going to show me

16   regional power plants throughout all of New

17   England, isn't it?

18   A. (Kavet) It is.

19   Q. So is it your testimony here that when

20   Scenario 2 is being applied, it only applied

21   to plant displacements in New Hampshire and

22   no place else?

23   A. (Kavet) No. The model was regional, but the

24   impacts were focused on New Hampshire. And

```
 1        the impacts in the other case were focused on
 2        Vermont.
 3   Q.   But again, from a regional standpoint, the
 4        displacements occur across the region;
 5        correct?
 6   A.   (Kavet) From a regional standpoint, they
 7        would.
 8   Q.   Sure.  So in that case, you didn't account
 9        for any regional displacements, and you found
10        a long-term positive benefit.  But in this
11        case, again, virtually the same kind of line,
12        just in a different physical location, you do
13        the opposite; correct?
14   A.   (Kavet) No.  They're different circumstances,
15        and it was only reported for the initial
16        ten-year period, which are positive in our
17        numbers, positive in LEI's numbers and
18        positive in this case.  If we went out
19        further, you would have had a supply response
20        in the region, but not necessarily the state,
21        that's negative, just like it is in our
22        numbers, just like it is in LEI's numbers,
23        and just as it would have been in that case.
24   Q.   Of course that's not what you said; right?
```

1   You said "likely to continue to be positive

2   and of comparable magnitude for an indefinite

3   period of time."

4   A.   (Kavet) That's because there are other

5   impacts, like property tax payments and the

6   like that extend for a longer period of time,

7   that are larger than the supply responses

8   that you would get from this.

9   Q.   On Page 75 of your report --

10   MR. NEEDLEMAN: Let's call

11   that up.

12   BY MR. NEEDLEMAN:

13   Q.   At the bottom you say, "The below

14   illustration is not meant to be a forecast of

15   likely impacts, but shows how the interaction

16   of various elements in the economy that may

17   be affected by the Project could respond over

18   various time horizons"; correct?

19   A.   (Kavet) That's correct.

20   Q.   So, to be clear, you're not representing that

21   these impacts are expected or even likely to

22   occur if NPT is built; right? You're just

23   saying that if these impacts happen, this is

24   what they might look like.

1 A.   (Kavet) There are assumptions that underlie

2   every set of projections. And so if you

3   change the assumptions, you'll get different

4   outputs. But it was, you know, when we

5   talked through that in the whole report

6   leading up to this. But if you take sort of

7   midpoints of a lot of things that we looked

8   at, this is the order-of-magnitude economic

9   impacts you'd be getting.

10 Q.   So is this a "Yes" to my question? I saw

11   Mr. Rockler nodding "Yes." Are you saying

12   "Yes"?

13 A.   (Kavet) Could you repeat the question?

14 Q.   Sure. So, to be clear, you're not

15   representing that these impacts are expected

16   or even likely to occur if NPT is built.

17   You're just saying if these impacts happen,

18   it's what they might look like; correct?

19 A.   (Kavet) Given the assumptions that underlie

20   each one, yes, this is the projected impact

21   that you would get from it, consistent with

22   those assumptions, yes.

23 Q.   And likewise, if you apply the same simple

24   approach here that you applied in TDI, then

1   it would also be likely that the positive

2   impacts would continue indefinitely; right?

3   A. (Kavet) No, that's not true, because you

4   would not have continuing benefits that

5   exceed the negative impacts. You don't have

6   a tourism impact that's negative in TDI, so

7   you don't over -- you can't overcome that.

8   And you have property tax benefits that

9   extend for a longer period of time because of

10   the way those were negotiated with local

11   entities. And so you would have a negative

12   electricity market effect, but it would be

13   unlikely to be larger than the positive

14   effects that you'd get. So you would have

15   positive effects in that case longer term and

16   you would not in this case.

17 Q. One other question. When you did the

18   Electricity Market Impact Assessment for TDI,

19   am I correct that you did not assume any

20   plant closures as a consequence of TDI coming

21   online?

22 A. (Kavet) None in Vermont.

23 Q. Did you assume any plant closures anywhere in

24   New England?

1   A.   (Kavet) No.

2   Q.   I want to turn to property values.

3   MR. NEEDLEMAN: So let's pull

4   up, again, Exhibit 148, Page 57.

5   BY MR. NEEDLEMAN:

6   Q.   And I'll ask you to take a look at the yellow

7   highlighting, and I want to ask you some

8   questions about that. I'm not going to read

9   all that, but just take a minute to look at

10   it and refresh your recollection.

11   (Witness reviews document.)

12   Q.   This is a general summary, as I understand

13   it, of how you went about assessing property

14   value impacts in Northern Pass; correct?

15   (Witness reviews document.)

16   Q.   There was a pending question.

17   A.   (Kavet) Yes.

18   Q.   Let me know when you're ready.

19   A.   (Kavet) Yes.

20   Q.   Okay. So in this paragraph, you acknowledge

21   that there are no market for views, but then

22   you assume there still might be an effect.

23   And what you essentially say is that you're

24   setting out to, quote, estimate this effect.

1   And you do it by, quote, saying we can

2   estimate hypothetical loss, parentheses, or

3   gain, close parentheses, using fixed

4   percentage changes that can be scaled to a

5   particular value, close quote; right?

6 A. (Rockler) That's right.

7 Q. Okay. And on Page 57, you said that you can

8   do this using, quote, standard techniques,

9   close quote; right? Third line from the top.

10   (Witness reviews document.)

11 A. (Rockler) Yeah, standard impact estimation

12   techniques.

13 Q. Right. So, simply stated, you looked at the

14   T.J. Boyle viewshed maps. You figured out on

15   a town-by-town basis what percentage of a

16   town had visibility. You figured out the

17   total property value in town, and then you

18   applied a 1 percent discount to the portion

19   of the property that had visibility. Do I

20   have that basically correct?

21 A. (Kavet) No, it was different depending on how

22   far away it was from the line. So Boyle

23   presented information that gave us distance

24   from the proposed line where it was visible.

1   Q.   So how far out did you go applying a

2   1 percent discount?

3   A.   (Kavet) We didn't apply the same 1 percent.

4   It's a smaller and smaller number the farther

5   away from the line you got.

6   Q.   Okay. So you started at 1 percent. And as

7   you worked yourself away, you reduced that

8   1 percent.

9   A.   (Kavet) No. The distance to effect is done

10   using --

11   A.   (Rockler) Boyle's data allowed you to

12   distinguish six different degrees of

13   visibility; that is, they have immediate

14   foreground and several categories more that

15   describe it as you get -- the visibility is

16   reduced, and it is largely a function of

17   distance.

18   Q.   All right. So let's take away the blanket

19   1 percent statement and just say that, based

20   on the degree of visibility as you work

21   yourself away from the line, you applied some

22   discount to the Project.

23   A.   (Rockler) That's correct.

24   Q.   Okay. Fair enough. So this exercise that

1   you went through here that we just talked

2   about, that's a standard technique for doing

3   this type of evaluation?

4 A. (Kavet) Yeah, it's pretty much what the

5   Department of Energy did, similar kind of

6   thing, you know, a distance measure.

7 Q. And have you ever worked with a visual impact

8   assessor to conduct an exercise like this

9   before?

10 A. (Rockler) No, but it would be a good way to

11   do it.

12 Q. Have you ever used this kind of approach in

13   any other case?

14 A. (Rockler) No, I don't think we've been

15   concerned with visibility as a function of

16   distance or value before.

17 Q. And you said that you thought the Department

18   of Energy used that approach here. I'm not

19   sure that's correct, but we don't have to

20   argue about that.

21   Aside from that, are you aware of any

22   other entity using this approach anywhere?

23 A. (Rockler) I don't think so.

24 Q. Are you aware of any authoritative study

1   anyplace that used this kind of approach?

2   A.   (Kavet) Well, the distance to impact

3   relationship is used in many, many cases.

4   What's different is using GIS data to try to

5   segment where there's a view and where there

6   isn't. That's not widespread.

7   Q.   Not widespread. I guess what I'm hearing you

8   say is you can't think of any other examples;

9   is that right?

10 A.   (Kavet) I can't.

11 A.   (Rockler) No.

12 Q.   So, back to what you did here. You estimated

13   this impact on property values based on

14   proximity to the line out to 10 miles; is

15   that right?

16 A.   (Kavet) And whether it's in the viewshed.

17 Q.   And in the viewshed. So when you did this

18   assessment, did you determine the extent or

19   nature of visibility at any of these

20   locations?

21 A.   (Kavet) Well, that's what the viewshed

22   analysis does. So you have data on, you

23   know, how much of a town's area is in a

24   viewshed. We did not do it property by

1   property.

2   Q.   Well, let me ask it a different way. So if

3   there was an area of purple on the map that

4   represents hypothetical visibility, and that

5   area of purple was a mile from the line, you

6   applied some discount to the land within that

7   area of purple.

8   A.   (Rockler) Yes.

9   A.   (Kavet) That's right.

10   Q.   And the discount was premised on the distance

11   from the line.

12   A.   (Kavet) That's correct. It starts out high

13   and get infinitesimally smaller.

14   Q.   So with respect to that area of purple, that

15   hypothetical area of purple one mile from the

16   line, did you factor in anything like the

17   number of structures that would be visible on

18   the pieces of property?

19   A.   (Kavet) No.

20   Q.   Did you factor in whether it would just be

21   conductors that were visible?

22   A.   (Kavet) No. We had no way to know that level

23   of detail.

24   A.   (Rockler) Right. And we are not the ones who

1   determined the level of visibility. That was

2   a question that was answered by Boyle

3   directly.

4 Q. I understand that. But you were the ones

5   that determined property value impact based

6   on the level of visibility.

7 A. (Kavet) That's correct?

8 A. (Rockler) Right.

9 Q. When you did this assessment, did you factor

10   in seasonality at all?

11 A. (Kavet) No.

12 Q. So you treated a piece of property that might

13   be a mile from the line and could see 20

14   structures the same as a piece of property

15   that was a mile from the line and could see

16   the top 3 feet of one structure.

17 A. (Kavet) That's correct.

18 A. (Rockler) That's what the Boyle data

19   represented. Yes, that's correct.

20 Q. Okay. And you assumed a property five miles

21   from the line that might see a single

22   structure would have a different impact than

23   a property 8 miles from the line.

24 A. (Kavet) The farther away you get from it, the

1   smaller it is. And obviously by that

2   distance, you're down to almost nothing.

3 A. (Rockler) Yeah, our reduction in value is

4   limited to within 300 feet.

5 A. (Kavet) Well, no, it goes out all the way --

6   sorry.

7 Q. Sounds like you disagree about something.

8 A. (Rockler) It is a very small fraction of the

9   land area in the furthest regions that does

10   get reduced for visibility reasons.

11 Q. When you say "furthest regions," what do you

12   mean?

13 A. (Rockler) I mean the ones that are called

14   "far distant" in the Boyle data base.

15 Q. Is that 5 to 10 miles?

16 A. (Kavet) Yes, 5 to 10 miles is far distant.

17 A. (Rockler) Yeah.

18 Q. So out beyond 5 miles, you're saying you

19   applied a discount to the properties that had

20   theoretical visibility, but you didn't apply

21   a large discount?

22 A. (Kavet) Well, it's smaller the farther you

23   go. So our Table 17 shows the distribution

24   of those, you know, value losses by

1   proximity.

2   Q.   And so a residence 3 miles from the line you

3   obviously apply a higher discount than one 5

4   miles --

5   A.   (Kavet) Yeah. Again, it's very small when

6   you get out there.

7   Q.   So the Committee visited White Park recently.

8   Were you aware of that in the last site tour?

9   A.   (Kavet) I was not.

10   Q.   And I wasn't there, but my understanding is

11   they stood on top of a hill at the edge of

12   the park where there was some theoretical

13   visibility of the lines about 3 miles

14   distant. Were you aware of that?

15   A.   (Kavet) I was not, no.

16   Q.   And right across the street from that point

17   were a row of residential homes. I take

18   you're not aware of that?

19   A.   (Kavet) No, I'm not.

20   Q.   So in your model, and it wasn't crystal clear

21   to me looking at the visibility maps, but it

22   seemed like those homes would have the same

23   visibility as White Park. So in your model,

24   they would experience a decrease in property

1   value because they could potentially see the

2   line from there.

3 A. (Kavet) Yeah, I'm not sure that I would be

4   saying every single property that is in that

5   distance is going to experience the same

6   blanket reduction. We would be saying some

7   properties in that with that kind of distant

8   view, it's going to be very small, could be

9   impacted. And it's not necessarily every

10   single one gets the same reduction. This is

11   an estimate, a statistical estimate. It's

12   not a bottom-up visit to each property,

13   appraise each property, is the view

14   important, is it not. It's saying there's a

15   potential for that, and it would be different

16   property by property.

17 Q. Everything you just said, though, is not

18   something that you included in your report

19   and accounted for on a property-by-property

20   basis; right?

21 A. (Kavet) We didn't do a property-by-property.

22   It's a statistical approach.

23 Q. Right. So again, even though you're offering

24   this to us now, in reality what you said

1   statistically is if a property is 3 miles

2   away and has a hypothetical view, then you

3   are applying a discount.

4 A.   (Kavet) There would be some very small

5   discount applied. That's correct.

6 Q.   And like the other sections of your report,

7   you're not offering that the opinions here

8   will actually happen. That's just what you

9   said. You're saying statistically, if they

10   were to happen, this is what it might look

11   like; right?

12 A.   (Kavet) What we think is a reasonable

13   approach to an aggregate estimate. That's

14   right.

15 Q.   But again, the answer to my question is

16   "Yes"; right?

17 A.   (Kavet) Could you repeat it again? I'm

18   sorry.

19 Q.   Sure. Like the other parts of your report,

20   you're not offering the opinion that these

21   effects will actually happen; right? You're

22   simply saying, if they were to happen, in

23   your opinion this is what the effects might

24   look like. I see Mr. Rockler --

1   A.   (Rockler) I would say yes.

2   Q.   Let's move on. I want to talk about local

3   economic impacts in your assessment there.

4   So let's look at Exhibit 146. And on

5   Page 3, Line 5, you say, "In general, the

6   Applicant's economic impact analysis by LEI

7   was well performed, but it contained some

8   model specification errors that resulted in

9   LEI overstating employment impacts during

10   construction by approximately 20 percent";

11   right?

12   A.   (Rockler) Yes.

13   Q.   And then we revisited this the other day, and

14   I think you corrected that error and now said

15   that the number is 18 percent.

16   A.   (Rockler) That's correct.

17   Q.   And I think what you told Ms. Pacik is that

18   number consists of two categories, labor

19   spending and materials; right?

20   A.   (Rockler) The 18 percent number?

21   Q.   Yeah.

22   A.   (Rockler) It is derived from estimated

23   employment, the estimated number of jobs, the

24   implicit estimation of the material

1   expenditures that the model creates, plus

2   LEI's additional compensation -- LEI's

3   additional compensation paid to higher-paid

4   labor than otherwise would be the case within

5   the model. So, LEI and Eversource have said

6   that the pay scales will be drastically

7   higher on this project than would be the case

8   as represented in the REMI model. So there's

9   an additional set of compensation added to

10   that, yes. It's not insignificant.

11 Q. So it sounds like we agree. Sounds like that

12   was a longer way of saying --

13 A. (Rockler) Well, that's three parts: Labor,

14   materials and compensation.

15 Q. Okay. And I was thinking about labor and

16   compensation together. But that's fair

17   enough.

18 A. (Rockler) No, they're actually added

19   separately.

20 Q. Okay. So I want to go through those. You

21   referred the other day to Table 3 of your

22   report when you were having this discussion

23   with Ms. Pacik. And as you just did here,

24   and I think as you did the other day, you

1   criticized Ms. Frayer for using labor rates

2   that you thought were far too high. I think

3   you said the standard rates were something

4   like six to seven times lower than what she

5   used, something like that. Remember that?

6 A. (Rockler) I did not criticize Ms. Frayer for

7   the use of those numbers. She said that

8   those were the numbers that were supplied to

9   her.

10 Q. And you said they were unrealistic.

11 A. (Rockler) I think there's something

12   unrealistic about professional, legal, other

13   employees, construction workers getting

14   salaries that gets you into $600 and $700 an

15   hour, yes.

16 Q. And were you aware of the fact that when Mr.

17   Pappas was questioning Ms. Frayer, he put

18   your Table 3 in front of her and specifically

19   asked about these issues?

20 A. (Rockler) I think I was there for that, yes.

21 Q. So I want to go back to that, because based

22   on what you said the other day, it sounds to

23   me like there's a disconnect here. So I want

24   to put up --

1   MR. NEEDLEMAN: What's our

2   exhibit number, Dawn? Okay. It's a

3   transcript. I'm sorry.

4   BY MR. NEEDLEMAN:

5   Q.   This is the transcript, Day 13, Morning

6   Session, Page 78. And at the bottom of

7   Page 78, on Lines 22 through 24, Ms. Frayer

8   begins by explaining that Eversource provided

9   her with the compensation rates; right?

10 A.   (Rockler) That's what it says, yes.

11 Q.   And then on the top of 79 she continues to

12   explain that these rates were fully loaded,

13   which means they included things like

14   benefits and so forth; correct?

15 A.   (Rockler) Amongst other things, yes.

16 Q.   Right. And then also on Page 79, on Line 12,

17   Mr. Pappas then put your Table 3 in front of

18   Ms. Frayer to ask her questions about it;

19   correct?

20 A.   (Rockler) Yes.

21 Q.   And at Page 80, on Line 4, Mr. Pappas asked

22   Ms. Frayer about double-counting, using the

23   REMI model related to overhead and things

24   like that; correct?

1   A.   (Rockler) Correct.

2   Q.   And Ms. Frayer confirmed on Lines 8 through

3   13 that she was aware of this issue and used

4   REMI in a way to avoid double-counting;

5   right?

6   A.   (Rockler) Yes.

7   Q.   And then on Line 17 she explained this labor

8   compensation issue, which seems to be a point

9   of contention, in more depth.

10   And I want to look at Page 81, Lines 1

11   through 15. So, Ms. Frayer addressed the

12   exact issue that Ms. Pacik was asking you

13   about the other day, the allegedly overly

14   high compensation rates. And here Ms. Frayer

15   explicitly distinguished standard

16   compensation rates from what she said was

17   actual spending on services; right?

18 A.   (Rockler) Yes.

19 Q.   And on Lines 14 and 15, she actually said

20   REMI is flexible and can account for the

21   approach that she used; right?

22 A.   (Rockler) It is not explicitly clear in her

23   input files that were used with REMI exactly

24   what elements were entered to make changes to

1   compensate for this high level of

2   compensation.

3 Q.   Well -- I'm sorry.

4 A.   (Rockler) It's just not clear in her files

5   where those are.

6 Q.   And of course, if anything was unclear to

7   you, you could have asked data requests or

8   technical session requests for her to clarify

9   that; right?

10 A.   (Rockler) We could have.

11 Q.   Okay. So let's go on to Page 81. Mr. Pappas

12   kept pressing her on this issue, asking if a

13   number represented one job, which I think is

14   what you were suggesting the other day in

15   your chart, that it represented one job. And

16   after some back and forth, she again

17   clarified at Line 16 through 23 and said it

18   doesn't represent a single job; it's a

19   composite. Right? That was her testimony?

20 A.   (Rockler) She entered data in full-time

21   equivalents. That's the composite job.

22   That's however many hours a year they're

23   worth.

24 Q.   And then when you go over to Page 83, Lines 1

1   through 3, she explained that didn't

2   distinguish between single individual jobs

3   and composite jobs. And she also said REMI

4   doesn't require that.

5 A.   (Rockler) Yes, and actually that's wrong.

6   REMI is exclusively done on a jobs basis.

7 Q.   Okay. So it --

8 A.   (Rockler) It has no ability to turn jobs into

9   full-time equivalents. You have to do that

10   outside the model.

11 Q.   So it sounds like the two of disagree on this

12   aspect of using the model.

13 A.   (Rockler) I'd say that's certainly true.

14 Q.   All right. And then finally on Lines 8

15   through 18, she makes clear that the numbers

16   are compensation rates and actual spending,

17   and the two work together in REMI to compute

18   economic activity and employment impacts.

19   That's her testimony; right?

20 A.   (Rockler) That's correct.

21 Q.   So when you say that Ms. Frayer used

22   unrealistically high labor rates, it's at

23   least clear from her testimony that she

24   doesn't agree with that; right? She thinks

1   the rates were perfectly appropriate for this

2   case; right?

3 A. (Rockler) Yes.

4 Q. And I want you to assume that she's right.

5 A. (Rockler) Okay.

6 Q. I want you to assume that in fact the rates

7   she used are correct. Then your assertion

8   that economic activity is overstated because

9   of these overly high rates is wrong.

10 A. (Rockler) In the compensation rates, she adds

11   an increment to the total amount of

12   expenditures to the Project. She adds a

13   surplus compensation figure to the total, and

14   those are based on her, what I will now

15   assume to be the correct rates.

16 Q. Let's go back to --

17 A. (Rockler) But they are an increment that are

18   supposed to represent the higher rates of pay

19   to be received on this project.

20 Q. Let's go back to my question. I want you to

21   assume Ms. Frayer is right. If she's

22   correct, then your assertion that economic

23   activity is overstated because of these

24   overly high rates is wrong.

1   A.   (Kavet) Well, that's kind of a ridiculous

2   hypothetical. If she's -- if we assume that

3   she's right, then, yes, we're wrong.

4   A.   (Rockler) Then we're wrong.

5   Q.   Okay.

6   A.   (Kavet) The answer is "Yes" to that

7   hypothetical.

8   Q.   Right. Thank you.

9   Ms. Pacik at one point also asked you

10   about Ms. Frayer's explanation of what was in

11   the category for logging jobs. You remember

12   that discussion?

13 A.   (Rockler) Correct.

14 Q.   The implication seemed to be that Ms. Frayer

15   was overstating economic activity in that

16   category. And then Ms. Pacik asked you to

17   explain Ms. Frayer's pie charts. You

18   remember that?

19 A.   (Rockler) I think that's correct. Yes.

20 Q.   It seemed odd to me that she was asking you

21   to explain what Ms. Frayer meant when in fact

22   Ms. Frayer explained that exact point to Ms.

23   Pacik during her testimony. So I want to

24   call that up and ask you some questions about

```
 1      that.

 2             This is Day 16, Morning transcript,

 3      Pages 58 and 59.  And Ms. Frayer -- Ms. Pacik

 4      asked Ms. Frayer about this issue and about

 5      what went into that logging job category.

 6      And you said you were here that day, so do

 7      you recall that discussion?

 8   A.  (Rockler) I was here for one of Ms. Frayer's

 9      sessions, and I don't recall -- I don't

10      remember whether it was -- was Day 16 her

11      first day?

12   Q.  Probably the second day.  So it sounds like

13      you might not have been here.

14   A.  (Rockler) I might not have been here.

15   Q.  So as we go through this, I'm going to ask

16      you to take a moment to just read this so

17      it's clear to you.

18             On Lines 12 to 18, Ms. Frayer explained

19      that the jobs related to logging also

20      included other activity and that the input

21      files that she provided to you had

22      significant spending related to this other

23      activity.  Do you see that?

24   A.  (Rockler) Yeah, I see that.
```

1 Q. And on the top of Page 59, she talked about

2   what went into this category. It was things

3   like truck drivers, road construction, access

4   road construction and site preparation for

5   installation presumably of structures and

6   things like that; correct?

7 A. (Rockler) That's what it says.

8 Q. And finally on Line 7 through 17, she

9   explained that it could have been broken down

10   further into other categories, but the

11   effects would have been di minimus; right?

12 A. (Rockler) I don't know whether they would

13   have an effect or not. If I can --

14 Q. Sure.

15 A. (Rockler) The figures that we saw presented

16   in both the workbook from LEI and the data

17   entry sheets for the REMI model did not have

18   any disaggregation on site-related activity

19   at all. It had logging as an activity. If

20   there were other component parts that were

21   behind that, we didn't see them.

22 Q. But you --

23 A. (Rockler) So it's possible that they were

24   used to derive the calculations that

1   ultimately appeared in the workbook we used.

2   That's possible. I don't know how large

3   those component parts are in their estimation

4   or what was included or not. If there were

5   truck drivers, if there were equipment

6   operators, if there were things that are

7   beyond the normal purview of logging and

8   removal of log products, I didn't see it.

9   Q.   But it's clear to you, as you sit here today,

10   and in fact it would have been clear to you

11   when this transcript became available, that

12   that category did include a lot of other

13   types of jobs; correct?

14   A.   (Rockler) They didn't appear in terms of the

15   data entry. So the only entry that appeared

16   was logging. And there was an hourly rate

17   for logging labor, and that was used to

18   derive an estimate of full-time-equivalent

19   logging employees.

20   Q.   Back to my question.

21   A.   (Rockler) Okay.

22   Q.   It's clear now that that category contained

23   all of those entries; correct?

24   A.   (Rockler) I will take your word for it. I

```
 1        haven't seen any evidence that that's the

 2        case.

 3   Q.   Well, and if you had any questions about the

 4        high number of jobs in that category or the

 5        high number of spending associated with that

 6        category, the way Ms. Pacik did, you could

 7        have asked about that during discovery or at

 8        tech sessions; right?

 9   A.   (Rockler) If it had --

10   Q.   And you didn't.

11   A.   (Rockler) Right.

12   Q.   Okay.  So I want to move on now to material

13        expenditures.  That's another component of

14        this 18 percent.  And I think you discuss

15        material expenditures on Page 146 of your

16        report.  And I think you also said that you

17        used the data provided by Applicants and LEI

18        generally; is that right?

19   A.   (Rockler) That's correct.

20   Q.   And on Pages 1 and 2 of your supplemental

21        report -- why don't we call that up so we can

22        see it.  Bottom of 1, top of 2, beginning

23        with -- you say, "Although we have checked

24        all data for reasonableness against industry
```

1   standards, the Project is unique in some

2   respects and does not lend itself to

3   formulaic comparison. Where we have modified

4   economic model inputs, it has generally been

5   associated with model specification

6   corrections rather than source data

7   overrides"; right?

8 A.   (Rockler) That's right.

9 Q.   So, simply stated, I think what you're saying

10   is that you didn't change the input data, but

11   in certain instances you adjusted the

12   approach to how REMI uses the inputs?

13 A.   (Rockler) I think that's a good summary,

14   yeah.

15 Q.   Okay. And you would -- for example, my

16   understanding is you adjusted the year in the

17   REMI inputs to account for a delay in

18   construction; right?

19 A.   (Rockler) Yeah.

20 Q.   And I think you also adjusted for inflation

21   when you inputted data; is that right?

22 A.   (Rockler) Actually, we entered the data that

23   was provided by LEI in their data in nominal

24   dollar terms.

1   Q.   Were there any other adjustments you made?

2   A.   (Rockler) Well, within the model itself, we

3   turned off the option that has the model

4   estimate material requirements because we

5   know what they are.

6   Q.   We talked about that. Other than that?

7   A.   (Rockler) Right. I zeroed out one negative

8   number, I think, that was negative

9   compensation value that didn't seem to make

10   any sense.

11 Q.   So I want to go to Page 14 now of your report

12   and zero in on your criticisms.

13   In the last paragraph, you said that LEI

14   shows material purchases in New Hampshire of

15       $134 million, but that LEI's REMI input files

16   show $35.7 million; right?

17 A.   (Rockler) Correct.

18 Q.   And I think you therefore expressed concern

19   that there was some omission that had

20   occurred because of this $98 million

21   difference; right?

22 A.   (Rockler) Yup. That's correct.

23 Q.   And then on the top of Page 14, I think in

24   the second paragraph, another concern that

54

1   you have is that you say, "...because LEI

2   allowed REMI to utilize its own default

3   material purchases, a significant additional

4   set of expenditures were included in the LEI

5   analysis that are both erroneous and

6   irrelevant to transmission line

7   construction"; right?

8   A.   (Rockler) That's correct.

9   Q.   All right. So this is, I guess, the

10   so-called "intermediate materials purchase

11   issue"; right?

12   A.   (Rockler) Okay.

13   Q.   I mean --

14   A.   (Rockler) That's what we would call it, sure.

15   Q.   Okay. And my understanding is that this is a

16   product of REMI; whereas, I think you said

17   before, when you input labor spending, REMI

18   automatically assumes some level of material

19   spending connected to the labor spending;

20   right?

21   A.   (Rockler) Unless you turn the option to do

22   that off.

23   Q.   Right. And so if the material spending is

24   overstated here, then it's going to overstate

1   the economic benefits at the back end.

2   That's what you're saying; right?

3   A.   (Rockler) Yes.

4   Q.   Okay. And you fault LEI for not discounting

5   those economic benefits at the back end

6   because you think they allowed these

7   intrinsic REMI material purchases to run

8   through the process.

9   A.   (Rockler) Yes, that's correct.

10   Q.   And I think you said a moment ago, you

11   corrected for this issue. And I think you

12   explained it on Page 41 by saying you

13   nullified -- you used policy variables to,

14   quote, "nullify" these intermediate

15   purchases; right?

16   A.   (Rockler) That's correct.

17   Q.   So I want to call up Applicant's 303. So

18   this is a screenshot of the LEI workbook

19   showing materials spending. It's what was

20   provided to you during discovery. Do you

21   recognize it?

22   A.   (Rockler) I would recognize it more easily if

23   I knew the title of the workbook.

24   Q.   Yeah, I don't think we have that handy. But

1   I will represent to you it was the document

2   provided in discovery.

3   A. (Rockler) Could be. Their original workbook

4   had about 15 different worksheets within it,

5   and not all of them are immediately -- I

6   don't recall them all immediately. So I'll

7   look at it and see.

8   Q. All right. Well, certainly I think as we

9   work through the numbers it should become

10   more familiar to you. In fact, why don't we

11   do that.

12   The highlighted row in yellow at the

13   bottom is the original materials spending;

14   right. This is the data that you used as an

15   input, subject to some of those adjustments

16   we talked about; right?

17   (Witness reviews document.)

18 A. (Rockler) Doesn't look like I used that

19   material spending input at all. That total,

20   that's the $134 million total. But it was

21   never specified what it was. And I only

22   entered the identifiable expenditures on

23   Redimix Concrete and those products as

24   materials, as New Hampshire purchases. The

1   other 134, it was never specified what those

2   were.

3 Q.   Okay. So let's come back to that.

4   The green line on this sheet is the

5   revised materials spending. Do you see that?

6 A.   (Rockler) I see it, yeah.

7 Q.   And the total on that line is $35.7 million;

8   right?

9 A.   (Rockler) Right.

10 Q. And my recollection is that during the tech

11   sessions or data requests, nobody ever asked

12   about that green line in those revised

13   material spending. Is that your

14   recollection?

15 A. (Rockler) It's possible, yeah.

16 Q. And then you see the gray box at the bottom?

17 A. (Rockler) Yes, I do see that.

18 Q. Which says "for value-added correction of

19   materials spending for New Hampshire," and it

20   provides a list of specifications.

21 A. (Rockler) Right.

22 Q. We looked at this the other day when Ms.

23   Pacik was questioning you. And in her

24   rebuttal, which was Exhibit 102, at Pages 54

1   and 55, Ms. Frayer pointed to this and

2   explained that this is the process she went

3   through in this gray box. Do you recall

4   that?

5   A. (Rockler) I do, yeah.

6   Q. So would it surprise you to learn that the

7   revised material expenditures, after the

8   value-added correction were the numbers that

9   Ms. Frayer plugged in to her model? Did you

10   understand that?

11   A. (Rockler) Again, in her workbook and input

12   files, it wasn't clear what the derivation of

13   those numbers were; that is, they were the

14       $34 million that I saw for Redimix Concrete.

15   Those did appear in her input file.

16   Q. And again, to the extent that anything at all

17   was unclear, you could have asked for

18   clarification; right?

19   A. (Rockler) Yeah, there's a possibility I had

20   not gone through it at that point to ask a

21   sensible question until I actually was doing

22   the analysis of both their results and our

23   results.

24   Q. But now, as we sit here today, again I'll ask

1   you: I guess it is surprising to you that

2   that $35.7 million number is the number she

3   used? Sounds to me like you didn't realize

4   that.

5 A.   (Rockler) Might have been what she put in for

6   materials explicitly. But she allowed

7   hundreds of millions of other intermediate

8   purchases to occur and appear in her results.

9 Q.   Well, we'll come to that in a minute. But

10   let's go back to that $98 million that you

11   thought was lost a few minutes ago.

12   So if we take the $134 million of

13   material expenditures that we talked about a

14   minute ago, and we subtract the 35.7 here,

15   that's $98 million; right?

16 A.   (Rockler) Okay. That's right.

17 Q.   So, in fact, understanding now what Ms.

18   Frayer did, the $98 million wasn't missing;

19   right? It was properly adjusted for. It

20   just was adjusted for on the front end.

21 A.   (Rockler) No. It isn't as simple as doing an

22   adjustment on the total value added in the

23   state of New Hampshire.

24 Q.   But again, it sounds to me like this is just

1   a disagreement between you and Ms. Frayer as

2   to how to use the model, because she did

3   explain this quite clearly in Exhibit 120 at

4   Page 54; right? You just don't agree with

5   her explanation.

6 A.   (Rockler) It isn't the proper way to handle

7   material impact estimation. I'll just assert

8   that.

9   MR. NEEDLEMAN: Dawn, can we

10   call up the next exhibit?

11 BY MR. NEEDLEMAN:

12 Q.   So this is your inputs for material

13   expenditure. And I wanted to ask you a

14   question about this. If you need to see the

15   whole page, just say so. But my question is

16   about the bottom line.

17 A.   (Rockler) Yes.

18 Q.   Okay. So reading across that bottom line,

19   what are the material expenditures inputs?

20   What's that first number? Is that

21   2.267 million?

22 A.   (Rockler) No, because it's nominal, and it's

23   in units terms. So that's 2,267.

24 Q.   All right. So then the second number is

1   73,000?

2 A.   (Rockler) Correct.

3 Q.   And the third number is 52,000?

4 A.   (Rockler) Looks like, yes, 5 million.

5   5,290,827.

6   MR. NEEDLEMAN: So let's take

7   this down for a minute, and I want to go back

8   to the materials spreadsheet. And let's call

9   up the original materials spending.

10 BY MR. NEEDLEMAN:

11 Q.   Where in your REMI workbook would we see the

12   numbers that you plugged in for original

13   material spending?

14 A.   (Rockler) You will see them in the REMI

15   workbook under Concrete Product Expenditures,

16   Redimix and Concrete Product expenditures.

17 Q.   So in other words, you're saying -- my

18   understanding was that you used the materials

19   expenditure numbers that were provided to you

20   by LEI.

21 A.   (Rockler) The ones that were identifiable,

22   yes.

23 Q.   Okay. And is there a place that you can

24   point me to that tells me what the material

1   expenditure numbers that you used were?

2   Because my understanding was that you used

3   the original material spending on this

4   spreadsheet. I understood that was your

5   inputs.

6   A.   (Rockler) When you look at the REMI workbook,

7   what you see is a list of those policy

8   variables. So it would be an expenditure

9   number for materials, and you'll see some

10   values there. What you don't know is whether

11   or not that was run or not, or whether that

12   was used or not. It's just a list of

13   possible entries. And that was the problem

14   we had with a number of LEI's workbooks, is

15   not all the lines that appeared in the REMI

16   workbook were used. There were some values

17   that had been entered for testing or for

18   analysis and then left in the workbook. So

19   in that case where you showed the earlier

20   line that shows KRA material inputs, that may

21   have been one of the blocks of data that came

22   from -- that I just took in from her workbook

23   originally. I started with her input

24   workbook, and to that I added our own block

1   of estimates that we used. So if you want to

2   see where our stuff is, you can look in the

3   REMI input workbook under our inputs that

4   were used.

5 Q. Right. And my understanding is that the

6   inputs that you used were the ones that were

7   provided in this spreadsheet. But it seems

8   to me you're saying no, you didn't use those

9   inputs.

10 A. (Rockler) In that spreadsheet? I don't see

11   that -- yeah, that's not our spreadsheet.

12   That's one of -- that's an LEI spreadsheet.

13 Q. Right. And again, that's my confusion,

14   because my understanding was you used the

15   numbers LEI provided to you. I thought

16   that's what you said originally.

17 A. (Rockler) That's correct, except for the

18   materials inputs.

19 Q. So you used all the numbers they provided to

20   you, except for the numbers on this

21   spreadsheet.

22 A. (Rockler) I used the figure of 34 million

23   something for the -- yeah, for the Redimix

24   Concrete expenditures.

1   Q.   You used a figure of 34 million for material

2   expenditures?

3   A.   (Rockler) Right.

4   MR. NEEDLEMAN: So let's go

5   back for a minute, Dawn, to that KRA

6   spreadsheet.

7   BY MR. NEEDLEMAN:

8   A.   So these are the expenditures on your

9   spreadsheet. And if you used a number of

10   34 million, why is it that the numbers at the

11   bottom don't seem to add up to anything close

12   to that?

13   MR. PAPPAS: Do you need to

14   see the entire page?

15 BY MR. NEEDLEMAN:

16 Q.   Yeah, if you want to see the whole page, we

17   can put it up.

18 A.   (Rockler) No, I think I can... that's

19   actually a little bit better. There we go.

20   Okay. That looks like the Redimix Concrete

21   expenditures, yes.

22 Q.   Right. But my question is: If you used the

23   number of 34 million, why are those numbers

24   so much lower than 34 million?

1   (Witness reviews document.)

2   A.   (Rockler) Well, I'm not sure why. I would

3   have to go back to the original workbooks and

4   see what was extracted and copied from them.

5   It's different. I agree with you.

6   Q.   And that --

7   A.   (Rockler) But I don't know from where that

8   comes, offhand.

9   Q.   So let's talk about this for a minute. These

10   are the KRA inputs for material expenditures

11   that went into your run of the REMI model;

12   correct?

13   A.   (Rockler) That's correct.

14   Q.   So wherever those numbers came from, those

15   are the numbers you put in; right?

16   A.   (Rockler) I think so, yes.

17   Q.   Okay. So those numbers that you put in on

18   the bottom there are nowhere close to the

19   34 million.

20   A.   (Rockler) No, I agree with you.

21   Q.   So if you put in numbers that are nowhere

22   close to the 34 million in expenditures, and

23   then you run it through the model, it will

24   produce an economic output of some number;

1   right?

2 A.   (Rockler) Whatever you put in, you get

3   something out. Right.

4 Q.   And if you put in material expenditure

5   numbers that are lower than what the actual

6   material expenditure numbers are, you will

7   get an economic output that is lower than

8   what the actual economic output is going to

9   be; correct?

10 A.   (Rockler) I agree with you.

11 Q.   And from what we can see here, it appears

12   that you have put in numbers that do not

13   represent, even as you understand the

14   material expenditures, to be the right

15   number; correct?

16 A.   (Rockler) Based on this line, I would agree

17   with you. But I really would want to see my

18   own workbook inputs.

19 Q.   And as a consequence of that, whatever number

20   you came up with for economic expenditures

21   would be lower than what the real number is;

22   correct?

23 A.   (Rockler) If the total going in is lower,

24   yes.

1 Q. So I want to go back to that 18 percent

2   number. And we talked about how it's made up

3   of a number of categories, and we've

4   addressed all those categories now. So when

5   you said on Page 3, Line 5, in general,

6   Applicant's economic impact analysis was well

7   performed, et cetera, et cetera, but it was

8   off by some percentage, you lowered that to

9   18 percent. The number's now going to come

10   down from 18 percent, it appears, because you

11   got these material expenditures number wrong;

12   right?

13 A. (Rockler) I have to check the numbers. I'm

14   not sure if it's going to change or not.

15 Q. Well, it sounds to me like you just said that

16   the economic output will go down. So,

17   assuming it's going to change, we don't know

18   how it's going to change as we sit here;

19   right?

20 A. (Rockler) If the number going in goes down,

21   we know it's going to be lower, yes.

22 Q. And we also don't know if Ms. Frayer is

23   correct about the labor number she used, and

24   you're not correct, we also don't know how

1   that would affect your 20 percent number --

2   or your 18 percent number; right?

3 A. (Rockler) The estimation of jobs that were

4   used with the high compensation rates as I

5   saw them, and as they deviate from what the

6   REMI model expects, the labor inputs in the

7   model are actually lower than what I would

8   have expected. And so it isn't that I have

9   reduced the values through some means to

10   reduce them; the economic impact, employment

11   impact going in, even as LEI estimates it, is

12   low.

13 Q. One more time going back to my question, and

14   setting aside for a moment what we think is

15   the math error we just uncovered, and

16   focusing on the disagreement between you and

17   Ms. Frayer about the labor rates, as we

18   discussed before, if she's right and you're

19   not right about this issue, then that

20   percentage error that you identified also

21   decreases; correct?

22 A. (Rockler) I'll go with that, yeah.

23   MR. NEEDLEMAN: I'm going to

24   go into a new topic. You want me to keep

```
 1        going?

 2                        CHAIRMAN HONIGBERG:  How long

 3        do you think the topic is?

 4                        MR. NEEDLEMAN:  Hour.

 5                        CHAIRMAN HONIGBERG:  All

 6        right.  Let's take a 10-minute break.

 7                        MR. NEEDLEMAN:  Okay.

 8             (Recess was taken at 10:11 a.m.

 9             and the hearing resumed at 10:28

10             a.m..)

11                        CHAIRMAN HONIGBERG:  Mr.

12        Needleman, you may continue.

13                        MR. NEEDLEMAN:  Thank you.

14   BY MR. NEEDLEMAN:

15   Q.   Just quickly, I wanted to take you back to

16        Page 58, Table 16 for a moment.  You recall

17        that I asked you earlier with respect to

18        property value impacts, whether you had

19        applied this 1 percent equally across all

20        properties, and you said no, you applied it

21        at a diminishing basis as you went out from

22        distance.  I recall now that you did that as

23        part of the second component of your analysis

24        with respect to the New Zealand study.  But
```

 1   in this first component of your analysis on

 2   Table 16, it shows you actually did apply

 3   that 1 percent equally all the way out to the

 4   far distant properties; right?

 5 A. (Kavet) We did that to demonstrate what it

 6   would be if that was a flat rate. But the

 7   analysis that we used in calculating impacts

 8   is Table 17 which follows that, and you'll

 9   see it diminishes significantly as you go out

10   in distance.

11 Q. And an appreciable portion of those impacts

12   as illustrated on Table 14 are occurring at

13   the greater distance; right?

14 A. (Kavet) You said Table 14?

15 Q. Sorry. Table 16.

16 A. (Kavet) No. If you look at Table 17, you

17   have 96,000 out of 14-, 15 million.

18 Q. No, I'm looking at Table 16.

19 A. (Kavet) Yeah. If you just do a flat

20   1 percent --

21 Q. Right.

22 A. (Kavet) -- it's pretty even through the far

23   distant. From about near mid-ground to far

24   distant is pretty constant, yeah.

```
 1    Q.    And my question was, but only 80,000 in the

 2          immediate foreground; right?

 3    A.    (Kavet) That's correct, at a 1 percent basis,

 4          yeah.

 5    Q.    So I want to turn now to tourism.  And on

 6          Page 146 of your prefiled testimony, Page 8,

 7          Line 13, you said that your --

 8    A.    (Kavet) I'm sorry.  Page number?

 9    Q.    Page 8, Line 13.  You said that your analysis

10          was of, quote, "limited relevant data and

11          local expert opinion"; right?

12                (Witness reviews document.)

13    A.    (Kavet) Yes.

14    Q.    And then, based on this limited relevant data

15          and local expert opinion, you created some

16          potential tourism impact ranges; right?

17    A.    (Kavet) Yes.

18    Q.    And so I want to look at these two

19          components.  With respect to limited relevant

20          data, if we look at Page 64 of your report,

21          you talk about your relevant literature

22          review.  And you cite three reports there:  A

23          2009 Scotland study, the Anza-Borrego State

24          Park study and the Delaware Water Gap study;
```

1   right?

2 A.   (Kavet) Right.

3 Q.   So when you refer to limited relevant data in

4   your prefiled testimony in the literature

5   review, this is what you're referring to;

6   right?

7 A.   (Kavet) Not just that. We're also referring

8   to the fact that there is limited data on

9   tourism activity at a level of detail that

10   would make it easy to analyze impacts in New

11   Hampshire. So we only have data for broad

12   tourism regions --

13 Q.   Understood.

14 A.   (Kavet) -- not down at a detailed level. So

15   there's is a whole lot of data that might go

16   into that. That's one piece of that.

17 Q.   And we'll come back to that in a minute.

18   With respect to what you call "local

19   expert opinion," you said on Page 65 that

20   it's based on conversations with New

21   Hampshire tourism experts; right?

22 A.   (Kavet) That's correct.

23 Q.   And in the footnote you refer to Alice

24   DeSouza and Mark Okrant.

1   A.   (Kavet) Yes.

2   Q.   So when you refer to local experts in your

3   testimony, these are the two individuals

4   you're referring to; right?

5   A.   (Kavet) Primarily, yes. We spoke with other

6   people as well, but those are the two that we

7   relied on most.

8   Q.   When you say you spoke with other people, you

9   didn't provide any information in your report

10   about that, did you?

11   A.   (Kavet) Well, there was contact with people

12   at the public -- the sessions that Counsel

13   for the Public scheduled. We had meetings

14   with people in state government. But these

15   were the two that we felt were knowledgeable

16   and were willing to offer an opinion one way

17   or another.

18   Q.   And you used the phrase "local expert

19   opinion" --

20   A.   (Kavet) Yeah.

21   Q.   -- so these would be the local experts;

22   right?

23   A.   (Kavet) That's right.

24   Q.   So I want to talk first about the three

1   studies. So let's go to Exhibit 148 at

2   Page 64.

3   So the first study is the 2009 Scotland

4   study. I think you said that the study

5   estimated annual potential tourism visitation

6   losses from a proposed high-voltage

7   transmission line could range from

8   3.2 percent to 14.6 percent; right?

9 A.   (Kavet) That's right.

10 Q.   And this study is referenced in Footnote 57

11   of your report; right?

12 A.   (Kavet) Yes.

13 Q.   And this study was actually the report of

14   public inquiry issued for a proposed 400 kV

15   transmission line in Scotland; right?

16 A.   (Kavet) I believe so.

17 Q.   And the public inquiry is the Scottish

18   government's review of the proposed project;

19   right?

20 A.   (Kavet) I believe so.

21 Q.   And did you review the report in its

22   entirety?

23 A.   (Kavet) Yes.

24 Q.   And did you review the administrative record

 1   for the project?

 2   A.   (Kavet) I don't recall.

 3   Q.   I want to call up the report, first of all.

 4   And let's look at Page 16-22. And I've

 5   highlighted two sections.

 6   So in the first section above that table

 7   it says that the alternatives illustrated in

 8   the table below demonstrate how the outcome

 9   varies depending on the assumption made. Do

10   you see that?

11   A.   (Kavet) Yes.

12   Q.   And right underneath that, after it looks at

13   those varied outcomes, it says, "Therefore,

14   we find we do not have the evidential basis

15   to quantify the potential adverse impact of

16   the proposed 400 kV overhead line on tourism

17   along the proposed line"; right?

18   A.   (Kavet) Yes.

19   Q.   So, even though you said in your report that

20   losses could range from 3.2 percent to

21   14.6 percent, the Scottish government said

22   they don't have enough evidence to actually

23   quantify that; right?

24   A.   (Kavet) That's correct.

1   Q.   Now let's look at Exhibit 306. This is the

2   Summary of Conclusion and Recommendation.

3   And I want to go to Page 8. And when you

4   look at the first highlighting, it says, "We

5   find that the evidence regarding the likely

6   impact of the proposed transmission line on

7   tourism in the area is unsatisfactory";

8   correct?

9   A.   (Kavet) Yes. I think that's because it's

10   prospective. You're doing a survey and

11   asking people what might happen rather than

12   any measurement of what actually has

13   happened, which is typical.

14   Q.   In fact, they speak to that in the other

15   yellow highlighting. They say the

16   Applicant's attempt -- I'm not going to read

17   it all. You can read it for yourself. But

18   the last point is what I want to direct your

19   attention to. "Consequently, we conclude

20   that we do not have the evidence to quantify

21   the potential impact of the proposal on

22   tourism along the line"; right?

23   A.   (Kavet) Yes.

24   Q.   So this report actually offers no support for

1   the proposition that high-voltage

2   transmission lines have an adverse impact on

3   tourism; right?

4   A.   (Kavet) No. I think that survey information

5   is the only information that's available.

6   It's not conclusive. It would be better if

7   you had data that actually showed some metric

8   and you knew what would have happened in the

9   absence of it and then you put it in and you

10   measured a decline in tourism or less

11   tourism. It simply means that, just based on

12   the survey, they weren't willing to draw a

13   conclusion and say we have enough evidence to

14   have a specific number. It's a range of

15   estimates. And survey-based data is not as

16   good as other types of data. But it's all

17   there is.

18   Q.   Isn't this really the Scottish government

19   saying, based on the totality of the record

20   presented to them, the potential impact of

21   the proposal on tourism of the line can't be

22   quantified?

23   A.   (Kavet) No. It means the data aren't good

24   enough to come up with any meaningful

1   conclusion that they believe for purposes of

2   their review.

3 Q. Okay. Let's go to Exhibit 148, Page 64. The

4   second report that you rely on is the

5   Anza-Borrego study. And I think, yeah, in

6   the middle you say, "A recent study on the

7   economic impact of a high-voltage

8   transmission line in the Anza-Borrego State

9   Park in California estimated negative tourism

10   visitation effects of between 5 and

11   15 percent due to the presence of a proposed

12   high-voltage transmission line; right?

13 A. (Kavet) That's right.

14 Q. And that was Footnote 58 of your report;

15   right?

16 A. (Kavet) Right.

17 Q. Let's look at Applicant's 307. This is

18   Anza-Borrego study. I assume you reviewed

19   this?

20 A. (Kavet) Yes.

21 Q. And the study was commissioned, down at

22   bottom of the page, by the Anza-Borrego

23   Foundation, the Tubb Canyon Desert

24   Conservancy and the Desert Protective

1   Council; correct?

2   A.   (Kavet) Yes.

3   Q.   And if we go to Page 3 of the study --

4   MR. NEEDLEMAN: And Dawn, I'll

5   ask you to highlight it.

6   BY MR. NEEDLEMAN:

7   Q.   It says the California Energy Commission, et

8   cetera, is in the process of assessing

9   various options for a transmission line. One

10   of the options is Alternative 5, which

11   proposes this 500 kV line in the Anzo-Borrego

12   Desert State Park. Generally correct?

13 A.   (Kavet) Yes.

14 Q.   And on Page 10 and 11, the study uses

15   hypothetical impact scenarios of 5, 10 and

16   15 percent to, quote, "demonstrate the

17   magnitude of the potential economic losses";

18   right?

19 A.   (Kavet) Right.

20 Q.   And on Table 2, on Page 11, it says, quote,

21   "The table shows these estimates along with

22   the expected reduction in economic impacts

23   associated with various levels of reduced

24   visitation"; right?

1   A.   (Kavet) That's right.

2   Q.   So these are purely a range of estimates or

3   hypothetical scenarios; right?

4   A.   (Kavet) Yes.

5   Q.   There isn't anyplace in this study that

6   pointed to actual tourism impacts as a

7   consequence of a transmission line being

8   built; right?

9   A.   (Kavet) Yeah, because it's virtually

10   impossible to measure.

11   Q.   Right. So the study doesn't say anywhere,

12   for example, that it's reasonable to conclude

13   that these impacts will occur or anything

14   like that; right?

15   A.   (Kavet) Survey-based data is all you have.

16   So that's when I say that the relevant data

17   that's available is not something that's

18   exhaustive. That's what you have is

19   survey-based data.

20   Q.   Did the State of California rely on this

21   study or accept it?

22   A.   (Kavet) I don't know.

23   Q.   Did any regulatory body rely on it or accept

24   it?

1   A.   (Kavet) I don't know.

2   Q.   All right. Let's look at the third study you

3   relied on, which is Exhibit 148, Page 64.

4   This is the Delaware Water Gap National

5   Recreation Area; right?

6   A.   (Kavet) Yes.

7   Q.   And you see Page 64, an analysis of a

8   proposed high-voltage transmission line

9   affecting the Delaware Water Gap National

10   Recreation Area in Pennsylvania and New

11   Jersey calculated reductions in tourism

12   visitation and spending to be 5 percent;

13   right?

14   A.   (Kavet) Yes.

15   Q.   And this study is referenced in Footnote 59

16   of your report; right?

17   A.   (Kavet) That's right.

18   Q.   Did you review the final environmental impact

19   statement that was issued for this area.

20   A.   (Kavet) No, I didn't.

21   Q.   All right.

22   MR. NEEDLEMAN: Let's pull

23   that up. It's Applicant's 308. And I want

24   to go to Page 573.

1   A.   (Kavet) Do you have the date on that?

2   Q.   I think we might.

3   MR. NEEDLEMAN: Do we have the

4   date on that?

5   BY MR. NEEDLEMAN:

6   Q.   I'm not sure I have it handy, but I can get

7   it easily enough. Let's go to Page 573.

8   This is the final EIS for this project.

9   A.   (Kavet) Yeah, okay.

10   Q.   So that first line says that there is

11   uncertainty as to how visitors would respond

12   to the introduction of this line in the

13   existing area; right?

14   A.   (Kavet) Yes.

15   Q.   And then it goes on to offer conclusions,

16   which I want you to take a second to look at.

17   (Witness reviews document.)

18   A.   (Kavet) Okay.

19   Q.   So, again, this is sort of in the same

20   category as the other two reports we looked

21   at; right?

22   A.   (Kavet) Yes.

23   Q.   No solid conclusion.

24   A.   (Kavet) Well, there's no way to measure who

```
 1        doesn't come to a tourist location once

 2        something happens.  Unless it's an enormous

 3        effect, you're not going to see it as being

 4        measurable.  And it's very hard to have a

 5        baseline and say, well, in the absence of

 6        this, how many people would have come.  So

 7        it's typically survey-based work that says,

 8        you know, what do you think you would do.

 9        And that's not always what people do.  But

10        that's pretty much the only data that exists,

11        and it's why we preface this by saying

12        there's not a lot of hard data to base

13        conclusive estimates on.

14   Q.   And this line was actually constructed;

15        right?

16   A.   (Kavet) It was what?

17   Q.   This line was --

18   A.   (Kavet) Yes.

19   Q.   -- actually constructed; right?

20   A.   (Kavet) Yes, it was.

21   Q.   So let's go to this next category you relied

22        on, which is local experts.  I want to look

23        at Exhibit 148, Page 65.  And I think we

24        already talked about you relying on the
```

1   opinions of Mr. Okrant and Ms. DeSouza;

2   right?

3 A.   (Kavet) Yes.

4 Q.   And on Page 65, you say that these experts

5   estimated that tourism visitation and

6   spending could be reduced by at least 3 to

7   10 percent, possibly as much as 15 percent

8   due to the presence of the proposed project;

9   right?

10 A.   (Kavet) That's right.

11 Q.   And I think you told me at the tech session

12   that you met with these two individuals

13   separately to discuss the Project; right?

14 A.   (Kavet) Yes, and had telephone conversations

15   and, you know, some ongoing contact.

16 Q.   You met with Mr. Okrant on July 26, 2016.

17   Does that sound right?

18 A.   (Kavet) That sounds about right.

19 Q.   Okay. And you provided Mr. Okrant with the

20   Applicant's tourism assessment and associated

21   materials; right?

22 A.   (Kavet) That's correct.

23 Q.   And I want to pull up Exhibit 309. This is

24   Mr. Okrant's e-mail back to you; is that

1   right?

2   (Witness reviews document.)

3   A.   (Kavet) Looks like one of them.

4   Q.   And he offered comments on Mr. Nichols'

5   tourism assessment; right?

6   A.   (Kavet) Okay. Initial comments on it, yeah.

7   Q.   And if we go -- I think there's another page.

8   Right. So his last bullet point says, "In

9   conclusion, the research is generally sound;

10   however, were I in his shoes"-- and I assume

11   he's referring to Mr. Nichols -- "I would

12   want quantitative support for the statements

13   about the transmission line's limited impact

14   on visitor behaviors"; right?

15   A.   (Kavet) Yes.

16   Q.   Did you ever give him that quantitative

17   support?

18   A.   (Kavet) No.

19   Q.   And despite his concern, do you know if he

20   ever located that quantitative support?

21   A.   (Kavet) I don't know what he did in the

22   interim.

23   Q.   Despite his concern about wanting

24   quantitative support, he never offered any to

1   you; right?

2 A.   (Kavet) Oh, yes, he did. That's what his

3   statement about, you know, estimated impacts

4   being in the 3 percent, 5 percent, 15 percent

5   range. He felt those were possible. And we

6   reviewed the statement that we had in our

7   report with him prior to issuing the report.

8 Q.   So your testimony is that his quantitative

9   support were those estimated impact ranges.

10 A.   (Kavet) I think it's his opinion. I don't

11   know if he did any quantitative work to

12   arrive at that.

13 Q.   Let's try it again. He said that, of Mr.

14   Nichols, he would like to see quantitative

15   support with respect to the impact of visitor

16   behavior. And I asked you if he provided you

17   with any of the kind of quantitative support

18   that he said he would have been interested in

19   seeing from Mr. Nichols. And my

20   understanding is that you're saying, yes, he

21   did; he gave me those impact numbers of 3 to

22   15 percent.

23 A.   (Kavet) He gave us impact numbers. That's

24   right.

1   Q.   So that's his quantitative support.

2   A.   (Kavet) That's the quantitative support he

3   provided to us. What he was saying is he

4   was -- in this e-mail, he would have liked to

5   see quantitative support for Mr. Nichols'

6   analysis.

7   Q.   And he didn't give you any analysis or

8   anything else in writing in support of these

9   estimates; right?

10   A.   (Kavet) Everything he gave us in writing you

11   would have seen.

12   Q.   Which I believe I did. And I didn't see

13   anything else to support that. So am I

14   correct that that was it?

15   A.   (Kavet) There would have been communication

16   about what we were saying and his affirmation

17   of that. I don't know if that's --

18   Q.   So as you sit here today, do you remember him

19   providing any analysis at all that supported

20   those estimated impact ranges?

21   A.   (Kavet) Well, yes, he provide those estimated

22   impact ranges. He did not provide some

23   10-page report on how he got to that or why

24   he thought that, but he confirmed that he

 1   thought those were reasonable.

 2   Q.   Right. And that was it.

 3   A.   (Kavet) That's correct.

 4   Q.   Okay. And when you met with Ms. DeSouza, she

 5   didn't provide an assessment in writing to

 6   you either; is that right?

 7   A.   (Kavet) That's correct. It was the same sort

 8   of process. We had a discussion, long

 9   meeting and discussion and follow-up. And

10   then we asked her if, consistent with what

11   she had told us, the statement in the report

12   was accurate, and she affirmed that.

13   Q.   You took notes of your conversations with

14   her, based on the discovery. But I didn't

15   see any e-mails from her like I did from Mr.

16   Okrant. Does that sound right?

17   A.   (Kavet) That's possible.

18   Q.   And the notes discuss the importance of

19   tourism in the North Country; various,

20   specific tourist destinations, importance of

21   scenic views and things like that. Does that

22   sound familiar?

23   A.   (Kavet) Yes.

24   Q.   Now, you told me at the tech session that, to

1   the best of your knowledge, you didn't know

2   whether either of these individuals have

3   experience assessing impacts of tourism from

4   high-voltage transmission lines; right?

5   A. (Kavet) That's right. Specifically with

6   high-voltage transmission lines, yes.

7   Q. And you told me at the tech session that it's

8   your understanding that neither have

9   experience assessing the quantitative effects

10   of infrastructure projects on tourism; right?

11 A. (Kavet) Well, they certainly worked with

12   organizations that would have been assessing

13   those effects. So I imagine there's

14   familiarity with that. I mean, they both

15   headed up entities that were -- for whom

16   tourism was a central purpose of their

17   organization. So they would certainly be

18   capable of opining and assessing things that

19   could affect tourism.

20 Q. Are you aware of a single infrastructure

21   project that either of them assessed in

22   relation to tourism impacts?

23 A. (Kavet) I'm not.

24 Q. I think you also told me at the tech session

1   that the ranges on Page 65 of your report

2   that you attribute to them are simply their

3   estimates; correct?

4   A.   (Kavet) That's correct.

5   Q.   And you also told me that, to the best of

6   your knowledge, you didn't know whether they

7   relied on any quantitative information for

8   those estimated impacts.

9   A.   (Kavet) That's correct.

10 Q.   And they didn't provide you with any data

11   supporting these estimates aside from what

12   we've discussed.

13 A.   (Kavet) That's correct.

14 Q.   In fact, at the tech session you told me that

15   you didn't ask for any additional data beyond

16   what they provided; correct?

17 A.   (Kavet) That's right.

18 Q.   So, other than the conversations you had with

19   these individuals, you have no other

20   information to rely on in support of these

21   estimates; right?

22 A.   (Kavet) That's correct.

23 Q.   So I want to -- now that we've established

24   how you got to your opinion that there may be

1   impacts, I want to talk about the calculated

2   impacts or your methodology. And I want to

3   look at Page 48 -- Page 65 of Exhibit 148.

4   And at the bottom you say, "Based on these

5   analyses and expert local opinion, we have

6   constructed several alternative possible

7   impact ranges based on estimates of current

8   direct tourism spending and the degree to

9   which transmission line visibility may affect

10   each region"; right?

11 A.   (Kavet) Right.

12 Q.   And then on Page 66, I think you explained

13   that you first started by estimating tourism

14   spending using Plymouth State University's

15   Tourism Satellite Accounts; right?

16 A.   (Kavet) Yes.

17 Q.   And then --

18 A.   (Kavet) We didn't estimate that. We just

19   used their data; right.

20 Q.   Correct. Then you used viewshed analyses

21   done by T.J. Boyle to calculate the

22   percentage of land that would have visibility

23   of the Project; right?

24 A.   (Kavet) That's right.

1   Q.   So, a somewhat similar approach to what you

2   did with the property value analysis; right?

3   A.   (Kavet) Yeah, similar.

4   Q.   And you used this viewshed analysis data as

5   the area of potential impact for tourism in

6   New Hampshire; right?

7   A.   (Kavet) That's right.

8   Q.   And then as you explained on Page 66, you

9   calculated losses in each of the seven

10   tourism regions by applying estimated impacts

11   of 3, 5, 10 and 15 percent; right?

12 A.   (Kavet) That's right.

13 Q.   So am I correct that you haven't used this

14   type of methodology anyplace else to assess

15   tourism impact?

16 A.   (Kavet) No, not with the GIS viewshed --

17 Q.   So that would be, yes, I'm correct. You've

18   never used this methodology.

19 A.   (Kavet) Well, we used aspects of the

20   methodology, but not using GIS data.

21 Q.   So it's the first time this methodology has

22   actually been used anyplace, as far as you

23   know.

24 A.   (Kavet) Yes.

1 Q. And you told me at the tech session that you

2   didn't do any assessment to determine whether

3   areas of supposed impact, which I think are

4   areas of visibility, actually have tourism

5   destinations or tourism-related businesses in

6   those areas; right?

7 A. (Kavet) That's right. We didn't do bottom up

8   and say this is a really special place and

9   here's where I chose, and it's going to be 10

10   times more impactful than another area that

11   has visibility that somebody hardly ever goes

12   to. So it's a way to narrow the impact based

13   on visibility, but it's not something that,

14   you know, people are walking around picking

15   every single site and saying one's going to

16   be a very, very concentrated impact and one a

17   lesser impact.

18 Q. So let's call up Applicant's Exhibit 310.

19   You indicated in your report that you used

20   these viewshed analyses in order to make

21   these kinds of determinations; right?

22 A. (Kavet) That's right. Well, yes, to make an

23   estimate.

24 Q. To make an estimate.

1   A.   (Kavet) Hmm-hmm.

2   Q.   And on this map, I think --

3   MR. NEEDLEMAN: Dawn, if we

4   can pull up that highlighted yellow box for a

5   minute just so people understand it. I think

6   folks are pretty familiar with this at this

7   point.

8   BY MR. NEEDLEMAN:

9   Q.   This is one of the delta maps. It shows

10   existing visibility of the line and then

11   shows projected visibility of the new line.

12   You're familiar with that; right?

13 A.   (Kavet) Is that from the Applicant or Counsel

14   for the Public?

15 Q.   This one is DeWan, Applicant.

16 A.   (Kavet) Okay.

17 Q.   So you're familiar with these kinds of maps?

18   These are generally what you used.

19 A.   (Kavet) Yeah, from T.J. Boyle.

20 Q.   So let's go back to the map for a minute. So

21   those areas in orange on this map are the

22   areas of existing visibility.

23   Did you do any analysis to determine

24   whether any of the areas within the viewshed

1   are tourist destinations? I think you said

2   you didn't.

3 A. (Kavet) Not individual. We didn't do this at

4   a micro level. This is at a much more macro

5   level. So we weren't going site by site and

6   trying to determine each one.

7 Q. And you made no effort to distinguish between

8   areas that have existing visibility of a line

9   versus areas that will have new visibility of

10   the line.

11 A. (Kavet) That's right. It's total visibility.

12 Q. And you told me at the tech session that you

13   didn't do any analysis to determine whether

14   these tourist areas within the 10-mile

15   viewshed actually do have a view; right?

16 A. (Kavet) Oh, no. They show up as having a

17   view because they're in the viewshed area.

18   But it's just not specific to individual

19   locations, yeah.

20 Q. But you understand that a lot of these maps

21   are hypothetical visibility; they're

22   computer-generated visibility assessments.

23 A. (Kavet) They're the best guess anybody has as

24   to, you know, where that might be. Are they

```
 1        perfect?  No.  But there are a lot of things
 2        less perfect than those in the whole scheme
 3        of this.
 4   Q.   Right.  And you told me at the tech session
 5        that your analysis assumes there's an impact
 6        even if there's not actual visibility of the
 7        Project; right?
 8   A.   (Kavet) That's right.  It's an aggregate
 9        estimate.  It's a way of saying, look, it's
10        not a hundred percent of the area, it's some
11        smaller percentage of that.
12   Q.   And your range of estimated impacts was 3 to
13        15 percent; right?
14   A.   (Kavet) Within -- yeah, that's right.  So you
15        narrow the initial total tourism visitation
16        spending area to the areas that -- you reduce
17        that to the areas that have visibility.  And
18        about 1.5 percent of the affected areas have
19        visibility, so you're narrowing it
20        dramatically.  Even though tourists may drive
21        throughout this and experience many, many
22        different locations in which there would be
23        visibility.  So they don't just go to one
24        spot and stay there.  But it's a way to -- I
```

1   think of a very conservative approach. It

2   ends up being, you know, the total impact is

3   all of fifteen hundredths of one percent of

4   total spending. This is not saying we're

5   taking 5 percent of all the spending that

6   happens in this area. You reduce it to a

7   very small area, and then you apply that

8   percentage.

9   Q.   And for purposes of this aggregated analysis,

10   you used a 9 percent impact figure, which was

11   the mid-range of 3 to 15 percent; right?

12   A.   (Kavet) Yeah, but we presented all of them as

13   well. But yes, for one that's just the

14   midpoint for the final tables, that was a 9

15   percent impact.

16   Q.   So if an important tourism destination in New

17   Hampshire was 8 miles from the line and had

18   just a little bit of visibility of the

19   Project, you assumed a 9 percent impact?

20   A.   (Kavet) Well, it's an aggregate approach.

21   It's not a bottom-up approach. So we're not

22   assuming one thing for each one of these.

23   We're saying in total --

24   Q.   So the answer to my question is "Yes."

1   A.   (Kavet) Yes.

2   Q.   For example, you assumed that the Balsams

3   would experience a 9 percent loss, even

4   though Mr. Otten testified that he thought

5   there would be no loss; right?

6   A.   (Kavet) Well, it's not going to be the whole

7   Balsams. It's going to be a small percentage

8   based on the land area that has visibility.

9   So I understand you can't -- and I don't know

10   exactly what the viewshed map looks like

11   there. But I don't think you can see it from

12   everywhere at the Balsams.

13   Q.   Suffice it to say your analysis disagrees

14   with Mr. Otten's testimony; right?

15   A.   (Kavet) I haven't read Mr. Otten's testimony,

16   so I don't know.

17   Q.   And you assumed these impacts would continue;

18   correct?

19   A.   (Kavet) Yes, the impact would continue. It's

20   a change to the visual environment that

21   persists.

22   Q.   And am I correct that you haven't cited a

23   single source in any of your material that

24   shows actual impacts on tourism as a result

```
 1        of a high-voltage transmission line being

 2        constructed?

 3  A.    (Kavet) Yeah.  They don't exist.

 4  Q.    And if you had found such information, of

 5        course you would have provided it; right?

 6  A.    (Kavet) Yes.

 7  Q.    So to the best of your knowledge, it doesn't

 8        exist.

 9  A.    (Kavet) Yes.

10  Q.    So, on Page 28 of your report, again Exhibit

11        148, under B, this talks about -- and I'm

12        looking at the first paragraph.  So Mr.

13        Nichols offered the view that in his 20 years

14        of working in the tourism industry, he never

15        experienced any of his clients talking about

16        concerns with respect to transmission lines;

17        right?

18  A.    (Kavet) Yes, he did.

19  Q.    And he was fairly emphatic in that view, and

20        you disagreed with him.  And I think -- well,

21        you explain here that you disagree with him

22        because you say it's sort of a

23        self-fulfilling prophecy; nobody would locate

24        transmission lines in these areas of high
```

1   scenic value; right?

2   A.   (Kavet) Well, what we're saying is we talked

3   to people in New Hampshire with specific

4   experience and deep knowledge of the tourism

5   industry, and they had a different opinion.

6   So they relied on that for a New

7   Hampshire-based analysis. But are there a

8   lot of transmission lines that go through

9   scenic areas? No.

10   Q.   What is not considered in this logic,

11   however, is the absence of discussion

12   regarding the development of high-voltage

13   transmission lines in areas of high scenic

14   value. It's not because they would not

15   impact tourism visitation, but because such

16   areas would never consider allowing this type

17   of development.

18   A.   (Kavet) That's right.

19   Q.   That's what you said in your report.

20   A.   (Kavet) That's correct.

21   Q.   And in fact, I think you discussed this issue

22   a little bit with Mr. Reimers the other day

23   when he pointed you to Mr. Nichols' reference

24   to Estes Park in Colorado, where I gathered

1   you lived for a time.

2   A.   (Kavet) I didn't live there. But my family

3   had property, yeah.

4   Q.   And I think -- well, I'm not going to talk

5   about Estes Park, but I want to bring up

6   Exhibit 311.

7   MR. NEEDLEMAN: Let's blow

8   that up a little bit.

9   Q.   Have you ever seen a map like this before?

10   A.   (Kavet) Not that exact one, but I've seen

11   maps like that before.

12   Q.   Okay. This is the EIA map of transmission

13   lines in the United States with a voltage of

14   345 kV or higher. And I'll represent to you

15   that it actually doesn't include any 115 or

16   230 lines. You think it's fair to say that

17   if we included 115 and 230 lines, the map

18   would be more cluttered?

19   A.   (Kavet) I would guess so.

20   Q.   Looking at this map, is it your testimony

21   that none of these transmission lines are

22   located in scenic tourist destinations?

23   A.   (Kavet) None of them? I can't say that.

24   Q.   So it's certainly possible that some of them

1   or a lot of them could be located in those

2   areas, which would disagree with the

3   statement that you made in your report;

4   right?

5 A.   (Kavet) It's possible.

6 Q.   Let's look at -- well, hang on.

7   So, Mr. Reimers, when he was talking to

8   you about Estes Park, I think you said that

9   with regard to Estes Park, none of the lines

10   go through scenic areas in that area.

11 A.   (Kavet) They don't go through the park.

12   There are a lot of scenic areas all over the

13   place, and there are lines that pop up in

14   scenic areas that aren't national parks. But

15   they don't go through Rocky Mountain National

16   Park.

17   MR. NEEDLEMAN: So, Dawn, can

18   you put up Exhibit 312, please?

19 Q.   Do you recognize that?

20 A.   (Kavet) I don't.

21 Q.   That's the Delaware Water Gap National

22   Recreation Area, which was actually one of

23   the three studies that you referenced in your

24   report which we talked about a few minutes

1   ago.

2   A.   (Kavet) Okay.

3   Q.   And I'll represent to you that this was taken

4   from a place called Blair Mill Brook Road,

5   which is in the rec area, and it's looking

6   further into the rec area; right?

7   A.   (Kavet) Yeah.

8   Q.   So this is a scenic tourist destination;

9   right?

10   A.   (Kavet) Yeah.

11   Q.   And that is an example of a new 500 kV line

12   running right through that resource; correct?

13   A.   (Kavet) Right.

14   Q.   So in this case, the scenic tourist

15   destination did allow that to happen; right?

16   A.   (Kavet) That's right. And we sited that

17   report as one we looked at.

18   Q.   But you had not actually seen the line

19   before; right?

20   A.   (Kavet) No, hadn't actually seen the line.

21   MR. NEEDLEMAN: Dawn, let's go

22   to the next page.

23   BY MR. NEEDLEMAN:

24   Q.   So this is Diablo Lake along the North

1   Cascade Scenic Byway in Washington State.

2   This was taken from a place called Diablo

3   Lake Vista Point. Do you recognize it?

4   A.   (Kavet) I don't.

5   Q.   And would you disagree that this is a scenic

6   tourist destination?

7   A.   (Kavet) It certainly appears to be a scenic

8   destination.

9   Q.   And there are transmission lines and

10   transmission infrastructure right at the end

11   of the lake in the center of that photo;

12   right?

13 A.   (Kavet) That's right.

14   MR. NEEDLEMAN: Let's go to

15   the next one, Dawn.

16 BY MR. NEEDLEMAN:

17 Q.   Do you know where that one is?

18 A.   (Kavet) I do not.

19 Q.   That is the Seward Highway south of Anchorage

20   and north of Girdwood, Alaska. Have you been

21   there before?

22 A.   (Kavet) No, I haven't.

23 Q.   I want to pull up an article that describes

24   this highway. Take a moment to look at that.

1   (Witness reviews document.)

2   A.   (Kavet) Okay. Who's writing it?

3   Q.   Looks like someone named Derek Ray.

4   A.   (Kavet) Is this one person's, Derek Ray's,

5   opinion of what's beautiful and what isn't?

6   Q.   Sounds like it.

7   A.   (Kavet) Okay.

8   Q.   Did you have a chance to look at all that?

9   MR. IACOPINO: What's the name

10   of the publication?

11   MR. NEEDLEMAN: Looks like the

12   San Diego Reader.

13 BY MR. NEEDLEMAN:

14 Q.   Did you have a chance to read the

15   highlighting in yellow?

16 A.   (Kavet) I did.

17 Q.   Let me go to the next page then.

18   (Witness reviews document.)

19 Q.   Have you had a chance to read that?

20 A.   (Kavet) Yes.

21 Q.   So, based on the picture you saw and this

22   description, would you agree that this is

23   certainly a scenic tourist destination with a

24   transmission line running through it?

1   A.   (Kavet) Yes, sounds like it.

2   Q.   Let's go to the next photo. This is

3   Merrymeeting Bay in Maine. It's taken from

4   Browns Point Road at the mouth of the

5   Abagadasset River. And I'll try to spell

6   that later.

7   And I'll represent to you that the

8   taller structures on the right are actually

9   the MPRP project which we've heard so much

10   about.

11   A.   (Kavet) Okay.

12   Q.   This location is a designated resource under

13   Maine law. Fair to say that there are

14   transmission lines in proximity right in view

15   of that scenic resource?

16   A.   (Kavet) It appears so.

17   Q.   Let's go to the next one. This is Sandy

18   Point Beach on Cousins Island in Casco Bay,

19   Maine. That's a 345 kV line connecting to

20   Wyman Station, which is not the MPRP Project.

21   This is also a designated scenic resource

22   under Maine law.

23   Same question: Fair to say there are

24   transmission lines running through that

1   scenic resource?

2   A.   (Kavet) Yes.

3   Q.   Next one. This is Sonoma Wine Country, Barns

4   Road, near Santa Rosa, California. I won't

5   belabor the point, but fair to say it's

6   another scenic area with transmission lines

7   running through it?

8   A.   (Kavet) Yes.

9   Q.   And one other. This is Scottsdale Desert

10   Foothill Scenic Drive in Scottsdale, Arizona.

11   It's a designated scenic drive. Again, fair

12   to say there are high-voltage transmission

13   lines running through this area?

14   A.   (Kavet) Yes.

15   Q.   So, based on everything I just showed you,

16   and that EIA map we looked at before, would

17   you agree with me that there are probably a

18   lot of other similar locations like this?

19   A.   (Kavet) Are there any scenic locations that

20   have high-voltage transmission lines running

21   through them now? Yes.

22   Q.   So, despite your criticism of Mr. Nichols on

23   Page 28, in fact, transmission lines are

24   allowed in high scenic areas; isn't that

 1   correct?

 2   A.   (Kavet) Allowed? Yes. They're often --

 3   Q.   Using your word.

 4   A.   (Kavet) My word "allowed"? I don't see where

 5   I say "allowed."

 6   Q.   I think you said, "Such areas would never

 7   allow such lines."

 8   (Witness reviews document.)

 9   A.   (Kavet) Yes, there are many areas that would

10   not consider allowing that type of

11   development.

12   Q.   Let's move on to another topic. I want to

13   look at Exhibit 148, Page 70. This relates

14   to your opinions about construction impacts

15   of the Project. And you say on Page 70,

16   during the construction phase, both

17   above-ground and underground construction

18   activities could have significant disruptive

19   impacts on tourism; is that correct?

20   A.   (Kavet) That's correct.

21   Q.   And you state that these would be localized

22   traffic-related issues that are

23   shorter-lived; right?

24   A.   (Kavet) That's right.

1   Q.   And they include traffic delays from road and

2   trail closures or detours, traffic and

3   business disruptions from underground

4   construction on highway rights-of-way that

5   pass through affected towns and downtown

6   areas I think is what you said; right?

7   A.   (Kavet) That's correct.

8   Q.   So I want to focus on this underground

9   section a little bit because it has received

10   so much attention in these proceedings.

11   Your view is that 52 miles of

12   underground from Bethlehem to Bridgewater in

13   state roads could experience, as you say,

14   significant disruptive effects on tourism;

15   right?

16   A.   (Kavet) In some areas, yes.

17   Q.   I think when we were talking earlier today,

18   you mentioned to me that as part of the work

19   you did on the TDI Project, the New England

20   Clean Power Link, that part of your analysis

21   included the assessment of tourism impacts;

22   right?

23   A.   (Kavet) That's correct.

24   Q.   And I think you would probably agree with me

1   that Vermont is a state where tourism is

2   important to the economy?

3   A.   (Kavet) Yes, it is.

4   Q.   And we discussed the similarities earlier

5   between that project and NPT. What I want to

6   do is I want to focus on the underground

7   section. So I'm going to call up Applicant's

8   313. This is the overview of the underground

9   section of that TDI project. I assume that

10   looks familiar to you?

11   (Witness reviews document.)

12 A.   (Kavet) Yes.

13 Q.   And that box that Dawn blew up is a summary

14   of that underground section that shows

15   56.8 miles of underground; right?

16 A.   (Kavet) Okay.

17 Q.   And I think that when you back out town roads

18   and a little bit of distance along the

19   railroad corridor, there are 43.5 miles in

20   state roads. Sound right?

21 A.   (Kavet) Sounds about right, yeah.

22 Q.   So let's go to Applicant's 301. Do you

23   recognize this document?

24 A.   (Kavet) Yes.

1   Q.   This is your prefiled testimony in that

2   matter; right?

3   A.   (Kavet) Yes.

4   MR. NEEDLEMAN: And Dawn,

5   let's go to Page 17 of that testimony, and I

6   think I want to focus on the bottom. We're

7   going to have to carry over to the next page,

8   but let's just start there.

9   BY MR. NEEDLEMAN:

10   Q.   You said in your testimony in this case, "The

11   primary negative externalities considered in

12   this economic analysis were possible traffic

13   delays and potential negative impacts on

14   local businesses that could be affected by

15   traffic issues during underground

16   construction work"; right?

17   A.   (Kavet) Yes.

18   Q.   And then you go on to say, "These were not

19   considered large enough to include as model

20   inputs, based on TDI-NE's other testimony in

21   this case indicating that such negative

22   externalities would be minimal and temporary,

23   with local business access maintained during

24   construction periods and minor detours

```
 1        planned where necessary to keep traffic

 2        flowing."

 3   A.   (Kavet) That's correct.

 4   Q.   Are you aware that Northern Pass is committed

 5        to maintaining local business access during

 6        construction periods?

 7   A.   (Kavet) I could not imagine greater

 8        difference in what we experienced --

 9   Q.   That wasn't my question.

10   A.   (Kavet) -- on the TDI route and the current

11        route.

12   Q.   Okay.  So --

13   A.   (Kavet) You say that you have made an effort

14        to coordinate and minimize impacts with

15        towns.  When we visited with some of these

16        towns, select boards alike, they were not

17        unanimous in that opinion.  So I don't know

18        that I share that.

19   Q.   Well, let's go back to my question.  My

20        question was:  Are you aware that Northern

21        Pass is committed to local business access

22        during the construction period?

23   A.   (Kavet) To maximizing or just local

24        businesses?
```

1 Q. To maintaining local business access during

2   construction periods. Were you aware of

3   that?

4 A. (Kavet) Yes.

5 Q. And are you also aware that Northern Pass

6   plans minor detours?

7 A. (Kavet) Yes.

8 Q. I want to call up Exhibit 314. This is the

9   prefiled testimony of someone named Allen

10   Wironen on behalf of that project as well.

11   My understanding is that Mr. Wironen was the

12   traffic witness; is that right?

13 A. (Kavet) I don't know.

14 Q. Okay. Well, let's look at his testimony on

15   Page 9. Have you ever seen this testimony

16   before?

17 A. (Kavet) I don't recall.

18 Q. So you said in your testimony that you were

19   relying on the testimony of other TDI

20   witnesses with respect to managing

21   construction impacts. Was he not someone you

22   were relying on, or do you just not remember?

23 A. (Kavet) We were relying on direct contact

24   with municipalities, for the most part.

1   Q.   All right. Well, let's look at what this

2   other witness had to say about this issue on

3   Page 9. He said that work along the proposed

4   route will involve lane closures, lane

5   restrictions, road closures and other

6   potential traffic inconveniences. "As

7   indicated above, TDI-New England will ensure

8   each residence and business along the route

9   will have access during the construction.

10   Work along narrow municipal roads may require

11   the roads be restricted to one lane and

12   closed to all but local traffic."

13   A.   (Kavet) Yes.

14   Q.   "In Alburgh, Benson and Ludlow, properties

15   will be reachable following alternative

16   routes or detours." That's what he said;

17   right?

18   A.   (Kavet) Yes.

19   Q.   So, in both New England Clean Power Link and

20   NPT, each project plans to build segments of

21   roughly comparable length in state roads;

22   right?

23   A.   (Kavet) Yes.

24   Q.   And both are located in states where tourism

1   is important; right?

2   A.   (Kavet) Yes.

3   Q.   And you considered traffic delays and effects

4   on businesses in both; correct?

5   A.   (Kavet) That's correct.

6   Q.   And in New England Clean Power Link, you

7   thought these impacts were so negligible,

8   they didn't even merit assessment; correct?

9   A.   (Kavet) Correct.

10   Q.   And in NPT, your opinion is that construction

11   activities could have a significant

12   disruptive effect on tourism; right?

13   A.   (Kavet) Yes, in certain locales.

14   Q.   So we seem to have a situation here where,

15   when you worked for the developer, you found

16   no issue, but in a virtually identical set of

17   circumstances, where you're not working for

18   the developer, you reach a very different

19   conclusion; right?

20   A.   (Kavet) There are two different developers

21   here, and they seem to have approached this

22   issue in very different ways. So when they

23   ran into a municipality where there's a

24   problem and they couldn't -- businesses were

1   saying this is really going to be problematic

2   for us, they changed the route. They moved

3   the route to a rail line in one location.

4   And they would work with each town to develop

5   alternative routes, methods, approaches to

6   minimizing impacts, such that local

7   businesses and the towns were all comfortable

8   with that along the route. That's not what

9   I've experienced with this particular

10   project.

11   Q. Let's move on to the next topic. You've done

12   economic impact analyses for a number of

13   Vermont wind projects; is that correct?

14   A. (Kavet) That's correct.

15   Q. And you addressed potential impacts to

16   tourism as part of those assessments; is that

17   right?

18   A. (Kavet) That's right.

19   Q. And I think there were three projects, at

20   least that I'm aware of, that you worked on:

21   Sheffield, Kingdom Wind and Deerfield Wind.

22   Sound right?

23   A. (Kavet) Yes.

24   Q. And in all three projects, like with New

1   England Clean Power Link, you were working

2   for the project developer; is that right?

3   A.   (Kavet) That's correct.

4   Q.   I want to pull up Applicant's 315. Do you

5   recognize this document?

6   A.   (Kavet) Yes.

7   Q.   This was actually just you at that point.

8   Mr. Rockler, I guess, wasn't working with you

9   at the time.

10   A.   (Kavet) No, he was, but we don't always do

11   every project together.

12   Q.   Okay. Fair enough. This is your assessment

13   of the Sheffield Wind Project in Vermont; is

14   that right?

15   A.   (Kavet) Yes.

16   Q.   And I want to turn to Page 17. And let's

17   blow up the statement you have there.

18   You say, "There have been no empirical

19   studies that measure regional tourism

20   expenditures before and after a wind farm

21   development with valid control regions.

22   Without such data, it is impossible to assign

23   and quantify a meaningful adjustment metric

24   for tourism expenditures." Is that what you

1   said?

2   A.   Yes.

3   MR. NEEDLEMAN: And let's pull

4   up Applicant's 316.

5   BY MR. NEEDLEMAN:

6   Q.   This was a 2008 study you did of the

7   Deerfield Wind Project; right?

8   A.   (Kavet) Yes.

9   Q.   And I guess you were both on this one.

10   MR. NEEDLEMAN: Let's go to

11   Page 30 of that and go to the yellow

12   highlighting.

13   BY MR. NEEDLEMAN:

14   Q.   And I won't read it again because I think the

15   statement you make here is identical to the

16   statement that you made in the earlier

17   project; is that right?

18   A.   (Kavet) That's right.

19   MR. NEEDLEMAN: Then let's

20   pull up Applicant's Exhibit 317.

21   BY MR. NEEDLEMAN:

22   Q.   Does that seem familiar?

23   A.   (Kavet) Yes.

24   Q.   So this was the Kingdom Wind Project now in

1   2010; right?

2   A.   (Kavet) Kingdom Community Wind Project. Yes.

3   MR. NEEDLEMAN: And let's go

4   to Page 8 of that report. Go to the yellow

5   highlighting.

6   BY MR. NEEDLEMAN:

7   Q.   And again I won't read it, but I think it's

8   identical to those prior two statements from

9   2006 and 2008; is that right?

10   A.   (Kavet) Yes.

11   Q.   Okay. So, on three separate occasions when

12   you were representing wind developers, you

13   said it was impossible. Not just very

14   difficult, but you literally used the word

15   "impossible" to assign and quantify a

16   meaningful adjustment metric for tourism

17   expenditures without empirical data; right?

18   A.   (Kavet) Yes.

19   Q.   When Mr. Reimers was questioning you, you

20   acknowledged that there are no after-the-fact

21   studies measuring tourism impacts in relation

22   to transmission lines; right?

23   A.   (Kavet) That's right.

24   Q.   In fact, there is no empirical data.

1   So if you had no empirical studies that

2   measure regional tourism expenditures before

3   and after a transmission line development

4   with valid control measures, how is it that

5   in this case you can make those sort of

6   estimates, where in these three cases it was

7   impossible?

8   A. (Kavet) Yeah, I think there are differences

9   between wind turbines and transmission lines,

10   and there are studies that show that as well.

11   But there's no doubt that there are not

12   strong data that are available with which to

13   do that. And there are none that can show

14   you a before and after effect. That's not

15   something that would perhaps even be possible

16   to measure, except perhaps through some

17   survey sort of approach. But it does point

18   to the difficulty of having source data with

19   which you can conclusively make an estimate.

20 Q. Let's be clear, because this is a very

21   important issue. My question has absolutely

22   nothing to do with the difference between a

23   transmission line and a wind project. I'm

24   focusing purely on methodology. And your

1   methodology says here, "without empirical

2   data it is impossible to draw conclusions."

3   So I want to understand now, in this case,

4   where you also don't have empirical data, why

5   it would not also be impossible to draw

6   conclusions?

7   MR. PAPPAS: Objection. I

8   think he's misstating what is stated on the

9   exhibits shown. Doesn't use the words "draw

10   conclusions."

11   MR. NEEDLEMAN: I'll restate

12   the question.

13 BY MR. NEEDLEMAN:

14 Q.   Focusing purely on methodology, in these

15   three cases you said, "without such data, it

16   is impossible to assign and quantify a

17   meaningful adjustment metric for tourism

18   expenditures." Why is it impossible to do

19   that without empirical data there, but

20   suddenly it's possible to do it here without

21   empirical data?

22 A.   (Kavet) I think it's difficult but not

23   impossible.

24 Q.   What's difficult? There or here?

1   A.   (Kavet) In both cases.

2   Q.   So you are changing the testimony now that

3   you offered three times in those other cases?

4   A.   (Kavet) That's right.

5   Q.   Okay. So let me go back to a question that

6   Ms. Menard asked you a while ago. It was

7   about industry bias.

8   So if an objective observer looks at the

9   opinions you offered in TDI regarding energy

10   market impacts and tourism and compares it to

11   what you're saying here, and then they

12   consider the discussion we just had about

13   wind projects, do you think that it might be

14   fair for them to conclude that there may be

15   some industry bias associated with the

16   opinions you're offering?

17   A.   (Kavet) No.

18   Q.   You think it's reasonable for someone who's

19   looking at the positions that you're offering

20   here to conclude that maybe you're not being

21   consistent from case to case?

22   A.   (Kavet) No.

23   Q.   Nothing further.

24   CHAIRMAN HONIGBERG: All

1   right. I think that concludes testimony from

2   everyone on that side of this table. So we

3   have members of the Committee. Anybody want

4   to step up and go first?

5   Off the record.

6   (Discussion off the record)

7   CHAIRMAN HONIGBERG: Mr.

8   Oldenburg.

9   QUESTIONS BY SUBCOMMITTEE MEMBERS AND SEC COUNSEL:

10   BY MR. OLDENBURG:

11   Q.   Good morning.

12   A.   (Kavet) Good morning.

13   Q.   Just a few questions, clarification

14   questions. I started with your testimony and

15   then go to your report, so it sort of jumps

16   back and forth on topics.

17   But in your testimony on Page 3, you

18   state that LEI overstated the construction

19   job creation by 20 percent -- or 18 percent

20   now, I guess it is.

21   A.   (Kavet) Yeah.

22   Q.   So, instead of 1365 or 67 jobs, there's only

23   going to be 1,050 New Hampshire jobs.

24   A.   (Kavet) Eleven twenty is the --

1 Q.   Okay. Thank you.

2 A.   (Kavet) Yeah.

3 Q.   And then under the gross state product during

4   construction, you state that LEI estimated

5   New Hampshire's GSP would increase by $102

6   million a year. But you believe it would

7   only increase by $84 million per year;

8   correct?

9 A.   (Kavet) That's also slightly changed --

10 Q.   Little bit different?

11 A.   (Kavet) -- it's now 90, yeah.

12 Q.   Okay. And then on Page 4, you talk about the

13   Brattle Group did four scenarios to develop

14   the potential impact in New Hampshire retail

15   electricity prices for the Project; correct?

16 A.   (Kavet) That's right.

17 Q.   And then you state that the Project could

18   result in $17 million per year reduction in

19   New Hampshire electricity prices, and that

20   would also result in an increase in New

21   Hampshire's GSP by $33 million per year.

22 A.   (Kavet) That's right.

23 Q.   And then you go on and state LEI didn't

24   estimate the property tax payments of NPT.

1   So that payment would increase New

2   Hampshire's GSP by 19 million per year;

3   correct?

4   A.   (Kavet) That's right. Now, again, they

5   did -- in their rebuttal analysis, they did

6   include it. So this was written before we

7   saw that.

8   Q.   So that $19 million increase, was that

9   included in your $84 million total from

10   Page 3, where you said it would increase the

11   GSP by $84 million --

12   A.   (Kavet) The GSP was just for the

13   construction- --

14   Q.   So they were separate --

15   A.   (Kavet) -- related impacts.

16   (Court Reporter interrupts.)

17   Q.   So they were separate.

18   A.   (Kavet) That's right.

19   Q.   And then you state that LEI failed to include

20   the benefits of the Forward NH Plan and its

21   estimated 150 jobs created and about

22         $15 million per year in annual net economic

23   output; correct?

24   A.   (Kavet) Yeah. It turns out they didn't fully

     1   include it in. Again, in their rebuttal,

     2   they separated that out, and they did include

     3   it for the first 20 years. It goes a little

     4   bit further. But that is a part of their

     5   analysis now. But yeah, with the original

     6   analysis, it wasn't clear that that had been

     7   included.

     8   Q.   Okay. So the difference in numbers aside, to

     9   summarize, there's at least 1,000 jobs

    10   created; there's $84 million plus or minus a

    11   year increase in GSP --

    12   A.   (Kavet) Yes.

    13   Q.   -- there's a potential reduction in

    14   electricity prices --

    15   A.   (Kavet) Right.

    16   Q.   -- of $30 million a year; there's another 150

    17   jobs created and economic gain due to the

    18   Forward NH Plan. So that really doesn't

    19   sound too bad. So what am I missing? This

    20   isn't a negative, is it?

    21   A.   (Kavet) No, there are lots of positives to

    22   this.

    23   Q.   Right.

    24   A.   (Kavet) I think it's really important to

1   understand. This is a -- there are a lot of

2   positives to it, and there's some negatives,

3   too.

4 Q. Okay. So let me go to your report. That was

5   sort of the economics side.

6   So under your report on Page 28, which

7   is the section on tourism, so this is sort of

8   a discussion on the tourism impacts analysis.

9 A. (Kavet) Yeah.

10 Q. And this sort of goes into a discussion that

11   Mr. Needleman just had with you, so I won't

12   belabor this too much. But you printed a

13   quote from the Sedona Chamber of Commerce and

14   Tourism Bureau in your report that states,

15   "The presence of a large high-voltage

16   transmission line in Sedona could obviously

17   have a negative tourism impact." So why is

18   that? I mean, I think --

19 A. (Kavet) I don't know if you've been to

20   Sedona, but it's red rock country in Arizona,

21   northern Arizona. Beautiful landscapes.

22   Lots and lots of tourism. And Mr. Nichols

23   said that he did consulting work for Sedona,

24   and so we contacted the head of the chamber

```
 1        of commerce to see if in fact they concurred
 2        that, yeah, this is sort of the conversation
 3        they had, that you could build a transmission
 4        line through here.  And her response was, "We
 5        would never consider doing that because of
 6        its potential impact on tourism."  So that
 7        was all just saying in an area where scenic
 8        amenity values are high, you know, it's more
 9        damaging than if it's out in the middle of
10        nowhere where nobody sees it or tourists
11        aren't attracted by scenic vistas and things
12        like that.
13   Q.   So I've never been to Sedona, but I went
14        there recently using Google.
15   A.   (Kavet) Yeah.
16   Q.   First picture.  So that's a picture of what I
17        would say is considered West Sedona --
18        upper --
19   A.   (Kavet) Yeah, okay.  So that's south on --
20   Q.   And in the upper --
21             (Court Reporter interrupts.)
22   A.   (Kavet) South on 89A, West Sedona.
23   Q.   So there's a circle that I circled in the
24        upper left.  That's a power substation.
```

1   A.   (Kavet) Okay.

2   Q.   And there's a line leading straight down the

3   page, sort of a cut. In New Hampshire you'd

4   see it really easy because of the trees. But

5   that's a transmission line that comes out of

6   that substation. And there's actually a

7   transmission line that goes into that part of

8   Sedona. And it's interesting that where it

9   is, it's not in the residential area. It's

10   actually in the recreational area, all those

11   lines around it. And you'll sort of see it

12   on the left side, all those labels end in the

13   word "trail." They're all recreational

14   trails. In fact, sort of the second one down

15   closest to the margin is called Power Line

16   Plunge Trail.

17   So I'm a little confused about the

18   statement that they wouldn't allow this; yet,

19   here's an example of it. But I think I get

20   where they're coming from with this, is if

21   you, which I did, took a trip down through

22   Sedona, if you go street view down through

23   there, they have no distribution lines.

24   Virtually every home in Sedona has buried

1   distribution utilities. There's not a pole.

2   There's no lines. Everything's underground.

3   So I could see where they could make that

4   statement that folks in Sedona aren't used to

5   seeing poles and lines because everything's

6   virtually buried in Sedona. Do you know --

7 A. (Kavet) I don't think it's all buried. There

8   are plenty of smaller distribution lines

9   around. But you obviously have to get power

10   in and out to any community. It's a question

11   of how and where you do that. And I don't

12   think that power line -- I'm not, you know,

13   positive what that looks like from the

14   ground. You don't have nearly the vegetative

15   cover, obviously, that you get in a place

16   like New Hampshire there, so you don't screen

17   anything. But I don't think that line is

18   anywhere near the size or magnitude of what's

19   being proposed here. And I don't know how

20   visible it is relative to the -- you know,

21   most of the -- I mean, there's sort of these

22   clusters of these red rock formations that

23   end up being the big tourism draws. You

24   know, so certainly placement of lines or

1		putting things underground are ways to
2		minimize impacts. And yeah, that's -- so I
3		think they would do that with care in a place
4		where you had a lot of tourism.
5	Q.	And I would accept by the looks of it, from
6		what I could see, it didn't look like it was
7		a 345 line. But it was a transmission line
8		substation intermixed right in a recreational
9		area, so --
10	A.	(Kavet) Right. The right-of-way doesn't --
11		again, it's hard to tell on this, but it
12		doesn't look anywhere near the size that it
13		might be if it were a really large line. And
14		I'm not saying there's not power lines in any
15		area that's scenic. You do have to get power
16		in and out for people. It's something we all
17		use. It's just how you do that. And if
18		they're scenic value, you're not as apt to
19		put something in there. It's why they don't
20		go right through state parks, even though it
21		might be cheaper to do that. And, you know,
22		occasionally they are on a road here or there
23		that goes to a big power plant or a big
24		facility. And I don't know how long that's

1   been in existence. I don't know when it went

2   in. It might have gone in long before there

3   were any homes in that area. So, you know,

4   it's not a black and white sort of thing.

5   But the notion that, "Oh, I've done

6   consulting in Sedona and, you know, they

7   would think a power line like the one we're

8   talking about in New Hampshire would be fine"

9   was contradicted by the head of the chamber

10   of commerce. And by the way, she had to

11   check with the Arizona Public Service

12   Company, who's a board member of her chamber,

13   before she issued that letter. And so it

14   wasn't like she was not cognizant of the need

15   for electricity and the fact that we all need

16   it and use it. And it's critical and

17   important, but it's how you do it and

18   balancing tourism and business needs there

19   with the need for power.

20 Q.   So Mr. Needleman brought up the statement

21   about -- I can't remember the exact

22   wording -- but would never consider allowing

23   that in the area. There was another

24   statement that you had made, that the premise

1   of the lack of academic studies on the

2   transmission line was, you know, quote, "due

3   to common-sense avoidance of obvious negative

4   effects in the siting of such projects in

5   scenic tourism-sensitive areas," end of

6   quote. So I just bring up --

7   MR. OLDENBURG: If you could

8   bring up the other picture?

9   BY MR. OLDENBURG:

10 Q.   I don't want to belabor this because Mr.

11   Needleman sort of did this for me.

12 A.   (Kavet) Sure.

13 Q.   But I went to the trouble of printing these

14   out, so --

15 A.   (Kavet) Okay. We'll look at them.

16 Q.   That is -- I'll just testify that that is a

17   power substation, and that whole complex is

18   related to power. And you'll notice that the

19   road sort of at the bottom of the page is

20   labeled "Niagara Scenic Parkway."

21 A.   (Kavet) Yeah.

22 Q.   And if you look at the next picture, you'll

23   see in the center of this picture a blue box

24   which represents where that substation is.

```
 1   A.    (Kavet) Yeah.

 2   Q.    And I don't know if you know the area, but

 3         that's Niagara Falls --

 4   A.    (Kavet) Yeah.

 5   Q.    -- one of the Seven Wonders of the World,

 6         honeymoon mecca of --

 7   A.    Right.

 8   Q.    -- and tourism mecca.

 9   A.    (Kavet) Right.

10   Q.    So they didn't seem to take that same

11         common-sense approach that power and

12         transmission lines and everything else is

13         something you would avoid in a

14         tourism-sensitive area.

15   A.    (Kavet) Yeah.  Again, I don't know what the

16         timing was or when that was, you know,

17         established.  And you do have to balance all

18         these things.  You know, you probably could

19         have had a dam with turbines and had that be

20         a big hydro facility instead of Niagara

21         Falls, too, if you didn't care at all about

22         tourism.  But you know --

23   Q.    As soon as you mentioned it, then Robert

24         Moses Power Project is at Niagara Falls --
```

1   A.   (Kavet) Yeah.

2   Q.   -- just off the page, where they use the --

3   A.   (Kavet) Yeah.

4   (Court Reporter interrupts.)

5   CHAIRMAN HONIGBERG: Mr.

6   Kavet, please. I know it's comfortable to

7   feel like you're having a conversation with

8   Mr. Oldenburg, but please wait. And Mr.

9   Oldenburg, if you could try to focus your

10   questions so that Mr. Kavet doesn't have to

11   wait quite so long, we might get through

12   this.

13   WITNESS KAVET: My apologies.

14 BY MR. OLDENBURG:

15 Q.   So they use the falls to generate power. So

16   there's a lot of transmission lines around

17   the falls; correct? So I won't belabor that

18   anymore.

19   So could the case be made that the lack

20   of studies on the topic is just the reality?

21   I think you sort of stated that every

22   community needs power and that the power is

23   delivered by transmission lines, so that we

24   as a society live with the fact that we need

1   transmission lines in our community.

2   A.   (Kavet) Yeah, and how can we balance this in

3   areas that are especially tourist-sensitive?

4   How can we site them? The capacity to have

5   underground lines didn't always exist in the

6   same way. And when it's worth that cost to

7   underground something because there's some

8   other resource that has value that's

9   comparable to that cost.

10   Q.   We'll move on to your study Element No. 2 on

11   Page 29, which was your review of New

12   Hampshire tourism industry. And Mr. Nichols'

13   report pertained to or used the PSU Institute

14   of New Hampshire studies data; correct?

15   A.   (Kavet) Yes.

16   Q.   And basically what you found wrong with that

17   was there was some basic math and labeling

18   errors. But in your conclusion, you

19   generally concurred with the use of the

20   PUC -- or PSU data; right?

21   A.   (Kavet) Yeah, it's sort of the best data

22   around. Although, they have not been under

23   contract with the state in recent years, so

24   it hasn't gotten same attention it used to.

1   Q.   Do you know who collects the data for the

2   university?

3   A.   As I understand it, they derive it from a

4   number of different sources, both survey and

5   then tax revenue data from rents or rooms and

6   meals.

7   Q.   Okay. Is it reasonable to assume that

8   students working towards a degree with

9   limited real-life experience are developing

10   these reports and working with the data?

11 A.   Yeah, under the supervision of professors who

12   understand statistics and methods. But yeah,

13   it's not like, you know -- I think they're

14   reasonably accurate. But I think there are a

15   lot of things -- sometimes these stats are

16   collected for promotional purposes. So an

17   entity that wants more funding will say, show

18   us why this sector is really important, and

19   they'll run models and things like that and

20   do estimates that show, you know, the

21   importance of a particular sector. So you

22   have to be aware of that. But I think it's

23   the only data that exists.

24 Q.   So I think you testified -- or it was in your

1   prefiled testimony that you spoke with the

2   faculty at the institute and looked --

3   A.   (Kavet) Well, we spoke with Mark Holmgren,

4   who used to run the Institute for New

5   Hampshire studies. And then Daniel Lee is

6   the professor who's doing the number

7   crunching around this right now, or he was

8   when we contacted them. I don't know if he's

9   still...

10 Q.   Did you vet or check any data?

11 A.   (Kavet) Yeah. We even found some errors in

12   one of their tables, and they changed the

13   table. I don't remember exactly, but there

14   was a whole year of data. I think they put

15   2012 data where 2014 was supposed to be, and

16   they hadn't noticed. Nobody else had told

17   them about it. So Dr. Lee quickly made the

18   correction. And, you know, I think we're

19   satisfied that we had reasonably good data

20   from them. But yeah, we check it to the

21   extent we can. But it's not like

22   methodologically you can determine every

23   angle on it.

24   There's a big conversion that goes from

1   county-level tax data that is converted into

2   the New Hampshire tourism regions which don't

3   align with counties, but they are

4   town-defined. And they have, you know, some

5   sharing approach that does that conversion.

6   And they wouldn't release to us that set of

7   data, for example. We requested that. So we

8   had to trust that they had done that properly

9   and all that sort of thing, but...

10 Q. Okay. With regards to the underground route

11   from Bethlehem to Bridgewater, there was an

12   assumption I think that Mr. Nichols made, and

13   I don't think it was refuted in your report

14   that I saw on your side, that the

15   underground -- the aspects of the underground

16   transmission line would have no tourism

17   effect after it was complete; right?

18 A. (Kavet) Well, we assumed they'd be

19   short-lived. But, you know, we were trying

20   to be -- they should be short-lived if, you

21   know, measures are taken to minimize impacts.

22   They could be, if things are really botched,

23   they could be more long-lasting. But yes,

24   for the most part, you would expect those

1   delays to be of short duration. Hopefully,

2   any loss in business could be absorbed by the

3   businesses there, and if some did go out of

4   business, that there would be others that

5   would take their place at some point in the

6   future when the Project was completed. So,

7   yes, they would be relatively short-lived.

8 Q.   So you didn't break out or review separation

9   between the overhead section and the

10   underground section with the economic impacts

11   or the tourism impacts?

12 A.   Well, the tourism impacts are view-limited.

13   So we're reducing the impact area as to, you

14   know, the percentage of land that has a view

15   in the tourism area. So we did map all the

16   towns to the tourism regions of the state,

17   and so that is used to calculate the

18   percentage of impact. But the areas that are

19   underground that don't have a view of

20   anything are not impacted, except through the

21   construction disruption which is temporary,

22   but not a long-term tourism impact. I mean,

23   having it underground completely mitigates

24   the negative long-term tourism impacts.

1 Q.   I think when we questioned Mr. Nichols, or

2   when everybody questioned Mr. Nichols, it was

3   sort of the assumption that there would be no

4   loss in tourism in the underground route

5   because of I think what you just said was the

6   county and the regional effect; they'll just

7   go to somewhere else. The tourists will

8   still come to New Hampshire. But instead of

9   going on 116, they'll go on 302 where there's

10   no construction. So the tourism impact is

11   nullified.

12 A.   (Kavet) Yeah, we don't agree with that.

13   That's a separate issue. So there will be

14   some people that that is true of. There will

15   also be some that have shorter visits or

16   spend less or don't come at all to the state

17   as a whole. And our impacts are reflective

18   of that. We're not trying to say just what

19   would happen, you know, in -- there are much

20   more concentrated impacts. So, Plymouth, for

21   example, may have much higher impacts than

22   the state as a whole. But there are also

23   impacts in areas aside from Plymouth, and we

24   didn't estimate every single town that might

1   have those. So when we talk about the

2   aggregate economic impacts, we're saying

3   what's the loss to the state of people that

4   either have shorter visits or visit where

5   they don't spend as much. You know, you

6   don't have the opportunity to spend money in

7   every nearby location that you might in a

8   place like Plymouth that has, you know, many

9   shops and stores and things like that.

10   So I don't think that holds water, that

11   everybody will just go somewhere else in New

12   Hampshire and it won't have any impact

13   whatsoever. Could be very small, but we did

14   estimate an impact that was statewide.

15   Q.   Okay. Moving on to the Study Element 3, the

16   listening tour feedback. I mean, it

17   basically criticized Mr. Nichols' approach

18   because he had few attendees and didn't take

19   good notes. But you stated that you held

20   several listening sessions as well; correct?

21   A.   (Kavet) Well, Counsel for the Public

22   organized six sessions that we attended.

23   Q.   That you attended. Did you see much -- I

24   didn't see much information in your report

1   stating that, you know, Mr. Nichols' outcome

2   was wrong or he had errors in his results.

3   So what information did you get from

4   your listening sessions that Mr. Nichols

5   didn't?

6   A.   (Kavet) I think we just got a lot more

7   negative feedback. And it could have been

8   that people who were motivated to come to

9   these things are more oppositional than

10   supportive. So I'm not saying this is a

11   random sample of people that -- you know, of

12   opinion.

13   But there were some very specific

14   things, too. For example, he said the base

15   on the listening sessions, that there would

16   be a lot more access to ATV and snowmobile

17   trails on the right-of-way. And first of

18   all, right-of-way access is controlled by the

19   landowner. And unless that's a utility, they

20   may be no more apt to allow snowmobile or ATV

21   access after the Project is done than they

22   are currently. And I think we have a picture

23   in our report of, you know, one of the

24   crossings where there's a sign that says no

1   ATVs and no snowmobiles. And a fair amount

2   of the route is owned by private landowners.

3   But in Colebrook, when we were talking

4   to people that were -- one of them belonged

5   to an ATV club and another a snowmobile club.

6   They said we don't want to ride under the

7   lines. It's great if there's access to get

8   us to a trail. But they like being in

9   beautiful areas to ride. They don't -- you

10   know, they like the trails that are through

11   the woods, not under a power line. So it's

12   not like the power lines are going to be some

13   big draw. If you want to drive under power

14   lines and you live in New Jersey or

15   Pennsylvania or Massachusetts, or anywhere

16   you're coming from, you have plenty of

17   opportunity to do that in your own back yard.

18   So, you know, hikers might not like the

19   motorized vehicles, but the scenic aspect of

20   the region is attracting motorized tourism,

21   motorsport tourism, as well as hikers and

22   canoers and fishing and all that.

23 Q. Moving on to Study Element 5, which is the

24   custom survey of potential visitors. Mr.

1   Nichols used a web-based survey of, I think,

2   456 paid respondents; correct?

3   A. (Kavet) Yes.

4   Q. You really didn't take exception to the small

5   sample size that I could find. Is that an

6   appropriate sample size for a project this

7   size over such a large region?

8   A. (Kavet) I couldn't tell what the distribution

9   was. It's always better to have a bigger

10   sample than smaller. But the main problem we

11   saw with it was the quality of the sample,

12   not necessarily the size. You know, the

13   things that you can extract from it, if we

14   knew the number of responses by categories,

15   we might be able to tease out reliability

16   data based on that. But it's more that the

17   questions that were asked were not really --

18   didn't really seem to be designed, despite

19   the purpose of the study, to elicit responses

20   that would help you understand what a

21   high-voltage transmission line's impact might

22   be. So the only question that was asked had

23   to do with visible power lines in certain

24   areas. And that sort of seems to even more,

1   you know, make it seem like, well, yeah, in

2   certain areas there might be a power line,

3   but not in the places I would value or, you

4   know... so it was an odd construction of a

5   sentence.

6   And then the panel, when you're paying

7   people and it's an online survey, that's very

8   different than, say, a visitor survey that's

9   taken at a point in New Hampshire, where you

10   have a visitor that you know is a tourist and

11   then you're asking them a question. You know

12   they have the money to come visit the state

13   because they're there doing it. And the

14   information they would give you is much more

15   valuable than information you get from

16   somebody sitting at home on their computer

17   who has the time and inclination to volunteer

18   to do that kind of response work. So, you

19   know, that's a concern.

20   But even -- and you got some

21   counterintuitive responses, too, like having

22   people saying -- you know, more than

23   9 percent of the respondents said that it was

24   a destination attribute to have visible power

1   lines, and others said traffic congestion was

2   a destination attribute. I know Mr. Nichols

3   has defended this in some way, but to me that

4   means -- to me that says the question wasn't

5   asked very well or wasn't controlled very

6   well, and it draws into question the whole

7   basis of that survey.

8   But I do note that there were 4.7

9   percent of all responses that said that power

10   lines would be a critical barrier to

11   visitation, and 10.3 percent said it would

12   either be a critical or very important

13   barrier to visitation. And that's not a huge

14   number, but, you know, that's within the

15   range of what we're saying, you know, might

16   be a negative impact associated with this.

17   And I also note that this is a survey

18   based -- he's basing his opinions on a

19   survey. So we're being criticized for not

20   using empirical data that shows what actually

21   happened, but neither is he, because no such

22   data exists. So he's taking a survey and

23   saying, see, nobody cares. He's not taking

24   some study that says, see, we built this here

1   and it didn't happen. And the two areas

2   where he tried to do that were, to me,

3   meaningless.

4 Q.   I think it was Labor Day weekend, about a

5   month ago, that local news estimated 650,000

6   tourists were going to come to New Hampshire.

7   And it just seems like could have set up

8   something at the Hooksett rest area and done

9   better. There's actually a transmission line

10   right above the Hooksett rest area that --

11 A.   (Rockler) So you'd have something to point

12   to.

13 Q.   But it just seems like a low response.

14   Would you, doing a survey like that,

15   typically use paid respondents?

16 A.   (Kavet) It's better -- as I said, if you can

17   use people that are actually in the state,

18   that's optimal. And the more, the better.

19   And to the extent you're paying people, you

20   just have to do more in the way of quality

21   control. And it's not apparent for me that

22   that was done. When somebody can respond to

23   questions like that in such a

24   counterintuitive way, it tells me that either

1   they're not paying that much attention,

2   they're just clicking stuff and getting it

3   done, or the question wasn't asked in a way

4   that would allow people to understand what

5   was being asked. So, you know, I think there

6   are real problems with that.

7 Q.   On Page 39 of your report, this is the

8   section of the survey results under the

9   Greatest Strengths. You make some comparison

10   of the responses received and the

11   respondents' annual income. You state that

12   in Mr. Nichols' survey, 32 percent of the

13   respondents made less than $40,000 per year,

14   while in Mr. Nichols' 2002 to 2003 study, the

15   survey response is only 8 percent made under

16      $40,000 per year. Are you trying to draw

17   some assumption that people who make less

18   money value the view less?

19 A.   (Kavet) No. You know, this is a really

20   interesting point. Because the point with

21   this was simply saying, you know, in this

22   2002-2003 survey, he wanted to find people

23   with a means to travel to the state and, as

24   he put it, "spend impressively." So he was

1   saying those are the kind of tourists we

2   really like, so let's survey them and see

3   what matters to them.

4   In all of these metrics that we use,

5   we're looking at dollar flows. So if

6   somebody rents a room for $1,000 a night, you

7   know, or $500 a night and spends $500 on a

8   meal at a fancy restaurant, that shows up in

9   a tourism stat as being a $1,000 expenditure.

10   But it's one person enjoying the scenic, you

11   know, beauty of the state. If somebody else

12   has an ATV and they buy $10 worth of gas and

13   they go drive through the beautiful woods,

14   they may appreciate it every bit as much or

15   more than that other person, but we're going

16   to see one as $1,000 flow and the other as a

17     $10 flow. And that $1,000 flow has, you

18   know, 100 times the weight as the other.

19   And same with property valuation loss.

20   You know, if you have a big mansion, well,

21   you're going to have property valuation

22   decline in an expensive area. Potentially

23   you have more property valuation decline. So

24   we'd say, oh, the impact's going to be

1   greater there. But you could have a trailer

2   park with low-value homes where it has the

3   same -- you know, there's the same loss of

4   scenic resource, but there's no expression of

5   that in a flow of money. And so it doesn't

6   register in our statistics the same way. And

7   I think that's something you have to

8   qualitatively consider because all these

9   metrics are dollar-based.

10   Now, all this says is that if you're

11   getting really low-income respondents in your

12   survey pool, you might be getting people who

13   are doing just the survey because they need

14   the money, but they're not necessarily people

15   who would travel very far to the state or

16   spend very much. And so the main thing are

17   they really -- are you really getting

18   opinions from people who are likely to go to

19   the state, or are they just checking that

20   box?

21 Q. Okay. I think I'm done with tourism.

22   Economic impacts. So I think you went

23   over this a little bit, but I just wanted to

24   clarify one thing. On Page 40 of your

1   report, under Section 6, the economic impacts

2   of the construction and development, you

3   state there's two major problems with the LEI

4   findings, and the first one is the extremely

5   high compensation rate; correct?

6 A.   (Rockler) That's correct.

7 Q.   So when the gentlemen from the IBEW testified

8   earlier supporting the Project, they stated

9   that they would be using the much higher

10   Boston pay rates to draw linemen to the

11   Project, not the typical New Hampshire rates.

12 A.   (Rockler) Right.

13 Q.   Did you know that?

14 A.   (Rockler) Yeah.

15 Q.   Okay. And another person, I think his name

16   was Allen Bouthillier, he's the owner of a

17   construction company, excavating company,

18   gravel pits up north. And he testified

19   supporting the Project. He stated that the

20   Northern Pass would have to pay a premium

21   basically to get the number of local workers,

22   trucks, equipment, et cetera, to work on the

23   Project and keep them available for the

24   Project for the two-year construction period.

1   Do you know that?

2   A.   (Rockler) I didn't know that specifically,

3   no.

4   Q.   Okay. But that sounds to be reasonable. I

5   mean, they --

6   A.   (Rockler) Reasonable, yeah.

7   Q.   Doesn't it sound like using the higher

8   compensation rate was warranted?

9   A.   (Rockler) We're not talking about the

10   difference between what the Bureau of Labor

11   Statistics says the Boston metropolitan area

12   labor rate is and the New Hampshire one.

13   We're talking about a number which is eight

14   times that. That's what I'm talking about.

15   I'm talking about a scale of difference which

16   is really huge as the compensation rate and

17   what's being added back into the model to

18   estimate what the jobs impact are. So that's

19   the difference. It's the application of what

20   may -- you know, I don't know what the

21   Eversource original data that were used to

22   establish those compensation rates, but there

23   seems to me confusion as to what the

24   statistical or economic accounting concept of

1   compensation is and what they use in an

2   estimating guide or something that would tell

3   them what the cost of a construction job is

4   per full-time-equivalent worker. If you take

5   an entire project value, labor, materials,

6   overhead, everything else, and divide by the

7   number of workers, that can be one basis for

8   estimating cost. Now, if you take that cost

9   per worker and want to apply it somewhere

10   else with a cost estimating guide for the

11   full cost, that's one to do it. But now

12   you're not talking about labor rates that are

13          $60 and $70 an hour as wages and $120 fully

14   loaded with Social Security and Medicare and

15   other required contributions plus pensions.

16   So you get up into the $120 an hour. That's

17   very different when you divide a whole

18   project through by that number, $120 an hour

19   versus $800 an hour.

20   MR. WAY: Question.

21   CHAIRMAN HONIGBERG: Mr. Way.

22   BY MR. WAY:

23   Q.   In terms of your initial input, and you have

24   choices whether you can enter that higher

1   value or the lower value, or the value that

2   encompasses a lot of the other things that

3   you mentioned, does REMI -- how customizable

4   is REMI to allow you to put in union fees,

5   Medicare, whatever, at that initial input?

6 A.   (Rockler) It is possible to do that without

7   any great difficulty. And it actually is

8   done using the same mechanism that LEI did,

9   but with different data. So if you know the

10   number of employees and the incremental

11   increase in wages, say the differential

12   between New Hampshire and Boston for

13   electrical workers -- well, REMI doesn't know

14   electrical workers from anyone else, by the

15   way -- but you could calculate what the

16   aggregate increase in the pay would be. You

17   can enter that in separately, and it doesn't

18   then affect any other part of the impact

19   estimation apart from that larger income

20   effect that comes from higher wages. So it's

21   flexible that way, yes.

22 Q.   Follow-up. And so in lieu of that, if you

23   just put in a flat number, the switch that

24   allows you, is it the estimator at that

1   point?

2 A.   (Rockler) Yeah.

3 Q.   And you said that's a switch that either can

4   be turned on or off?

5 A.   (Rockler) It has to be turned off, basically,

6   yeah.

7 Q.   Okay. So when you say it has to be turned

8   off, that's the default when you're entering

9   in the data?

10 A.   (Rockler) The default is you take the known

11   or estimated employment, direct employment

12   for the Project, and you let the Project

13   estimate everything else, which means

14   materials, overhead, profit, full project

15   value. So it just does it based on labor

16   numbers, jobs. And it's not -- they're based

17   on data that the federal government used to

18   collect on how much labor and materials were

19   required for different types of construction.

20 Q.   And as you're doing your analysis, does it

21   prompt you --

22 A.   (Rockler) No.

23 Q.   -- on and off or --

24 A.   (Rockler) Well, there's a little notation in

1   the screen where you enter this, that if you

2   want to add -- if you put in employment and

3   you have some kind of sales number, you

4   shouldn't allow both to operate

5   simultaneously; you need to turn this

6   materials estimator part off, the

7   intermediate materials. Similarly, it says

8   if you have known material inputs, then you

9   shouldn't allow the model to estimate them

10   and your own inputs at the same time if you

11   have an exhaustive list of material inputs.

12 Q.   All right. Thank you.

13 BY MR. OLDENBURG (CONT'D):

14 Q.   Great. I won't -- I understand the whole

15   concept of the difference in the compensation

16   rates and inputs in the REMI model and all

17   that. I'm not going to belabor that because

18   I don't understand the higher aspects of the

19   math.

20 A.   (Rockler) I'm perfectly willing to help try

21   to clarify that as best I can.

22 Q.   I don't think you could help me with that.

23   I want to go into another section. And

24   I know you just went back and forth with Mr.

1   Needleman on the View category on Page 57,

2   Estimating Income Effects of Changing

3   Property Values. In that section you have

4   the six classifications of the View category

5   ranging from "immediate" to "far distant."

6   And I understand those were determined by

7   someone else. You're using that data from --

8   A.   (Kavet) T.J. Boyle, yeah.

9   Q.   -- T.J. Boyle.

10   You drew a lot of conclusions from the

11   impact a project would have on the view, but

12   you didn't come up with definitive locations

13   where immediate or the foreground impacts

14   would apply, did you?

15   A.   (Kavet) No. We didn't do this bottom up.

16   We're looking at sort of aggregate estimates

17   and trying to, you know, screen out places

18   that wouldn't be affected, you know. So it

19   was -- think of it as sort of a macro kind of

20   analysis. We weren't going project by

21   project and trying to identify each parcel.

22   Q.   So in your conclusion, when you said if only

23   120 properties within the Project viewshed

24   experienced the loss in value of $125,000

1   each, as speculated in Chalmers' statement

2   about potential view lot, property value

3   diminution, there would be about a $15

4   million impact; correct?

5   A.   (Kavet) That's correct.

6   Q.   So the $125,000 value loss that you stated

7   was Mr. Chalmers' statement, that was from a

8   New Hampshire Public Radio interview;

9   correct?

10 A.   (Kavet) That's correct. And we quote from

11   that on Page 59.

12 Q.   So was he talking hypothetically or factually

13   about that number?

14 A.   (Kavet) Well, he said if you basically have a

15   view lot and your view is down the valley and

16   you string transmission lines across that

17   valley right in the middle of the viewshed

18   and that becomes kind of the dominant feature

19   of the view, "I can easily imagine your

20     $200,000 second home might only be a $75,000

21   second home or a $100,000 second home,"

22   something like that.

23   So what we're saying is, if you, you

24   know -- how many of those sort of homes might

1   it take -- if that was the only impact -- and

2   I can certainly imagine a few of those. And

3   we heard from people that had a few of those,

4   some more expensive and some less expensive,

5   who felt there was that kind of potential

6   impact to them. It would only take 120 of

7   those $200,000 ones that he speculated about

8   to add up to this. It's not like there's

9   thousands and thousands of them. So it's

10   just an order-of-magnitude comparison. We're

11   not saying there are.

12 Q. So the 120 number was just an assumed number.

13   You didn't calculate that, review it. You

14   just said --

15 A. (Kavet) Yeah.

16 Q. -- if there were 120 properties --

17   (Court Reporter interrupts.)

18 A. (Kavet) That's right. It's saying that it's

19   not a huge number of the kinds of properties

20   that he said could experience that kind of --

21   he could imagine that kind of loss in

22   property value. It's not thousands and

23   thousands that it would take to get to a $15

24   million loss. Could be 120. Even half that

1   is not an insignificant loss. So it could be

2   a relatively small number of properties and

3   still have a meaningful impact, especially

4   for those property owners.

5 Q. On Page 62 of your report, you discuss the

6   impacts to restaurant sales. The amount

7   could be about $500,000 per year; correct?

8 A. (Kavet) Yeah. You see the logic going down

9   that -- that's difficult to estimate.

10 Q. So you base that number on the number of

11   restaurants within the viewshed; correct?

12 A. No. This is tax data from the State on meals

13   tax, and then Plymouth State University

14   estimates how much of the meals tax is

15   attributable to tourists and how much to

16   local residents. And we're not saying that

17   local residents don't care about a view

18   either, or a view disruption. But we're

19   starting with the total dollar number of

20   that. And non-tourists for the whole state

21   were about 44 percent of that. And so we

22   said 8/10 of 1 percent of those expenditures,

23   if they're distributed evenly throughout the

24   entire area where there is a view, could be

1   impacted. So, again, it's sort of an

2   order-of-magnitude number. It's saying it's

3   not zero. There's likely to be some

4   commercial impacts, the same way there are

5   residential impacts. But it's very difficult

6   to estimate that. And it's not like, you

7   know, restaurant by restaurant, we saw this

8   one and we think their sales are going to go

9   down by this amount or something. It's just

10   saying even a small change or a small loss as

11   a percentage can add up to a number that's

12   not necessarily trivial.

13   BY MR. WAY (CONT'D):

14   Q.   Question, if I could. How is Plymouth State

15   carving out tourist from the resident in

16   terms of the meal tax?

17   A.   (Rockler) The Tourist Satellite Accounts,

18   those are data that are collected by the U.S.

19   Bureau of Economic Analysis.

20   A.   (Kavet) They're modifying those data.

21   A.   (Rockler) Yeah, they start with national in

22   four broad regions. I think it's four broad

23   regions. May be just national data that says

24   tourism is not really a defined industry as

1   much as it is an amalgamation of restaurants,

2   entertainment areas, hotels, accommodations

3   of various types. So it's really a

4   composite. So the Bureau of Economic

5   Analysis says, well, we need to assign this

6   tourism money to different industries. So if

7   you have $150 million worth of tourist

8   expenditures, we've got to put $30 million

9   into restaurants, $40 million into hotels,

10    $30 million into entertainment; a way of

11   getting an activity into an industry is

12   essentially what they do. And in the course

13   of that, they try to break up business

14   expenditures for travel versus tourist

15   expenditures for travel, because they are

16   different markets and they rely on different

17   parts of the economy. Business travel does

18   not always coincide with the level of tourist

19   travel.

20   So, in any event, that's where the

21   distinction originally starts, and then

22   Plymouth State makes an adjustment to those

23   for New Hampshire. And I'm not sure exactly

24   what the magnitude of those adjustments are.

1   Q.   And I just wonder, has that been validated in

2   the real world in New Hampshire?

3   A.   (Kavet) This is what's hard to do. When you

4   say "validated" in the real world, that would

5   involve like a massive survey to ask

6   everybody who's spending money, "Are you a

7   tourist or not?" That's the only way you

8   could validate it. And even the definition

9   of what a tourist is varies among different

10   entities that may be collecting information

11   or processing this. So the Plymouth State

12   data varies pretty significantly by region if

13   you looked at the share that are tourists.

14   And that seems to kind of comport generally

15   with tourism shares of the general economy in

16   those regions. But they wouldn't divulge how

17   they did that. We couldn't get their actual

18   estimating process. That wasn't transparent.

19   But it looked like they were reasonable

20   results. So, areas that you don't expect a

21   lot of tourism in had fairly high shares of

22   non-tourism allocations for meals tax; that

23   would be tourists and areas that were heavily

24   tourism-related had fairly high shares. So

1   it seemed reasonable. But I don't think

2   there's any way you can validate it. A very

3   large survey would be the best way to

4   validate it.

5   A.   (Rockler) As an aside, I've done surveys

6   involving tourism and business expenditures

7   of people traveling through airports and

8   cruise ports. And I guess the argument -- or

9   the point to be made is that in very specific

10   circumstances, those broad satellite account

11   data on the composition of expenditures, they

12   don't line up very well with cruise

13   passengers. Cruise passengers have a

14   different spending pattern than the general

15   tourist. And obviously they're not a

16   business traveler generally. But even for

17   tourism travelers in the survey work I've

18   done, it's a good thing to do survey work

19   when you have kind of a unique market because

20   tourism among cruise passengers, their dollar

21   expenditures are very different in

22   composition than the general tourists. Now,

23   I wouldn't draw anything about New Hampshire

24   tourism from that because I don't think we're

1   talking about that narrowly-defined market.

2   We have a tourism and recreation set of

3   activities in New Hampshire that's quite a

4   bit broader than just embarking on a ship and

5   coming back.

6   Q. Because I think part of the challenge for us

7   is that there's going to be a suggested

8   impact to tourism-related industries,

9   probably more to eatery-type establishments,

10   and whether that's based on an assumption

11   that is an actual reflection of New Hampshire

12   and not just national data point.

13   A. (Rockler) Throughout this, what we tried to

14   do is show, to make it clear to you what

15   amount is at risk. So in terms of telling

16   you what the amount of tourism travel

17   expenditures are in restaurants, we start

18   with what we know restaurants are collecting

19   in terms of taxes and what that means in

20   terms of total expenditures. How that gets

21   carved up, we have to -- we don't have to,

22   but we use the satellite accounts to divide

23   that up because that's actually based on real

24   hard information, at least at a national

1   level. There may be variations in New

2   Hampshire, but we tried to at least describe

3   to you how much is at risk and how we derived

4   it.

5 A. (Kavet) And they're very substantial

6   variations. So with a state that has a lot

7   of tourism like New Hampshire, we're saying

8   the non-tourist share of taxable restaurant

9   expenditures is 44 percent, which is another

10   way of saying the tourist-related share would

11   be 56 percent. But that ranges when you look

12   at the county distribution that Plymouth

13   State University does. Sullivan County, it's

14   only 11 percent that's tourist-related, and

15   Carroll County is 78 percent. So that's, you

16   know, a pretty dramatic variation. And I

17   don't know whether the national one -- it's

18   probably more like 17 percent or something

19   like that that's tourist-related. But it's

20   much lower than New Hampshire would be.

21 A. (Rockler) Right.

22 A. (Kavet) So they're kind of -- it conforms

23   with what you might expect. And there's

24   significant variations by county, which is

1   the only place that we could track it. And

2   then they map the county to tourist regions

3   and presumably are applying that same logic

4   to do that.

5   Q.   Thank you.

6   BY MR. OLDENBURG (CONT'D):

7   Q.   So, going back to the restaurant impacts.

8   Are you only looking at -- for this

9   reduction, are you looking at only

10   restaurants that would have a new view of the

11   line, or are you looking at sort of orange

12   versus purple on the map? Are you also

13   looking at a reduction of those restaurants

14   that have an existing view of the existing

15   line, and would there be a reduction because

16   of the Northern Pass line being added?

17   A.   (Kavet) Yeah, again, we're not doing it

18   bottom up with each restaurant. We're saying

19   of the whole area. So the whole area will be

20   getting some change to the view, some as a

21   brand new view, some as an existing view that

22   might be different -- will certainly be

23   different. And so it's being applied to

24   anything that's within the viewshed as a way

1   to reduce that. Understand that it's a very

2   small percentage, so it's not like we're

3   saying, you know, 50 percent. It's like one

4   and a half percent or so as it works out to

5   the affected area. And then we're applying

6   any loss to just that one and a half percent,

7   so that's why it ends up being a very small

8   number. In terms of the total tourism

9   impacts that we estimated, it's a fifteen

10   one-hundredths of one percent difference.

11   That's where you're not going to see --

12   that's not going to be like an earthquake in

13   New Hampshire tourism, but it adds up to real

14   money. And, you know, so it's not, like,

15   trivial either because it's a very big

16   industry, and it's growing fairly well.

17   There's real growth in that sector, and

18   there's likely to be for some years.

19   Q. So I was just trying to put the logic to it.

20   So, you know, last year, or maybe a little

21   bit earlier, on the Heights in Concord here,

22   right opposite the Steeplegate Mall, almost

23   underneath the transmission line, there's a

24   new Chipotle Restaurant; right?

1   A.   (Kavet) Yeah.

2   Q.   And across the street is Applebee's --

3   A.   (Kavet) Yeah.

4   Q.   -- and down the road there's the 99

5   Restaurant. All of these are within sight of

6   the power lines. And I'm thinking: Is

7   somebody not going to go to those restaurants

8   because of the --

9   A.   (Kavet) Not in an urban setting, yeah.

10   Again, if you have a phenomenal amount of

11   resources and time, you would go

12   establishment by establishment and rule out

13   some and count in some more. You know, this

14   is not that kind of analysis. It's a

15   macro-level analysis.

16 Q.   Okay. On Page 67, and it's that Table 18

17   again. I think Mr. Needleman asked you some

18   questions about it, the potential tourism

19   impact on direct spending.

20 A.   (Kavet) Right.

21 Q.   It seems your overall, basic assumption was

22   that if Northern Pass Transmission Line is in

23   the region, it's going to affect all tourism.

24   It's going to have an effect on tourism.

1   A.   (Kavet) It could have an effect on tourism.

2   Q.   In the table, there's zero visibility in the

3   Monadnock region, but you show visibility in

4   the Seacoast region.

5   A.   (Kavet) Yeah, it's the way they do the town

6   mappings. It's within a 10-mile, you know,

7   viewshed. So there's some teeny, little

8   piece of a town that's in that region. If

9   you look at the tourism map which is on

10   Page 66, you know, you can see it's not

11   following county lines. And just the way it

12   cuts around, there's maybe a town or two -- I

13   could call it up. But it's very small, but

14   it's not zero.

15 Q.   Yeah, I know. Seacoast to Monadnock, I just

16   questioned how they even were even close,

17   but --

18 A.   (Kavet) Well, Monadnock doesn't have

19   anything. But that's the only one that's

20   absolute zero.

21 Q.   Yeah. All right. In your supplemental

22   testimony on Page 2, you discuss the impacts

23   of the construction on downtown Plymouth.

24   And you reviewed the impacts the construction

1   would have in several different periods. So,

2   a 70-day period, a 100-day period and sort of

3   your worst case was a 130-day construction

4   period; correct? And you came up with some

5   economic loss of business plus jobs that

6   would be --

7   A. (Kavet) That's correct.

8   Q. In 2005, the Department of Transportation

9   started a project to reconstruct the bridge

10   over the Pemi River in Plymouth. They

11   converted the intersection at the end of the

12   bridge to a roundabout, and they rebuilt a

13   portion of Main Street and almost the entire

14   length of 175 from the bridge to the

15   interstate. The construction lasted four

16   years; started April of '05 and was completed

17   in September of '08. Were you aware of that?

18 A. (Kavet) No.

19 Q. So you have no idea what the losses were to

20   the downtown businesses for that

21   construction.

22 A. (Kavet) I don't.

23 Q. Would you assume that that type of

24   construction and the Northern Pass

```
 1        construction are sort of equivalent in
 2        impacts?
 3   A.   (Kavet) I'd have to know more about the other
 4        to really know the details.
 5   Q.   Okay.  But if you go to downtown Plymouth
 6        today, it doesn't appear that there was a lot
 7        of residual, long-term impacts from that
 8        construction.
 9   A.   (Kavet) Downtown?
10   Q.   Downtown Plymouth.  If you go to downtown
11        Plymouth, there doesn't appear to be a
12        long-term, residual impact from that highway
13        construction project.  So would you think
14        that if there was an impact by Northern Pass
15        to downtown, there would be that rebound?
16   A.   (Kavet) There certainly could be.  We don't
17        have the effects lasting more than a very
18        short period of time during the one year of
19        construction, you know, in the model output
20        that we have.  But it could.
21             You know, we had a meeting in Plymouth
22        that was mostly attended by business people.
23        And some of them had gone through prior
24        construction projects that they felt might be
```

1   comparable, and they were quite concerned

2   about the potential loss. And I know some

3   have written letters or -- you know, you've

4   heard from some of those people. So it seems

5   like there's a fairly high level of concern

6   from the people who might be directly

7   affected.

8 Q. So the numbers that you developed for your

9   70-day, the 100-day and 130-day construction

10   periods, were those just assumptions you made

11   based upon the loss of business relating to

12   jobs? Did you just make assumptions to come

13   up with those numbers?

14 A. (Kavet) Well, you have to make assumptions in

15   arriving at any number. But what we did was

16   we calculated the period of time that it

17   might, because obviously that's the period of

18   disruption, and then assigned different

19   potential losses that could occur from that,

20   and then had data on exactly how many

21   businesses and how many employees there were

22   in the industries we thought would be most

23   affected, which were tourist-related

24   industries, lodging, meals and rooms and the

1   like.

2   We've since received information from a

3   lot of people outside of tourist industries

4   that also felt like they'd be affected:

5   Insurance companies, dentists, people that we

6   hadn't counted on loss in those businesses.

7   And so we applied a business percentage loss

8   to that and then entered that into the model

9   to see both direct effects and secondary

10   effects, just like all the other modeling

11   that's done with this. It's not a huge

12   number in terms of the whole, you know, scope

13   of things, but it's huge for that town. And

14   it's even larger for those individuals and

15   those individual businesses that are

16   affected.

17   MR. OLDENBURG: All right.

18   Thank you. That's all the questions I have.

19   CHAIRMAN HONIGBERG: All

20   right. We'll break for lunch and be back by

21   1:30 p.m.

22   (Lunch recess taken at 12:18 p.m. This

23   concludes the Day 45 Morning Session.

24   The hearing continues under separate

1   cover in the transcript noted as Day 45

2   Afternoon Session.)

1   C E R T I F I C A T E

2   I, Susan J. Robidas, a Licensed

3   Shorthand Court Reporter and Notary Public

4   of the State of New Hampshire, do hereby

5   certify that the foregoing is a true and

6   accurate transcript of my stenographic

7   notes of these proceedings taken at the

8   place and on the date hereinbefore set

9   forth, to the best of my skill and ability

10   under the conditions present at the time.

11   I further certify that I am neither

12   attorney or counsel for, nor related to or

13   employed by any of the parties to the

14   action; and further, that I am not a

15   relative or employee of any attorney or

16   counsel employed in this case, nor am I

17   financially interested in this action.

18

19   _____

20   Susan J. Robidas, LCR/RPR
        Licensed Shorthand Court Reporter
        Registered Professional Reporter
21   N.H. LCR No. 44 (RSA 310-A:173)

22

23

24

$	A

$

$1,000 (4)
150:6,9,16,17
$10 (2)
150:12,17
$100,000 (1)
159:21
$102 (1)
124:5
$120 (3)
154:13,16,18
$125,000 (2)
158:24;159:6
$134 (3)
53:15;56:20;59:12
$15 (3)
125:22;159:3;
160:23
$150 (1)
163:7
$17 (1)
124:18
$19 (1)
125:8
$200,000 (2)
159:20;160:7
$30 (3)
126:16;163:8,10
$33 (1)
124:21
$34 (1)
58:14
$35.7 (3)
53:16;57:7;59:2
$40 (1)
163:9
$40,000 (2)
149:13,16
$500 (2)
150:7,7
$500,000 (1)
161:7
$60 (1)
154:13
$600 (1)
41:14
$70 (1)
154:13
$700 (1)
41:14
$75,000 (1)
159:20
$800 (1)
154:19
$84 (4)
124:7;125:9,11;
126:10
$98 (4)
53:20;59:10,15,18

A

Abagadasset (1)
106:5
ability (1)
45:8
able (1)
145:15
above (4)
9:8;75:6;114:7;
148:10
above-ground (1)
108:17
absence (3)
77:9;83:5;100:11
absolute (1)
171:20
absolutely (1)
120:21
absorbed (1)
140:2
academic (1)
133:1
accept (3)
80:21,23;131:5
access (10)
49:3;111:23;112:5,
21;113:1;114:9;
143:16,18,21;144:7
accommodations (1)
163:2
according (1)
14:22
account (5)
8:3;24:8;43:20;
52:17;165:10
accounted (1)
37:19
accounting (1)
153:24
Accounts (3)
91:15;162:17;
166:22
accurate (2)
88:12;137:14
acknowledge (1)
28:20
acknowledged (2)
16:16;119:20
across (6)
24:4;36:16;60:18;
69:19;159:16;170:2
activities (3)
108:18;115:11;
166:3
activity (10)
45:18;46:8,23;
47:15;48:20,23;
49:18,19;72:9;
163:11
actual (9)
43:17;45:16;66:5,

8;80:6;96:6;98:24;
164:17;166:11
actually (39)
8:9;10:14;12:21;
14:5,17;18:4;38:8,
21;40:18;43:19;45:5;
52:22;58:21;64:19;
68:7;70:2;74:13;
75:22;76:12,24;77:7;
83:14,19;92:22;93:4;
95:15;101:15;
102:22;103:18,20;
106:8;117:7;129:6,
10;147:20;148:9,17;
155:7;166:23
add (5)
6:10;64:11;157:2;
160:8;162:11
added (6)
40:9,18;59:22;
62:24;153:17;168:16
additional (5)
40:2,3,9;54:3;
90:15
addressed (3)
43:11;67:4;116:15
adds (3)
46:10,12;169:13
adjusted (5)
52:11,16,20;59:19,
20
adjustment (5)
59:22;117:23;
119:16;121:17;
163:22
adjustments (3)
53:1;56:15;163:24
administrative (1)
74:24
adverse (2)
75:15;77:2
affect (6)
7:24;68:1;89:19;
91:9;155:18;170:23
affected (11)
22:24;25:17;96:18;
109:5;111:14;
158:18;169:5;174:7,
23;175:4,16
affecting (1)
81:9
affirmation (1)
87:16
affirmed (1)
88:12
Afternoon (1)
176:2
after-the-fact (1)
119:20
afterwards (1)
19:10
again (31)
11:20;13:15;16:13;

18:9;24:3,11;28:4;
36:5;37:23;38:15,17;
44:16;58:11,16,24;
59:24;63:13;82:19;
86:13;99:10;107:11;
118:14;119:7;125:4;
126:1;131:11;
134:15;162:1;
168:17;170:10,17
against (1)
51:24
age (1)
15:6
aggregate (6)
38:13;96:8;97:20;
142:2;155:16;158:16
aggregated (5)
9:16;10:12;18:11;
21:2;97:9
ago (8)
12:24;13:19;55:10;
59:11,14;103:1;
122:6;148:5
agree (12)
9:11;40:11;45:24;
60:4;65:5,20;66:10,
16;105:22;107:17;
109:24;141:12
airports (1)
165:7
Alaska (1)
104:20
Alburgh (1)
114:14
Alice (1)
72:23
align (1)
139:3
alike (1)
112:16
allegedly (1)
43:13
Allen (2)
113:9;152:16
allocations (1)
164:22
allow (8)
103:15;108:7;
129:18;143:20;
149:4;155:4;157:4,9
allowed (8)
30:11;54:2;55:6;
59:6;107:24;108:2,4,
5
allowing (3)
100:16;108:10;
132:22
allows (1)
155:24
almost (3)
35:2;169:22;
172:13
along (9)

75:17;76:22;79:21;
103:24;110:18;
114:3,8,10;116:8
Alternative (4)
79:10;91:6;114:15;
116:5
alternatives (1)
75:7
Although (3)
21:7;51:23;136:22
always (5)
83:9;117:10;136:5;
145:9;163:18
amalgamation (1)
163:1
amenity (1)
128:8
among (3)
9:1;164:9;165:20
Amongst (1)
42:15
amount (8)
22:13;46:11;144:1;
161:6;162:9;166:15,
16;170:10
analyses (4)
91:5,20;93:20;
116:12
analysis (43)
5:19;6:20;7:13;
8:9;9:15,16;10:12;
12:11;21:7;32:22;
39:6;54:5;58:22;
62:18;67:6;69:23;
70:1,7;71:9;81:7;
87:6,7,19;92:2,4;
94:23;95:13;96:5;
97:9;98:13;100:7;
109:20;111:12;
125:5;126:5,6;127:8;
156:20;158:20;
162:19;163:5;
170:14,15
analyze (1)
72:10
analyzed (1)
9:24
Anchorage (1)
104:19
angle (1)
138:23
annual (3)
74:5;125:22;
149:11
answered (2)
23:7;34:2
anymore (1)
135:18
anyplace (4)
32:1;80:5;92:14,22
Anza-Borrego (5)
71:23;78:5,8,18,22
Anzo-Borrego (1)

79:11
apart (1)
155:19
apologies (1)
135:13
apparent (1)
148:21
appear (5)
50:14;58:15;59:8;
173:6,11
appeared (3)
50:1,15;62:15
appears (4)
66:11;67:10;104:7;
106:16
Applebee's (1)
170:2
Applicant (3)
5:11;94:13,15
Applicants (1)
51:17
Applicant's (16)
14:16;15:4;20:20;
39:6;55:17;67:6;
76:16;78:17;81:23;
84:20;93:18;110:7,
22;117:4;118:4,20
application (1)
153:19
applied (12)
23:20,20;26:24;
29:18;30:21;33:6;
35:19;38:5;69:19,20;
168:23;175:7
apply (8)
26:23;30:3;35:20;
36:3;70:2;97:7;
154:9;158:14
applying (5)
30:1;38:3;92:10;
168:3;169:5
appraise (1)
37:13
appreciable (1)
70:11
appreciate (1)
150:14
approach (17)
26:24;31:12,18,22;
32:1;37:22;38:13;
43:21;52:12;92:1;
97:1,20,21;120:17;
134:11;139:5;142:17
approached (1)
115:21
approaches (1)
116:5
appropriate (2)
46:1;145:6
approximately (1)
39:10
April (1)
172:16

apt (2)
131:18;143:20
area (45)
32:23;33:3,5,7,14,
15;35:9;76:7;81:5,
10,19;82:13;92:5;
93:10;95:17;96:10,
16;97:6,7;98:8;
102:10,22;103:5,6;
107:6,13;128:7;
129:9,10;131:9,15;
132:3,23;134:2,14;
140:13,15;148:8,10;
150:22;153:11;
161:24;168:19,19;
169:5
areas (36)
93:3,4,6;94:21,22,
24;95:8,9,14;96:16,
17,18;99:24;100:9,
13,16;102:2,10,12,
14;107:24;108:6,9;
109:6,16;133:5;
136:3;140:18;
141:23;144:9;
145:24;146:2;148:1;
163:2;164:20,23
argue (1)
31:20
argument (1)
165:8
Arizona (4)
107:10;127:20,21;
132:11
around (7)
93:14;129:11;
130:9;135:16;
136:22;138:7;171:12
arrive (1)
86:12
arriving (1)
174:15
article (1)
104:23
ascribing (1)
17:12
Aside (6)
31:21;68:14;90:11;
126:8;141:23;165:5
aspect (2)
45:12;144:19
aspects (3)
92:19;139:15;
157:18
assert (1)
60:7
assertion (2)
46:7,22
assess (1)
92:14
assessed (1)
89:21
assessing (6)

28:13;79:8;89:3,9,
12,18
assessment (12)
21:21;27:18;32:18;
34:9;39:3;84:20;
85:5;88:5;93:2;
109:21;115:8;117:12
assessments (2)
95:22;116:16
assessor (1)
31:8
assign (5)
9:9;117:22;119:15;
121:16;163:5
assigned (1)
174:18
associated (9)
16:8;17:4;21:2;
51:5;52:5;79:23;
84:20;122:15;147:16
association (1)
13:8
assume (17)
6:23;10:4;15:9;
16:4;27:19,23;28:22;
46:4,6,15,21;47:2;
78:18;85:10;110:9;
137:7;172:23
assumed (9)
7:5,15;12:7;34:20;
97:19;98:2,17;
139:18;160:12
assumes (4)
9:20;13:1;54:18;
96:5
assuming (7)
7:6,14;15:20;
16:14;17:1;67:17;
97:22
assumption (12)
10:1;13:17,18;
15:17,24;16:18;75:9;
139:12;141:3;
149:17;166:10;
170:21
assumptions (8)
18:17;26:1,3,19,
22;174:10,12,14
attempt (1)
76:16
attended (3)
142:22,23;173:22
attendees (1)
142:18
attention (4)
76:19;109:10;
136:24;149:1
attracted (1)
128:11
attracting (1)
144:20
attributable (1)
161:15

attribute (3)
90:2;146:24;147:2
ATV (4)
143:16,20;144:5;
150:12
ATVs (1)
144:1
authoritative (1)
31:24
automatically (1)
54:18
available (5)
50:11;77:5;80:17;
120:12;152:23
avoid (2)
43:4;134:13
avoidance (1)
133:3
aware (15)
31:21,24;36:8,14,
18;41:16;43:3;89:20;
112:4,20;113:2,5;
116:20;137:22;
172:17
away (8)
6:6;29:22;30:5,7,
18,21;34:24;38:2

B

back (34)
8:6;11:5,21;12:23;
18:2;32:12;41:21;
44:16;46:16,20;
50:20;55:1,5;57:3;
59:10;61:7;64:5;
65:3;67:1;68:13;
69:15;72:17;84:24;
94:20;110:17;
112:19;122:5;
123:16;144:17;
153:17;157:24;
166:5;168:7;175:20
background (1)
19:4
bad (1)
126:19
balance (2)
134:17;136:2
balancing (1)
132:18
Balsams (3)
98:2,7,12
Barns (1)
107:3
barrier (2)
147:10,13
Barry (1)
5:10
base (6)
7:6;12:24;35:14;
83:12;143:14;161:10
based (25)

30:19;32:13;34:5;
41:21;46:14;66:16;
71:14;72:20;77:11,
19;88:14;91:4,7;
93:12;98:8;105:21;
107:15;111:20;
145:16;147:18;
156:15,16;166:10,23;
174:11
baseline (3)
15:19;17:6;83:5
basic (2)
136:17;170:21
basically (6)
29:20;136:16;
142:17;152:21;
156:5;159:14
basing (1)
147:18
basis (8)
29:15;37:20;45:6;
69:21;71:3;75:14;
147:7;154:7
Bay (2)
106:3,18
Beach (1)
106:18
beautiful (4)
105:5;127:21;
144:9;150:13
beauty (1)
150:11
became (1)
50:11
become (1)
56:9
becomes (1)
159:18
becoming (1)
7:21
begin (1)
12:22
beginning (3)
12:2,6;51:22
begins (1)
42:8
behalf (2)
21:13;113:10
behavior (1)
86:16
behaviors (1)
85:14
behind (1)
49:21
belabor (5)
107:5;127:12;
133:10;135:17;
157:17
belonged (1)
144:4
below (4)
11:10,16;25:13;
75:8

beneficial (2)
6:21;11:11
benefit (2)
13:9;24:10
benefits (10)
6:3,18;20:14,16;
27:4,8;42:14;55:1,5;
125:20
Benson (1)
114:14
best (7)
89:1;90:5;95:23;
99:7;136:21;157:21;
165:3
Bethlehem (2)
109:12;139:11
better (6)
64:19;77:6;145:9;
148:9,16,18
beyond (8)
12:21;21:8,17,21,
24;35:18;50:7;90:15
bias (2)
122:7,15
bid (1)
20:4
big (9)
12:15;130:23;
131:23,23;134:20;
138:24;144:13;
150:20;169:15
bigger (1)
145:9
biggest (1)
23:2
bit (13)
23:6;64:19;97:18;
100:22;101:8;109:9;
110:18;124:10;
126:4;150:14;
151:23;166:4;169:21
black (1)
132:4
Blair (1)
103:4
blanket (2)
30:18;37:6
blew (1)
110:13
block (1)
62:24
blocks (1)
62:21
blow (2)
101:7;117:17
blue (1)
133:23
board (1)
132:12
boards (1)
112:16
body (1)
80:23

boost (1)
6:4
Boston (3)
152:10;153:11;
155:12
botched (1)
139:22
both (13)
49:16;54:5;58:22;
89:14;108:16;
114:19,24;115:4;
118:9;122:1;137:4;
157:4;175:9
bottom (17)
10:16;25:13;42:6;
51:22;56:13;57:16;
60:16,18;64:11;
65:18;78:22;91:4;
93:7;111:6;133:19;
158:15;168:18
bottom-up (2)
37:12;97:21
Bouthillier (1)
152:16
box (6)
57:16;58:3;94:4;
110:13;133:23;
151:20
Boyle (9)
29:14,22;34:2,18;
35:14;91:21;94:19;
158:8,9
Boyle's (1)
30:11
brand (1)
168:21
Brattle (8)
8:14,17;9:2,6,10,
13;14:24;124:13
Brattle's (1)
8:9
break (4)
69:6;140:8;163:13;
175:20
bridge (3)
172:9,12,14
Bridgewater (2)
109:12;139:11
bring (3)
101:5;133:6,8
bringing (1)
16:6
broad (4)
72:11;162:22,22;
165:10
broader (1)
166:4
broken (1)
49:9
Brook (1)
103:4
brought (1)
132:20

Browns (1)
106:4
build (2)
114:20;128:3
building (1)
16:5
built (9)
10:6;15:19,22,23;
16:24;25:22;26:16;
80:8;147:24
bullet (1)
85:8
Bureau (4)
127:14;153:10;
162:19;163:4
buried (3)
129:24;130:6,7
business (18)
6:14;109:3;111:23;
112:5,21;113:1;
114:8;132:18;140:2,
4;163:13,17;165:6,
16;172:5;173:22;
174:11;175:7
businesses (13)
6:10,15;93:5;
111:14;112:24;
115:4,24;116:7;
140:3;172:20;
174:21;175:6,15
buy (1)
150:12
Byway (1)
104:1

C

calculate (4)
91:21;140:17;
155:15;160:13
calculated (4)
81:11;91:1;92:9;
174:16
calculating (1)
70:7
calculations (1)
49:24
California (4)
78:9;79:7;80:20;
107:4
call (16)
5:23;20:19;23:15;
25:10;47:24;51:21;
54:14;55:17;60:10;
61:8;72:18;75:3;
93:18;110:7;113:8;
171:13
called (4)
35:13;103:4;104:2;
129:15
calling (2)
14:13;18:10
came (4)

62:21;65:14;66:20;
172:4
can (41)
5:16;8:6;10:23;
11:5;29:1,4,7;43:20;
49:13;51:21;60:9;
61:23;63:2;64:17,18;
66:11;76:17;82:6;
94:4;98:11;102:17;
120:5,13,19;136:2,4;
138:21,22;145:13;
148:16,22;154:7,24;
155:17;156:3;
157:21;159:19;
160:2;162:11;165:2;
171:10
Canada (2)
16:7,8
Canadian (1)
20:1
canoers (1)
144:22
Canyon (1)
78:23
capable (1)
89:18
capacity (1)
136:4
capital (1)
15:21
care (3)
131:3;134:21;
161:17
cares (1)
147:23
Carroll (1)
167:15
carry (1)
111:7
carved (1)
166:21
carving (1)
162:15
Cascade (1)
104:1
Casco (1)
106:18
case (28)
7:6;12:24;21:13,
20;22:7,12;24:1,8,11,
18,23;27:15,16;
31:13;40:4;7;46:2;
51:2;62:19;103:14;
111:10,21;120:5;
121:3;122:21,21;
135:19;172:3
cases (5)
32:3;120:6;121:15;
122:1,3
categories (6)
30:14;39:18;49:10;
67:3,4;145:14
category (12)

47:11,16;48:5;
49:2;50:12,22;51:4,
6;82:20;83:21;158:1,
4
cause (5)
13:9;16:15;22:16,
18;23:10
causes (1)
15:10
center (2)
104:11;133:23
central (1)
89:16
certain (4)
52:11;115:13;
145:23;146:2
certainly (11)
45:13;56:8;89:11,
17;101:24;104:7;
105:23;130:24;
160:2;168:22;173:16
cetera (4)
67:7,7;79:8;152:22
CFP (2)
5:21;10:15
CHAIRMAN (9)
5:2;69:2,5,11;
122:24;123:7;135:5;
154:21;175:19
challenge (1)
166:6
Chalmers' (2)
159:1,7
Chamber (4)
127:13,24;132:9,
12
Champlain (1)
19:15
chance (3)
105:8,14,19
change (8)
26:3;52:10;67:14,
17,18;98:20;162:10;
168:20
changed (3)
116:2;124:9;
138:12
changes (2)
29:4;43:24
changing (2)
122:2;158:2
chart (1)
44:15
charts (1)
47:17
cheaper (1)
131:21
check (4)
67:13;132:11;
138:10,20
checked (1)
51:23
checking (1)

151:19
Chipotle (1)
169:24
choices (1)
154:24
chose (2)
8:18;93:9
churning (1)
15:20
circle (1)
128:23
circled (1)
128:23
circumstances (4)
21:22;24:14;
115:17;165:10
cite (1)
71:22
cited (1)
98:22
claiming (1)
22:17
clarification (2)
58:18;123:13
clarified (1)
44:17
clarify (3)
44:8;151:24;
157:21
classifications (1)
158:4
clean (6)
5:17;19:1;109:20;
114:19;115:6;117:1
clear (16)
8:7;25:20;26:14;
36:20;43:22;44:4;
45:15,23;48:17;50:9,
10,22;58:12;120:20;
126:6;166:14
clearly (1)
60:3
clicking (1)
149:2
clients (1)
99:15
close (8)
16:15;29:3,5,9;
64:11;65:18,22;
171:16
closed (4)
13:14;14:1;15:12;
114:12
closest (1)
129:15
closure (2)
15:2,10
closures (10)
12:7;13:3,6,11;
14:13;27:20,23;
109:2;114:4,5
club (2)
144:5,5

clusters (1)
130:22
cluttered (1)
101:18
cognizant (1)
132:14
coincide (1)
163:18
Colebrook (1)
144:3
collect (1)
156:18
collected (2)
137:16;162:18
collecting (2)
164:10;166:18
collects (1)
137:1
Colorado (1)
100:24
combination (1)
14:12
combined (1)
17:17
comfortable (4)
21:23;22:4;116:7;
135:6
coming (8)
7:23;9:21;15:3;
17:3;27:20;129:20;
144:16;166:5
comments (2)
85:4,6
Commerce (3)
127:13;128:1;
132:10
commercial (1)
162:4
Commission (1)
79:7
commissioned (1)
78:21
committed (2)
112:4,21
Committee (2)
36:7;123:3
common-sense (2)
133:3;134:11
communication (1)
87:15
Community (4)
119:2;130:10;
135:22;136:1
companies (1)
175:5
Company (3)
132:12;152:17,17
comparable (5)
21:10;25:2;114:21;
136:9;174:1
compares (1)
122:10
comparison (3)

52:3;149:9;160:10
compensate (1)
44:1
compensation (21)
40:2,3,9,14,16;
42:9;43:8,14,16;
44:2;45:16;46:10,13;
53:9;68:4;152:5;
153:8,16,22;154:1;
157:15
competitive (1)
6:15
complete (1)
139:17
completed (2)
140:6;172:16
completely (1)
140:23
complex (1)
133:17
component (5)
49:20;50:3;51:13;
69:23;70:1
components (1)
71:19
comport (1)
164:14
composite (4)
44:19,21;45:3;
163:4
composition (2)
165:11,22
compute (1)
45:17
computer (1)
146:16
computer-generated (1)
95:22
concentrated (2)
93:16;141:20
concept (2)
153:24;157:15
concern (6)
53:18,24;85:19,23;
146:19;174:5
concerned (2)
31:15;174:1
concerns (1)
99:16
conclude (5)
15:13;76:19;80:12;
122:14,20
concludes (2)
123:1;175:23
Conclusion (8)
76:2;77:13;78:1;
82:23;85:9;115:19;
136:18;158:22
conclusions (5)
82:15;121:2,6,10;
158:10
conclusive (2)
77:6;83:13

conclusively (1)
120:19
Concord (1)
169:21
Concrete (6)
56:23;58:14;61:15,
16;63:24;64:20
concurred (2)
128:1;136:19
conduct (1)
31:8
conductors (1)
33:21
confirmed (2)
43:2;87:24
conforms (1)
167:22
confused (1)
129:17
confusing (1)
13:15
confusion (2)
63:13;153:23
congestion (1)
147:1
connected (1)
54:19
connecting (1)
106:19
consequence (5)
9:21;17:13;27:20;
66:19;80:7
Consequently (1)
76:19
Conservancy (1)
78:24
conservative (1)
97:1
consider (6)
100:16;108:10;
122:12;128:5;
132:22;151:8
considered (5)
100:10;111:11,19;
115:3;128:17
consistent (3)
26:21;88:10;
122:21
consists (1)
39:18
constant (1)
70:24
constructed (5)
19:24;83:14,19;
91:6;99:2
construction (44)
11:12;13:2;20:15;
21:4;39:10;41:13;
49:3,4;52:18;54:7;
108:14,16,17;109:4;
111:16,24;112:6,22;
113:2,21;114:9;
115:10;123:18;

124:4;140:21;
141:10;146:4;152:2,
17,24;154:3;156:19;
171:23,24;172:3,15,
21,24;173:1,8,13,19,
24;174:9
construction- (1)
125:13
consulting (2)
127:23;132:6
consumer (1)
6:5
contact (3)
73:11;84:15;
113:23
contacted (2)
127:24;138:8
contained (2)
39:7;50:22
CONT'D (3)
157:13;162:13;
168:6
content (1)
6:8
contention (1)
43:9
continue (6)
21:9;25:1;27:2;
69:12;98:17,19
continues (2)
42:11;175:24
continuing (1)
27:4
contract (1)
136:23
contradicted (1)
132:9
contributions (1)
154:15
control (3)
117:21;120:4;
148:21
controlled (2)
143:18;147:5
conversation (2)
128:2;135:7
conversations (4)
72:20;84:14;88:13;
90:18
conversely (1)
10:4
conversion (2)
138:24;139:5
converted (2)
139:1;172:11
coordinate (1)
112:14
copied (1)
65:4
corporate (1)
6:11
corrected (2)
39:14;55:11

correction (3)
57:18;58:8;138:18
corrections (1)
52:6
corridor (1)
110:19
cost (7)
136:6,9;154:3,8,8,
10,11
costs (1)
6:10
Council (1)
79:1
Counsel (4)
73:12;94:13;123:9;
142:21
count (1)
170:13
counted (1)
175:6
counterintuitive (2)
146:21;148:24
counties (1)
139:3
Country (3)
88:19;107:3;
127:20
county (7)
141:6;167:12,13,
15,24;168:2;171:11
county-level (1)
139:1
couple (1)
6:2
course (4)
24:24;44:6;99:5;
163:12
Court (5)
17:18;125:16;
128:21;135:4;160:17
Cousins (1)
106:18
cover (2)
130:15;176:1
created (5)
11:23;71:15;
125:21;126:10,17
creates (1)
40:1
creation (1)
123:19
critical (3)
132:16;147:10,12
criticism (1)
107:22
criticisms (1)
53:12
criticize (1)
41:6
criticized (3)
41:1;142:17;
147:19
CROSS-EXAMINATION (1)

5:7
crossings (1)
143:24
cruise (4)
165:8,12,13,20
crunching (1)
138:7
crystal (1)
36:20
current (2)
91:7;112:10
currently (1)
143:22
custom (1)
144:24
customizable (1)
155:3
cut (1)
129:3
cuts (1)
171:12

D

dam (1)
134:19
damaging (1)
128:9
Daniel (1)
138:5
data (79)
30:11;32:4,22;
34:18;35:14;44:7,20;
49:16;50:15;51:17,
24;52:6,10,21,22,23;
56:14;57:11;62:21;
71:10,14,20;72:3,8,
11,15;77:7,15,16,23;
80:15,16,19;83:10,
12;90:10,15;91:19;
92:4,20;117:22;
119:17,24;120:12,18;
121:2,4,15,19,21;
136:14,20,21;137:1,
5,10,23;138:10,14,
15,19;139:1,7;
145:16;147:20,22;
153:21;155:9;156:9,
17;158:7;161:12;
162:18,20,23;164:12;
165:11;166:12;
174:20
date (2)
82:1,4
Dawn (12)
5:23;11:4;42:2;
60:9;64:5;79:4;94:3;
102:17;103:21;
104:15;110:13;111:4
Day (19)
5:3;19:3;39:13;
40:21,24;41:22;42:5;
43:13;44:14;48:2,6,

10,11,12;57:22;
100:22;148:4;
175:23;176:1
decide (1)
5:14
decline (3)
77:10;150:22,23
decrease (1)
36:24
decreases (1)
68:21
deep (1)
100:4
Deerfield (2)
116:21;118:7
default (3)
54:2;156:8,10
defended (1)
147:3
defined (1)
162:24
definition (1)
164:8
definitive (1)
158:12
degree (3)
30:20;91:8;137:8
degrees (1)
30:12
Delaware (4)
71:24;81:4,9;
102:21
delay (1)
52:17
delays (4)
109:1;111:13;
115:3;140:1
delivered (1)
135:23
delta (1)
94:9
demonstrate (3)
70:5;75:8;79:16
dentists (1)
175:5
Department (3)
31:5,17;172:8
depending (2)
29:21;75:9
depth (1)
43:9
Derek (2)
105:3,4
derivation (1)
58:12
derive (3)
49:24;50:18;137:3
derived (2)
39:22;167:3
describe (2)
30:15;167:2
describes (1)
104:23

description (1)
105:22
Desert (4)
78:23,24;79:12;
107:9
designated (3)
106:12,21;107:11
designed (1)
145:18
DeSouza (3)
72:24;84:1;88:4
despite (4)
85:19,23;107:22;
145:18
destination (8)
97:16;103:8,15;
104:6,8;105:23;
146:24;147:2
destinations (4)
88:20;93:5;95:1;
101:22
detail (2)
33:23;72:9
detailed (1)
72:14
details (1)
173:4
determinations (1)
93:21
determine (6)
32:18;93:2;94:23;
95:6,13;138:22
determined (3)
34:1,5;158:6
detours (4)
109:2;111:24;
113:6;114:16
develop (2)
116:4;124:13
developed (1)
174:8
developer (3)
115:15,18;117:2
developers (2)
115:20;119:12
developing (1)
137:9
development (6)
100:12,17;108:11;
117:21;120:3;152:2
deviate (1)
68:5
DeWan (1)
94:15
di (1)
49:11
Diablo (2)
103:24;104:2
Diego (1)
105:12
difference (9)
53:21;112:8;
120:22;126:8;

153:10,15,19;157:15;
169:10
differences (2)
10:19;120:8
different (34)
7:4;8:5;24:12,14;
26:3;29:21;30:12;
32:4;33:2;34:22;
37:15;56:4;65:5;
96:22;100:5;115:18,
20,22;124:10;137:4;
146:8;154:17;155:9;
156:19;163:6,16,16;
164:9;165:14,21;
168:22,23;172:1;
174:18
differential (1)
155:11
difficult (5)
119:14;121:22,24;
161:9;162:5
difficulty (2)
120:18;155:7
diminishes (1)
70:9
diminishing (1)
69:21
diminution (1)
159:3
direct (6)
76:18;91:8;113:23;
156:11;170:19;175:9
directly (2)
34:3;174:6
disaggregation (1)
49:18
disagree (5)
35:7;45:11;99:21;
102:2;104:5
disagreed (1)
99:20
disagreement (2)
60:1;68:16
disagrees (1)
98:13
disconnect (1)
41:23
discount (10)
29:18;30:2,22;
33:6,10;35:19,21;
36:3;38:3,5
discounting (1)
55:4
discovery (4)
51:7;55:20;56:2;
88:14
discuss (5)
51:14;84:13;88:18;
161:5;171:22
discussed (4)
68:18;90:12;
100:21;110:4
discussion (10)

40:22;47:12;48:7;
88:8,9;100:11;
122:12;123:6;127:8,
10
displace (2)
7:1;8:1
displaced (5)
9:22;10:7;13:21;
14:7;15:2
displacement (3)
17:14,15;22:21
displacements (9)
22:15,18;23:11,12,
13,14,21;24:4,9
displacing (1)
15:22
disposable (1)
6:4
disruption (3)
140:21;161:18;
174:18
disruptions (1)
109:3
disruptive (3)
108:18;109:14;
115:12
distance (13)
29:23;30:9,17;
31:6,16;32:2;33:10;
35:2;37:5;69:22;
70:10,13;110:18
distant (8)
35:14,16;36:14;
37:7;70:4,23,24;
158:5
distinction (1)
163:21
distinguish (3)
30:12;45:2;95:7
distinguished (1)
43:15
distributed (1)
161:23
distribution (6)
35:23;129:23;
130:1,8;145:8;
167:12
divide (3)
154:6,17;166:22
divulge (1)
164:16
document (15)
28:11,15;29:10;
56:1,17;65:1;71:12;
82:17;85:2;105:1,18;
108:8;110:11,23;
117:5
dollar (4)
52:24;150:5;
161:19;165:20
dollar-based (1)
151:9
dominant (1)

159:18
done (16)
5:15;30:9;45:6;
91:21;116:11;132:5;
139:8;143:21;148:8,
22;149:3;151:21;
155:8;165:5,18;
175:11
double-counting (2)
42:22;43:4
doubt (1)
120:11
down (16)
35:2;49:9;61:7;
67:10,16,20;72:14;
78:21;129:2,14,21,
22;159:15;161:8;
162:9;170:4
downtown (8)
109:5;171:23;
172:20;173:5,9,10,
10,15
Dr (1)
138:17
dramatic (1)
167:16
dramatically (1)
96:20
drastically (1)
40:6
draw (8)
77:12;121:2,5,9;
144:13;149:16;
152:10;165:23
draws (2)
130:23;147:6
drew (1)
158:10
drive (5)
96:20;107:10,11;
144:13;150:13
drivers (2)
49:3;50:5
due (4)
78:11;84:8;126:17;
133:2
duration (1)
140:1
during (15)
20:14;39:9;47:23;
51:7;55:20;57:10;
108:16;111:15,23;
112:5,22;113:1;
114:9;124:3;173:18

E

earlier (8)
16:16;62:19;69:17;
109:17;110:4;
118:16;152:8;169:21
earthquake (1)
169:12

easily (3)
55:22;82:7;159:19
easy (2)
72:10;129:4
eatery-type (1)
166:9
economic (42)
6:18;9:17;10:12;
18:12,20;20:14;21:2,
8,16,21;26:8;39:3,6;
45:18;46:8,22;47:15;
52:4;55:1,5;65:24;
66:7,8,20;67:6,16;
68:10;78:7;79:17,22;
111:12;116:12;
125:22;126:17;
140:10;142:2;
151:22;152:1;
153:24;162:19;
163:4;172:5
economics (1)
127:5
economy (4)
25:16;110:2;
163:17;164:15
edge (1)
36:11
effect (16)
7:17;10:20;22:17;
27:12;28:22,24;30:9;
49:13;83:3;115:12;
120:14;139:17;
141:6;155:20;
170:24;171:1
effects (19)
6:21;11:24;12:5;
23:2;27:14,15;38:21,
23;49:11;78:10;89:9,
13;109:14;115:3;
133:4;158:2;173:17;
175:9,10
efficient (2)
7:21;16:1
effort (2)
95:7;112:13
EIA (2)
101:12;107:16
eight (1)
153:13
EIS (1)
82:8
either (9)
88:6;89:2,21;
142:4;147:12;
148:24;156:3;
161:18;169:15
electric (3)
14:7,21;20:2
electrical (2)
155:13,14
electricity (15)
6:3,6;8:15;10:19;
11:24;17:11;18:18;

20:15;23:14;27:12,
18;124:15,19;
126:14;132:15
Element (3)
136:10;142:15;
144:23
elements (2)
25:16;43:24
Eleven (1)
123:24
elicit (1)
145:19
else (14)
23:22;87:8,13;
92:14;134:12;
138:16;141:7;
142:11;150:11;
154:6,10;155:14;
156:13;158:7
e-mail (2)
84:24;87:4
e-mails (1)
88:15
embarking (1)
166:4
emphatic (1)
99:19
empirical (9)
117:18;119:17,24;
120:1;121:1,4,19,21;
147:20
employees (4)
41:13;50:19;
155:10;174:21
employment (16)
11:11;12:3,6;
13:13;16:8;17:4,10,
12;18:3;39:9,23;
45:18;68:10;156:11,
11;157:2
encompasses (1)
155:2
encourage (1)
6:13
end (8)
55:1,5;59:20;
104:10;129:12;
130:23;133:5;172:11
ended (1)
18:4
ends (2)
97:2;169:7
energy (5)
15:2;31:5,18;79:7;
122:9
England (11)
16:10;19:1;20:2;
22:14;23:17;27:24;
109:19;114:7,19;
115:6;117:1
enjoying (1)
150:10
enormous (2)

11:11;83:2
enough (8)
30:24;40:17;75:22;
77:13,24;82:7;
111:19;117:12
ensure (1)
114:7
enter (3)
154:24;155:17;
157:1
entered (9)
7:10;8:4;13:4;
43:24;44:20;52:22;
56:22;62:17;175:8
entering (1)
156:8
entertainment (2)
163:2,10
entire (4)
64:14;154:5;
161:24;172:13
entirety (1)
74:22
entities (3)
27:11;89:15;
164:10
entity (2)
31:22;137:17
entries (3)
7:11;50:23;62:13
entry (3)
49:17;50:15,15
environment (1)
98:20
environmental (1)
81:18
equally (2)
69:19;70:3
equipment (2)
50:5;152:22
equivalent (1)
173:1
equivalents (2)
44:21;45:9
erroneous (1)
54:5
error (3)
39:14;68:15,20
errors (4)
39:8;136:18;
138:11;143:2
especially (2)
136:3;161:3
essentially (3)
21:22;28:23;
163:12
establish (1)
153:22
established (2)
90:23;134:17
establishment (2)
170:12,12
establishments (1)

166:9
Estes (4)
  100:24;101:5;
  102:8,9
estimate (20)
  28:24;29:2;37:11,
  11;38:13;50:18;53:4;
  91:18;93:23,24;96:9;
  120:19;124:24;
  141:24;142:14;
  153:18;156:13;
  157:9;161:9;162:6
estimated (18)
  32:12;39:22,23;
  74:5;78:9;84:5;86:3,
  9;87:20,21;90:8;
  92:10;96:12;124:4;
  125:21;148:5;
  156:11;169:9
estimates (15)
  63:1;68:11;77:15;
  79:21;80:2;83:13;
  87:9;90:3,11,21;
  91:7;120:6;137:20;
  158:16;161:14
estimating (6)
  91:13;154:2,8,10;
  158:2;164:18
estimation (6)
  29:11;39:24;50:3;
  60:7;68:3;155:19
estimator (2)
  155:24;157:6
et (4)
  67:7,7;79:7;152:22
evaluation (1)
  31:3
even (26)
  7:12;13:11;19:11;
  25:21;26:16;37:23;
  66:13;68:11;70:22;
  75:19;96:6,20;98:3;
  115:8;120:15;
  131:20;138:11;
  145:24;146:20;
  160:24;162:10;
  164:8;165:16;
  171:16,16;175:14
evenly (1)
  161:23
event (1)
  163:20
Eversource (3)
  40:5;42:8;153:21
everybody (3)
  141:2;142:11;
  164:6
everyone (2)
  5:3;123:2
Everything's (2)
  130:2,5
everywhere (1)
  98:12

evidence (5)
  51:1;75:22;76:5,
  20;77:13
evidential (1)
  75:14
exact (4)
  43:12;47:22;
  101:10;132:21
exactly (5)
  43:23;98:10;
  138:13;163:23;
  174:20
example (10)
  8:18;18:15;52:15;
  80:12;98:2;103:11;
  129:19;139:7;
  141:21;143:14
examples (1)
  32:8
excavating (1)
  152:17
exceed (1)
  27:5
except (4)
  63:17,20;120:16;
  140:20
exception (1)
  145:4
exclusively (1)
  45:6
exercise (2)
  30:24;31:8
exhaustive (2)
  80:18;157:11
Exhibit (25)
  5:21;9:6;10:22;
  14:17;15:4;28:4;
  39:4;42:2;57:24;
  60:3,10;74:1;76:1;
  78:3;81:3;83:23;
  84:23;91:3;93:18;
  99:10;101:6;102:18;
  108:13;113:8;118:20
exhibits (1)
  121:9
exist (3)
  99:3,8;136:5
existence (1)
  132:1
existing (9)
  7:2;15:23;82:13;
  94:10,22;95:8;
  168:14,14,21
exists (3)
  83:10;137:23;
  147:22
expanded (1)
  17:1
expect (3)
  139:24;164:20;
  167:23
expected (4)
  25:21;26:15;68:8;

79:22
expects (1)
  68:6
expenditure (7)
  60:13;61:19;62:1,
  8;66:4,6;150:9
expenditures (37)
  6:6;11:12;40:1;
  46:12;51:13,15;54:4;
  56:22;58:7;59:13;
  60:19;61:15,16;
  63:24;64:2,8,21;
  65:10,22;66:14,20;
  67:11;117:20,24;
  119:17;120:2;
  121:18;161:22;
  163:8,14,15;165:6,
  11,21;166:17,20;
  167:9
expensive (3)
  150:22;160:4,4
experience (10)
  36:24;37:5;89:3,9;
  96:21;98:3;100:4;
  109:13;137:9;160:20
experienced (4)
  99:15;112:8;116:9;
  158:24
expert (6)
  20:10;71:11,15;
  72:19;73:18;91:5
experts (5)
  72:21;73:2,21;
  83:22;84:4
explain (5)
  42:12;47:17,21;
  60:3;99:21
explained (9)
  43:7;45:1;47:22;
  48:18;49:9;55:12;
  58:2;91:12;92:8
explaining (1)
  42:8
explanation (3)
  14:21;47:10;60:5
explicit (1)
  7:14
explicitly (3)
  43:15,22;59:6
expressed (1)
  53:18
expression (1)
  151:4
extend (2)
  25:6;27:9
extent (4)
  32:18;58:16;
  138:21;148:19
externalities (2)
  111:11,22
extract (1)
  145:13
extracted (1)

65:4
extremely (1)
  152:4

F

facilities (2)
  14:22;22:20
facility (3)
  23:4;131:24;
  134:20
fact (19)
  9:4;18:18;19:3;
  41:16;46:6;47:21;
  50:10;56:10;59:17;
  72:8;76:14;90:14;
  100:21;107:23;
  119:24;128:1;
  129:14;132:15;
  135:24
factor (3)
  33:16,20;34:9
factually (1)
  159:12
faculty (1)
  138:2
failed (1)
  125:19
Fair (11)
  10:23;30:24;40:16;
  101:16;106:13,23;
  107:5,11;117:12;
  122:14;144:1
fairly (5)
  99:19;164:21,24;
  169:16;174:5
Falls (5)
  134:3,21,24;
  135:15,17
familiar (8)
  18:24;56:10;88:22;
  94:6,12,17;110:10;
  118:22
familiarity (1)
  89:14
family (1)
  101:2
fancy (1)
  150:8
far (11)
  29:22;30:1;35:14,
  16;41:2;70:4,22,23;
  92:22;151:15;158:5
farm (1)
  117:20
farther (3)
  30:4;34:24;35:22
fault (1)
  55:4
feature (1)
  159:18
federal (1)
  156:17

feedback (2)
  142:16;143:7
feel (1)
  135:7
fees (1)
  155:4
feet (2)
  34:16;35:4
felt (6)
  15:1;73:15;86:5;
  160:5;173:24;175:4
few (6)
  59:11;102:24;
  123:13;142:18;
  160:2,3
fifteen (2)
  97:3;169:9
Figure (5)
  12:12;46:13;63:22;
  64:1;97:10
figured (2)
  29:14,16
figures (1)
  49:15
file (1)
  58:15
files (5)
  43:23;44:4;48:21;
  53:15;58:12
final (3)
  81:18;82:8;97:14
finally (2)
  45:14;49:8
find (4)
  75:14;76:5;145:5;
  149:22
findings (1)
  152:4
fine (1)
  132:8
first (19)
  16:2;20:24;48:11;
  60:20;70:1;73:24;
  74:3;75:3,6;76:4;
  82:10;91:13;92:21;
  99:12;123:4;126:3;
  128:16;143:17;152:4
fishing (1)
  144:22
Five (2)
  13:24;34:20
fixed (1)
  29:3
flat (3)
  70:6,19;155:23
flexible (2)
  43:20;155:21
flow (4)
  150:16,17,17;
  151:5
flowing (1)
  112:2
flows (1)

21:12,15,19;22:1,6,
11,19;23:9,18,23;
24:6,14;25:4,19;26:1,
13,19;27:3,22;28:1,
17,19;29:21;30:3,9;
31:4;32:2,10,16,21;
33:9,12,19,22;34:7,
11,17,24;35:5,16,22;
36:5,9,15,19;37:3,21;
38:4,12,17;47:1,6;
70:5,14,16,19,22;
71:3,8,13,17;72:2,7,
14,22;73:1,5,11,20,
23;74:9,12,16,20,23;
75:2,11,18,24;76:9,
23;77:4,23;78:13,16,
20;79:2,13,19;80:1,4,
9,15,22;81:1,6,14,17,
20;82:1,9,14,18,22,
24;83:16,18,20;84:3,
10,14,18,22;85:3,6,
15,18,21;86:2,10,23;
87:2,10,15,21;88:3,7,
17,23;89:5,11,23;
90:4,9,13,17,22;
91:11,16,18,24;92:3,
7,12,16,19,24;93:7,
22;94:1,13,16,19;
95:3,11,16,23;96:8,
14;97:12,20;98:1,6,
15,19;99:3,6,9,18;
100:2,18,20;101:2,
10,19,23;102:5,11,
20;103:2,7,10,13,16,
20;104:4,7,13,18,22;
105:2,4,7,16,20;
106:1,11,16;107:2,8,
14,19;108:2,4,9,20,
24;109:7,16,23;
110:3,12,16,21,24;
111:3,17;112:3,7,10,
13,23;113:4,7,13,17,
23;114:13,18,23;
115:2,5,9,13,20;
116:14,18,23;117:3,
6,10,15;118:8,18,23;
119:2,10,18,23;
120:8;121:22;122:1,
4,17,22;123:12,21,
24;124:2,9,11,16,22;
125:4,12,15,18,24;
126:12,15,21,24;
127:9,19;128:15,19,
22;129:1;130:7;
131:10;133:12,15,21;
134:1,4,9,15;135:1,3,
6,10,13;136:2,15,21;
138:3,11;139:18;
141:12;142:21;
143:6;145:3,8;
148:16;149:19;
158:8,15;159:5,10,
14;160:15,18;161:8;

162:20;164:3;167:5,
22;168:17;170:1,3,9,
20;171:1,5,18;172:7,
18,22;173:3,9,16;
174:14
keep (4)
16:5;68:24;112:1;
152:23
kept (1)
44:12
kind (21)
7:12;8:19;24:11;
31:5,12;32:1;37:7;
47:1;86:17;146:18;
150:1;157:3;158:19;
159:18;160:5,20,21;
164:14;165:19;
167:22;170:14
kinds (3)
93:21;94:17;
160:19
Kingdom (3)
116:21;118:24;
119:2
knew (3)
55:23;77:8;145:14
knowledge (4)
89:1;90:6;99:7;
100:4
knowledgeable (1)
73:15
known (2)
156:10;157:8
KRA (3)
62:20;64:5;65:10
kV (6)
74:14;75:16;79:11;
101:14;103:11;
106:19

L

labeled (1)
133:20
labeling (1)
136:17
labels (1)
129:12
labor (20)
39:18;40:4,13,15;
41:1;43:7;45:22;
50:17;54:17,19;
67:23;68:6,17;148:4;
153:10,12;154:5,12;
156:15,18
lack (2)
133:1;135:19
Lake (4)
19:14;103:24;
104:3,11
land (5)
33:6;35:9;91:22;
98:8;140:14

landowner (1)
143:19
landowners (1)
144:2
landscapes (1)
127:21
lane (3)
114:4,4,11
large (7)
35:21;50:2;111:19;
127:15;131:13;
145:7;165:3
largely (1)
30:16
larger (5)
12:13;25:7;27:13;
155:19;175:14
last (6)
10:18;36:8;53:13;
76:18;85:8;169:20
lasted (1)
172:15
lasting (1)
173:17
later (1)
106:6
latest (1)
10:21
law (2)
106:13,22
leading (2)
26:6;129:2
learn (1)
58:6
least (6)
45:23;84:6;116:20;
126:9;166:24;167:2
Lee (2)
138:5,17
left (3)
62:18;128:24;
129:12
legal (1)
41:12
LEI (25)
6:19;7:4,11;17:24;
39:6,9;40:5;49:16;
51:17;52:23;53:13;
54:1,4;55:4,18;
61:20;63:12,15;
68:11;123:18;124:4,
23;125:19;152:3;
155:8
LEI's (8)
8:8;12:11;24:17,
22;40:2,2;53:15;
62:14
lend (1)
52:2
length (2)
114:21;172:14
less (10)
13:10;16:1;18:4;

77:10;96:2;141:16;
149:13,17,18;160:4
lesser (1)
93:17
letter (1)
132:13
letters (1)
174:3
level (13)
22:19;33:22;34:1,
6;44:1;54:18;72:9,
14;95:4,5;163:18;
167:1;174:5
levels (1)
79:23
lieu (1)
155:22
liked (1)
87:4
likely (14)
7:1;8:23;21:9;22:8,
10;25:1,15,21;26:16;
27:1;76:5;151:18;
162:3;169:18
likewise (1)
26:23
limited (8)
35:4;71:10,14,19;
72:3,8;85:13;137:9
line (91)
19:6,11,19;24:11;
29:9,22,24;30:5,21;
32:14;33:5,11,16;
34:13,15,21,23;36:2;
37:2;39:5;42:16,21;
43:7;44:17;49:8;
54:6;57:4,7,12;60:16,
18;62:20;66:16;67:5;
71:7,9;74:7,15;75:16,
17;76:6,22;77:21;
78:8,12;79:9,11;
80:7;81:8;82:10,12;
83:14,17;91:9;94:10,
11;95:8,10;97:17;
99:1;103:11,18,20;
105:24;106:19;
116:3;120:3,23;
127:16;128:4;129:2,
5,7,15;130:12,17;
131:7,7,13;132:7;
133:2;139:16;
144:11;146:2;148:9;
165:12;168:11,15,16;
169:23;170:22
linear (2)
19:5,10
linemen (1)
152:10
lines (53)
36:13;42:7;43:2,
10,19;44:24;45:14;
48:18;62:15;77:2;
89:4,6;99:16,24;

100:8,13;101:13,16,
17,21;102:9,13;
104:9;106:14,24;
107:6,13,20,23;
108:7;119:22;120:9;
129:11,23;130:2,5,8,
24;131:14;134:12;
135:16,23;136:1,5;
144:7,12,14;145:23;
147:1,10;159:16;
170:6;171:11
line's (2)
85:13;145:21
Link (5)
19:1;109:20;
114:19;115:6;117:1
list (6)
14:24;15:5;57:20;
62:7,12;157:11
listening (4)
142:16,20;143:4,
15
literally (1)
119:14
literature (2)
71:21;72:4
little (15)
22:23;23:6;64:19;
97:18;100:22;101:8;
109:9;110:18;
124:10;126:3;
129:17;151:23;
156:24;169:20;171:7
live (3)
101:2;135:24;
144:14
lived (1)
101:1
loaded (2)
42:12;154:14
local (24)
6:8;7:20;27:10;
39:2;71:11,15;72:18;
73:2,18,21;83:22;
91:5;111:14,23;
112:5,21,23;113:1;
114:12;116:6;148:5;
152:21;161:16,17
locales (1)
115:13
localized (1)
108:21
locally (3)
8:1;12:18;13:10
locate (1)
99:23
located (4)
85:20;101:22;
102:1;114:24
location (5)
24:12;83:1;106:12;
116:3;142:7
locations (6)

32:20;95:19;96:22;
107:18,19;158:12
lodging (1)
174:24
log (1)
50:8
logging (8)
47:11;48:5,19;
49:19;50:7,16,17,19
logic (4)
100:10;161:8;
168:3;169:19
long (6)
15:18;69:2;88:8;
131:24;132:2;135:11
longer (4)
25:6;27:9,15;40:12
long-lasting (1)
139:23
long-term (5)
24:10;140:22,24;
173:7,12
look (39)
10:9;12:11;18:9;
25:24;26:18;28:6,9;
38:10,24;39:4;43:10;
56:7,18;62:6;63:2;
70:16;71:18,20;75:4;
76:1,4;78:17;81:2;
82:16;83:22;91:3;
96:9;102:6;104:24;
105:8;108:13;
113:14;114:1;131:6,
12;133:15,22;
167:11;171:9
looked (11)
11:17;18:19;26:7;
29:13;57:22;82:20;
103:17;107:16;
138:2;164:13,19
looking (14)
15:5;20:23;36:21;
70:18;99:12;101:20;
103:5;122:19;150:5;
158:16;168:8,9,11,13
Looks (11)
61:4;64:20;75:12;
85:3;98:10;105:3,11;
110:10;122:8;
130:13;131:5
loss (22)
12:3,18;29:2;98:3,
5;140:2;141:4;142:3;
150:19;151:3;
158:24;159:6;
160:21,24;161:1;
162:10;169:6;172:5;
174:2,11;175:6,7
losses (7)
35:24;74:6;75:20;
79:17;92:9;172:19;
174:19
lost (2)

22:22;59:11
lot (24)
26:7;50:12;72:15;
83:12;95:20;96:1;
100:8;102:1,12;
107:18;127:1;131:4;
135:16;137:15;
143:6,16;155:2;
158:10;159:2,15;
164:21;167:6;173:6;
175:3
lots (3)
126:21;127:22,22
low (2)
68:12;148:13
Lower (11)
6:10;41:4;64:24;
66:5,7,21,23;67:21;
68:7;155:1;167:20
lowered (1)
67:8
lower-priced (2)
7:1;17:2
low-income (1)
151:11
low-value (1)
151:2
Ludlow (1)
114:14
lunch (2)
175:20,22

M

macro (2)
95:4;158:19
macro-level (1)
170:15
magnitude (5)
21:10;25:2;79:17;
130:18;163:24
main (4)
22:24;145:10;
151:16;172:13
Maine (4)
106:3,13,19,22
maintained (1)
111:23
maintaining (2)
112:5;113:1
major (1)
152:3
makes (2)
45:15;163:22
making (1)
6:14
Mall (1)
169:22
managing (1)
113:20
mansion (1)
150:20
many (11)

32:3,3;44:22;83:6;
96:21,21;108:9;
142:8;159:24;
174:20,21
map (14)
33:3;94:2,20,21;
98:10;101:9,12,17,
20;107:16;140:15;
168:2,12;171:9
mappings (1)
171:6
maps (6)
29:14;36:21;94:9,
17;95:20;101:11
margin (1)
129:15
Mark (2)
72:24;138:3
market (17)
5:19;6:3;8:15;
10:20;11:24;17:11;
18:18;20:2,16;22:15;
23:14;27:12,18;
28:21;122:10;
165:19;166:1
markets (1)
163:16
Massachusetts (2)
20:4;144:15
massive (1)
164:5
material (29)
39:24;51:12,15;
53:4,14;54:3,18,23;
55:7;56:19;57:13;
58:7;59:13;60:7,12,
19;61:13,24;62:3,20;
64:1;65:10;66:4,6,
14;67:11;98:23;
157:8,11
materials (20)
39:19;40:14;54:10;
55:19;56:13,24;57:5,
19;59:6;61:8,9,18;
62:9;63:18;84:21;
154:5;156:14,18;
157:6,7
math (3)
68:15;136:17;
157:19
matter (2)
11:2;111:2
matters (1)
150:3
maximizing (1)
112:23
may (15)
25:16;62:20;69:12;
90:24;91:9;96:20;
114:10;122:14;
141:21;143:20;
150:14;153:20;
162:23;164:10;167:1

maybe (3)
122:20;169:20;
171:12
meal (2)
150:8;162:16
meals (5)
137:6;161:12,14;
164:22;174:24
mean (10)
8:16;35:12,13;
54:13;89:14;127:18;
130:21;140:22;
142:16;153:5
meaningful (5)
77:24;117:23;
119:16;121:17;161:3
meaningless (1)
148:3
means (8)
42:13;68:9;77:11,
23;147:4;149:23;
156:13;166:19
meant (2)
25:14;47:21
measurable (1)
83:4
measure (6)
31:6;80:10;82:24;
117:19;120:2,16
measured (1)
77:10
measurement (1)
76:12
measures (2)
120:4;139:21
measuring (1)
119:21
mecca (2)
134:6,8
mechanism (1)
155:8
Medicare (2)
154:14;155:5
meeting (2)
88:9;173:21
meetings (1)
73:13
megawatts (3)
9:22;10:6;13:20
member (1)
132:12
members (2)
123:3,9
Menard (1)
122:6
mention (1)
19:7
mentioned (4)
19:9;109:18;
134:23;155:3
merit (1)
115:8
Merrymeeting (1)

106:3
met (4)
5:10;84:12,16;88:4
method (1)
8:11
methodologically (1)
138:22
methodology (8)
91:2;92:14,18,20,
21;120:24;121:1,14
methods (2)
116:5;137:12
metric (4)
77:7;117:23;
119:16;121:17
metrics (2)
150:4;151:9
metropolitan (1)
153:11
micro (1)
95:4
middle (5)
8:19;14:6;78:6;
128:9;159:17
mid-ground (1)
70:23
midpoint (3)
8:24;9:1;97:14
midpoints (1)
26:7
mid-range (1)
97:11
might (35)
18:16;25:24;26:18;
28:22;34:12,21;
38:10,23;48:13,14;
59:5;72:15;76:11;
82:2;95:24;122:13;
131:13,21;132:2;
135:11;141:24;
142:7;144:18;
145:15,21;146:2;
147:15;151:12;
159:20,24;167:23;
168:22;173:24;
174:6,17
mile (4)
33:5,15;34:13,15
miles (16)
19:21,22;32:14;
34:20,23;35:15,16,
18;36:2,4,13;38:1;
97:17;109:11;
110:15,19
Mill (1)
103:4
million (38)
53:15,16,20;56:20;
57:7;58:14;59:2,10,
12,15,18;60:21;61:4;
63:22;64:1,10,23,24;
65:19,22;70:17;
124:6,7,18,21;125:2,

8,9,11,22;126:10,16;
159:4;160:24;163:7,
8,9,10
millions (1)
59:7
minimal (1)
111:22
minimize (3)
112:14;131:2;
139:21
minimizing (1)
116:6
minimus (1)
49:11
minor (3)
10:19;111:24;
113:6
minus (4)
12:15;18:2,3;
126:10
minute (11)
10:9;11:6;28:9;
59:9,14;61:7;64:5;
65:9;72:17;94:5,20
minutes (2)
59:11;102:24
missing (2)
59:18;126:19
misstating (1)
121:8
mitigates (1)
140:23
model (46)
6:18;7:10,11,17,17,
22;8:2,5;12:5,11,16;
13:5,7,16;15:17;16:4,
11;17:16;18:7;23:23;
36:20,23;39:8;40:1,5,
8;42:23;45:10,12;
49:17;52:4,5;53:2,3;
58:9;60:2;65:11,23;
68:6,7;111:19;
153:17;157:9,16;
173:19;175:8
modeled (3)
18:5,11,14
modeling (1)
175:10
models (1)
137:19
modified (1)
52:3
modifying (1)
162:20
moment (7)
12:24;13:19;48:16;
55:10;68:14;69:16;
104:24
Monadnock (3)
171:3,15,18
money (8)
142:6;146:12;
149:18;151:5,14;

163:6;164:6;169:14
month (1)
148:5
more (38)
6:15;7:9,21;8:3;
13:4;21:8;22:1,3;
30:14;43:9;55:22;
56:10;68:13;93:10;
95:4;101:18;128:8;
137:17;139:23;
141:20;143:6,9,16,
20;145:16,24;146:14,
22;148:18,20;150:15,
23;160:4;166:9;
167:18;170:13;
173:3,17
morning (7)
5:3,9;42:5;48:2;
123:11,12;175:23
Moses (1)
134:24
most (8)
5:13;13:13;15:1;
73:7;113:24;130:21;
139:24;174:22
mostly (1)
173:22
mothballed (3)
13:12,24;15:12
mothballing (1)
15:11
motivated (1)
143:8
motorized (2)
144:19,20
motorsport (1)
144:21
Mountain (1)
102:15
mouth (1)
106:4
move (5)
39:2;51:12;108:12;
116:11;136:10
moved (1)
116:2
Moving (2)
142:15;144:23
MPRP (2)
106:9,20
much (27)
6:19;13:10;31:4;
32:23;64:24;83:10;
84:7;95:4;106:9;
109:10;127:12;
141:19,21;142:5,23,
24;146:14;149:1;
150:14;151:16;
152:9;156:18;
161:14,15;163:1;
167:3,20
municipal (1)
114:10

municipalities (1)
113:24
municipality (1)
115:23

N

name (2)
105:9;152:15
named (2)
105:3;113:9
name's (1)
5:10
narrow (3)
93:12;96:15;
114:10
narrowing (1)
96:19
narrowly-defined (1)
166:1
National (10)
81:4,9;102:14,15,
21;162:21,23;166:12,
24;167:17
nature (1)
32:19
near (4)
70:23;107:4;
130:18;131:12
nearby (1)
142:7
nearly (1)
130:14
necessarily (6)
12:17;24:20;37:9;
145:12;151:14;
162:12
necessary (1)
112:1
need (10)
9:5;60:14;64:13;
132:14,15,19;135:24;
151:13;157:5;163:5
Needleman (59)
5:5,6,8,10,22;6:1;
11:4,7;25:10,12;28:3,
5;42:1,4;60:9,11;
61:6,10;64:4,7,15;
68:23;69:4,7,12,13,
14;79:4,6;81:22;
82:3,5;94:3,8;101:7;
102:17;103:21,23;
104:14,16;105:11,13;
111:4,9;118:3,5,10,
13,19,21;119:3,6;
121:11,13;127:11;
132:20;133:11;
158:1;170:17
needs (2)
132:18;135:22
negative (24)
12:5,13;17:10,12;
22:9,17;23:2,3;

24:21;27:5,6,11;53:7,
8;78:9;111:11,13,21;
126:20;127:17;
133:3;140:24;143:7;
147:16
negatives (1)
127:2
negligible (1)
115:7
negotiated (1)
27:10
neither (2)
89:8;147:21
net (2)
12:3;125:22
New (68)
9:17;15:19,21,23;
16:5,10;19:1;20:1;
22:14;23:12,16,21,
24;27:24;53:14;
56:24;57:19;59:23;
68:24;69:24;72:10,
20;81:10;92:6;94:11;
95:9;97:16;100:3,6;
103:11;109:19;
114:19;115:6;
116:24;123:23;
124:5,14,19,20;
125:1;129:3;130:16;
132:8;136:11,14;
138:4;139:2;141:8;
142:11;144:14;
146:9;148:6;152:11;
153:12;155:12;
159:8;163:23;164:2;
165:23;166:3,11;
167:1,7,20;168:10,
21;169:13,24
news (1)
148:5
next (11)
60:10;83:21;
103:22;104:15;
105:17;106:2,17;
107:3;111:7;116:11;
133:22
NH (3)
11:13;125:20;
126:18
Niagara (4)
133:20;134:3,20,
24
Nichols (12)
85:11;86:14,19;
99:13;107:22;
127:22;139:12;
141:1,2;143:4;145:1;
147:2
Nichols' (8)
85:4;87:5;100:23;
136:12;142:17;
143:1;149:12,14
Nick (1)

19:9
night (2)
150:6,7
nobody (5)
57:11;99:23;
128:10;138:16;
147:23
nodding (1)
26:11
nominal (2)
52:23;60:22
none (7)
10:19;23:4;27:22;
101:21,23;102:9;
120:13
non-tourism (1)
164:22
non-tourist (1)
167:8
non-tourists (1)
161:20
normal (1)
50:7
North (4)
88:19;103:24;
104:20;152:18
Northern (19)
7:8;9:21;13:2,19;
15:10;16:15,17;
17:13,20;28:14;
112:4,20;113:5;
127:21;152:20;
168:16;170:22;
172:24;173:14
notation (1)
156:24
note (2)
147:8,17
noted (1)
176:1
notes (3)
88:13,18;142:19
notice (1)
133:18
noticed (1)
138:16
notion (1)
132:5
nowhere (3)
65:18,21;128:10
NPT (7)
10:5;25:22;26:16;
110:5;114:20;
115:10;124:24
nullified (2)
55:13;141:11
nullify (1)
55:14
number (60)
10:16;12:14;30:4;
33:17;39:15,18,20,
23;42:2;44:13;51:4,
5;53:8;59:2,2;60:20,

parks (2)
102:14;131:20
Parkway (1)
133:20
part (14)
12:9,15,16;69:23;
109:18,20;113:24;
116:16;126:4;129:7;
139:24;155:18;
157:6;166:6
particular (3)
29:5;116:9;137:21
partly (2)
19:14,15
parts (5)
38:19;40:13;49:20;
50:3;163:17
Pass (19)
7:8;9:21;13:2,19;
15:10;16:15,17;
17:13,20;28:14;
109:5;112:4,21;
113:5;152:20;
168:16;170:22;
172:24;173:14
passengers (3)
165:13,13,20
pattern (1)
165:14
pay (5)
40:6;46:18;152:10,
20;155:16
paying (3)
146:6;148:19;
149:1
payment (1)
125:1
payments (3)
11:14;25:5;124:24
Pemi (1)
172:10
pending (1)
28:16
Pennsylvania (2)
81:10;144:15
pensions (1)
154:15
people (33)
73:6,8,11,14;
76:11;83:6,9;93:14;
94:5;100:3;131:16;
141:14;142:3;143:8,
11;144:4;146:7,22;
148:17,19;149:4,17,
22;151:12,14,18;
160:3;165:7;173:22;
174:4,6;175:3,5
per (10)
124:7,18,21;125:2,
22;149:13,16;154:4,
9;161:7
percent (61)
29:18;30:2,3,6,8,

19;39:10,15,20;
51:14;67:1,9,10;68:1,
2;69:19;70:3,20;
71:3;74:8,8;75:20,
21;78:11;79:16;
81:12;84:7,7;86:4,4,
4,22;92:11;96:10,13,
18;97:3,5,10,11,15,
19;98:3;123:19,19;
146:23;147:9,11;
149:12,15;161:21,22;
167:9,11,14,15,18;
169:3,4,6,10
percentage (13)
29:4,15;67:8;
68:20;91:22;96:11;
97:8;98:7;140:14,18;
162:11;169:2;175:7
perfect (2)
96:1,2
perfectly (2)
46:1;157:20
performed (2)
39:7;67:7
perhaps (2)
120:15,16
period (20)
11:22;12:6,14;
18:1,6;21:5,11;
22:14;24:16;25:3,6;
27:9;112:22;152:24;
172:2,2,4;173:18;
174:16,17
periods (6)
21:3;111:24;112:6;
113:2;172:1;174:10
persists (2)
14:8;98:21
person (4)
5:12;150:10,15;
152:15
person's (1)
105:4
pertained (1)
136:13
phase (2)
21:4;108:16
phenomenal (1)
170:10
photo (2)
104:11;106:2
phrase (1)
73:18
physical (1)
24:12
picked (1)
8:23
picking (1)
93:14
picture (7)
105:21;128:16,16;
133:8,22,23;143:22
pie (1)

47:17
piece (4)
34:12,14;72:16;
171:8
pieces (1)
33:18
pits (1)
152:18
place (11)
23:22;61:23;93:8;
102:13;103:4;104:2;
130:15;131:3;140:5;
142:8;168:1
placement (1)
130:24
places (2)
146:3;158:17
Plan (3)
11:13;125:20;
126:18
planned (1)
112:1
plans (2)
113:6;114:20
plant (14)
7:5;12:7;13:2,6,11;
14:12;16:1;17:14;
22:15,18;23:21;
27:20,23;131:23
plants (19)
7:7;14:23;15:1,6,
11,12,14,19,22,23,23;
16:5,15,17,18,21,22,
23;23:16
please (5)
5:15,24;102:18;
135:6,8
plenty (2)
130:8;144:16
plugged (2)
58:9;61:12
Plunge (1)
129:16
plus (4)
40:1;126:10;
154:15;172:5
Plymouth (15)
91:14;141:20,23;
142:8;161:13;
162:14;163:22;
164:11;167:12;
171:23;172:10;
173:5,10,11,21
pm (2)
175:21,22
point (25)
10:23;12:24;36:16;
43:8;47:9,22;58:20;
61:24;76:18;85:8;
94:7;104:3;106:4,18;
107:5;117:7;120:17;
140:5;146:9;148:11;
149:20,20;156:1;

165:9;166:12
pointed (3)
58:1;80:6;100:23
points (1)
6:2
pole (1)
130:1
poles (1)
130:5
policy (2)
55:13;62:7
pool (1)
151:12
pop (1)
102:13
portion (3)
29:18;70:11;
172:13
ports (1)
165:8
positions (1)
122:19
positive (11)
21:10;22:8;24:10,
16,17,18;25:1;27:1,
13,15;130:13
positives (2)
126:21;127:2
possibility (1)
58:19
possible (13)
49:23;50:2;57:15;
62:13;86:5;88:17;
91:6;101:24;102:5;
111:12;120:15;
121:20;155:6
possibly (1)
84:7
potential (21)
23:2;37:15;71:16;
74:5;75:15;76:21;
77:20;79:17;92:5;
111:13;114:6;
116:15;124:14;
126:13;128:6;
144:24;159:2;160:5;
170:18;174:2,19
potentially (2)
37:1;150:22
power (42)
7:1,2,19;8:1;13:10;
16:6,9;17:3,5;19:1,
11;22:13,14;23:16;
109:20;114:19;
115:6;117:1;128:24;
129:15;130:9,12;
131:14,15,23;132:7,
19;133:17,18;134:11,
24;135:15,22,22;
144:11,12,13;145:23;
146:2,24;147:9;
170:6
power's (2)

7:23;16:7
predicting (2)
21:16,23
preface (1)
83:11
prefiled (5)
71:6;72:4;111:1;
113:9;138:1
premise (1)
132:24
premised (1)
33:10
premium (1)
152:20
preparation (1)
49:4
presence (3)
78:11;84:8;127:15
presented (7)
8:17;9:2;21:7;
29:23;49:15;77:20;
97:12
pressing (1)
44:12
presumably (2)
49:5;168:3
presume (1)
8:22
pretty (7)
31:4;70:22,24;
83:10;94:6;164:12;
167:16
price (3)
7:13,16;13:8
prices (3)
124:15,19;126:14
Primarily (1)
73:5
primary (1)
111:11
printed (1)
127:12
printing (1)
133:13
prior (3)
86:7;119:8;173:23
private (1)
144:2
probabilities (1)
9:9
Probably (6)
48:12;107:17;
109:24;134:18;
166:9;167:18
problem (3)
62:13;115:24;
145:10
problematic (1)
116:1
problems (2)
149:6;152:3
proceeding (2)
20:8,11

169:1
reduced (6)
    30:7,16;35:10;
    68:9;79:23;84:6
reducing (1)
    140:13
reduction (9)
    35:3;37:6,10;
    79:22;124:18;
    126:13;168:9,13,15
reductions (2)
    13:8;81:11
refer (3)
    72:3,23;73:2
reference (2)
    5:20;100:23
referenced (3)
    74:10;81:15;
    102:23
referred (2)
    8:14;40:21
referring (5)
    11:16;72:5,7;73:4;
    85:11
reflection (1)
    166:11
reflective (1)
    141:17
refresh (1)
    28:10
refuted (1)
    139:13
regard (1)
    102:9
regarding (3)
    76:5;100:12;122:9
regards (1)
    139:10
region (10)
    24:4,20;91:10;
    144:20;145:7;
    164:12;170:23;
    171:3,4,8
regional (12)
    6:14;14:7;20:14;
    23:13,16,23;24:3,6,9;
    117:19;120:2;141:6
regions (11)
    35:9,11;72:12;
    92:10;117:21;139:2;
    140:16;162:22,23;
    164:16;168:2
register (1)
    151:6
regulatory (1)
    80:23
Reimers (3)
    100:22;102:7;
    119:19
related (5)
    42:23;48:19,22;
    125:15;133:18
relates (1)

108:13
relating (1)
    174:11
relation (2)
    89:22;119:21
relationship (1)
    32:3
relative (1)
    130:20
relatively (2)
    140:7;161:2
release (1)
    139:6
relevant (7)
    21:3;71:10,14,19,
    21;72:3;80:16
reliability (1)
    145:15
relied (5)
    73:7;81:3;83:21;
    90:7;100:6
rely (5)
    78:4;80:20,23;
    90:20;163:16
relying (4)
    83:24;113:19,22,
    23
remained (1)
    15:7
Remember (8)
    41:5;47:11,18;
    48:10;87:18;113:22;
    132:21;138:13
REMI (44)
    7:10,11,17,17,22;
    8:4,4;12:10,16;13:5,
    7,16;15:17;16:3,24;
    17:6,16;40:8;42:23;
    43:4,20,23;45:3,6,17;
    49:17;52:12,17;
    53:15;54:2,16,17;
    55:7;61:11,14;62:6,
    15;63:3;65:11;68:6;
    155:3,4,13;157:16
remind (1)
    5:14
removal (1)
    50:8
rents (2)
    137:5;150:6
repeat (2)
    26:13;38:17
replaced (1)
    10:15
replacement (2)
    10:17;17:9
report (53)
    5:21,23;9:4;10:11;
    11:5;12:13;14:6,19,
    20;18:9;25:9;26:5;
    37:18;38:6,19;40:22;
    51:16,21;53:11;
    71:20;73:9;74:11,13,

21;75:3,19;76:24;
    78:4,14;81:16;86:7,
    7;87:23;88:11;90:1;
    93:19;99:10;100:19;
    102:3,24;103:17;
    119:4;123:15;127:4,
    6,14;136:13;139:13;
    142:24;143:23;
    149:7;152:1;161:5
reported (1)
    24:15
Reporter (5)
    17:18;125:16;
    128:21;135:4;160:17
reports (3)
    71:22;82:20;
    137:10
represent (8)
    5:11;44:18;46:18;
    56:1;66:13;101:14;
    103:3;106:7
represented (4)
    34:19;40:8;44:13,
    15
representing (3)
    25:20;26:15;
    119:12
represents (2)
    33:4;133:24
requested (1)
    139:7
requests (3)
    44:7,8;57:11
require (2)
    45:4;114:10
required (2)
    154:15;156:19
requirements (1)
    53:4
research (1)
    85:9
residence (2)
    36:2;114:8
resident (1)
    162:15
residential (3)
    36:17;129:9;162:5
residents (2)
    161:16,17
residual (2)
    173:7,12
resource (7)
    103:12;106:12,15,
    21;107:1;136:8;
    151:4
resources (1)
    170:11
respect (10)
    6:3;7:4;33:14;
    69:17,24;71:19;
    72:18;86:15;99:16;
    113:20
respects (1)

52:2
respond (3)
    25:17;82:11;
    148:22
respondents (5)
    145:2;146:23;
    148:15;149:13;
    151:11
respondents' (1)
    149:11
response (12)
    6:24;12:10,17;
    14:8,14;20:24;21:1;
    24:19;128:4;146:18;
    148:13;149:15
responses (6)
    25:7;145:14,19;
    146:21;147:9;149:10
rest (2)
    148:8,10
restate (1)
    121:11
restaurant (9)
    150:8;161:6;162:7,
    7;167:8;168:7,18;
    169:24;170:5
restaurants (8)
    161:11;163:1,9;
    166:17,18;168:10,13;
    170:7
restricted (1)
    114:11
restrictions (1)
    114:5
result (4)
    17:2;98:24;124:18,
    20
resulted (1)
    39:8
results (6)
    58:22,23;59:8;
    143:2;149:8;164:20
resumed (1)
    69:9
retail (1)
    124:14
retain (1)
    13:12
retire (1)
    7:7
retirement (2)
    7:16;17:8
retirements (4)
    7:5,12;12:19,21
revenue (1)
    137:5
review (10)
    71:22;72:5;74:18,
    21,24;78:2;81:18;
    136:11;140:8;160:13
reviewed (3)
    78:18;86:6;171:24
reviews (12)

28:11,15;29:10;
    56:17;65:1;71:12;
    82:17;85:2;105:1,18;
    108:8;110:11
revised (3)
    57:5,12;58:7
revisited (1)
    39:13
RFP (1)
    20:5
ride (2)
    144:6,9
ridiculous (1)
    47:1
right (284)
    5:12;6:8,21;7:2;
    8:10,11,13,15,21,24;
    9:3,11,23;10:2,3;
    12:2;14:15;15:16;
    17:20;18:21;19:9,13,
    19,20,22,23;20:2,3,8,
    16,18;22:3,5,12;23:6;
    24:24;25:22;27:2;
    29:5,6,9,13;30:18;
    32:9,15;33:9,24;
    34:8;36:16;37:20,23;
    38:11,14,16,21;
    39:11,19;42:9,16;
    43:5,17,21;44:9,19;
    45:14,19,24;46:2,4,
    21;47:3,8;49:11;
    51:8,11,18;52:7,8,18,
    21;53:7,16,21;54:7,9,
    11,20,23;55:2,15;
    56:8,14,16;57:8,9,21;
    58:18;59:15,16,19;
    60:4,24;63:5,13;64:3,
    22;65:15;66:1,3,14;
    67:12,19;68:2,18,19;
    69:6;70:4,13,21;71:2,
    11,16;72:1,2,6,21;
    73:4,22,23;74:8,9,11,
    15,19;75:12,17,23;
    76:22;77:3;78:12,13,
    15,16;79:18,19,24;
    80:1,3,8,11,14;81:2,
    5,13,16,17,21;82:13,
    21;83:15,19;84:2,9,
    10,13,17,18,21;85:1,
    5,8,14;86:1,24;87:9;
    88:2,6,16;89:4,5,10;
    90:17,21;91:10,11,
    15,19,23,24;92:2,6,7,
    11,12;93:6,7,21,22;
    94:12;95:11,15;96:4,
    7,8,13,14;97:11;98:5,
    14;99:5,17;100:1,18;
    102:4;103:6,9,12,13,
    15,16,19;104:10,12,
    13;106:8,14;108:23,
    24;109:6,15,22;
    110:15,20,21;111:2,
    16;113:12;114:1,17,

substituted (1)
　11:17
subtract (1)
　59:14
suddenly (1)
　121:20
Suffice (1)
　98:13
suggest (1)
　7:15
suggested (1)
　166:7
suggesting (1)
　44:14
Sullivan (1)
　167:13
summarize (1)
　126:9
summary (4)
　28:12;52:13;76:2;
　110:13
supervision (1)
　137:11
supplemental (3)
　5:20;51:20;171:21
supplied (1)
　41:8
supply (8)
　6:24;12:10,17;
　14:8,13;17:14;24:19;
　25:7
support (14)
　76:24;85:12,17,20,
　24;86:9,15,17;87:1,2,
　5,8,13;90:20
supported (1)
　87:19
supporting (3)
　90:11;152:8,19
supportive (1)
　143:10
supposed (4)
　14:21;46:18;93:3;
　138:15
sure (15)
　5:12;10:23,24;
　24:8;26:14;31:19;
　37:3;38:19;49:14;
　54:14;65:2;67:14;
　82:6;133:12;163:23
surplus (1)
　46:13
surprise (1)
　58:6
surprising (1)
　59:1
survey (25)
　76:10;77:4,12;
　120:17;137:4;
　144:24;145:1;146:7,
　8;147:7,17,19,22;
　148:14;149:8,12,15,
　22;150:2;151:12,13;

164:5;165:3,17,18
survey-based (4)
　77:15;80:15,19;
　83:7
surveys (1)
　165:5
sustained (1)
　6:13
switch (2)
　155:23;156:3

T

Table (27)
　10:11;11:10,16;
　14:18,20;17:11;
　23:15;35:23;40:21;
　41:18;42:17;69:16;
　70:2,8,12,14,15,16,
　18;75:6,8;79:20,21;
　123:2;138:13;
　170:16;171:2
Tables (6)
　9:17;11:17,20;
　18:9;97:14;138:12
talk (8)
　39:2;65:9;71:21;
　73:24;91:1;101:4;
　124:12;142:1
talked (12)
　12:23;13:18;26:5;
　31:1;49:1;53:6;
　56:16;59:13;67:2;
　83:24;100:2;102:24
talking (16)
　5:18;22:12;23:11,
　13;99:15;102:7;
　109:17;132:8;144:3;
　153:9,13,14,15;
　154:12;159:12;166:1
talks (1)
　99:11
taller (1)
　106:8
tax (11)
　11:14;25:5;27:8;
　124:24;137:5;139:1;
　161:12,13,14;162:16;
　164:22
taxable (1)
　167:8
taxes (1)
　166:19
TDI (10)
　19:13;26:24;27:6,
　18,20;109:19;110:9;
　112:10;113:19;122:9
TDI-NE's (1)
　111:20
TDI-New (1)
　114:7
tease (1)
　145:15

tech (11)
　8:21;51:8;57:10;
　84:11;88:24;89:7,24;
　90:14;93:1;95:12;
　96:4
technical (1)
　44:8
technique (1)
　31:2
techniques (2)
　29:8,12
teeny (1)
　171:7
telephone (1)
　84:14
telling (1)
　166:15
tells (2)
　61:24;148:24
temporary (2)
　111:22;140:21
ten-year (1)
　24:16
term (2)
　22:1;27:15
terms (10)
　50:14;52:24;60:23;
　154:23;162:16;
　166:15,19,20;169:8;
　175:12
testified (5)
　20:13;98:4;137:24;
　152:7,18
testify (1)
　133:16
testifying (1)
　21:13
testimony (30)
　20:10,20,21;23:19;
　44:19;45:19,23;
　47:23;71:6;72:4;
　73:3;86:8;98:14,15;
　101:20;111:1,5,10,
　20;113:9,14,15,18,
　19;122:2;123:1,14,
　17;138:1;171:22
testing (1)
　62:17
theoretical (2)
　35:20;36:12
therefore (2)
　53:18;75:13
thinking (2)
　40:15;170:6
third (5)
　11:8,9;29:9;61:3;
　81:2
though (9)
　7:13;8:7;22:24;
　37:17,23;75:19;
　96:20;98:4;131:20
thought (9)
　31:17;41:2;59:11;

63:15;87:24;88:1;
　98:4;115:7;174:22
thousand (1)
　13:22
thousands (4)
　160:9,9,22,23
three (12)
　10:15,17;40:13;
　71:22;73:24;102:23;
　116:19,24;119:11;
　120:6;121:15;122:3
throughout (4)
　23:16;96:21;
　161:23;166:13
times (5)
　41:4;93:10;122:3;
　150:18;153:14
timing (1)
　134:16
title (1)
　55:23
TJ (5)
　29:14;91:21;94:19;
　158:8,9
today (5)
　50:9;58:24;87:18;
　109:17;173:6
together (3)
　40:16;45:17;
　117:11
told (12)
　39:17;84:11;88:11,
　24;89:7,24;90:5,14;
　93:1;95:12;96:4;
　138:16
took (4)
　9:13;62:22;88:13;
　129:21
top (7)
　29:9;34:16;36:11;
　42:11;49:1;51:22;
　53:23
topic (5)
　68:24;69:3;108:12;
　116:11;135:20
topics (2)
　20:13;123:16
total (17)
　29:17;46:11,13;
　56:19,20;57:7;59:22;
　66:23;95:11;96:15;
　97:2,4,23;125:9;
　161:19;166:20;169:8
totality (1)
　77:19
tour (2)
　36:8;142:16
tourism (100)
　18:19;23:3,3;27:6;
　71:5,16;72:9,12,21;
　74:5;75:16;76:7,22;
　77:3,10,11,21;78:9;
　80:6;81:11;84:5,20;

85:5;88:19;89:3,10,
　16,19,22;91:8,13,15;
　92:5,10,15;93:4;
　96:15;97:16;98:24;
　99:14;100:4,15;
　108:19;109:14,21;
　110:1;114:24;
　115:12;116:16;
　117:19,24;119:16,21;
　120:2;121:17;
　122:10;127:7,8,14,
　17,22;128:6;130:23;
　131:4;132:18;134:8,
　22;136:12;139:2,16;
　140:11,12,15,16,22,
　24;141:4,10;144:20,
　21;150:9;151:21;
　162:24;163:6;
　164:15,21;165:6,17,
　20,24;166:2,16;
　167:7;169:8,13;
　170:18,23,24;171:1,9
tourism-related (3)
　93:5;164:24;166:8
tourism-sensitive (2)
　133:5;134:14
tourist (20)
　83:1;88:20;95:1,
　14;101:22;103:8,14;
　104:6;105:23;
　146:10;162:15,17;
　163:7,14,18;164:7,9;
　165:15;168:2;175:3
tourist-related (4)
　167:10,14,19;
　174:23
tourists (9)
　96:20;128:10;
　141:7;148:6;150:1;
　161:15;164:13,23;
　165:22
tourist-sensitive (1)
　136:3
towards (2)
　6:7;137:8
town (9)
　29:16,17;110:17;
　116:4;141:24;171:5,
　8,12;175:13
town-by-town (1)
　29:15
town-defined (1)
　139:4
towns (5)
　109:5;112:15,16;
　116:7;140:16
town's (1)
　32:23
track (1)
　168:1
traffic (10)
　109:1,2;111:12,15;
　112:1;113:12;114:6,

12;115:3;147:1
traffic-related (1)
  108:22
trail (4)
  109:2;129:13,16;
  144:8
trailer (1)
  151:1
trails (3)
  129:14;143:17;
  144:10
transcript (6)
  5:17;42:3,5;48:2;
  50:11;176:1
transmission (52)
  19:6,19;54:6;74:7,
  15;76:6;77:2;78:8,
  12;79:9;80:7;81:8;
  85:13;89:4,6;91:9;
  99:1,16,24;100:8,13;
  101:12,21;104:9,10;
  105:24;106:14,24;
  107:6,12,20,23;
  119:22;120:3,9,23;
  127:16;128:3;129:5,
  7;131:7;133:2;
  134:12;135:16,23;
  136:1;139:16;
  145:21;148:9;
  159:16;169:23;
  170:22
transparent (1)
  164:18
Transportation (1)
  172:8
travel (7)
  149:23;151:15;
  163:14,15,17,19;
  166:16
traveler (1)
  165:16
travelers (1)
  165:17
traveling (1)
  165:7
treated (1)
  34:12
trees (1)
  129:4
tried (3)
  148:2;166:13;
  167:2
trip (1)
  129:21
trivial (2)
  162:12;169:15
trouble (1)
  133:13
truck (2)
  49:3;50:5
trucks (1)
  152:22
true (3)

27:3;45:13;141:14
trust (1)
  139:8
try (6)
  32:4;86:13;106:5;
  135:9;157:20;163:13
trying (7)
  95:6;139:19;
  141:18;149:16;
  158:17,21;169:19
Tubb (1)
  78:23
turbines (2)
  120:9;134:19
turn (7)
  6:10;28:2;45:8;
  54:21;71:5;117:16;
  157:5
turned (4)
  53:3;156:4,5,7
turns (1)
  125:24
twenty (1)
  123:24
two (17)
  5:14;21:3;39:18;
  45:11,17;71:18;73:3,
  6,15;75:5;82:20;
  84:12;115:20;119:8;
  148:1;152:3;171:12
two-year (1)
  152:24
type (5)
  31:3;92:14;100:16;
  108:10;172:23
types (4)
  50:13;77:16;
  156:19;163:3
typical (2)
  76:13;152:11
typically (2)
  83:7;148:15

U

ultimately (1)
  50:1
unanimous (1)
  112:17
uncertain (4)
  21:9,17;22:2,3
uncertainty (1)
  82:11
unclear (2)
  44:6;58:17
uncovered (1)
  68:15
under (17)
  15:9;61:15;63:3;
  99:11;106:12,22;
  124:3;127:6;136:22;
  137:11;144:6,11,13;
  149:8,15;152:1;

175:24
underground (24)
  19:15,22;23:1,5;
  108:17;109:3,8,12;
  110:6,8,14,15;
  111:15;130:2;131:1;
  136:5,7;139:10,15,
  15;140:10,19,23;
  141:4
undergrounded (1)
  19:11
underlie (2)
  26:1,19
underlying (2)
  13:17,17
underneath (2)
  75:12;169:23
Understood (3)
  16:13;62:4;72:13
underwater (4)
  19:14,21;23:1,5
union (1)
  155:4
unique (2)
  52:1;165:19
United (1)
  101:13
units (1)
  60:23
university (3)
  137:2;161:13;
  167:13
University's (1)
  91:14
unless (4)
  9:5;54:21;83:2;
  143:19
unlikely (1)
  27:13
unpack (1)
  23:6
unrealistic (2)
  41:10,12
unrealistically (1)
  45:22
unsatisfactory (1)
  76:7
up (66)
  5:5,23;10:21;
  14:16;18:4,10;20:19;
  23:15;25:11;26:6;
  28:4;41:24;47:24;
  51:21;55:17;60:10;
  61:9;64:11,17;66:20;
  67:2;75:3;77:24;
  81:23;84:23;89:15;
  93:7,18;94:4;95:16;
  97:2;101:5,8;102:13,
  18;104:23;110:7,13;
  113:8;117:4,17;
  118:4,20;123:4;
  130:23;132:20;
  133:6,8;148:7;150:8;

152:18;154:16;
  158:12,15;160:8;
  162:11;163:13;
  165:12;166:21,23;
  168:18;169:7,13;
  171:13;172:4;174:13
upon (1)
  174:11
upper (3)
  128:18,20,24
urban (1)
  170:9
use (15)
  8:7;41:7;60:2;
  63:8;121:9;131:17;
  132:16;135:2,15;
  136:19;148:15,17;
  150:4;154:1;166:22
used (59)
  8:9,16;18:14;22:1;
  31:12,18;32:1,3;
  41:5;43:3,21,23;
  45:21;46:7;49:24;
  50:1,17;51:17;55:13;
  56:14,18;59:3;61:18;
  62:1,2,12,16;63:1,4,
  6,14,19,22;64:1,9,22;
  67:23;68:4;70:7;
  73:18;91:19,20;92:4,
  13,18,19,22;93:19;
  94:18;97:10;119:14;
  130:4;136:13,24;
  138:4;140:17;145:1;
  153:21;156:17
uses (2)
  52:12;79:14
using (17)
  29:3,8;30:10;
  31:22;32:4;41:1;
  42:22;45:12;91:14;
  92:20;108:3;128:14;
  147:20;152:9;153:7;
  155:8;158:7
utilities (1)
  130:1
utility (1)
  143:19
utilize (1)
  54:2

V

valid (2)
  117:21;120:4
validate (3)
  164:8;165:2,4
validated (2)
  164:1,4
valley (2)
  159:15,17
valuable (1)
  146:15
valuation (3)

150:19,21,23
value (27)
  28:14;29:5,17;
  31:16;34:5;35:3,24;
  37:1;53:9;59:22;
  69:18;92:2;100:1,14;
  131:18;136:8;146:3;
  149:18;154:5;155:1,
  1,1;156:15;158:24;
  159:2,6;160:22
value-added (2)
  57:18;58:8
values (7)
  28:2;32:13;62:10,
  16;68:9;128:8;158:3
variables (2)
  55:13;62:8
variation (1)
  167:16
variations (3)
  167:1,6,24
varied (1)
  75:13
varies (3)
  75:9;164:9,12
various (7)
  18:16;25:16,18;
  79:9,23;88:19;163:3
vegetative (1)
  130:14
vehicles (1)
  144:19
Vermont (11)
  19:13,16;20:8;
  22:20,22;23:12;24:2;
  27:22;110:1;116:13;
  117:13
versions (1)
  11:18
versus (4)
  95:9;154:19;
  163:14;168:12
vet (1)
  138:10
view (29)
  32:5;37:8,13;38:2;
  95:15,17;99:13,19;
  106:14;109:11;
  129:22;140:14,19;
  149:18;158:1,4,11;
  159:2,15,15,19;
  161:17,18,24;168:10,
  14,20,21,21
view-limited (1)
  140:12
views (2)
  28:21;88:21
viewshed (18)
  29:14;32:16,17,21,
  24;91:20;92:4,16;
  93:20;94:24;95:15,
  17;98:10;158:23;
  159:17;161:11;

168:24;171:7
virtually (6)
  22:20;24:11;80:9;
  115:16;129:24;130:6
visibility (36)
  29:16,19;30:13,15,
  20;31:15;32:19;33:4;
  34:1,6;35:10,20;
  36:13,21,23;91:9,22;
  93:4,11,13;94:10,11,
  22;95:8,9,11,21,22;
  96:6,17,19,23;97:18;
  98:8;171:2,3
visible (6)
  29:24;33:17,21;
  130:20;145:23;
  146:24
visit (3)
  37:12;142:4;
  146:12
visitation (9)
  74:5;78:10;79:24;
  81:12;84:5;96:15;
  100:15;147:11,13
visited (2)
  36:7;112:15
visitor (4)
  85:14;86:15;146:8,
  10
visitors (2)
  82:11;144:24
visits (2)
  141:15;142:4
Vista (1)
  104:3
vistas (1)
  128:11
visual (2)
  31:7;98:20
voltage (1)
  101:13
volunteer (1)
  146:17
vulnerable (2)
  15:2;22:21

W

wages (3)
  154:13;155:11,20
wait (3)
  5:15;135:8,11
walking (1)
  93:14
wants (1)
  137:17
warranted (1)
  153:8
Washington (1)
  104:1
Water (5)
  71:24;81:4,9;
  102:21;142:10

way (39)
  6:19;18:4;27:10;
  31:10;33:2,22;35:5;
  40:12;43:4;51:6;
  60:6;70:3;73:16;
  82:24;93:12;96:9,24;
  132:10;136:6;147:3;
  148:20,24;149:3;
  151:6;154:20,21,22;
  155:15,21;162:4,13;
  163:10;164:7;165:2,
  3;167:10;168:24;
  171:5,11
ways (2)
  115:22;131:1
web-based (1)
  145:1
weekend (1)
  148:4
weight (1)
  150:18
weren't (3)
  77:12;95:5;158:20
West (2)
  128:17,22
what's (11)
  12:16;32:4;42:1;
  60:20;105:5,9;
  121:24;130:18;
  142:3;153:17;164:3
whatsoever (1)
  142:13
whereas (2)
  7:6;54:16
wherever (1)
  65:14
White (3)
  36:7,23;132:4
Whitley (1)
  19:3
whole (17)
  26:5;60:15;64:16;
  72:15;96:2;98:6;
  133:17;138:14;
  141:17,22;147:6;
  154:17;157:14;
  161:20;168:19,19;
  175:12
Who's (5)
  105:2;122:18;
  132:12;138:6;164:6
widespread (2)
  32:6,7
willing (3)
  73:16;77:12;
  157:20
wind (12)
  116:13,21,21;
  117:13,20;118:7,24;
  119:2,12;120:9,23;
  122:13
Wine (1)
  107:3

Wironen (2)
  113:10,11
within (14)
  33:6;35:4;40:4;
  53:2;56:4;94:24;
  95:14;96:14;147:14;
  158:23;161:11;
  168:24;170:5;171:6
without (8)
  16:16;117:22;
  119:17;121:1,15,19,
  20;155:6
Witness (15)
  28:11,15;29:10;
  56:17;65:1;71:12;
  82:17;85:2;105:1,18;
  108:8;110:11;
  113:12;114:2;135:13
witnesses (1)
  113:20
wonder (1)
  164:1
Wonders (1)
  134:5
woods (2)
  144:11;150:13
word (5)
  50:24;108:3,4;
  119:14;129:13
wording (1)
  132:22
words (2)
  61:17;121:9
work (15)
  30:20;45:17;56:9;
  83:7;86:11;109:18;
  111:16;114:3,10;
  116:4;127:23;
  146:18;152:22;
  165:17,18
workbook (15)
  49:16;50:1;55:18,
  23;56:3;58:11;61:11,
  15;62:6,16,18,22,24;
  63:3;66:18
workbooks (2)
  62:14;65:3
worked (6)
  19:5;30:7;31:7;
  89:11;115:15;116:20
worker (2)
  154:4,9
workers (5)
  41:13;152:21;
  154:7;155:13,14
working (6)
  99:14;115:17;
  117:1,8;137:8,10
works (1)
  169:4
worksheets (1)
  56:4
World (3)

134:5;164:2,4
worst (1)
  172:3
worth (4)
  44:23;136:6;
  150:12;163:7
writing (4)
  87:8,10;88:5;105:2
written (2)
  125:6;174:3
wrong (8)
  45:5;46:9,24;47:3,
  4;67:11;136:16;
  143:2
Wyman (1)
  106:20

Y

Yankee (1)
  22:22
yard (1)
  144:17
year (17)
  18:2;44:22;52:16;
  124:6,7,18,21;125:2,
  22;126:11,16;
  138:14;149:13,16;
  161:7;169:20;173:18
years (9)
  21:17,22,24;22:5;
  99:13;126:3;136:23;
  169:18;172:16
yellow (7)
  28:6;56:12;76:15;
  94:4;105:15;118:11;
  119:4
Yup (1)
  53:22

Z

Zealand (1)
  69:24
zero (5)
  53:12;162:3;171:2,
  14,20
zeroed (1)
  53:7

0

014276 (1)
  10:16
05 (1)
  172:16
08 (1)
  172:17

1

1 (15)
  29:18;30:2,3,6,8,

19;43:10;44:24;
  51:20,22;69:19;70:3,
  20;71:3;161:22
1,000 (1)
  126:9
1,050 (1)
  123:23
1.5 (1)
  96:18
1:30 (1)
  175:21
10 (11)
  21:17,21,24;32:14;
  35:15,16;79:14,15;
  84:7;92:11;93:9
10.3 (1)
  147:11
10:11 (1)
  69:8
10:28 (1)
  69:9
100 (1)
  150:18
100-day (2)
  172:2;174:9
102 (1)
  57:24
1090-megawatt (1)
  19:18
10-mile (2)
  95:14;171:6
10-minute (1)
  69:6
10-page (1)
  87:23
10-year (1)
  21:5
11 (6)
  14:18,20;23:15;
  79:14,20;167:14
115 (2)
  101:15,17
116 (1)
  141:9
12 (4)
  20:19,23;42:16;
  48:18
12:18 (1)
  175:22
120 (6)
  60:3;158:23;160:6,
  12,16,24
13 (4)
  42:5;43:3;71:7,9
130-day (2)
  172:3;174:9
131 (1)
  11:23
134 (1)
  57:1
1365 (1)
  123:22
14 (6)

12:12;43:19;53:11,
23;70:12,14
14- (1)
    70:17
14.6 (2)
    74:8;75:21
144 (1)
    9:6
146 (3)
    39:4;51:15;71:6
148 (9)
    5:21;28:4;74:1;
    78:3;81:3;83:23;
    91:3;99:11;108:13
148A (1)
    10:22
15 (12)
    43:11,19;56:4;
    70:17;78:11;79:16;
    84:7;86:4,22;92:11;
    96:13;97:11
150 (2)
    125:21;126:16
16 (7)
    44:17;48:2,10;
    69:16;70:2,15,18
16-22 (1)
    75:4
17 (8)
    35:23;43:7;49:8;
    70:8,16;111:5;
    117:16;167:18
175 (1)
    172:14
18 (11)
    39:15,20;45:15;
    48:18;51:14;67:1,9,
    10;68:2;123:19;
    170:16
19 (1)
    125:2
192 (1)
    18:3

2

2 (19)
    8:14,20,22;9:15,
    20;10:2;13:1,18,23;
    14:3;15:9;16:14;
    17:21;23:20;51:20,
    22;79:20;136:10;
    171:22
2,267 (1)
    60:23
2.267 (1)
    60:21
20 (6)
    34:13;39:10;68:1;
    99:13;123:19;126:3
2002 (1)
    149:14
2002-2003 (1)

149:22
2003 (1)
    149:14
2005 (1)
    172:8
2006 (1)
    119:9
2008 (2)
    118:6;119:9
2009 (2)
    71:23;74:3
2010 (1)
    119:1
2012 (1)
    138:15
2014 (1)
    138:15
2016 (2)
    21:4;84:16
2018 (1)
    21:4
2019 (1)
    21:6
2020 (1)
    11:22
2022 (2)
    12:20,22
2028 (2)
    21:6,8
2030 (3)
    11:23;12:2,20
2060 (5)
    10:13;15:6;18:12,
    15,22
22 (1)
    42:7
23 (1)
    44:17
230 (2)
    101:16,17
24 (5)
    9:17;10:11;17:11;
    18:9;42:7
25 (2)
    9:18;18:9
252 (2)
    12:15;18:2
26 (1)
    84:16
28 (3)
    99:10;107:23;
    127:6
29 (1)
    136:11

3

3 (20)
    34:16;36:2,13;
    38:1;39:5;40:21;
    41:18;42:17;45:1;
    67:5;79:3;84:6;86:4,
    21;92:11;96:12;

97:11;123:17;
    125:10;142:15
3.2 (2)
    74:8;75:20
30 (1)
    118:11
300 (3)
    14:17;15:4;35:4
301 (3)
    20:20,23;110:22
302 (1)
    141:9
303 (1)
    55:17
306 (1)
    76:1
307 (1)
    78:17
308 (1)
    81:23
309 (1)
    84:23
310 (1)
    93:18
311 (1)
    101:6
312 (1)
    102:18
313 (1)
    110:8
314 (1)
    113:8
315 (1)
    117:4
316 (1)
    118:4
317 (1)
    118:20
32 (1)
    149:12
34 (7)
    63:22;64:1,10,23,
    24;65:19,22
345 (3)
    101:14;106:19;
    131:7
35.7 (1)
    59:14
39 (1)
    149:7

4

4 (2)
    42:21;124:12
4.7 (1)
    147:8
40 (2)
    22:5;151:24
400 (2)
    74:14;75:16
41 (1)
    55:12

42 (3)
    5:23;6:4,17
43.5 (1)
    110:19
44 (2)
    161:21;167:9
45 (4)
    5:3;9:6;175:23;
    176:1
456 (1)
    145:2
48 (1)
    91:3

5

5 (15)
    35:15,16,18;36:3;
    39:5;61:4;67:5;
    78:10;79:10,15;
    81:12;86:4;92:11;
    97:5;144:23
5,290,827 (1)
    61:5
50 (1)
    169:3
500 (7)
    9:22;10:6;13:20,
    23,24;79:11;103:11
52 (1)
    109:11
52,000 (1)
    61:3
54 (2)
    57:24;60:4
55 (1)
    58:1
56 (2)
    12:12;167:11
56.8 (1)
    110:15
57 (4)
    28:4;29:7;74:10;
    158:1
573 (2)
    81:24;82:7
58 (4)
    19:22;48:3;69:16;
    78:14
59 (4)
    48:3;49:1;81:15;
    159:11

6

6 (1)
    152:1
62 (1)
    161:5
64 (5)
    71:20;74:2;78:3;
    81:3,7
65 (5)

72:19;83:23;84:4;
    90:1;91:3
650,000 (1)
    148:5
66 (3)
    91:12;92:8;171:10
67 (2)
    123:22;170:16

7

7 (1)
    49:8
70 (2)
    108:13,15
70-day (2)
    172:2;174:9
73,000 (1)
    61:1
75 (4)
    11:6,8;14:5;25:9
76 (2)
    11:5;18:8
78 (3)
    42:6,7;167:15
79 (2)
    42:11,16

8

8 (9)
    34:23;43:2;45:14;
    71:6,9;76:3;97:17;
    119:4;149:15
8/10 (1)
    161:22
80 (1)
    42:21
80,000 (1)
    71:1
81 (2)
    43:10;44:11
83 (1)
    44:24
89A (1)
    128:22

9

9 (7)
    97:10,14,19;98:3;
    113:15;114:3;146:23
90 (1)
    124:11
96,000 (1)
    70:17
98 (1)
    19:21
99 (1)
    170:4