

STATE OF NEW HAMPSHIRE
SITE EVALUATION COMMITTEE

July 21, 2017 - 9:00 a.m.
49 Donovan Street
Concord, New Hampshire

DAY 23
Morning Session ONLY

{Electronically filed with SEC 07-31-17}

IN RE: SEC DOCKET NO. 2015-06
NORTHERN PASS TRANSMISSION -
EVERSOURCE; Joint Application of
Northern Pass Transmission LLC and
Public Service of New Hampshire d/b/a
Eversource Energy for a
Certificate of Site and Facility
(Hearing on the Merits)

PRESENT FOR SUBCOMMITTEE/SITE EVALUATION COMMITTEE:

Chmn. Martin Honigberg <i>(Presiding Officer)</i>	Public Utilities Comm.
Cmsr. Kathryn M. Bailey	Public Utilities Comm.
Dir. Craig Wright, Designee	Dept. of Environ.Serv.
Christoper Way, Designee	Dept. of Business & Economic Affairs
William Oldenburg, Designee	Dept. of Transportation
Patricia Weathersby	Public Member
Rachel Dandeneau	Alternate Public Member

ALSO PRESENT FOR THE SEC:

Michael J. Iacopino, Esq. Counsel for SEC
(Brennan, Caron, Lenehan & Iacopino)

Pamela G. Monroe, SEC Administrator

(No Appearances Taken)

COURT REPORTER: Cynthia Foster, LCR No. 14

E X H I B I T S

EXHIBIT ID	D E S C R I P T I O N	PAGE NO.
CFP 345	Gittell Magnusson Groton Wind Report, 3/5/2010	70
CFP 347	Merrimack Valley Reliability Economic Impact Study, June 2015, by Alfred P. Morrissey	79
CFP 350	Report by Institute on Taxation and Economic Policy, 3 Percent and Dropping	56
CFP 354	Portland Natural Gas Economic Impact Report, October 1996 Update by England and Shaprio	94
JM 231	New Hampshire Secretary of State, 2016 Lobbyists as of 12/5/16	109
JM 232	New Hampshire Secretary of State, 2017 Lobbyists as of 5/24/17	110
JM 233	Supreme Court, Appeal of PSNH, (NH BTLA) February 16, 1984	150
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JM 240	Supreme Court Decision, PSNH v. Town of Bow	129
SAN 1	Prefiled Testimony of George E. Sansoucy dated November 15, 2016	138

P R O C E E D I N G S**(Hearing resumed at 9:00 a.m.)**

1
2
3 PRESIDING OFFICER HONIGBERG: Good morning,
4 everyone. We're starting with Mr. Varney's
5 return to give the Subcommittee an opportunity
6 to ask him some questions. We'll start with
7 Mr. Wright.

8 DIR. WRIGHT: Thank you, Mr. Chairman.

QUESTIONS BY SUBCOMMITTEE MEMBER DIR. WRIGHT:

9
10 Q Mr. Varney, welcome back.

11 A Thank you. Nice to be here.

12 Q I just want to follow up with you on a couple of
13 the items you raised in your Prefiled Testimony,
14 and then just some general broad questions
15 regarding energy, environmental policies and how
16 they impact air emissions from power generation
17 in New Hampshire.

18 In your Prefiled Testimony, you noted that
19 construction of the Northern Pass line could
20 result in air emissions resulting from the
21 operation of construction equipment. Is that
22 correct?

23 A Yes.

24 Q Did you do any independent analysis on those

1 emissions?

2 A No. I relied on the analysis that was contained
3 in the Draft EIS which included the Supplemental
4 EIS information, the Air Quality Report that
5 they prepared, and especially the very detailed
6 data for construction emissions which was
7 contained in Appendix B of that report.

8 Q What was the conclusion of that study?

9 A That there would be emissions associated with
10 construction, as we know, with any type of
11 construction project. And as it relates to the
12 central New Hampshire nonattainment area where
13 conformity was in issue, it was the only
14 nonattainment area in the state, the data
15 indicated that it was well below the de minimis
16 level.

17 And so in reviewing that information, and
18 also reviewing the New Hampshire DES Air
19 Resources Division comments on the Draft EIS, I
20 found that it was in the range of 1 to 2 percent
21 of the de minimis level for that nonattainment
22 area. And moreover, it only, the Project only
23 includes four communities that are in that area.

24 And then, finally, as a result of the

1 improvements at Merrimack Station there's been
2 about a 90 percent decrease in sulfur emissions
3 there and I think it was referred to by DES as
4 almost a single source nonattainment area, and
5 that the data presented by DES for that
6 nonattainment area indicates that it's now
7 meeting attainment and has for at least three
8 years in a row.

9 Q Thank you. And I can confirm that the data does
10 conform that the area does meet the standard for
11 the new sulfur standards.

12 You mentioned fugitive dust as well in your
13 Prefiled Testimony as another potential source
14 of air emissions from the construction
15 equipment.

16 A Yes.

17 Q And you mentioned Best Management Practices,
18 BMPs. Could you just very briefly, you don't
19 have to go into a lot of detail, but just
20 describe those BMPs?

21 A Yes. BMPs for fugitive dust would include
22 wetting which many people see on highway
23 projects, for example, to keep dust down when
24 there are dry conditions. Covering of piles,

1 wind breaks, stone aprons where you have truck
2 traffic that's from a paved roadway coming off
3 of a gravel area that's unpaved to prevent that
4 dust from being onto the roadway.

5 So there are a number of different BMPs
6 that are outlined. DES has a very good Fact
7 Sheet on BMPs associated with fugitive dust
8 emissions which is a DES requirement in the
9 Administrative Rules.

10 Q I was going to ask you if you felt like the BMPs
11 you're describing are consistent with the
12 State's Administrative Rules contained in Env-A
13 1002.

14 A Yes. They are.

15 Q And I assume if the Project gets a Certificate
16 from this Committee that there would be no
17 objection to that being referenced in this
18 Certificate?

19 A That's correct.

20 Q Okay. Who's responsible for monitoring the
21 BMPs?

22 A It would be the contractors and the
23 Environmental Monitors who would be ensuring
24 compliance with all of the existing rules and

1 regulations of the state as well as any
2 conditions placed upon the Project by the
3 certificate.

4 Q We talked a great deal about the Environmental
5 Monitor. We won't go into that yet. With
6 respect to operation, not construction, are
7 there any air emissions associated with the
8 operation of the Northern Pass line that would
9 require a site-specific Air Permit?

10 A No.

11 Q Does that include the converter station in
12 Franklin?

13 A My understanding is no, there would not be a
14 need for a permit there.

15 Q There's no fuel burning equipment, emergency
16 generators or anything like that?

17 A Not that I'm aware of, but should there ever be
18 one, they would be required to be in compliance
19 with DES rules and regulations.

20 Q You noted in your Prefiled Testimony that you
21 accepted Julia Frayer's conclusions and
22 calculations regarding potential emission
23 reductions that would result from this Project,
24 is that correct?

1 A Yes, I did.

2 Q I know you didn't perform those calculations,
3 but could you just kind of describe for me what
4 fundamentally, what were the check points in
5 your mind that you went through in terms of
6 accepting those calculations?

7 A Well, first of all, she was very thorough in her
8 evaluation of all of the factors that needed to
9 be taken into account in the modeling effort.
10 Existing federal and state regulations, RGGI,
11 for example, all of those factors, retirements,
12 and as you know, it's a very detailed model that
13 she prepared and then updated.

14 In addition to reviewing her work and the
15 thoroughness of her work, and her qualifications
16 for doing that work, I also reviewed the
17 statistics that were generated in the Draft EIS
18 where similar levels of reduction were estimated
19 there by other consultants, other independent
20 consultants who were not employed by Eversource.

21 And the Supplement to the Draft EIS
22 calculated, I believe, a 9 percent decrease in
23 CO2 emissions which was about 2.9 million metric
24 ton reduction compared to the 3.2 million metric

1 ton reduction that was included in Julia
2 Frayer's updated record.

3 Q I'm glad that you brought that 3.2 million ton
4 up. I'm still on the English system so I
5 convert that in my mind to 3.5 million tons. I
6 think you just mentioned 9 percent so I think
7 you've already kind of answered this, but can
8 you put 3.5 million tons in some sort of scheme
9 so a general person can understand how much is
10 that in terms of either New Hampshire emissions
11 or New England emissions?

12 A For New Hampshire, it's equivalent to the CO2
13 reductions that are currently in New Hampshire
14 from the electric generation sector, and, of
15 course, the reductions run a New England-wide
16 basis so you can't attribute it to just New
17 Hampshire in that sense. But it is as much or
18 more than all of the CO2 emissions from the
19 electric generation sector in New Hampshire.

20 And from a New England perspective, I
21 believe looking at the 2050 goals of an 80
22 percent reduction for New England, I believe it
23 would get us to, result in about a 22 or 23
24 percent reduction towards achieving the goals

1 for 2050 which is a very significant benefit in
2 terms of achieving the goals for climate change
3 in New England and within New Hampshire.

4 Q I would agree with you. I think it's a good
5 start, but I think you would agree we have a
6 long way to go in terms of meeting those
7 long-term goals?

8 A Yes. Point well taken. Many people forget that
9 the baseline for greenhouse gas reductions is
10 1990, and that from the period 1990 to about
11 2004, greenhouse gas emissions actually
12 increased in New Hampshire and in New England,
13 and we've been making good progress in reducing
14 it since that time. But in many locations we
15 are, we're almost at the point that we were at
16 in 1990. In other words, we went above the 1990
17 baseline and now we made progress in reducing,
18 but now we're essentially back where we were in
19 1990 and we still need to get an 80 percent
20 reduction based on 1990 levels.

21 So it's a huge challenge, and I think many
22 people appreciate the progress that we've made
23 since the peak in the mid 2000s, but we have a
24 long, long way to go to achieve that 80 percent

1 reduction by 2050.

2 Q I believe another person asked you this already,
3 but I'll ask you again, do you believe in
4 climate change?

5 A Yes.

6 Q Do you believe that manmade emissions contribute
7 to it?

8 A Yes.

9 Q Ms. Frayer, do you know if Ms. Frayer in her
10 calculations of the carbon reductions factored
11 into her calculations potential emissions at the
12 generation source of the Northern Pass power?

13 A She calculated the reductions in New England
14 that were associated with displaced fossil fuel
15 emissions which is the 3.2 million metric ton
16 reduction number. And in calculating the social
17 cost of carbon on the economic benefits
18 associated with carbon reduction, she did a
19 different calculation and did incorporate that
20 into her analysis. I believe the reference
21 would be on, it would be Page 26, Figure 16.

22 Q You recognize that the New Hampshire forests
23 serve as a valuable carbon sync for carbon
24 emissions?

1 A Yes.

2 Q You also recognize that if this Project goes
3 through there will be a new right-of-way up in
4 the North Country with some clearcutting of the
5 right-of-way. I believe when you were here last
6 time you made some sort of estimate as to a
7 potential reduction in the carbon sync in the
8 New Hampshire forest. Do you recall that?

9 A Yes, I do.

10 Q Can you just very briefly repeat what you said
11 then because I want to make sure I understood
12 it.

13 A Sure. That was, again, evaluated as part of the
14 Air Quality Report in the Draft EIS, and there's
15 very detailed data associated with the
16 calculations for the carbon sync. The
17 vegetative cover reductions. Keep in mind that
18 the Project where it's not located within a
19 roadway will continue to be a vegetated
20 right-of-way in the state, but there will be
21 some reduction in the carbon sync. And in
22 looking at that, the Draft EIS calculated, I
23 believe, that it was .002 percent reduction in
24 the carbon sync in New Hampshire, and when added

1 into the calculations, it would not change the
2 numbers in terms of the million metric ton
3 benefit for CO2 reductions.

4 Q I'm glad you said that because that was what I
5 was really curious in as to whether that was
6 taken into account in that calculation as well.

7 A Yes.

8 Q Would you agree that New England has seen a
9 significant decrease in air emissions from the
10 New England Power Generation Pool in the last 10
11 to 15 years?

12 A Yes.

13 Q In your mind, what are the factors that have
14 really driven those reductions?

15 A There's been a reduction in the number of coal
16 and oil-fired generation facilities. There's
17 been an increase in natural gas plants. There's
18 been a slight increase in renewables, I believe,
19 from 2000 to 2014. We went from 7 percent to 9
20 percent, and I would expect that will continue
21 to grow slightly. We've continued to see an
22 increase in transportation as a sector,
23 transportation emissions. We continue to see an
24 increase in residential emissions, and we've

1 made good progress towards reducing electric
2 generation emissions.

3 Q Do you feel programs like RGGI, Regional
4 Greenhouse Gas Initiative, do you feel programs
5 like RGGI have been part of that driving force
6 as well?

7 A Yes.

8 Q You mentioned RGGI, and, obviously, RGGI applies
9 to fossil fuel-fired generation facilities in
10 New England and couple other states outside of
11 New England. This obviously is not a fossil
12 fuel-fired Project. It's a hydro project so it
13 wouldn't be a regulated entity under RGGI. So
14 in your mind, how does it fit into the RGGI
15 program?

16 A It's providing relatively clean baseload
17 generation to the New England grid which will
18 displace fossil fuel emissions within New
19 England.

20 Q Do you feel that energy efficiency should be a
21 primary goal of all states?

22 A Yes. I believe that, I'm not aware of any state
23 in the nation or any province in Canada that
24 doesn't have energy efficiency as a goal.

1 Q So you would agree with the cheapest and
2 cleanest megawatt is the megawatt you don't need
3 to use?

4 A To a limit, yes, and I believe it's part of the
5 strategy of every single state. I believe the
6 progress that's been made has been generally
7 slower than many people would have liked, and
8 there obviously are limitations associated with
9 the regulation of electric rates, and some of
10 the policy issues associated with that that come
11 into play.

12 Q Do you have an opinion on the long-term picture
13 of Distributed Generation and how that will
14 impact the New England power grid? I know
15 you're not a power expert, but it all ties back
16 to air emissions in my mind.

17 A Yes. I think there's a lot of hope associated
18 with it. The question is how quickly will it
19 occur, and oftentimes in implementing those
20 issues, it may be something that people hope
21 will be significant, but it may take time, and
22 my professional experience is that those issues
23 usually take much more time than people think.

24 A good example of that could even be the

1 Cape Wind Project that many, many years ago was
2 considered to be imminent and to this day hasn't
3 been built. So there are a number of regulatory
4 programs, a lot of initiatives, legislative
5 initiatives which are proposed and are not
6 passed by the Legislature. And so it's very
7 hard for me to look at the crystal ball and say
8 with any certainty what may happen. It's
9 certainly on the agenda of many meetings with
10 Air Directors and PUC Commissioners at
11 conferences, but we'll see.

12 Q Do you consider large scale hydro to be a
13 renewable energy source?

14 A I do from the standpoint of setting aside the
15 politics and the regulatory arena. I do.

16 Q Are you familiar with New Hampshire's RPS
17 program, Renewable Portfolio Program?

18 A Yes.

19 Q Does large scale hydro qualify as renewable
20 energy under New Hampshire's program?

21 A No, it doesn't.

22 Q I guess I just have one question. Do you have
23 an opinion if this Project is approved, could it
24 possibly displace other zero-emitting power

1 Q generation in New England?

2 A I have no basis for saying that that would
3 occur.

4 Q Okay. Thank you.

5 A It would be pure speculation.

6 Q Okay. Thank you.

7 PRESIDING OFFICER HONIGBERG: Do others
8 have questions? No. It looks like no one else
9 does. Thank you.

10 Mr. Needleman, do you have any further
11 questions?

12 MR. NEEDLEMAN: I don't. Thank you.

13 PRESIDING OFFICER HONIGBERG: Thank you,
14 Mr. Varney. Are we ready to hear from Ms.
15 Shapiro?

16 MR. NEEDLEMAN: We are. I'd ask her to
17 come up, please.

18 **LISA SHAPIRO, DULY SWORN**

19 PRESIDING OFFICER HONIGBERG: Mr.
20 Needleman, the witness has been sworn in. You
21 may proceed.

22 MR. NEEDLEMAN: Thank you.

23 **DIRECT EXAMINATION**

24 **BY MR. NEEDLEMAN:**

1 Q Ms. Shapiro, can you state your full name for
2 the record?

3 A Lisa Shapiro.

4 Q Where do you work and what do you do?

5 A I work at Gallagher, Callahan & Gartrell, and
6 I'm chief economist with the firm.

7 Q Briefly describe the purpose of your testimony
8 here.

9 A The purpose of my testimony was to estimate the
10 property tax payments by Northern Pass
11 Transmission.

12 Q And I've provided you with two exhibits.
13 Applicant's Exhibit 29 which is your Prefiled
14 Testimony, and Applicant's Exhibit 103 which is
15 your Supplemental Prefiled Testimony. Do you
16 have those?

17 A I do.

18 Q Do you have any changes or corrections to either
19 one of those?

20 A No, I don't.

21 Q With that in mind, do you adopt both of those
22 and swear to them today?

23 A I do.

24 Q Thank you. Nothing further, Mr. Chairman.

1 A Yes.

2 Q Okay. And that the cost allocation that you
3 utilized, the town by town basis, was also
4 provided to you by Eversource or Burns &
5 McDonnell, correct?

6 A Correct.

7 Q And that you didn't do anything independently to
8 determine whether any of those cost estimates or
9 the allocations thereof were reasonable, did
10 you?

11 A Well, the cost estimates are an engineering
12 opinion. I did not independently view that. I
13 did spend time looking at the cost allocations
14 in terms of whether they added up, they made
15 just kind of common sense, about how the
16 allocations were. And also I had to make some
17 decisions about allocating costs that were
18 generalized costs which are a substantial part
19 of the Project and aren't specifically located
20 in one community. So I made those estimates and
21 model of how to allocate those costs.

22 Q Okay. But in terms of understanding whether the
23 cost for, for example, the converter terminal,
24 you didn't go and research converter terminals

1 around the world and determine whether the price
2 that was given to you for the converter terminal
3 in New Hampshire was appropriate or reasonable
4 compared to some other data that you might have
5 had access to, did you?

6 A No. I did not.

7 Q Okay. And in terms of whether a mile of towers
8 and conductors in one particular town was
9 reasonable, you don't have any engineering basis
10 or data to confirm whether that's correct. You
11 simply accepted the information that was
12 provided to you by Burns & McDonnell?

13 A Again, I accepted the information in terms of
14 the costs of the major components of the
15 Project, and I checked and looked at how they
16 were divided among the communities along with
17 the generalized costs but -- if that's what
18 you're asking.

19 Q And none of these statements that were provided
20 to you by the Applicant's people, and we'll go
21 shorthand there, are based on actual costs,
22 correct? These are estimates.

23 A I don't think that's correct. I do think they
24 did some testing, and they've been out in the

1 market in terms of getting bids. I believe Mr.
2 Johnson testified about the cost.

3 Q Okay. But to use a legal term, that's hearsay
4 really, isn't it? You don't independently know.
5 Did you review documents that the Applicants
6 have --

7 A No.

8 Q -- that showed that that's what they did?

9 A No.

10 Q Okay. And in fact, the actual cost of the
11 Project isn't going to be known until
12 essentially after it's built, correct?

13 A I don't know if that's true because there may be
14 fixed price contracts that are locked in.

15 Q But that's a supposition on your part or
16 speculation, correct?

17 A No. That's a possibility. I don't know if
18 there's been testimony by Mr. Johnson --

19 Q Okay.

20 A -- about whether the costs were fixed and known.

21 Q All right. And isn't it true that some of the
22 estimates that were given to you by Burns &
23 McDonnell in 2015 before you prepared your
24 testimony, that those are not the current

1 estimates? Those are out of date at this point?

2 A No. I don't believe that's true.

3 Q Okay. And you didn't do anything to rerun your
4 numbers when you did your Supplemental Testimony
5 and your arithmetic or anything to update and
6 you instead focused on other things in your
7 Supplemental, correct?

8 A In my Rebuttal Testimony?

9 Q In your Supplemental Testimony that was filed in
10 April, I suppose?

11 A Which was my Rebuttal Testimony. No. There was
12 no updated cost numbers to rerun the model.

13 Q In these proceedings we generally refer to that
14 as Supplemental. Sorry.

15 A Okay. Thank you.

16 Q In your analysis in your report, you attempted a
17 couple of different kinds of scenarios to obtain
18 some level of precision about tax rate
19 suppression effects and tax rate escalation,
20 but, ultimately, you rejected that because of a
21 variety of risk of overestimations,
22 underestimates and uncertainties; isn't that
23 correct?

24 A No. That's not correct.

1 Q Isn't it true that on page 15 of your report you
2 said it's very difficult to estimate because of
3 many different factors and the interaction of
4 them will determine what the tax payment will
5 be?

6 A Correct.

7 Q And then, ultimately, what you did was you
8 simply, you did a simple arithmetic exercise.
9 You took the estimated costs that were provided
10 to you, and you did a net book value of them,
11 didn't you?

12 A That's not correct. I did 11 scenarios with
13 the, for the first year it was original cost.
14 So what was the projected cost of the Project.
15 And I ran four or five different scenarios using
16 that cost calculation and a number of different
17 scenarios of what the tax rate might be, and
18 then I cut back the Base Case estimate of what
19 the cost allocations were in each community, and
20 calculated at only 75 percent of the cost
21 because of the difficulties of allocating among
22 each community until the final costs are known.
23 So for each community, I ran 11 scenarios,
24 half of them roughly were at the full allocated

1 cost with four or five different assumptions on
2 the tax rate, and then I took 75 percent of the
3 estimated costs in that community, and again,
4 ran four or five scenarios with different tax
5 rates. So I ran a range of simulations --

6 Q I don't dispute that you did a lot of work and
7 analysis, but, ultimately, your conclusion is
8 based upon a very simple arithmetic process of
9 net book value with some escalation, two
10 different scenarios for tax rate escalations;
11 isn't that correct?

12 A No. There's 11 different scenarios, and in the
13 first year it's original cost, and I looked at
14 both full cost and 75 percent of the costs, and
15 then a number of different tax rates scenarios.

16 Q As I said, I understand what you looked at, but
17 ultimately your opinion was based on a more
18 simple calculation of the net book value with
19 two scenarios for escalation based on tax rates.

20 A I don't know what you mean by escalation. In
21 year one, there was more than two scenarios. I
22 looked at a one percent growth, a two percent
23 growth, and I also looked at the historical
24 growth in each community of what their tax rate

1 had done over time. So I looked at three
2 different scenarios of tax rates to get to the
3 first year.

4 Q Okay. Well, perhaps I misunderstood something.
5 I'm going to move on to my next question.

6 You chose the net book value as sort of the
7 proxy for fair market value, correct.

8 A Correct.

9 Q And did you choose that because Eversource told
10 you to do that?

11 A No.

12 Q Okay. And did you choose that because you don't
13 really know what the fair market value is going
14 to be, say, 29 years from now?

15 A No.

16 Q And I think you said in your report that you
17 believe that you used that because towns
18 generally used that approach, is that correct?

19 A No. I didn't say that. Towns do not generally
20 use that approach.

21 Q Okay. I'm going to -- could you put up number
22 49? I'm showing you Counsel for the Public's
23 Exhibit 49 which is a table of litigation
24 between various communities and Public Service

1 of New Hampshire. And can you go to the next
2 page? Just showing you -- and go to the next
3 page. And the next. Okay.

4 So you can see that there's, this is
5 information that we requested from the
6 Applicants about the number of cases that
7 they've been involved in in litigating the net
8 book value question with communities. Are you
9 aware of that litigation?

10 A I'm generally aware of the litigation.

11 Q And doesn't that litigation suggest to you that
12 a lot of towns don't really agree with the net
13 book value approach, and they'd rather see other
14 approaches taken?

15 A Net book is only one of the five approaches to
16 value --

17 Q I understand there are many approaches, but --

18 A Well, in their analysis, the Town's appraisal
19 expert in the cases I've reviewed put forward
20 opinions based on not only other cost methods,
21 replacement cost, they also look at income
22 methods. There's five approaches to value, and
23 in most cases it's more than one --

24 Q Can I interrupt for more than a second?

1 The question was do these cases indicate to
2 you that the towns don't agree that net book
3 value is the appropriate way to do it?

4 A Well, I don't think they agree with it, correct.

5 Q Okay. And if you use net book value, and
6 straight line depreciation, and nothing else
7 changes, when does the asset depreciate down to
8 zero?

9 A I don't think it would.

10 Q You don't think it would?

11 A I think it would, from an accounting perspective
12 it would. From an assessment perspective, I
13 think there would be a residual value, and it
14 would not go to zero.

15 Q So there's a scrap value at the end?

16 A Well, I don't know if it would be called scrap.
17 It might still be in use. So it's a continuing
18 value.

19 Q But isn't there a scrap value at the end, at the
20 end of, say, if you chose a 40-year
21 depreciation, don't you end up at zero after 40
22 years?

23 A I don't think it would go to zero because I
24 think at some point there would be ongoing value

1 that would not get below a certain percent, but
2 I don't know. It's too many years out, and I
3 don't have experience with what that might be.

4 Q But isn't it a natural consequence of a
5 mathematical 40-year depreciation at a certain
6 percentage that it turns to zero eventually?

7 A From an accounting perspective, but assessments
8 are based on looking at, making an opinion of
9 value and looking at multiple methods, and net
10 book is just one method, income approach is
11 another --

12 Q I'm not asking about that. But if you simply
13 take the accounting method of straight line
14 depreciation, and after 40 years, if you use a
15 40-year schedule, don't you end up at zero?

16 MR. NEEDLEMAN: Could I object? I think
17 the witness needs to be given an opportunity to
18 answer the questions.

19 PRESIDING OFFICER HONIGBERG: Generally,
20 yes, that would be a good idea. This witness
21 seems to be able to handle herself fairly well.
22 The record is going to be muddled, however, if
23 they talk over each other which is going to be
24 useless for everyone. So I'll overrule the

1 objection. I don't remember the question.

2 BY MR. ROTH:

3 Q The question was as, I think you already
4 answered it, but I just want to make clear --

5 PRESIDING OFFICER HONIGBERG: I thought
6 she'd already answered it, too, when you asked
7 it the third or fourth time.

8 MR. ROTH: Okay. Then I will ask another
9 question.

10 BY MR. ROTH:

11 Q In your workbook, the value goes down to roughly
12 \$457 million in year 29 and stays there until
13 year 40. Why did you do that?

14 A I don't know what workbook you're referring to.
15 I'd have to -- can you put that up, please?

16 MS. MERRIGAN: Can you switch over to the
17 ELMO?

18 (Discussion off the record)

19 A This is a 20-year schedule. You were just
20 talking about 40 years.

21 Q If you look --

22 A Thank you for zooming.

23 PRESIDING OFFICER HONIGBERG: We're going
24 off the record for a minute. Take it off the

1 ELMO. I think the good news was that nobody
2 would read it anyway.

3 Q Well, I guess what I can do. I can show it to
4 the witness.

5 A What was the question again?

6 PRESIDING OFFICER HONIGBERG: There's no
7 pending question. He's asked you to take a look
8 at a page that I understand has some
9 confidential information on it, and now he'll
10 ask you a question about what he's showing you.

11 Q There actually was a question. The question was
12 by, my read of that page, at year 29, and
13 hopefully this is not a confidential -- I don't
14 think so. You have the Project depreciated down
15 to roughly 457 million, correct?

16 A Correct.

17 Q And then from years 29 through 40, it stays at
18 that value.

19 A Correct.

20 Q And my question is why. Why did you take it
21 down to 457 and then keep it there for the
22 duration?

23 A As you know, my testimony provided an estimate
24 for 20 years, and I did not go past 20 years

1 because of the difficulty.

2 Q Yes, I'm aware of that.

3 A In the case of, I was asked to put the schedule
4 for 40 years, and I looked in some other states
5 that do actually use the net book method have a
6 minimum value of 30 percent of the original
7 cost, and then it doesn't, they don't allow the
8 assessed value to go below so I chose to use
9 that.

10 Q Okay.

11 A Because that is what I -- I had no basis to --
12 as an economist, I know there's residual value.
13 I don't believe that the assessments would go to
14 zero and because I'm aware that in some other
15 states 30 percent, once it depreciates to 30
16 percent, even under a net book state so I chose
17 to keep it there.

18 Q Okay. Thank you. And do you know when LEI did
19 its calculations in its Supplemental or Rebuttal
20 Report? Did they use that 457 million as part
21 of what they calculated or did they stop at 20
22 years?

23 A My familiarity was with the 20 years with LEI,
24 and they were using my 20-year schedules that

1 are in the Report. I'm not sure what they did
2 when they were doing, I'm not sure what Ms.
3 Frayer did for 40 years. I don't recall.

4 Q So you don't know whether that 457 million in
5 value carried through as part of her
6 calculations in Figures 11 and 12?

7 A What's Figures 11 and 12?

8 Q In the LEI Supplemental/Rebuttal Report?

9 A You'd have to give me the -- I don't know what
10 you're referring to.

11 Q Okay. We'll return to that, and I can ask you
12 that in a little bit.

13 A Okay.

14 Q Now, in LEI's Supplemental Report, they
15 criticized Kavet & Rockler for zeroing out the
16 value after 40 years, and I assume from what
17 you've already said that you agree with that
18 critique?

19 A I do.

20 Q And for the reasons you already explained, you
21 don't, you believe that that's not a natural
22 extension of the accounting method?

23 A Well, it's a natural extension of the accounting
24 method, but as that translates into assessed

1 values in New Hampshire, I think it's unlikely
2 to go to zero.

3 Q Okay. And do you have any data that supports
4 that assumption that you made that it doesn't
5 just zero out?

6 A Well, as we were talking about before with the
7 litigation, many towns are assessing at higher
8 than net book.

9 Q Yeah, but you didn't follow those other methods
10 that -- you didn't use any of those other
11 methods, did you?

12 A Well, I considered that the income approach
13 would, under Northern Pass since the income,
14 business income is based on net book, under an
15 income approach you'd get the same value as
16 under net book.

17 Q But the question is you didn't use any of those
18 other approaches, you just did net book value?

19 A I considered the income approach which yields
20 the same answer.

21 Q But your opinion is based on net book value?

22 A No. It's based on the income, under the income
23 approach and net book, and my opinion is to
24 provide a very conservative estimate of the tax

1 benefits of the Project, and knowing that
2 there's five methods and approaches to value, I
3 chose the most conservative so that I could have
4 an opinion that the benefits would be at least
5 this amount.

6 Q In Ms. Frayer's Supplemental Report, and this
7 is -- could you put up 102? And I need page
8 104.

9 Now, as I understand this note, LEI says
10 that they obtained guidance from you in
11 preparing this part of the report. What sort of
12 guidance did you give them?

13 A They were looking for the scenario of what
14 property tax estimates to use for the 20 years
15 so I suggested that they take that directly from
16 my report that provided the 20-year schedule.

17 Q Is that the only guidance that you provided LEI?

18 A Well, in addition, because I think that the
19 years were slightly off by one or two years from
20 what my schedule was so they had to extrapolate
21 out two more years than what I had, and so I
22 worked with them to explain that the one percent
23 growth in taxes, the tax rates, was not for all
24 the tax rates, just for the local because the

1 state tax rate is fixed.

2 Q Was there anything else? Any other guidance
3 that you gave them?

4 A With regard to property taxes?

5 Q Yes. Or any other guidance on anything.

6 A I don't know what else -- certainly on the
7 property taxes was page 16 of my report. That's
8 what we worked on. And mine went from 2019 to
9 2038. So, again, we talked about how to project
10 it out because the years were slightly
11 different.

12 Q Okay. So other than this guidance about
13 property tax payment, was there any other
14 guidance that you provided Ms. Frayer or LEI
15 people?

16 A We discussed the REMI model and how that would
17 incorporate property taxes.

18 Q And what were those discussions about?

19 A They were the discussions about whether to use a
20 variable of local spending or state spending
21 because that's two different variables in REMI.
22 And so we discussed whether to treat the
23 property taxes as local or state because the
24 State Utility Tax, whether to treat that as

1 state spending or local spending.

2 Q I'm sorry. I couldn't --

3 A Whether to treat it as state or local spending
4 because one of the property taxes that Northern
5 Pass would pay goes to the State, but the
6 money's distributed back to the locals so my
7 suggestion was still to use the local spending.

8 Q So you suggested local?

9 A On the property taxes, yes.

10 Q Okay. And did you provide them guidance about
11 the use or the calculation of income taxes?

12 A The calculation of income tax I took directly
13 from the record that was provided by the client.

14 Q Okay.

15 A And that's where we did discuss to use the state
16 variable in REMI with the business tax because
17 that does go to the State and that's part of
18 state spending.

19 Q I'm sorry. I'm still having trouble --

20 A That's part of state -- I'm sorry. I'll speak
21 up.

22 Q I'm probably hard of hearing. Too much rock and
23 roll.

24 A Me, too. The business tax revenue, whether to

1 treat that as state and local, and I suggested
2 treating that as state because that did go to
3 the state for state spending.

4 Q Was, is that a REMI variable, state or local?

5 A Yes. Two different variables in REMI.

6 Q Okay. Now, are you familiar with the Board of
7 Tax and Land Appeal's decision in the New
8 Hampshire Electric Cooperative case that was
9 recently affirmed by the New Hampshire Supreme
10 Court?

11 A I'm generally familiar. I know the cases came
12 out at the same time. One was on Eversource's
13 cases and one was on the Electric Co-op. I'm
14 not sure -- so I'm generally familiar with it.
15 I'm not sure I studied the Co-op versus the
16 Eversource decision to see what the differences
17 were.

18 Q They were fairly similar.

19 A I think they were. Yes.

20 Q At page 20. Can you highlight the bit at the
21 top there? The first sentence? And in fact go
22 down to the second sentence as well?

23 So I'm showing you page 20 of the Board of
24 Tax and Land Appeals decision that was affirmed

1 by the New Hampshire Supreme Court, and in it
2 didn't they describe the net book value as
3 simple arithmetic calculation of original cost
4 less book depreciation?

5 A Yes. They're all simple calculations when it
6 comes down to it.

7 Q And then the board finds that net book value is
8 not credible as an indication of market value,
9 isn't that true?

10 A In this case. With this expert, they found him
11 not credible.

12 Q Now, I believe from your Report, you made
13 assumptions that the new utility property is
14 being an existing right-of-way that therefore no
15 local services would be demanded and there would
16 be no offset to revenues because of the Project,
17 isn't that correct?

18 A I did not consider it. I said if they were
19 there, then that would be an offset. I felt
20 comfortable making the decision that there's no
21 increase on education spending. I'm not aware
22 of any increase because of an existing
23 right-of-way, but there are other experts that
24 talk about the impacts of transmission.

1 Q Isn't it true that there's 60 miles buried in
2 new right-of-way that's not existing
3 right-of-way?

4 A It's in the road.

5 Q Yes, but that's not an existing right-of-way for
6 this kind of utility, is it?

7 A I don't know if that's true. That sounds like a
8 legal question to me, whether a transportation
9 right-of-way is a right-of-way for utilities.

10 Q And isn't it true that 24 miles is in new forest
11 right-of-way up in the north and that's an
12 existing right-of-way?

13 A That's correct. That is new right-of-way.

14 Q Isn't it also true that in the existing
15 right-of-way, there's going to be new structures
16 and equipment as a result of the Project that
17 isn't there now?

18 A Correct.

19 Q And that's about a billion dollars worth, isn't
20 it?

21 A I don't know whether the billion versus 1.6.
22 I'd have to look at the math why you're
23 concluding it's a billion out of the 1.6.

24 Q It's kind of lawyer math. I determined that the

1 equipment might be, you know, the towers, poles,
2 wires, insulators, that stuff. So there's a lot
3 of new equipment and wires and poles in the
4 existing right-of-way, correct?

5 A Correct.

6 Q And did you perform any analysis to verify your
7 assumptions that there wouldn't be any need for
8 new services as a result of the construction of
9 the Project in the existing right-of-way?

10 A Again, that was not my area of expertise to look
11 at the costs of maintaining transmission lines,
12 and I deferred that to other experts.

13 Q So I take that that the answer is no, you didn't
14 perform any analysis of that?

15 A Correct. No, I did not.

16 Q Did you contact any town officials anywhere
17 along the right-of-way, existing or otherwise,
18 to verify your assumptions that there be no
19 additional demand on services?

20 A Again, I didn't assume there was no demand. I
21 didn't look at whether there was, and I left it
22 to other experts to determine whether there
23 would be an increase in costs.

24 Q So I'll take that also as a no?

1 A Right. No.

2 Q Okay. And did you -- can you put up number 351?

3 Did you consider that new and additional
4 overhead lines in the existing right-of-ways
5 might create new or additional opportunities for
6 interaction between the public and the
7 right-of-way and the infrastructure? And here
8 I'm showing you an article from a news magazine
9 showing a cat trapped on an insulator somewhere
10 with a public official rescuing it.

11 A I'm not familiar with whether cats are a problem
12 in New Hampshire on transmission lines and
13 whether putting a third line in an existing
14 right-of-way would make it more likely to have
15 cats.

16 Q The question wasn't specific to cats. The
17 question was did you consider whether there
18 would be new opportunities for all kinds of
19 interaction?

20 Can you put up number 352?

21 And here we have a gentleman trying to
22 erect a ladder over a substation in Oregon. And
23 so is the -- can you answer the question? Did
24 you consider whether the new equipment in the

1 right-of-way and the substations and the
2 transition stations would create new
3 opportunities for interaction that perhaps don't
4 exist now?

5 A Again, no. That was not part of my analysis.

6 Q Okay. You can take that one down. And put up
7 134. Page 67, I think it is. Third page.

8 I'm showing you Exhibit E to Counsel for
9 the Public Exhibit 134 which is a table of the
10 access roads, routes, that was computed by
11 Dewberry, the Engineers that were hired by
12 Counsel for the Public.

13 And if you go to the final page?

14 It shows 67 miles of access roads, and this
15 is probably only the beginning. Did you
16 consider the new access roads that were going to
17 be installed as creating additional demands or
18 services from the communities and the states.

19 A During construction?

20 Q Or after construction.

21 A Again, no. During construction I believe the
22 construction team was looking at what the costs
23 are and how to work with the towns on impacts.

24 Q Sorry?

1 A The construction team and the construction plan
2 will take into account what the impacts are on
3 the community. It's outside of my purview.

4 Q So you didn't do anything to determine whether
5 the town of Pittsburg, for example, was going to
6 have to devote additional of its own resources
7 to police the access road?

8 A No, I did not.

9 Q Okay. And I take it that your answer would be
10 the same for the laydown and storage yards that
11 are going to have to be created to construct the
12 Project?

13 A Are you asking whether I took it into account or
14 whether the Project took it into account?

15 Q Did you take it into account when you did your
16 calculation of benefit to the communities?

17 A No.

18 Q And what about the presence and operation of
19 construction and right-of-way maintenance
20 vehicles and equipment on town roads and city
21 streets. Did you take that into account?

22 A No.

23 Q And can you put up Applicant's Exhibit number 1?
24 The Table 5. Start with Table 5. No. Let's

1 start with Table 90. Okay.

2 Now, are you aware at least generally that
3 the Project is expected to have impacts on a
4 number of wetland areas?

5 A I try and stay out of those questions.

6 Q Okay.

7 A No. I mean, I'm generally aware but this, I
8 haven't even, this is, I have never seen this.

9 Q Okay. So this table shows that the Direct
10 Impacts to Wetlands, Rivers, Streams and Vernal
11 Pools. This is a table from a Normandeau
12 report, would be, and this is as of 2015, and I
13 understand it's changed a little bit.
14 Approximately 137 acres of direct impacts to
15 wetlands, rivers, streams, and vernal pools. Am
16 I reading that correctly?

17 A I'm not sure how to read this. Which column are
18 we looking at here?

19 Q If you look at the totals, you'll see in the
20 fourth column over, it says 137 acres of
21 temporary impacts.

22 A Well, that's what it says.

23 Q Okay. And a relatively modest 2.48 acres of
24 permanent impacts. And so --

1 And then could you produce the next one,
2 Table 5? No. Take that one down for a second.

3 So in terms of these wetlands impacts, are
4 you familiar that or aware that the Department
5 of Environmental Services is going to require
6 the Applicants to restore many of those wetlands
7 impacts?

8 A That sounds reasonable.

9 Q And did you consider in your calculation of what
10 the benefit either to the state or the
11 communities of these tax revenues, did you
12 consider the cost of those communities or the
13 State to monitor the restoration of those
14 wetlands?

15 A The costs I looked at were taxes. I'm not sure
16 what the question is. I didn't consider costs.
17 The tax costs or other costs?

18 Q No. The cost to the communities of having to
19 oversee, and could be the communities or the
20 State, to oversee the wetlands restoration?

21 A Why? I'm not familiar with who would pay for
22 that, whether that's a Project cost for the
23 monitoring and the Project would pay for those
24 costs. I don't know.

1 Q Aren't construction sites, excavated areas,
2 access roads, sandpits, wetlands, popular places
3 for four-wheeling and dirt bike riding and late
4 night teen gatherings?

5 A I'm not an expert on that. I don't know. It's
6 a common sense thing. Yes. Sure. So is, you
7 know, parking lots, and people's houses, and
8 proms.

9 Q But did you consider whether the communities
10 having to police construction sites and
11 excavated areas, access roads and wetlands that
12 were being impacted by the Project, did you
13 consider the costs of the communities to police
14 those as an offset to the tax revenue that they
15 might receive from the Project?

16 A Again, consideration, I did not consider it. I
17 pointed out in my study that to the extent there
18 are any additional demands on local services,
19 the cost of those services would need to be
20 factored into the calculation of new tax revenue
21 unless Northern Pass separately provided for
22 those services. So that was the manner in which
23 I considered it.

24 Q Right. But you're offering or you're suggesting

1 that there's a benefit from new tax revenue, and
2 I'm asking whether you considered whether there
3 were other factors to be considered in terms of
4 mitigating that benefit, including the
5 requirement of communities to respond to new
6 things going on with their police and fire and
7 rescue.

8 A What's the new things going on?

9 Q The excavations, the wetlands restoration, the
10 access roads, the new utility infrastructure.

11 A Well, again, as I pointed out, if that's
12 something that is a cost to the communities,
13 then the issue is whether that's part of the
14 Project costs and they would be paying for the
15 details on construction sites or monitoring for
16 wetlands.

17 Q Do local police, Fire Departments, the Fish &
18 Game Department, DRED, Park and Forest Rangers
19 enforce OHRV? You know what OHRV means?

20 A Um-hum.

21 Q And trespass and other laws on lands that the
22 existing in the new right-of-way will pass
23 through?

24 A I don't know.

1 Q Did you account for the burden that the Project
2 will impose on State Agencies such as
3 Environmental Services and Fish & Game for
4 monitoring construction and restoration in terms
5 of calculating the benefit of taxes?

6 A Again, I don't know what those costs would be
7 and whether if the costs that are associated
8 would be covered and the Project will be
9 required to compensate the Agencies for
10 oversight as part of the Application fee. I'm
11 not familiar with those details.

12 Q The answer is you did not account for that.

13 A No. Did not.

14 Q All right. I'm going to change direction a
15 little bit here.

16 In Ms. Frayer's Supplemental Report, she
17 said she consulted with you and we talked about
18 that and I got some more information from you
19 about what that was like. And she criticized
20 Kavet & Rockler for several things such as
21 zeroing out the tax revenue which we already
22 talked about, overlooking the increased spending
23 coming from income tax payments, and not
24 adjusting tax rates and not accounting for tax

1 reductions, correct?

2 A I don't have that right in front of me. It
3 sounds correct.

4 Q And I assume --

5 A If you want to give me the pages on that, then I
6 could look at it, but --

7 Q That's okay. And I assume you agree with those
8 criticisms?

9 A Could you repeat them specifically again?

10 Q That she criticized Kavet & Rockler -- actually,
11 can you put up --

12 A Okay.

13 Q I think if you, the paragraph that starts with
14 first, it says important to know KRA's property
15 tax estimate is based on incorrect specification
16 of effective property taxes for utilities.
17 Kavet & Rockler simply assumed, I'm paraphrasing
18 here, zero out, and they overlooked the
19 possibility there could be increased spending
20 that might be associated with increased state
21 business income taxes payable.

22 Do you agree with those criticisms?

23 A Yes, I do.

24 Q Now, turning to income taxes. In your original

1 testimony, you did not model or do a computation
2 of income taxes, correct?

3 A Correct.

4 Q And to your knowledge, LEI didn't do that
5 either?

6 A Correct.

7 Q And in your Supplemental, both you and Ms.
8 Frayer criticized KRA for doing it, and then you
9 did a computation and plugged it into your
10 Testimony and your Report, correct?

11 A I didn't do an independent computation. I
12 looked at the record, and it was in the record
13 as requested by Counsel for the Public for a
14 schedule of what the income tax paid would be.

15 Q Okay. Does REMI automatically add tax
16 generation in the model workings?

17 A No.

18 Q Isn't that one of the policy variables that's
19 available that REMI does when it computes
20 economic impacts?

21 A It's possible. It's a choice.

22 Q It is what?

23 A It's a policy variable in REMI.

24 Q So if it's already in there, and then you add it

1 on top, isn't there double counting?

2 A It's not already in there. Just like the
3 property tax payments are not already in there.
4 And I agree with the Kavet & Rockler approach.
5 I think that's reasonable to consider increased
6 property taxes as spending, and that's why they
7 modeled it that way. And similarly, business
8 taxes. It's the same thing. It's new taxes
9 paid by the developer and the Project. That is
10 not taken into account in the model.

11 Q So you're saying REMI doesn't actual produce
12 that automatically?

13 A No, it does not produce a 1.6 billion Project
14 will pay on average \$30,000,000 a year. It does
15 not produce that.

16 Q Okay. Thank you. And when you did that
17 computation you used the legal rate for, I guess
18 we'll call it state income taxes, correct?

19 A No. I used the schedule that was provided by
20 the Finance, I believe it was Jim Vancho by
21 Eversource. It was in the record of what the
22 schedule was.

23 Q So you just took the number from Eversource?

24 A Well, they use 8.2 percent in their calculation.

1 Q Okay.

2 A At the time. Actually the property, the
3 business taxes are going lower than that.

4 Q And the business tax rate is lower than that?

5 A Well, it was 8.5, it's gone down to 8.2, and I
6 believe the budget that just went into effect
7 will lower it over another couple of years, I
8 think it's to 7.5.

9 Q Okay.

10 A So it's about 10 to 12 percent lower than the
11 number that was in the model. At the time that
12 that model was developed, the rate was 8 and a
13 half percent.

14 Q So but you chose or you chose the number that
15 Eversource gave you which was 8 percent?

16 A I think it was 8 and a half percent. I used
17 their schedule because it was in the record.

18 Q Do you know what Eversource actually pays in New
19 Hampshire for corporate taxes over the past 8
20 years?

21 A In New Hampshire? Not off the top of my head.

22 Q Okay. Are you familiar with the Institute on
23 Taxation and Economic Policy?

24 A Yes. It's an advocacy group. I am familiar

1 with them.

2 Q And I'm showing you Counsel for the Public
3 Exhibit 350 which is a report that they
4 authored, published, called 3 Percent and
5 Dropping, State Corporate Tax Avoidance in the
6 Fortune 500, 2008 to 2015.

7 Have you seen this report before?

8 A When you provided it to me. Yes.

9 Q Okay. And if you look on the first column there
10 on the left, about a third of the way down. Can
11 you find Eversource on there? Okay. And this
12 table here represents 92 corporations paying no
13 state income tax in at least one year between
14 2008 and 2015. So at least according to the
15 Institute on Taxation and Economic Policy,
16 Eversource didn't pay any tax at all in New
17 Hampshire between, in at least one year and I
18 think it actually says three years between 2008
19 and 2015. Is that correct?

20 A No. It's not correct. This report that you
21 provided, I did take a look at it briefly. And
22 it's a combination of all, across all states,
23 and in fact they have a caveat right up front in
24 the report that for any individual state, it

1 does not provide the information. So this is a
2 combination of Connecticut, Massachusetts, and
3 New Hampshire for Eversource. So it doesn't
4 tell us what they paid in New Hampshire.

5 Q So in one of those states, one of those three
6 states, and it could be a different state each
7 year, correct? Eversource paid no taxes at
8 least three times in that period. Is that
9 correct?

10 A I don't know. I mean, you have to take the
11 combination of the three. You can certainly
12 look at their SEC filings to see what they paid
13 in New Hampshire.

14 Q Okay.

15 A The Securities & Exchange. You have to make
16 filings about what your taxes are and that would
17 be, you would be able to look that up for PSNH
18 in the specific State of New Hampshire.

19 Q Okay. But let's, I'm going to take this as an
20 assumption from you since you won't agree with
21 this fact. If you assume that Eversource paid
22 no taxes for three years in New Hampshire, and
23 I'm not saying that we have proven that, but if
24 you assume that to be the case, isn't it

1 possible then that Northern Pass could pay no
2 taxes at some point in the future?

3 A This, again, based on this study, there's
4 nothing in this study to suggest that Northern
5 Pass would not pay the income taxes that it's
6 projecting. The business income tax is subject
7 to the statutory rate. This report is a
8 combination of all three. So there's nothing in
9 this report, and in fact, the factors it talks
10 about of why corporations avoid taxes have a
11 number of policies that are not present in New
12 Hampshire. Single sales factor, combined --

13 PRESIDING OFFICER HONIGBERG: Wait. Off
14 the record.

15 (Discussion off the record)

16 Q I understand you're not wanting to agree with my
17 premise, and that was a fine argument against my
18 premise. But my premise is if you assume that
19 there is no, that Eversource didn't pay any
20 taxes in New Hampshire for three years, isn't it
21 also possible that Northern Pass might not pay
22 taxes for some years in New Hampshire?

23 A Anything is possible.

24 Q And let's look at the next table.

1 Can you highlight Eversource?

2 Now, this is also in the Institute on
3 Taxation and Economic Policy Report, and this
4 table identifies state income taxes for 240
5 major corporations between 2008 and 2015 showing
6 what they paid on an average, as I understand
7 it, during that 8-year period. Am I reading
8 that table correctly?

9 A It's not the average. It's a combined state
10 income taxes. So they're combining, at least
11 that's what they say in their report. They're
12 combining what you pay across all the states.

13 Q Yes. I understand that. But in terms of the --

14 A So it's not an average. You just said average.
15 It's not an average. It's an aggregate.

16 Q It's an average over 8 years. If you look at
17 the 8 year total.

18 A Can you put the headings -- I'm not seeing the
19 headings. Thank you.

20 Q See the 8-year total on the right?

21 A Oh, okay. I'm sorry.

22 Q I'm sorry. I didn't mean to confuse you with
23 that.

24 A Okay.

1 Q What that shows, at least the way I'm reading
2 it, is that on average over the 8 years,
3 Eversource Energy paid 1.6 percent in state
4 taxes over all three states. Is that fair?

5 A That's what it says.

6 Q And that's not 8.5 or 8.2 or 8 percent, is it?

7 A Well, again, that includes Connecticut and
8 Massachusetts. I don't know what their tax law
9 is in terms of franchise taxes, whether they're
10 a credit against their business taxes. I don't
11 know what their loss was in Connecticut because
12 of the ice storms and whether they had carry
13 forward net operating loss. I'm not, I don't
14 know the details of that.

15 Q But when you did your calculation of state
16 income taxes, you didn't do anything to
17 determine the actual tax rate that Eversource
18 paid over any period of time in New Hampshire,
19 did you?

20 A There is nothing in this report that suggests
21 that Northern Pass as a 100 percent in New
22 Hampshire Project, so all the property's in New
23 Hampshire, all the sales will be credited to New
24 Hampshire, it's not part of a larger taxing

1 entity so it doesn't have the regulatory assets
2 of stranded costs or generation divestiture that
3 there is anything in my 20 years of experience
4 that would suggest that Northern Pass would not
5 face the statutory taxes. There's only two real
6 credits in New Hampshire against business income
7 tax, and one is a net operating loss, and I
8 haven't seen anything in the records to suggest
9 that Northern Pass would be operating at a loss.
10 And the other credit is a Community Development
11 Finance Authority. So it's possible there could
12 be a reduction if they participate in that
13 program.

14 Q I guess if you would answer the question, then
15 the question was you didn't do anything to
16 analyze what Eversource actually paid in taxes
17 during any period of time in the past. You
18 simply took their number and calculated based on
19 that. You didn't do any research, you didn't
20 come to the PUC to find out what their actual
21 tax payments were like?

22 A Well, I did look up their taxes, but it's not
23 really, it's not relevant. You can look at
24 their 10 Ks and see what they paid. Their

1 assessments for PSNH. It's not relevant to
2 Northern Pass.

3 Q That's your argument, but I'm trying to get the
4 facts, and the fact is you didn't do any
5 analysis on what their actual rate was when you
6 chose the 8 percent or 8.5 percent.

7 A In the record as requested by Counsel for the
8 Public was what are the projected business
9 income taxes that Northern Pass would pay. It's
10 in my testimony. I didn't see any questions
11 about whether that was a wrong calculation or
12 anybody saying that that wasn't the correct
13 projection of the business income for the first
14 year so I'm just, I'm not aware of any reason --

15 Q I'll just take that as a no. You didn't do that
16 analysis.

17 A No. Like I said before, I used what was in the
18 record for the business income taxes.

19 Q Now, in your original report, you didn't
20 allocate tax payments to spending versus a debt
21 reduction. Now we're talking about property
22 tax.

23 A Okay.

24 Q Tax payments to spending versus debt reduction

1 versus tax reduction, did you?

2 A I did look at it in terms of tax reduction
3 versus increased spending. That's the
4 difference between Simulation 2 and Simulation
5 3.

6 Q Okay. But your opinion, your ultimate opinion
7 was because the tax reduction, debt reduction,
8 spending is only relevant to doing sort of an
9 economic impact of those taxes, and in your
10 opinion, your original opinion, didn't you
11 simply do here's how much money is going to be
12 generated, you know, sort of a raw number in
13 terms of tax benefit to the communities. Isn't
14 that correct?

15 A No. That's not correct. That's the whole
16 essence of the variation and looking at the 11
17 simulations was to take into account --
18 Simulation 2 assumes increased spending because
19 if you take the current tax rate and apply that
20 to the value, that is all increased spending and
21 that's Stimulation 2. Simulation 3 was
22 calculated as a tax reduction, and I discussed
23 that there is a choice with the community
24 whether to do increased spending or to use the

1 increased tax base to lower everybody else's tax
2 rate.

3 Q But you didn't model economic impacts of tax
4 payments in your original testimony, did you?

5 A No. No.

6 Q Okay. And LEI didn't do it then either, did
7 they?

8 A No, they did not.

9 Q And originally, LEI decided not to do it because
10 they assumed that all of the tax benefits could
11 go to debt reduction and that wouldn't produce
12 any meaningful economic impact, and, therefore,
13 not including it, in their view, was being
14 conservative, correct?

15 A I don't know that specific logic. I do agree
16 that it was conservative to not include it
17 because you have a choice.

18 Q Okay.

19 A The communities have a choice.

20 Q Okay.

21 A But I don't know about the debt reduction or
22 whether the modeling -- REMI is, well, go ahead.
23 Ask the question.

24 Q You agree that it's conservative.

1 A To not include it in a -- what's conservative?

2 Q I think you just agreed with me that or agreed
3 with actually LEI that it was conservative to
4 not include or not economically model the
5 economic impacts of the tax payments because
6 it's possible that all the tax benefits would go
7 to debt reduction.

8 A No. Not debt reduction.

9 Q Well --

10 A That's not what I said. It's not debt reduction
11 because the primary way that taxes --

12 Q You're misunderstanding --

13 A -- is to reduce other people's -- well, you said
14 debt reduction.

15 Q I'm sorry. I'm going to interrupt you. You're
16 misunderstanding what I'm saying. I said and
17 this is what LEI said. LEI said it's
18 conservative to not include it because the
19 towns, municipalities, could put it all to debt
20 reduction. That's what LEI said.

21 A I'll accept that.

22 Q Okay.

23 A If that's what you said.

24 Q And when she's testified, when Ms. Frayer

1 testified here a few weeks ago, have you seen
2 her testimony? Were you here when she
3 testified?

4 A Parts of it.

5 Q Okay. Isn't it true that she agreed that Kavet
6 Rockler's 50/50 split was lower and therefore
7 more conservative?

8 A Lower than? I don't know what you mean.

9 Q Well, Kavet & Rockler chose to allocate 50
10 percent of the tax payment to spending and 50
11 percent to debt reduction, and, therefore, the
12 economic impact of 50 percent, of the tax
13 impact, sorry.

14 The economic impact of the tax payment only
15 experienced, is only experienced into 50
16 percent, not 100 percent. You understand that?

17 A In terms of REMI analysis, yes.

18 Q So Kavet & Rockler didn't use 100 percent for
19 spending.

20 A Correct.

21 Q It used 50 percent for spending and 50 percent
22 for debt reduction.

23 A That's what they did.

24 Q And Ms. Frayer testified here a few weeks ago,

1 and I believe she agreed that that 50/50 split
2 was lower, would produce a lower income benefit
3 and was, therefore, more conservative?

4 A More conservative than what?

5 Q Than attributing it all to spending.

6 A Correct. That is.

7 Q But in your Supplemental Testimony you said that
8 Kavet & Rockler erred by splitting the tax
9 receipts 50/50 between new spending and debt
10 repayment, correct?

11 A It's an error. Because they missed the basic
12 thing that the taxes are used for which is to
13 reduce other people's tax burdens, not for debt
14 reduction.

15 Q Yeah. I understand that that's your assumption,
16 but --

17 A And it's in every other study that's been before
18 the SEC as far as I've seen in the last ten
19 years.

20 Q Okay. We're going to talk about those in a
21 moment.

22 A Okay.

23 Q And in your view, is, and maybe it's not even
24 your view, maybe it's REMI's view, you know, the

1 great REMI behind the curtain. In REMI's, the
2 way, doesn't REMI treat tax relief the same as
3 municipal spending? Or maybe I just -- I don't
4 know. I'm asking the question. Does REMI treat
5 tax relief the same as spending?

6 A No.

7 Q No? Okay.

8 A Not necessarily. There's choices. REMI doesn't
9 do anything without the researcher making a
10 decision of what variables to use. I've run
11 REMI with a tax increase and an increased
12 spending and I modeled the tax increase as a
13 reduction in consumer spending.

14 Q Is it your opinion that tax relief is
15 essentially spending?

16 A No.

17 Q No? And so in this case, if Kavet & Rockler
18 didn't attribute any of the tax relief and said
19 50 percent spending, 50 percent debt reduction,
20 why would that make any difference to you?

21 A Because the debt reduction is a, in my opinion,
22 to say that all of the money would either go to
23 increase spending or to retire debt misses the
24 most obvious and expected and historically

1 looking at the way towns spend money in New
2 Hampshire which is if there's an increase in the
3 tax base by a new taxpayer coming into town and
4 expanding the base, it lowers the tax rate.
5 That's not debt reduction. That's lowering the
6 tax burden to the existing -- that's not debt
7 reduction. That's something else.

8 Q No. I think we all understand the difference or
9 I hope so. Kavet & Rockler didn't say it's all
10 spending or all debt reduction, did they? They
11 said 50/50 to be conservative, as you agreed.

12 A Well, they forgot the third component which is
13 the most prevalent. They said 50 percent
14 increased spending, and 50 percent debt
15 reduction. What happened to the 50 percent that
16 is more likely to actually go to reduce taxes
17 which puts more money in the business and
18 residence and property taxpayers in the
19 community? They didn't discuss that.

20 Q Well, now you're up to 150 percent.

21 A No. You have to make a decision about what
22 you're going to do, and they actually considered
23 an alternative model and rejected it.

24 Q Okay. Now, in your testimony, I believe, you

1 cited Morrissey's study in the Merrimack
2 Reliability Project and the Gittell study in
3 Groton Wind as authority for this proposition
4 that you're making.

5 And you can put up 345?

6 So this is Exhibit 345. And this is
7 Professor Gittell's study that you cited in your
8 testimony. And in it, you can see what
9 Professor Gittell said about this particular
10 phenomenon that you described. That is, of
11 reducing local tax burden. And Professor
12 Gittell suggests basically a 50/50 split for
13 between spending and reducing tax burden,
14 correct?

15 A No. Not correct.

16 Q Or an alternative, right?

17 A No. It's not correct.

18 Q Well, it says here, the tax payment would have
19 either, one, additional funds for town services.
20 I assume that that's spending.

21 A Correct.

22 Q Or two, reduce the local tax burden, isn't that
23 what he did?

24 A That's not how they modeled it though. This is

1 a statement of fact here, and also this is a
2 PILOT program which actually does -- PILOT is
3 different than nonPILOTs. PILOTs actually
4 reduce the total tax burden because they come
5 off the top. They modeled as 100 percent
6 lowering taxes.

7 Q But that's not described anywhere in the report,
8 is it?

9 A Yes, it is.

10 Q I didn't see it.

11 A Well --

12 Q And I'm looking -- can you show me Footnote 19?

13 A You can look at how they modeled it.

14 Q And in it, in Professor Gittell's report, he
15 suggests as authority for this Attorney
16 Moffett's report from Orr & Reno on October 7,
17 2009. Isn't that correct? For those two
18 choices?

19 A That's not the modeling. That's a statement of
20 whether the \$400,000 in a PILOT program can
21 either be used to increase spending or it could
22 be used to lower the tax burden. That's not how
23 they modeled it in plan in the study. He
24 modeled it at 100 percent reduction.

1 Q That's not evident from the way he described it
2 because this is the fiscal impact on the town of
3 Groton. That's what this report says.

4 A Right. But this isn't a model. There's no
5 model in this section.

6 PRESIDING OFFICER HONIGBERG: This is kind
7 of a cool argument about a report from another
8 docket that you're arguing with the witness
9 about?

10 MR. ROTH: The point is, she relied on this
11 for authority. I'm trying to --

12 PRESIDING OFFICER HONIGBERG: And she's
13 telling you something different than what you
14 think is true. And all you're doing is arguing
15 with her about it. Is there something that will
16 resolve this other than a footnote that just
17 refers to an article? Maybe we need to look at
18 that. Maybe we need to bring in some really
19 extrinsic evidence about this other extrinsic
20 report.

21 MR. ROTH: I plan to, you know, my next
22 exhibit is Mr. Moffett's report, is Attorney
23 Moffett's report.

24 PRESIDING OFFICER HONIGBERG: Okay. Let's

1 get to it then.

2 MR. ROTH: Okay.

3 BY MR. ROTH:

4 Q So this is Attorney Moffett's report on which
5 Professor Gittell relied for his assessment or
6 opinion about the fiscal impact, and I
7 understand you disagree with me that that's all
8 there was to it. So this is what Attorney
9 Moffett said.

10 Can you highlight the bottom here?
11 Actually go to the next page, the last paragraph
12 on the bottom.

13 And here Attorney Moffett said that the
14 PILOT would have reduced local tax burden and
15 would have reduced the total tax rate by 40
16 percent. So this is what Professor Gittell was
17 relying on for his opinion that there would be
18 either spending or tax reduction when he made
19 his opinion in 4.3 of Gittell's report.

20 Correct?

21 A I don't know.

22 Q Isn't it true that both of these are just
23 assumptions about reducing tax rates and
24 reducing the tax burden on other taxpayers? But

1 there's no analysis about how he got there, is
2 there? Either from Attorney Moffett or
3 Professor Gittell?

4 A He did the math. The math is right here.

5 Q Right, but he just assumed, he just made that
6 assumption that it was going to be tax reduction
7 and tax rate relief, correct? He didn't provide
8 any analysis or data to show that that's
9 actually what happens.

10 A I don't know. I'm reading a yellow sentence
11 that doesn't have an analysis. It has numbers.
12 It also about a PILOT program which is
13 different. PILOTS are different. When you pay
14 a PILOT, DRA takes the PILOT income off the top,
15 and then calculates the -- so literally the tax
16 burden is reduced. It's not just reduced in the
17 words of to people in town because what you have
18 to raise by taxes is technically lower because a
19 PILOT is treated as income off the top.

20 Q Okay. But you cited Gittell for the proposition
21 that this is just the way it's done by the
22 towns; that they apply the tax benefit to tax
23 reduction in their town, correct?

24 A This is a PILOT program. I don't know what the

1 question is.

2 Q The question is you cited Gittell and Gittell
3 cited Moffett for the proposition that this is
4 the way towns do it. Not the way Kavet &
5 Rockler did it.

6 A Which it? Kavet & Rockler, we were talking
7 about REMI where they made an assumption of 50
8 percent increased spending, and then the other
9 50 percent was assigned to debt reduction which
10 actually had a negative impact on the economy.
11 This is the third leg which is really the
12 primary leg in my opinion which is tax
13 reduction. This is a calculation for tax
14 reduction similar to what I did in Simulation 3
15 which is tax reduction calculation.

16 Q Maybe I'm just not understanding you. But here
17 is what, I'll explain where I'm getting this.

18 You criticized Kavet & Rockler for not
19 including tax reduction, and you cited Gittell,
20 and Gittell cites Moffett for the idea that
21 Kavet & Rockler were wrong not to include tax
22 reduction, and the reason they were wrong is
23 because this is what towns do based on your
24 experience, correct? And citing Gittell and

1 essentially Moffett, too. Isn't that what you
2 did? You cited Gittell for the proposition that
3 that's what towns do?

4 A No. That's what analysts do in considering the
5 benefits or the payments and the effect on the
6 local community is you either assume, they can
7 either use it for increased spending or tax
8 reduction.

9 Q Okay.

10 A Kavet & Rockler assumed increased spending and
11 debt reduction. Debt reduction is not tax
12 reduction.

13 Q All right.

14 A It's partially, but it's not the whole story.

15 Q Okay. I get that. So the question is then,
16 isn't it true that Gittell and Moffett simply
17 assumed that this is the way it happens. Or in
18 this case, this referred to a PILOT which is a
19 unique set of circumstances that applies to a
20 renewable energy facility, not to Northern Pass
21 Project.

22 A I'm not sure what the question is.

23 Q The question is didn't Gittell simply assume
24 that there would be tax reduction rather than

1 come up with any particular data to support
2 that?

3 A No. They specifically say, the previous
4 highlight you said they can either do two
5 things. Number one was 40 percent increase in
6 spending; or number two, tax reduction, and
7 here's the calculation of the tax reduction that
8 Mr. Moffett did associated with the PILOT.

9 Q Right.

10 A So they stated 1 and 2.

11 Q Okay. But either he just made an assumption
12 about the tax reduction, right? Or he basically
13 took the PILOT program or that's done
14 automatically by DRA, right?

15 A He made the calculation.

16 Q Yes. But how is that supportive of your
17 proposition that that's just the way it's done
18 by towns and analysts? It's just an assumption.

19 A No. In my opinion, there's two things you can
20 do with an increased taxpayer coming into town.
21 You can either keep spending the same and lower
22 the tax rate for everybody, including the new
23 payer in town or you can keep the tax rate the
24 same and now you have this new increased tax

1 base and you can increase spending without
2 affecting the tax rate. And that's exactly what
3 was done by Mr. Gittell in this report. He
4 pointed out, number one, and number two.

5 Q But Gittell did it because that's what's
6 required to be done under a PILOT or he just
7 assumed --

8 A No, that's not required.

9 Q -- that that's what happens, right?

10 A He made a calculation under scenario two. He's
11 got two scenarios. Scenario 1, 40 percent
12 increase in spending. Scenario 2, a reduction
13 of 40 percent in the tax rate.

14 Q Right, and there's no serious analysis in
15 Gittell's report that supports those choices, is
16 there?

17 A I don't know what "serious analysis" means. I
18 don't know what you mean by that.

19 Q Well, for example, data about what do towns
20 actually do with that, with that money? Do they
21 spend it or do they use it for tax reduction?

22 A Right. That's the analytical tool. You either
23 increase spending, you lower tax rate or you do
24 some mix in it.

1 Q But that's just an assumption they make.

2 PRESIDING OFFICER HONIGBERG: All right.
3 We're going to take a break. We're going to
4 take our morning ten-minute break.

5 (Recess taken 10:36 - 10:50 a.m.)

6 PRESIDING OFFICER HONIGBERG: All right.
7 We'll resume. Mr. Roth, you may continue.

8 BY MR. ROTH:

9 Q I'm showing you now Counsel for the Public
10 Exhibit 347 which I refer to as the Morrissey
11 Report, and this was also cited in your
12 Supplemental Testimony, correct?

13 A Correct.

14 Q And you cited this in addition to Gittell as I
15 understood it for the proposition that one
16 should consider tax reduction in addition to
17 spending. Is that correct?

18 A I cited it by way of you have to consider one or
19 the other or a combination. Correct.

20 Q Okay. This is page 8 of that report.

21 A Yes.

22 Q As I understand what he did here was he treated
23 it all as an increase in local government
24 spending; is that correct?

1 A Correct.

2 Q So he didn't do any tax reduction either.

3 A Well, actually, I believe he used 100 percent of
4 increased spending for the National Grid side,
5 but I kind of insisted on only 50 percent
6 because I wasn't really comfortable with that
7 100 percent assumption. So the, I believe at
8 the end of the day the, technically speaking, it
9 wasn't 100 percent. He modeled it as 100
10 percent, but I only gave him 50 percent of the
11 taxes that I calculated.

12 Q But this certainly doesn't provide any support
13 for the proposition that you should also include
14 tax reduction.

15 A Oh, it does, because my analysis in this report,
16 I was a witness in this docket, did look at tax
17 reduction. Again, that's Simulation 3 where you
18 calculate the tax payments based on the
19 assumption of the reductions. So in my
20 testimony in this docket, I did look at the
21 different scenarios where we used as reduction.

22 Q That may have been your testimony, but --

23 A Um-hum.

24 Q But Mr. Morrissey didn't do that, did he?

1 A Well, again, he used it as 100 percent. He made
2 a decision. He accounted for all of the tax
3 benefit in some way.

4 Q As spending. Not as tax reduction.

5 A Correct.

6 Q Okay. And you can't tell from Morrissey's
7 report what he relied on for that assertion, can
8 you?

9 A I believe he relied on that as a potential. Not
10 based on his analysis that they would spend it.
11 It's as a matter of economic analysis with REMI
12 because really REMI's only suited for the
13 increased spending side. It's very difficult in
14 this application with these types of projects to
15 estimate using REMI for tax reduction. There's
16 some problems with that. So he viewed it as the
17 potential. He wasn't taking the position that
18 all of it would be spent. You could see when
19 you're highlighted in yellow estimate their
20 potential estimate impact so he's providing at
21 the maximum, this is the potential.

22 Q But he doesn't mention --

23 A It could be less.

24 Q Sorry. He doesn't mention anything other than

1 entering it in REMI as an increase in spending,
2 correct?

3 A Correct, because of their potential impact.

4 Q And there's no data or source referenced by him
5 supporting this particular choice for all, for
6 entering it all as spending, is there?

7 A Not that I'm aware of. No.

8 Q Entering it all as spending leads to the maximum
9 amount of economic benefit, doesn't it?

10 A As measured in REMI.

11 Q Yes.

12 A I mean, that's as a modeling issue. Yes.

13 Q All right. And did you conduct any town-by-town
14 research of your own to learn what each town
15 would do with the benefit as between spending or
16 tax reduction?

17 A No.

18 Q So your statement that these are -- you said in
19 your Supplemental Testimony that these are
20 embedded trends in local decision making
21 regarding spending decisions. That's just your
22 opinion, not based on any data or research that
23 you performed?

24 A No. If you look at the trends over time with

1 the spending in communities, during the
2 recession you had, property values had gone way
3 down and also the economy was in extremely rough
4 shape, and so spending went down. And as you
5 see more addition in property values, you tend
6 to see an acceleration in spending.

7 Q But you just told me a minute ago, the last
8 question I asked, that you didn't do any
9 research to find out what the towns were going
10 to do with the benefit?

11 A You asked me about the specific 31 communities.
12 I'm talking about my general experience and
13 analysis for 20-plus years of looking at
14 property tax trends in New Hampshire.

15 Q Okay.

16 A I didn't look at the specific communities to
17 determine what they might do. That's why I did
18 11 simulations because it was under different
19 scenarios of what they might do with the
20 revenue.

21 Q Understand. I want to understand what, you said
22 your 20-plus years of experience in observing
23 this, but you haven't, I didn't see on your CV
24 any reference to a study or report or

1 presentation or testimony that you had made in
2 the past which would suggest that you performed
3 any sort of scientific analysis of this
4 particular phenomenon. That is, how do towns
5 allocate between spending or tax reduction. Is
6 it fair to say that you have not done that, and
7 you're simply relying on your experience and
8 observations?

9 A I didn't take a position on whether they use it
10 for spending or tax reduction. My point was
11 that you have to at least acknowledge that
12 that's the range of choices and what was in the
13 Kavet & Rockler report was not the range of
14 choices. It was 50 percent increased spending
15 and then 50 percent debt reduction. There
16 wasn't anything associated with tax burden
17 reduction. They didn't even mention it.

18 Q I understand your criticism. I'm trying to
19 understand whether you have done any scientific
20 research or analysis on how towns in general
21 treat this issue. Do they spend it or do they
22 give it back to the taxpayers? Isn't that true?
23 You have not done that scientific research or
24 analysis?

1 A For this report, no.

2 Q Or before.

3 A Oh, sure. I've had a number of cases where I've
4 looked at what communities might do and looked
5 at their trends and have talked to different
6 groups over the years and advised on what might
7 happen with it.

8 Q But I didn't see anything on your CV that
9 suggests that you published anything about that
10 or made a report or made testimony about that.

11 A Well, I did do the statewide property tax report
12 when the statewide property tax first came into
13 effect, and we looked at what might happen in
14 the communities that were donor towns versus
15 receiver towns and what might happen to spending
16 and well-being in those communities from the
17 fiscal impact perspective.

18 Q Now, in her report, Ms. Frayer essentially
19 followed the same approach that Kavet & Rockler
20 used and only assumed 50 percent would go to
21 additional spending, didn't she?

22 A Which report? What are we talking about?

23 Q The Frayer Supplemental. I'm looking at the
24 redacted version of LEI's Supplemental. This is

1 Applicant's Exhibit 102. It's labeled
2 confidential, but I'm not going to show anything
3 that's confidential.

4 So I'm showing you page 51 of LEI's, they
5 called it a Rebuttal Report?

6 A Um-hum.

7 Q And as I see this, and maybe I'm misreading
8 something. I'm certainly capable of that. It
9 appears to me that she took 50 percent and
10 treated it as spending.

11 A Correct.

12 Q And if you look at the table on the next page --
13 Figure 11 and 12, next page, and highlight
14 the tables?

15 And you'll see, again, she in terms of
16 employment impacts and GDP impacts she treated
17 it, she took 50 percent, treated it as spending,
18 correct?

19 A Right.

20 Q Isn't it true that she didn't do a calculation
21 for tax reduction either?

22 A No, but she corrected the misspecification by
23 Kavet & Rockler about the debt reduction. So
24 Kavet & Rockler didn't just put in 50 percent

1 spending as an assumption which is a reasonable
2 assumption. They then took the other 50 percent
3 and modeled it as a debt reduction, which
4 actually the way they modeled it was a reduction
5 in spending. So it was actually a negative
6 impact, and it offset so she corrected for that.

7 Q That's a separate criticism, but I think that
8 Kavet & Rockler will explain that when they get
9 an opportunity to.

10 A Sure.

11 Q But what I'm pointing out is that you criticized
12 Kavet & Rockler for not taking into account tax
13 reduction, and yet that's exactly what Ms.
14 Frayer did as well. She didn't provide any
15 economic benefit for tax reduction either, did
16 she?

17 A That was in my testimony with the calculations
18 of what the savings would be. That's right.
19 And my criticism wasn't that they didn't model
20 it. It's that they didn't mention it, and then
21 they modeled it wrong by treating it as debt
22 reduction. My criticism wasn't that they didn't
23 model it. Again, it's very difficult to model
24 tax reductions in this context in REMI. It's

1 not really set up for it.

2 Q And yet, I think, Ms. Frayer actually testified
3 here that she used it all in spending. 100
4 percent. Didn't she?

5 A This just went blank.

6 Are you talking about the -- she ran two
7 different scenarios. One scenario was 50
8 percent, and she kept the 50 percent on property
9 taxes in both scenarios, but on the business
10 tax, the business income tax, she ran a 50 and
11 100.

12 Q Can you put up page 120 of Frayer?

13 A So for the -- well, you just took it away.
14 Okay.

15 Q Can you highlight the first --

16 This was, I believe Ms. Frayer was being
17 questioned by Attorney Pappas, and she said we
18 assumed that subject to check, but we assumed
19 that all of the estimated property tax revenues
20 that Dr. Shapiro projected would be used but for
21 local government spending.

22 Isn't that what she said? But that's not
23 what she actually did, is it?

24 A Well, I don't know whether this, she misspoke or

1 this was translated, because Dr. Shapiro
2 projected would be used but for local -- I don't
3 know what the but for. I'm not quite sure what
4 this description says. Very clearly what she
5 did is in the previous page you just showed me
6 which was the 50 percent number. That's very
7 clearly what she did.

8 MR. IACOPINO: Peter, can we see what the
9 question was?

10 PRESIDING OFFICER HONIGBERG: Let's see the
11 question and the answer, and we may even need
12 the previous question.

13 Q We'll take it one piece as a time. And
14 highlight the bottom of 22 through 24? You did
15 it. Good for you.

16 Now in your Supplemental Report in
17 estimating or forecasting the economic impact
18 from the payment of property taxes, what amount
19 of tax revenue did you assume municipalities
20 would spend. And she answered, all of it.

21 PRESIDING OFFICER HONIGBERG: Can we take
22 the highlighting off and let people just read
23 the series of questions and answers rather than
24 paraphrasing?

1 MR. ROTH: Certainly.

2 PRESIDING OFFICER HONIGBERG: Now that
3 we've all had a chance to read that, do you have
4 a question for Dr. Shapiro?

5 MR. ROTH: She already answered it.

6 PRESIDING OFFICER HONIGBERG: Okay.
7 Refresh my memory. What was the question that
8 she answered?

9 MR. ROTH: The question was, Ms. Frayer
10 said that all of it was going to be used on
11 spending, but that's not what she said in her
12 report. And she agreed. She only used 50
13 percent.

14 PRESIDING OFFICER HONIGBERG: Oh, I don't
15 think that was the answer to the question. I
16 honestly don't. I'm going to give Dr. Shapiro
17 another crack at that question and see if that
18 is in fact her answer.

19 A What's the question?

20 Q The question was, Ms. Frayer said in her
21 testimony that all of the tax revenue would go
22 to spending, and that in her report she only
23 used 50 percent, correct?

24 MR. NEEDLEMAN: Mr. Chair, I'm going to

1 object. The basis of my objection is I don't
2 think that accurately represents her testimony.

3 PRESIDING OFFICER HONIGBERG: Sustained.

4 MR. ROTH: I'm not sure how that --

5 PRESIDING OFFICER HONIGBERG: Where do you
6 think it says what you think it says?

7 MR. ROTH: Where she said we assume that,
8 and I'll leave out subject to check.

9 PRESIDING OFFICER HONIGBERG: Well, the
10 subject to check is actually pretty important, I
11 think, but let's assume -- you don't want to
12 read that, but I can. So starting with we
13 assumed.

14 MR. ROTH: Okay. We assumed that, subject
15 to check, but we assumed that all of the
16 estimated property tax revenues that Dr. Shapiro
17 projected would be used.

18 PRESIDING OFFICER HONIGBERG: Stop. Stop
19 right there. How much did you project would be
20 used on spending?

21 A We decided to adopt the 50 percent spending that
22 was in the K & R.

23 PRESIDING OFFICER HONIGBERG: Now keep
24 reading.

1 MR. ROTH: But for local government
2 spending.

3 A Right. And it says described on page 69.

4 PRESIDING OFFICER HONIGBERG: So if we want
5 to know what Ms. Frayer used in her analysis, we
6 would go to page 69 of Appendix C of her
7 Supplemental Report, not her subject to check
8 recollection of what she did.

9 MR. ROTH: And we can do that. The
10 ambiguity will thicken.

11 Q Is everybody ready for the rest of it? On page
12 70? So on page 69 and 70, she doesn't say one
13 way or the other what she did with it.

14 A No. It's on the footnotes in the other page you
15 showed that had the actual results of the model
16 show the low tax scenario and the higher and
17 showed in both cases that she used the
18 assumption of 50 percent.

19 Q Correct.

20 A Correct.

21 Q But in her testimony, I submit she said that she
22 used all of it.

23 PRESIDING OFFICER HONIGBERG: All right.
24 You can make that argument. You could argue

1 down the road that that's what that testimony
2 says, and people will be able to make their own
3 judgments about what it actually says.

4 Mr. Needleman, did you have something you
5 wanted to say with your finger up and your mouth
6 next to the microphone?

7 MR. NEEDLEMAN: Yes. I'm going to object
8 to that because it mischaracterizes the
9 testimony, and I will show that in redirect.

10 MR. ROTH: You're going to redirect Ms.
11 Frayer?

12 PRESIDING OFFICER HONIGBERG: Mr. Roth,
13 move on.

14 BY MR. ROTH:

15 Q Now, when you did your tax benefit analysis for
16 the communities, you didn't take into account
17 the possibility or perhaps even likelihood that
18 there would be taxpayers in those towns who
19 would seek abatements because of proximity to
20 the Project, did you?

21 A Mr. Chalmers addresses the issues of impacts on
22 existing property owners, and I believe
23 concluded that there's no material market level
24 impact.

1 Q Okay. So you had seen Mr. Chalmers' analysis
2 before you wrote your report?

3 A No, but when I was retained to do the report, I
4 asked whether, is anybody going to look at
5 whether there is potential impacts, and if they
6 find any, then I need to know what they think
7 the impact would be so I can include it.

8 Q Okay. So when you did your report, you didn't
9 do any independent analysis of what Mr. Chalmers
10 said to determine whether that was credible.

11 A No. Well, I do note that in Kavet & Rockler it
12 seemed like they came to the same conclusion
13 that there is no significant impact because they
14 didn't include it in the model, and they
15 specifically said that in their report.

16 Q But we're talking about your testimony here
17 today.

18 A Right. I left that to other experts.

19 Q Okay. All right. Now, we're going to change
20 subject a little bit, and we're almost to the
21 end here.

22 Can you bring up 354? Now, some years ago,
23 and this goes, you know, really got The Wayback
24 Machine cranked up here, you did a study on tax

1 payments arising from the Portland Natural Gas
2 Transmission System pipeline, is that correct?

3 A It was the fiscal and the economic. I did that
4 in conjunction with Dr. England at UNH, yes.

5 Q Okay. In that you estimated the New Hampshire
6 tax payments, property tax receipts at 32.88
7 million. Does that sound right?

8 A That's 21 years ago. I'd have to look at the
9 page and see what the number is.

10 Q When you did that, you indicated that there were
11 a number of variables and significant room for
12 error because of compounding of early mistakes.
13 Do you remember writing that on page?

14 A If you're reading that, I don't have page 2 in
15 front of me. Sure. Where is that?

16 Q Right there in the middle. The estimation
17 process includes significant room --

18 A Um-hum. Correct.

19 Q And so because of that, you employed simplifying
20 assumptions as you did in this case, correct?

21 A Correct.

22 Q And but in this, in your PNGTS report, you
23 didn't model the economic effects of property
24 tax or income tax payments, did you?

1 A Not using the REMI model. Again, the REMI model
2 is very difficult to model tax reduction so you
3 have to make an assumption that in order to
4 estimate the potential economic impact, you have
5 to make an assumption that it's used for
6 spending. That's really the only tool REMI has
7 for you. So we didn't include that.

8 Q Okay.

9 A Correct.

10 Q Do you consider that to be more conservative?

11 A Well, it depends on what you're looking at and
12 what kind of information. They're really just
13 scenarios to try and get a sense of it. I
14 generally go with not including it as a payment
15 because we just don't have enough information
16 about it, but I don't have a problem with other
17 scenarios. We talked about Mr. Morrissey wanted
18 to include it as 100 percent as a potential.
19 Professor Gittell actually assumes zero spending
20 in his in-plan modeling to be more conservative.
21 He included it. I don't think the 50/50 is an
22 unreasonable assumption that Kavet & Rockler
23 looked at. It was the specification and their
24 discussion about the 50 percent reduction that I

1 took issue with as well as their estimated tax
2 payments had an error in it.

3 Q Have you gone back and studied the actual
4 effects of the PNGTS line on tax revenues to
5 compare it against your estimates?

6 A I did take a look at it. I didn't do a
7 comprehensive study. The Project ended up
8 costing so much more than what I had included
9 that I couldn't distinguish about what I
10 anticipated the tax rates were, whether they had
11 gone up or down or whether it was because the
12 Project had cost so much more. And then I
13 believe some time into it they did some type of
14 upgrade on a compression station so that would
15 have increased the value. So I couldn't get a
16 good sense of how it compared. I do know that
17 the numbers were higher than what I had
18 estimated. Substantially higher.

19 Q And you supported Public Service of New
20 Hampshire with testimony and reports in the
21 scrubber case, isn't that correct?

22 A Correct.

23 Q And did you go back and study the actual
24 economic effects to check your predictions?

1 A I did have a conversation afterward about what
2 they had estimated with the direct number of --
3 this is on the scrubber construction or which?

4 Q Yeah. The scrubber. Yeah, I guess it was the
5 scrubber construction.

6 A Yes. That what's I -- I think I had projected
7 over a thousand jobs with half of them indirect
8 and induced, and I think I did check with them
9 afterward if they had an accounting of how many
10 on-site people there were, and it was in the
11 ballpark of what I had assumed.

12 Again, I didn't do a comprehensive study,
13 but I do tend to go back and try and see looking
14 at the available data whether it passes, it's
15 similar to other studies I keep an eye on as
16 well.

17 Q Is there any way or did you, I guess is the
18 question, did you go back and review whether the
19 GDP effects came out the way you predicted?

20 A I did not. That's extremely difficult because
21 you'd have to isolate out the GDF. I mean, I
22 can go and count the number of people onsite to
23 get the direct employment and maybe you can get
24 some data on what their vendors spend, but in

1 order to estimate the GDP you'd really have to
2 get in and do a comprehensive study of what
3 actually was spent and where in order to -- then
4 actually model the GDF because you can't tag GDP
5 numbers to actually figure out what GDP increase
6 resulted from that project. But you could go
7 and check your assumptions on the inputs.

8 Q Okay.

9 A I did not do that.

10 Q Did you go back and do any review to test your
11 predictions on the PSNH Laidlaw analysis that
12 you did?

13 A Which part of that analysis?

14 Q You made the opinions about economic benefit in
15 the Laidlaw biomass plant, and have you gone
16 back and reviewed and to determine whether those
17 predictions were accurate?

18 A Well, I have kept track with the logging
19 industry and the recent study by Plymouth State
20 University that estimated that there's 900 jobs
21 associated with the 6 independent wood plants,
22 and my study was on the one plant which is
23 smaller than the six combined, but it's about
24 two thirds the size, and I had estimated about

1 250 jobs, and they had estimated 900. So I
2 thought my numbers came out pretty conservative.

3 Q And --

4 A That's the extent of my -- so I continue to
5 watch, and I don't have an ongoing relationship
6 with Laidlaw to be able to determine it, but I
7 have continued to follow as I can as a
8 professional the other studies that have come
9 out on the biomass industry to look at what
10 types of jobs they're projecting and compare
11 that to what I had done.

12 Q And I assume you also did not do a GDP --

13 A No.

14 Q -- check-in?

15 A No.

16 Q Thank you very much. That's all I have.

17 PRESIDING OFFICER HONIGBERG: All right. I
18 saw Mr. Boldt here, but he left, and I'm
19 informed that he decided he had no questions he
20 needed to ask.

21 I think the next group up is the Municipal
22 Group. Who's going to go? Mr. Whitley?

23 **CROSS-EXAMINATION**

24 **BY MR. WHITLEY:**

1 Q Afternoon, Dr. Shapiro. How are you?

2 A Good. How are you.

3 Q My name is Steven Whitley. I represent several
4 municipalities along the route: New Hampton,
5 Littleton, Deerfield, Pembroke, and the Water
6 and Sewer Department of Ashland, and I'm going
7 to ask you a couple questions, but I'm going to
8 start off with a real quick point that Attorney
9 Boldt asked me to cover due to his conflict.

10 A Okay.

11 Q You didn't separately value the improvements to
12 the Coos Loop and the Berlin generators, did
13 you?

14 A No. Well, the improvements in the Coos Loop
15 that are already embedded in the \$1.6 billion of
16 the Project are incorporated into my tax
17 estimates. To the extent there might be other
18 benefits from that improvement either -- because
19 I understand there is a potential that it would
20 increase the tax payments for the wind farm
21 because -- so I didn't look at that.

22 Q Okay.

23 A So I did to the extent it was included in the
24 base cost.

1 Q Okay. And that I think gets to the other
2 question that Attorney Boldt was looking for an
3 answer on, and that is just to confirm that your
4 understanding is that those costs, the Coos Loop
5 and the Berlin generators, were included in the
6 overall Project costs that you were provided.

7 A I believe they were. I don't know if there's a
8 piece of the upgrade. I think they still have
9 to get an ISO report if there's some additional
10 upgrades to the Loop. That's not included. But
11 the base, I think it was something like \$50
12 million that go toward it. That is included.

13 Q Okay. Thank you.

14 I want to step back now and just talk about
15 your background for a second.

16 A Okay.

17 Q You were trained as an economist, and I think
18 you mentioned already you work for a law firm in
19 Concord right now, correct?

20 A Correct.

21 Q And the services that you offer to clients are
22 at least two-fold that I'm aware of; an expert
23 consultant which is what you're doing in this
24 proceeding, and then you also are a lobbyist,

1 correct?

2 A Correct.

3 Q I didn't see in your CV anywhere and I
4 understand from your testimonies that you've
5 done that you're not trained as an appraiser or
6 an assessor?

7 A I'm not. Correct.

8 Q And you're not holding yourself out to clients
9 or this Committee as an appraiser or an
10 assessor, correct?

11 A Correct.

12 Q And you're not licensed in New Hampshire or
13 elsewhere to appraise or assess property?

14 A Correct.

15 Q So you're not offering an opinion of fair market
16 value in any particular community, correct?

17 A Correct.

18 Q And you've never appeared before Superior Court
19 or the BTLA and offered an opinion of value on a
20 particular piece of property, correct?

21 A Correct.

22 Q Could you tell me what percentage of your work
23 in the last three years has been for the utility
24 industry?

1 A I don't know exactly. It's less than 50
2 percent.

3 Q Okay. And a range is fine, and you said less
4 than 50 percent?

5 A Yes.

6 Q Can you put a bottom number on it? More than 25
7 percent?

8 A With this docket? Probably more than 25
9 percent.

10 Q Okay. Well, I would like you to include the
11 present docket.

12 A Right. So, I mean, that's the last three years
13 so yes, I'm sure it's not below 25 percent.

14 Q That's a fair point. Yes. I'm sure they keep
15 you busy.

16 And what percentage of your work in the
17 last three years has been as a lobbyist?

18 A Probably less than a third.

19 Q Okay. And can you put a lower bound estimate on
20 that? More than ten percent, but less than a
21 third?

22 A Yes. I mean there's been a lot of health care
23 issues, and I have health care clients.

24 Q As a lobbyist, my understanding of that clients

1 service is that you advocate for certain goals
2 or positions as directed by your client. Would
3 you go with that characterization?

4 A No. That's usually not my role. Because of my
5 background and my training, I'm often the
6 educator and trying to take complicated
7 material, break it down into something that's
8 understandable, and also understand the other
9 side of the arguments and be able to explain
10 them as well. So --

11 Q Okay. I'm sorry. I didn't mean to cut you off.

12 A No. Go ahead.

13 Q You said educate. Who are you educating?

14 A Legislators. Staff.

15 Q Legislative staff?

16 A Legislative staff. Executive branch.

17 Q You answered previously that you offer two
18 services. Expert consultant and lobbyist.

19 A No. You said those two services. I didn't say
20 that's the only two services I offer.

21 Q No, I'm not meaning to characterize those as the
22 only two you offer.

23 A Okay.

24 Q My point was that you agree that those were two

1 that you offered, two services that you offered.

2 A Expert -- say that again?

3 Q Expert consultant and as a lobbyist?

4 A They are two services that I do, yes.

5 Q How do you distinguish between those two?

6 A How do I distinguish? Well, if I am directly
7 lobbying and I'm part of an advocacy, at the end
8 of the day, if I can't explain and back up my
9 information, then I don't have credibility, and
10 most of my work is about the analysis and
11 writing reports and presenting the testimony
12 about the outcomes. And the difference in
13 lobbying is you get into the process issues of
14 where it is, how to count to the number that you
15 need so you're more targeted in who you're
16 talking to because there's actually a vote at
17 the end of the day with people that you're
18 routinely dealing with.

19 Q And would you say that advocacy on behalf of a
20 client plays a role in your lobbying services?

21 A I really, that's, I usually don't get picked to
22 do that. It's mostly the data and the
23 explanations that are about that and
24 understanding what people's knowledge level is

1 and experience is to be able to try and explain
2 things in a way that a broad diverse group of
3 people might be able to understand pretty
4 complicated industries.

5 Q So over the last three years, your 10 to 30
6 percent of lobbying, you have not been
7 advocating on behalf of your clients?

8 A Well, I mean, advocating, I don't know what you
9 mean advocating. Advocating for an outcome. I
10 don't know what you mean by advocate.

11 Q It's one of the -- I think it's a word that you
12 used in response to one of my questions, and so
13 that's why I'm asking it back to you because I
14 assume that you had a certain meaning in mind
15 when you used that word.

16 A Well, the meaning in my mind is that it's
17 important to disclose who's paying you, and if
18 somebody takes a position on a bill that's for
19 or against, and I'm tagged to testify on it,
20 then I would consider that advocating for the
21 client's position. But in something like, for
22 example, HB 324 which was the property tax bill
23 on assessments, I didn't get involved at all in
24 terms of advocacy, but I was a resource for

1 analyzing what the impacts are and what the
2 options are.

3 Q A resource. Would you classify your work on
4 that as a lobbyist or an expert consultant?

5 A I was a strategic consultant to my client on
6 that.

7 Q You wouldn't characterize that as lobbying for
8 your client?

9 A Well, under the definition of the law of what
10 lobbying is we take a very expansive view. So
11 even if I'm working on something and providing
12 background information on how a bill might work
13 or what the impacts are, and I don't even
14 directly talk to a legislator, I would still
15 record that as lobbying.

16 Q Okay. And in this proceeding, you're a
17 consultant or an expert for Northern Pass as
18 opposed to a lobbyist; is that accurate?

19 A Correct.

20 Q But you're also are and have been a registered
21 lobbyist for Northern Pass, correct?

22 A Correct.

23 Q Dawn, can we go to the Apple TV, please?

24 Is your screen working, Dr. Shapiro?

1 A It's still a pretty picture of the winter.

2 Q That's mine. That's not what I'm asking you
3 about though.

4 A Okay.

5 Q What I'm showing you now is going to be marked
6 as Joint Muni 237.

7 A Okay.

8 Q And I'll represent to you that this is a list of
9 registered lobbyists as of 12/31/2015.

10 A Okay.

11 Q And I obtained this from the Secretary of
12 State's office.

13 A Okay.

14 Q And I'm going to go now to -- you see there the
15 highlighted entry?

16 A Correct.

17 Q And you see there that you're registered as a
18 lobbyist for Northern Pass?

19 A Correct.

20 Q I want to show you now what's going to, marked
21 at Joint Muni 231. This is the same
22 information, but this is on a form that the
23 Secretary of State prepares of lobbyists as of
24 12/5/2016.

1 A Okay.

2 Q You see there your name and registered on behalf
3 of Northern Pass?

4 A Correct.

5 Q I want to show you now Joint Muni 232. This is,
6 again, a form prepared by the Secretary of State
7 lobbyist as of May 24th, 2017, and you see there
8 on the second page your name registered as a
9 lobbyist for Northern Pass?

10 A Correct.

11 PRESIDING OFFICER HONIGBERG: Mr. Whitley,
12 she has agreed with you that she's a lobbyist
13 for Northern Pass.

14 MR. WHITLEY: And I'm not going to ask her
15 again if she's a lobbyist for Northern Pass.

16 PRESIDING OFFICER HONIGBERG: Okay. Good.

17 BY MR. WHITLEY:

18 Q During your time as a lobbyist for Northern
19 Pass, your firm has been paid for their
20 services, has it not?

21 A Correct.

22 Q I want to show you now what's been recorded for
23 calendar year 2015. This is the form that I
24 believe your firm is required to provide to the

1 Secretary of State's office.

2 A Correct.

3 Q You see there this one is marked, the X marked
4 there, activity up until the end of the year.

5 You see here, client, Northern Pass, and you see
6 on Line C, fees received to date, some \$273,000?

7 A Correct.

8 Q And I show you here. This is your signature on
9 the form, correct?

10 A Correct.

11 Q Okay.

12 A Along with everybody who's registered.

13 Q Correct. That's correct.

14 You see here this is a similar form but for
15 the following calendar year. You can see that
16 there. Activity up until 12/31/2016?

17 A Correct.

18 Q On this next page here you see Line C in the
19 middle there, your firm received to date
20 \$127,000, correct?

21 A Correct.

22 Q And again, I'm not going to show you the next
23 page, but it is your signature page again.

24 A Okay.

1 Q Sounds like you agree that you did sign that
2 form?

3 A Yes.

4 Q And then more recently, this one is activity up
5 until May 31st of this year. You see that date?
6 You see the check there?

7 A It says March 31st?

8 Q Did I say May? I did say May. You're right.
9 The third month is March. March 31st, 2017.

10 A Okay.

11 Q And you see there, C, the total up until that
12 date was some \$66,000, correct?

13 A Correct.

14 Q And in 2015, you also prepared your Prefiled
15 Testimony for Northern Pass in this proceeding,
16 did you not?

17 A Correct.

18 Q And in 2016, you responded to Data Requests, you
19 sat for Technical Sessions, isn't that correct?

20 A Correct.

21 Q And in 2017, you prepared your Supplemental
22 Testimony, you observed the cross-examination of
23 other experts before this Committee, and you're
24 sitting for cross-examination yourself, all for

1 Northern Pass, correct?

2 A Correct.

3 Q And yet your firm during that same year,
4 three-year period, has received \$466,000 for
5 your lobbying efforts on behalf of Northern
6 Pass, correct?

7 A That's what the forms say.

8 Q Yes, and that amount of money doesn't, hasn't
9 swayed your opinion one way or another on the
10 testimony and the opinions that you provided?

11 A No. On taxes? No.

12 Q I want to turn now to get into the meat of your
13 testimony and Attorney Roth covered some of this
14 already, but I want to get back to the net book
15 value that you've employed.

16 A Okay.

17 Q Very generally, you know, I think you've already
18 stated that Northern Pass provided you with the
19 total costs of the Project on a town-by-town
20 basis.

21 A Correct.

22 Q And then you made assumption that the fair
23 market value equaled the total Project cost in
24 the first year of operation of the Project. Is

1 that correct?

2 A Well, I didn't include all the costs in order to
3 be conservative. I didn't include the cost
4 associated with rebuilds and relocation and also
5 the cost associated with land. So the base cost
6 that's in my analysis is, I believe it's 1.525
7 billion, not the full 1.6 is the Project cost.

8 Q Okay. And I was going to ask you that and
9 answered that for me. I was going to ask what
10 the difference was between the reported 1.6
11 total cost and your use of 1.5.

12 A Right.

13 Q Thank you. And the tax payments for those first
14 20 years are generally based on this fair market
15 value simplification, correct?

16 A Correct.

17 Q And part of that is straight line depreciation
18 of 2.5 percent for that 20-year period, correct?

19 A Correct.

20 Q And what that looks like, if we had any of the
21 municipalities that you ran the scenario for, is
22 that the tax payments are largest in the early
23 years, and then they gradually decline over the
24 life of the Project, all else being equal?

1 A All else being equal, correct.

2 Q Okay. And those tax payments for any host
3 community decline because they're based on a
4 declining net book value, right?

5 A Right, unless their tax rate goes up enough.

6 Q Sure.

7 A But the base itself, right. And it depends on
8 their spending in the community. If the
9 community is increasing spending faster than the
10 total property value, then the rate is going to
11 go up, too.

12 Q I guess maybe a better way to ask that question
13 would be to add that proviso that all else being
14 equal and those sort of factors don't change --

15 A Yes.

16 Q -- then the payments are declining because the
17 net book value is declining.

18 A Correct.

19 Q But there are other ways to estimate fair market
20 value, and I believe you've already spoken about
21 those, and you mentioned there are five of them.
22 Original cost which is net book value or what
23 you employed, reproduction costs, comparable
24 sales, capitalized earnings, income, or costs of

1 an alternative delivering the same power and
2 energy; is that correct?

3 A It's correct except the second one, the
4 replacement cost sometimes is replacement or
5 reproduction costs. It's also less
6 depreciation.

7 Q Right. I'm trying to simplify.

8 A Sorry.

9 Q You're right, though, yes. Okay. You were not
10 required to use net book value here though?

11 A No. Um-um.

12 Q But that's the only one you've ever really used
13 for a utility client. Is that true?

14 A I haven't recalled previously projecting what
15 the tax payment would be beyond the first year
16 up until this docket. And in fact, in the other
17 dockets I'm involved in currently and most
18 recently I only provided an estimate of the
19 first year. That was the common practice. And
20 if you look back to the previous dockets in
21 front of the SEC, I don't recall ever seeing
22 long-term projection. It was basically the
23 first year based on original costs is by and
24 large the same thing as replacement cost in year

1 1 because there's no inflation yet. And it's
2 really over time where there gets a difference
3 of opinion of what the value is, and what I've
4 seen and what I've done in the past is either
5 assumed the tax stay the same or don't even
6 comment on it.

7 So this was something I departed from from
8 my previous analyses because there's so much of
9 an issue and there's so much litigation going
10 on, I thought it would be important -- and a lot
11 of misunderstanding about what happens over
12 time. So I thought it was important to provide
13 a conservative estimate of at least what the
14 taxes would be over the first 20 years. Not by
15 way of an opinion of value or what would be
16 used, but based on the five allowable methods to
17 provide a conservative estimate so it would be
18 at least this amount that the Committee could
19 take into account when they're considering
20 public interest.

21 Q And I think in your response just now you said
22 this is the first time you've projected out over
23 20 years?

24 A Um-hum.

1 Q Correct?

2 A Correct.

3 Q Didn't you do that in the Portland Natural Gas
4 proceeding as well?

5 A Yeah. I took the simplifying assumption of it
6 just stays the same so which is not really
7 taking an opinion of why it would be the same.
8 So correct. I stand corrected.

9 Q So this is not the first time.

10 A You're right. I agree.

11 Q Okay. Other than those two, have you done
12 anything similar for any other clients or
13 projects?

14 A Well, for clients I've certainly done
15 projections when they're purchasing assets and
16 have been an advisor on what the costs might be
17 over time in a lot of private sector settings,
18 but in reports in front of regulatory agencies,
19 it hasn't been common practice to actually
20 estimate what it might be as a minimum value.

21 Even the Draft Environmental Impact
22 Statement just did a first year and then made
23 the assumption that they would stay the same,
24 but they also said they could decline over time

1 or increase. They didn't really take a strong
2 position on what would happen.

3 Q But for any of those other clients when you've
4 used an approach at estimating fair market
5 value, it's been net book value, has it not?

6 A Not necessarily.

7 Q So you have considered the other four
8 approaches.

9 A Sure.

10 Q And used them.

11 A Again, I'm not an appraiser, but just in terms
12 of possible estimating of costs, I've considered
13 other scenarios.

14 Q Were you present when Mr. Quinlan was testifying
15 before the Committee?

16 A No.

17 Q Have you reviewed his transcript?

18 A I reviewed the interchange that you had and Mr.
19 Boldt. I don't think I read the whole thing,
20 but I did look at the exchanges on taxes.

21 Q Okay. Are you aware or do you recall that he
22 testified that it's the industry standard to use
23 net book value?

24 A I believe he did. I'm not for sure. But

1 subject to check, and if that's what the
2 transcripts say, then I accept that.

3 Q Assuming that is his testimony, do you agree
4 that that's the industry standard?

5 A I don't know. It's very common to use book
6 value, net book value, but there's so much
7 variation across states. I mean, I'm looking at
8 it from 50 states, and within each state you
9 have local jurisdictions. So I did try when I
10 started the Project years ago to see if I could
11 find a really good report that analyzed it of
12 what it is, and it's definitely a very prevalent
13 way of assessing utility property is net book
14 because of the regulatory climate, but I wasn't
15 able to determine whether it's, you know, what
16 percent and how common it is. In New England, I
17 take it face value that for Eversource that's
18 common, but I don't know that.

19 Q Are you aware or do you understand that states
20 do it differently, and, you know, just because
21 that's the approach in, say, Connecticut that it
22 may not be the same one here in New Hampshire?

23 A Sure. The whole issue with New Hampshire is
24 that there's not a specific formula that's

1 described in law so it leaves everything up in
2 the air with a lot of uncertainty and room for
3 disagreement on what the fair market value is of
4 a special purpose asset, that there's not a huge
5 number of comparables, and so there's a lot of
6 unique situations with different types of
7 utilities so it makes it subject to disagreement
8 and uncertainty about what is the fair market
9 value of an utility property, especially ten
10 years after its built. I think there's less
11 disagreement in year one.

12 Q You testified earlier today that Northern Pass
13 didn't direct you to use net book value, but did
14 you suggest an alternative approach to them?

15 A No, because of the uncertainty, and this is to
16 provide in this docket an estimate of what the
17 potential benefits are associated with the
18 Northern Pass tax payments, and in looking at
19 the different methods, I chose the one that is
20 conservative. So it would be at least that
21 amount.

22 Q So I understand you didn't suggest a different
23 approach. Did you yourself consider a different
24 approach to estimating fair market value?

1 A Well, again, the income approach which you would
2 take a discounted cash flow of the whole future
3 payments that would be paid to Northern Pass
4 would yield the same answer as net book value.
5 So under an income approach to value where you
6 looked at the income that's in the docket that's
7 been reported, for example, in the response to
8 Counsel for the Public of what the income would
9 be associated with the Project, mathematically
10 you come to the same number. So the net book
11 methodologically is the same as a discounted
12 cash flow in a simplifying approach.

13 Q And I understand that's your testimony today,
14 but is that stated in your testimony or your
15 Report anywhere?

16 A Sure. I think I said something in my Report
17 about under an income --

18 Q If you want to take a second and just look, go
19 ahead.

20 A I also remember we had a question from the City
21 of Concord one time during the proceedings where
22 I provided that as well. I'm just trying to see
23 where it would be. I'll have to look at the
24 break if you don't mind.

1 Q Okay. I want to turn back to the cost figures
2 now. These cost figures were allocated by the
3 Project to the 31 host communities. That's your
4 understanding, correct?

5 A I'm sorry. Say that again.

6 Q I'll say it again. No problem.

7 The total cost figures were allocated to
8 the 31 host communities by the Project.

9 A Well, it was a combination because they
10 allocated town by town on a per mile basis for
11 the components of the Project that were across
12 towns, and then I did some allocations so they
13 provided all the cost estimates. I did some
14 allocation.

15 Q And we're going to go through that a little bit.

16 A Okay.

17 Q But you said they did it on a per mile basis,
18 and I believe your report or your testimony
19 described it as linear feet?

20 A Correct.

21 Q Is that what you mean?

22 A Yes. Linear feet. Yes.

23 Q Then the station investments, the transition
24 stations, they were allocated directly to the

1 community they were located in?

2 A Not the underground to overhead. They were
3 incorporated into the overall underground cost.
4 They were not separately allocated to the
5 communities, but the Deerfield/Franklin were
6 directly allocated to the communities.

7 Q And the process of taking total cost and then
8 allocating based on linear feet in a given
9 community, that's sometimes referred to as the
10 unit method, correct?

11 A Well, the engineers actually built it up as a
12 labor factor and a material factor associated
13 with each part of the Project and then allocated
14 so you could maybe think of it as a unit, but I
15 really think they, when you look at it, they
16 built the cost up from the bottom in terms of
17 what's the labor and material factor associated
18 with each of the major components of the
19 Project.

20 Q Okay. You mentioned a second ago some of the, I
21 don't want to say allocation but some of the
22 work you did adding to the cost figures that
23 Burns & McDonnell provided to you, and it's my
24 understanding that that mainly comprised some of

1 the indirect costs.

2 A Correct. I didn't estimate the indirect costs.
3 They gave me all the costs, but I had to make an
4 allocation to the communities.

5 Q Dawn, can we go to the ELMO, please?

6 Dr. Shapiro, what I want to direct your
7 attention to, this is your Report.

8 A Um-hum.

9 Q Which is, it's Appendix 44 to Applicant's
10 Exhibit 1, I believe. This is Figure 2 --
11 excuse me. Figure 1. And it lists some various
12 cost elaborate terms in that figure. And when
13 you talked about indirect costs, that included
14 the AFDUC contingency, property taxes during
15 construction and Project support, correct?

16 A Correct.

17 Q And those indirect costs you did allocate to the
18 various communities based on linear feet in a
19 given community?

20 A Well, no, no. Based on their pro rata after
21 Burns & McDonnell took, also because the station
22 costs are not allocated per mile. So if that's
23 what you meant. The HVDC line was allocated per
24 mile. The AC line per mile. But then the

1 stations in Deerfield and Franklin were
2 directly, they did the allocations.

3 Q No, I know. I'm talking about the indirect
4 items.

5 A So the indirects were not allocated per mile.
6 They were allocated pro rata based on what the
7 others yielded for each community. Then
8 whatever share of the total of the direct costs
9 that community had, then they were allocated
10 that share of what you're calling the indirect
11 cost.

12 Q That was my next question. Okay.

13 Are you aware if the value of the easements
14 and the right-of-way for the Project is included
15 in these cost figures?

16 A I believe they are, but I mean, these were all
17 the costs that I was provided unless they were
18 under the land bucket. If they were in the land
19 bucket, then I didn't include land because it's
20 treated a little bit differently in terms of
21 assessing land. So I would have, if they were
22 included in the cost, then they're in here. And
23 they are taxable.

24 Q But you don't know as you sit here whether and

1 to what extent they were part of the cost
2 figures that you received?

3 A Yeah. Which easements?

4 Q The easements for the utility corridor.

5 A So the payments to PSNH? I mean that -- you
6 know, that's a lease payment. Lease payments
7 were included in here, I believe, but I'm not --

8 Q But if I'm hearing you correctly, you're not
9 certain of where exactly they were included?

10 A I'm not. Because if they're part of an ongoing
11 operation, then they wouldn't necessarily be in
12 here, although they would be taxable.

13 Q Okay. You had an exchange with Attorney Roth
14 this morning about whether or not you
15 independently verified some of the cost figures
16 that were provided to you, and I believe your
17 answer was that you did not.

18 A Correct. Did not.

19 Q I'm sorry. I didn't mean to interrupt you.
20 What was your answer?

21 A You're correct. I did not. I'm sorry. I
22 interrupted you. Apologies.

23 Q So for a given municipality, say, for instance,
24 for New Hampton, you're not able to

1 independently verify how many meters of wire are
2 in New Hampton, how many labor hours it's going
3 to take to construct the Project there, how many
4 tons of cement, any of those sorts of potential
5 construction costs?

6 A Well, I mean, it was built up by Burns & Mc,
7 looking at, Burns & McDonnell, looking at the
8 cost allocations for the construction in each,
9 you know, it was allocated by per mile for --
10 I'm not sure what you mean by -- I guess I don't
11 really know what the question is.

12 Q I'm just asking you to clarify, and I think you
13 did already answer the question that you didn't
14 independently verify the costs in a given
15 municipality.

16 A No. I did look at the allocations to make sure
17 they added up, and there weren't any errors as
18 you went into each community across each of
19 these different major buckets of expenses. And
20 to make sure, for example, that some of the
21 indirect costs associated with the rebuilds were
22 not included, they had to be taken out and
23 allocated to what I'd include in my Project.

24 So I looked at more of the spreadsheets to

1 make sure that they added up and that there
2 weren't errors, but I didn't independently
3 assess concrete or labor costs associated with
4 the construction.

5 Q Okay. Thank you.

6 Dawn, can I go back to Apple TV, please?

7 Let me know when your screen comes up.

8 A Okay. Here it is.

9 Q Okay?

10 A Okay.

11 Q This is marked as Joint Muni 240. This is a
12 Supreme Court opinion, PSNH v. Town of Bow, and
13 I want to direct your attention to something
14 that's at the bottom of the page here.

15 Can you read for the record, and read
16 slowly so the stenographer can take it down, the
17 highlighted part in that paragraph that's in
18 front of you there.

19 A "Because the unit method valued the entire PSNH
20 system as a whole and then allocated a portion
21 of that value to each component property based
22 on its net book cost, it failed to focus on the
23 income contribution of the particular property
24 and included the effects of property outside the

1 taxing jurisdiction. Additionally, we have
2 previously noted that changing price levels
3 would render such a method impractical and
4 unfair. The court therefore determined that the
5 unit method was an unreliable means of
6 evaluating specific property. We find ample
7 evidence in the record to support the trial
8 court's rejection of PSNH's valuation method."

9 Q Have you seen this court case before?

10 A Not this particular one but I'm aware that
11 there's been cases where the utilities' expert
12 using the unit method was rejected.

13 Q Are you familiar with the critique that you just
14 read from?

15 A Generally.

16 Q Okay. Isn't it true that your method of
17 allocation assumes some identical assets or
18 costs in the host communities that you were not
19 able to independently verify?

20 A Based on the costs that are available in the
21 planning purposes, the best available
22 information is to allocate by linear foot or by
23 mile. Under construction, you have more
24 information about what the specific costs were.

1 In each community the specific plant that ended
2 up in a particular community.

3 But it's still going to all add up to the
4 total cost of the Project. So you could start
5 at the aggregate level and allocate it and then
6 you can also look at what's in each particular
7 community. And they need to match if you're
8 going to end up with a first year value based on
9 the total cost of the Project.

10 Q I want to turn now to the depreciation rate.
11 That's chosen based on accounting and tax
12 considerations as opposed to the actual physical
13 depreciation rate of the assets. Isn't that
14 correct?

15 A I believe so. I think that's accounting, but it
16 may have something to do with the expectant
17 life. I don't know.

18 Q Okay. You may have covered this with Attorney
19 Roth so I apologize if I missed it, but is it
20 your opinion that net book value is an accurate
21 estimate of fair market value or you're just
22 using that as a simplifying assumption?

23 A I think it really depends on the situation. I
24 mean, one thing is clear with these court cases

1 is that really depends on the particular facts
2 of the case. I mean, when you look at these
3 decisions, you know, in one case the BTLA
4 accepted the unit method, and in another case
5 they rejected it, and they're allowed to do
6 that, and they're looking at what the facts are
7 put forward.

8 So when you look at Northern Pass, it's one
9 Project, going into service at one time, you
10 know, if approved. You don't have generation
11 assets, you don't have multiple types of
12 regulatory jurisdiction. So in some ways, it's
13 more akin to a pipeline in terms of taxing
14 because it's one type of project.

15 But, of course, you get into the details of
16 what's in each particular community. So the
17 court has stated it, and I don't disagree as an
18 economist that there's five general approaches
19 to value. All have their pros and cons. And
20 within each method there's different assumptions
21 and different outcomes that you might get of an
22 opinion of value, even using the same method,
23 and you see that in cases where the two experts,
24 they'll both use replacement cost or they'll

1 both use sales and they come up with pretty
2 different values, and even under net book what's
3 actually included and how you're dealing with
4 it.

5 So, you know, in my opinion of, it's, you
6 know, one method isn't per se right or wrong in
7 New Hampshire law. These are the tools that
8 appraisers have, and it comes out into the
9 situation. I chose a conservative value that I
10 think is a possibility that that will represent
11 fair market value. I'm not saying it's the
12 method or it's more likely or less likely. But
13 you look at one project, their earnings are
14 going to be on net book, it's a 40-year
15 contract --

16 Q If I could just -- you mentioned something that
17 I want to hone in on. You mentioned just now
18 that you don't have any sense of how likely net
19 book value is to be an accurate estimate of fair
20 market value. Am I remembering that right?

21 A Because of the law. I mean, from these court
22 cases, they're not, they've been very clear in
23 my understanding of that they don't pick a
24 method.

1 Q Correct.

2 A So I can't, I'm not picking a method because
3 there's nothing in the law to pick a method.

4 Q Okay. And court cases aside, have you done any
5 sort of work or analysis to see how reliable net
6 book value is at estimating fair market value?

7 A Well, you don't really know fair market value
8 until something is sold. That's really --
9 and then it's got to be an arms-length
10 transaction.

11 Q Again, have you done any sort of analysis to
12 look at how reliable net book value is at
13 estimating fair market value? Say, for
14 instance, after an asset is sold?

15 A I am familiar that in some utility sales they
16 sell at book value and in some utility sales
17 they've sold above book value.

18 Q Okay.

19 A So I am aware of sales that were at book value.

20 Q You mentioned earlier this morning this concept
21 of -- I forget the terminology. Salvage value
22 or scrap value. Do you recall that exchange?

23 A Residual value. Yes.

24 Q Thank you. Residual value is another way to say

1 it. That's not really explained in your report
2 though, is it?

3 A I think that came up in the context of past 20
4 years so that has to do with whether or not it
5 would ever go to zero, and because I'm aware in
6 other states that use net book value as the
7 adopted formula in the state for estimating the
8 value of utility property, and I'm aware in
9 those instances there's often a floor of 30
10 percent so that's why. It's not relevant to my
11 report.

12 Q Okay. Well, okay. You mention other states
13 that utilize net book value, and I think you
14 said a 30 percent floor on the residual value.

15 A Correct.

16 Q Which state was that?

17 A I know Connecticut was one that I was provided
18 by the client, and then when I did my review
19 there was a study done by the DRA in New York.
20 There was a number of states that had that. It
21 wasn't a scientific review. It was just my --
22 again, I didn't make a forecast beyond 20 years
23 or an estimate, but there were circumstances
24 where the Northern Pass needed a 40-year

1 schedule and so --

2 Q So you say you don't have an opinion on beyond
3 20 years. So are you not offering the opinion
4 that after 20 years there's a floor of 30
5 percent?

6 A Well, I do think that, but my report only
7 estimates 20 years. You're now asking me and
8 we've, in rebuttal to Kavet & Rockler who chose
9 to go 40 years, I shared my view of that, but my
10 report is estimating for 20 years to provide
11 that.

12 Q And you mention the example of Connecticut in
13 something provided by the client. What did they
14 provide you? Was it a statute, a law?

15 A I believe one of the attorneys, I asked if there
16 was a precedent that they were aware of with a
17 floor because in my economic view, and my
18 experience in New Hampshire, I just frankly
19 can't imagine anybody ever letting it go to zero
20 for taxable basis if it's still in use. I
21 just -- it doesn't happen.

22 Q There's no corollary. Are you aware of any
23 corollary in New Hampshire to what you were
24 provided in Connecticut?

1 A There's no rules. There's no set formula in New
2 Hampshire.

3 Q So that's a no.

4 A Right. There's no formula in New Hampshire.
5 It's all case specific.

6 Q Do you understand, though, that by using the
7 first 20 years and doing that very simple
8 mathematical 2.5 percent a year, it's very easy
9 to extrapolate from that and go out to 40 years
10 where I think you testified, you agreed this
11 morning, that the net book value is zero?

12 A Correct.

13 Q So if that's the case, I mean, why not include
14 in your report something to the effect that
15 there is a floor for how much this property
16 could be worth in these communities?

17 A That's beyond the 20 years, and in terms of my
18 report, I felt that, I mean, it's iffy enough
19 forecasting in general with a crystal ball and
20 with changes in law and changes in technology.
21 So to go beyond 20 years, I did not want to
22 provide an estimate. I just didn't think
23 that's -- it's too much uncertainty.

24 Q Is it your understanding that any towns that

1 have utility assets in them use a 30 percent of
2 original cost floor?

3 A I don't know. I don't know what their Assessors
4 do. I mean, again, because in most cases you're
5 not just going to look at net book value.
6 You're going to look at the income approach.
7 And if you're still earning income on the assets
8 over time, then under that approach they're
9 going to be valued. Under replacement costs
10 you're going to have inflation. So again,
11 because there's these five different methods,
12 there's chances that it would be more than the
13 net book in any particular year.

14 Q I want to put up for you now the Prefiled Direct
15 Testimony of George Sansoucy. Are you familiar
16 with his testimony?

17 A I am.

18 Q Okay. This is from November 15 and this is SAN
19 1 which has been provided already. I want to
20 turn your attention to a question and answer
21 that he gave. And you see there on the top of
22 the page, the question?

23 A Page 28?

24 Q It's on page 28. Yes. Sorry. It's on page 28.

1 You see that there?

2 A Yes.

3 Q I'm going to minimize this to kind of get more
4 of the answer on one screen, but if you want me
5 to go back up to the question let me know.

6 I want you to take a look at, though, that
7 first sentence on line 1 and 2, and then skip
8 down to lines 15 through -- got to minimize it
9 again, sorry, just so that it's all there. 15
10 through 21.

11 A Is there a question?

12 Q Well, yeah, but I wanted to give you a chance to
13 read it first.

14 A Okay. Yes.

15 Q So you're done reading it?

16 A Thank you. I'm done reading it.

17 Q Okay. Mr. Sansoucy's Testimony here, his
18 Prefiled Testimony, is that there are actual
19 examples in New Hampshire where the net book
20 value goes far below that 30 percent floor that
21 you cited. And that that's the dilemma a lot of
22 my clients and the other represented
23 municipalities are facing is that under the net
24 book value methodology, there's a concern of

1 what happens after 20 years, after 40 years.
2 And so I don't think it's an academic
3 conversation.

4 A No. I agree. It's a real concern. I'm well
5 aware of the concern.

6 Q But it's sounds like you'd agree that there are
7 instances in New Hampshire where the net book
8 value does go below 30 percent as indicated here
9 by Mr. Sansoucy?

10 A Well, let's just make sure we're clear. Net
11 book value is in accounting. By definition, it
12 will keep depreciating until zero except to the
13 extent there's added plant. So if you mean for
14 tax valuation purposes that it goes below 30
15 percent? I mean, I just want to make sure I
16 understand your question. If you can restate
17 that.

18 Q Well, you're hitting on it. I mean, I think
19 what Mr. Sansoucy is getting at here, and I
20 don't want to testify for him, but the utilities
21 are taking the position that the net book value
22 is the correct estimate to fair market value,
23 even when it is at a point where it's below,
24 say, 30 percent of the original cost.

1 A Well, I don't know if that's what this says here
2 because it says by definition it's depreciated
3 there. I don't know what the, it doesn't say
4 here what the assessed value is or what the
5 utility's position was. Maybe that's on the
6 next page or something. I mean, this just says
7 as a factual matter.

8 First of all, this was, it looked like it
9 was a faster depreciation than 40 years because
10 after 26 years it was only 7 percent left. So
11 if it's on a 40-year schedule it should have
12 been just little bit less than 50 percent. So
13 that must have been a different depreciation
14 schedule. This itself doesn't tell me what the
15 assessed value is. So it's a fact that the book
16 value is down to 12 million. It doesn't say
17 what the assessed value is.

18 Q Okay.

19 A Maybe it was 30 percent. I don't know what the
20 assessed value is from this paragraph.

21 Q Okay. You described your report earlier this
22 morning and the, I think it was 11 scenarios
23 that you ran.

24 A Yes.

1 Q And you describe some of the differences in
2 between those various scenarios. But for all of
3 those scenarios, you still utilized the net book
4 value method and straight line depreciation,
5 correct?

6 A Well, those 11 scenarios were for year 1.

7 Q Right.

8 A Right. So there is no depreciation in year 1.

9 Q Um-hum.

10 A So year 1 is original cost. So I did for my 11
11 scenarios, taking a lower view of cost. I only
12 included the 1.5 to 5 billion in my analysis.
13 So I did 11 scenarios to estimate the range for
14 the first year. When I did do scenarios over 20
15 years, correct, I only used the net book value.

16 Q Okay. You mentioned earlier, and I just want to
17 make sure I understand your response, that it's
18 your understanding that the Project is expected
19 to continue functioning beyond 40 years,
20 correct?

21 A I don't know. I'm not an expert in the lives of
22 transmission projects.

23 Q Okay. The 2.5 percent rate, that applies to all
24 types of assets in a given community. So it's

1 the same rate for the H-Frame, the monopole, the
2 conduit, the transition stations, the converter
3 terminal, the substations. It's the same for
4 all the services in a given community.

5 A Well, not land. The land is not included in my
6 analysis.

7 Q Okay.

8 A I believe the 2.5 percent was universally
9 applied, and that's the accounting treatment.

10 Q So that's a yes then, other than land?

11 A I believe so. Other than land. But I don't
12 really know for sure that that's correct. I
13 believe it is correct that they're all treated
14 the same 40-year depreciation schedule.

15 Q Okay, and that 2.5 percent rate, that's not
16 based on the physical condition of the asset,
17 it's age, how it actually depreciates in the
18 field. I think you just testified that it's an
19 accounting figure.

20 A It is, but I don't know what the standards are.
21 Usually, the depreciation schedules are supposed
22 to have something to do with the life of the
23 project, but there's also different policies.
24 It looked like that previous line you were

1 talking about had a much quicker depreciation
2 schedule than 40 years to be down to 7 percent
3 in year 26. I know that wind farm sometimes
4 have a 7-year depreciation or 10-year because of
5 the Production Tax Credits and it's the private
6 sector and they're not subject to the same
7 regulatory accounting.

8 So I don't know as a factual matter in
9 accounting whether, what the requirements are
10 between a depreciation schedule and the useful
11 life of the project. I don't think you can just
12 make it up. It has to have some bearing in the
13 performance. I'm not an expert in that area.

14 Q And in one of your prior responses you addressed
15 one of my questions, and that is land, the land
16 value or the right-of-way value is not part of
17 your report.

18 A The land value, the land purchases are not
19 included or the land easements, no.

20 Q No, I don't mean the land purchases. I mean the
21 occupancy of a right-of-way that a given
22 municipality would assess. That's not part of
23 your projection, your lower end projection.

24 A I'm just not sure -- are you talking about a

1 lease payment or -- I mean, we've talked about
2 that most of the Project is in or a big part of
3 it is in a PSNH utility right-of-way. So I'm
4 not sure what you're talking about specifically.
5 And then the other --

6 Q Let me back up and ask it this way. You just
7 mentioned a second ago that land was not
8 included.

9 A The purchased land was not included.

10 Q Okay. Thank you.

11 A The purchased land. And that may have also
12 included some purchased easements. I don't
13 know. That whole, that's that whole bucket of
14 costs I chose not to include. It would be
15 taxable. It would make the numbers higher than
16 what I've included. But I took, again, a more
17 conservative view.

18 Q And is it your opinion that the land that these
19 utility assets is going to occupy will also
20 depreciate at 2.5 percent?

21 A No. Land doesn't depreciate.

22 Q Okay. You know, I showed you a Supreme Court
23 case from earlier. That one was from, I'll
24 represent to you just so, that was from 1994.

1 There's been several others involving utilities,
2 and, in particular, PSNH, and I'll represent to
3 you, and we'll talk about some of them shortly,
4 there was PSNH versus New Hampton in 1957.
5 Appeal of PSNH in 1984, PSNH v. Bow which we
6 looked at previously from 1994.

7 So for -- back up. In each of those cases,
8 the methodology that the utilities used was net
9 book value. Are you familiar with that history
10 of PSNH utilizing net book value?

11 A Again, I don't know -- the more recent cases,
12 what I have seen, for example, in the Bow case
13 in the Superior Court where the Town lost, and
14 now they're appealing that to the Supreme Court,
15 the Utility's appraiser did utilize both a net
16 book, sales and income approach. I believe. He
17 definitely used sales approach, he might have
18 done a reproduction actually. So I don't know
19 in all these cases. Most of the time the
20 appraisers are using more than one method.
21 They're not required to. And I don't know if
22 those older cases, I don't know what the Utility
23 appraisers did, but I do know in the more recent
24 cases, you see more than one method employed.

1 Q Would you agree that for PSNH, Eversource, that
2 one of the methodologies they typically employ
3 is the net book value?

4 A Yes.

5 Q Okay. I'll represent to you and I think Counsel
6 for the Public may have mentioned an exhibit
7 that many municipalities over that 50-year time
8 frame have declined to use net book value.
9 Would you agree with that?

10 A Well, actually, it's interesting that you say
11 that because I think right now we heard in
12 Technical Sessions, and I don't disagree with
13 this, and I've heard this in public hearings,
14 that about a third of the communities are
15 utilizing DRA's value which is not just net
16 book. They also do an income and sales approach
17 as well and primarily income and cost method.

18 Q How much of those municipalities are host
19 communities?

20 A Well, I know Canterbury because I live there,
21 and they are still using the DRA value. I
22 haven't looked at which of the 31 communities
23 take DRA's value or have hired their own
24 appraisers that have come up with something

1 different. But that's changed over time. When
2 I looked at this data years ago, maybe about 8
3 years ago for a different project, in the
4 aggregate it looked like net book was about what
5 the value was when you added it up across all
6 communities. I believe that's changed more
7 recently. The communities have hired
8 appraisers, and they've won these cases. So I
9 think that's a more recent acceleration of that
10 trend.

11 Q The Supreme Court decisions that I just
12 referenced and it sounds like you're generally
13 aware of, they all predate this Project, do they
14 not?

15 A Which ones?

16 Q The four that I just mentioned with PSNH as one
17 of the parties.

18 A Sounded like the years, you said they were
19 older, right.

20 Q And they predate your Original and Supplemental
21 Testimonies as well?

22 A Correct. Well, the ones you've cited have all
23 been prior to 2015. I mean, there's more cases
24 since.

1 Q I want to show you now, this is a discovery
2 response, this has been marked as Counsel for
3 the Public Exhibit 155.

4 A Oh, here's the earnings.

5 Q I'm sorry?

6 A Nothing.

7 Q Is that showing up on your screen?

8 A It is.

9 Q Okay. You see at the top there is the Data
10 Request.

11 A Um-hum.

12 Q Are you familiar with this request and this
13 response?

14 A I'm not -- generally. I don't remember this one
15 specifically, but I generally think so.

16 Q Do you recall if you helped prepare a response?

17 A I think probably. I'm not a hundred percent
18 sure, but it looks like language that I've used
19 and seen.

20 Q Take a second and review it and just confirm for
21 me that you agree or disagree with what it says?

22 PRESIDING OFFICER HONIGBERG: Off the
23 record.

24 (Discussion off the record)

1 A Do I generally agree with this?

2 Q Yes.

3 A Yes, I agree with that statement. Generally
4 agree with the statement, yes.

5 Q And do you see that the question was asking for
6 the industry standard. Correct?

7 A Yes.

8 Q But there's nothing in that answer that provides
9 a basis or a source that net book value is the
10 industry standard in there.

11 A I don't see anything in there. Right.

12 Q Okay. I want to turn now to one of the other
13 Supreme Court cases that I mentioned. That's
14 the Appeal of PSNH case. You see that on your
15 screen there?

16 A Yes.

17 Q Been marked as -- I'm sorry.

18 A Is this 1984? Is that what we're talking about?

19 Q This one is yes. 1984.

20 A Okay.

21 Q And it's Joint Muni 233. And I'm going to go to
22 a page here. Just bear with me.

23 You see that highlighted part at the bottom
24 of that column?

1 A Yes.

2 Q Take a second to read that and let me know when
3 you're done.

4 A Yes.

5 Q Would you agree that the language in this court
6 case is pretty similar to the response in the
7 Data Request that we just viewed about when the
8 use of net book value is compelled?

9 A I guess so. Yes.

10 Q Are you, I assume, let me know if I'm wrong,
11 that you're aware of the Supreme Court's
12 language about net book value being compelled
13 only when regulations are so extensive to make
14 sale above net book value impossible.

15 A I am familiar with this language, correct, yes.

16 Q Is that why you've decided to use net book value
17 because you believe that there are regulatory
18 conditions that exist that make it impossible to
19 sell above net book value?

20 A As I've stated previously, I chose net book
21 value because of the five methods. It's a
22 conservative lower estimate to provide the
23 Committee and the Public and the Towns with a
24 minimum estimate to make sure that they can have

1 a predictability and in factoring in their
2 decisions that the value would be at least this
3 amount.

4 Q So is that a no?

5 A I don't know. I don't have an opinion on this.
6 It may be true that on Northern Pass that's FERC
7 regulated that it would fit under this
8 definition. I don't know.

9 Q Okay. So you're not offering any opinion or
10 testimony about the presence of regulatory
11 conditions that may or may not restrict sale to
12 net book value?

13 A Again, not as an opinion on value. As an
14 opinion of why and part of this is one of the
15 methods that's allowed, and that's why I used
16 it. I don't have an opinion on whether or not
17 this is controlling in this case.

18 Q I'm not asking you whether it's controlling in
19 this case. I'm asking you whether you're
20 providing any testimony or opinion on whether
21 you believe there are regulatory conditions
22 which restrict sale to net book value.

23 A I'm not sure.

24 Q Okay. Are you aware that the PUC has approved

1 sales of utility assets above net book value?

2 A I am.

3 Q And the PUC's own rules allow such sales, do
4 they not?

5 A Mostly because I read the decision where they
6 said it's discouraged or you won't get the
7 acquisition premium back, but it's not
8 disallowed.

9 Q Okay.

10 A But that's the PUC. This is a FERC-regulated
11 project. So it's a different regulatory agency.

12 Q Okay. But I thought your prior testimony was
13 that you're not offering an opinion on
14 regulatory conditions.

15 A No, but you just said about the PUC and Northern
16 Pass is about FERC. That's a fact.

17 Q Okay. You're not providing any information or
18 testimony on whether or not a utility could
19 benefit from PUC or FERC regulations, are you?

20 A No. I'm not.

21 Q Wouldn't you agree that such regulations provide
22 certain benefits to the regulated utilities?

23 A Well, that's the only way you can build
24 something is under the regulatory model. We

1 haven't deregulated transmission lines.

2 Q So is that a yes?

3 A If there's not a choice, then it's a, yes,
4 conceptually there's benefits, I guess,
5 because --

6 Q Let me ask it this way. Are you aware that
7 utilities can obtain service monopolies?

8 A Sure. Yes.

9 Q Are you aware that utilities can recover from
10 their rate based operation and maintenance,
11 power expense, income taxes, deferred federal
12 income tax, property tax, depreciation,
13 amortization?

14 A Prudently incurred. Yes.

15 Q Are you also aware that they get a return on
16 equity as well?

17 A That utilities get a return on equity if there's
18 an allowable. Whether or not they learn it,
19 they may not, but there's an allowable. Are we
20 talking about the PUC or FERC regulated? I
21 mean, is this just general questions about
22 utilities or are we talking about Northern Pass?

23 Q That's okay. I'm going to move on.

24 MR. WHITLEY: This is a good time.

1 PRESIDING OFFICER HONIGBERG: We're going
2 to break for lunch. We'll come back at 1:30.

3 (Lunch recess taken at 12:27
4 p.m. and concludes the **Day 23**
5 **Morning Session**. The hearing
6 continues under separate cover
7 in the transcript noted as **Day**
8 **23 Afternoon Session ONLY**.)
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C E R T I F I C A T E

I, Cynthia Foster, Registered Professional Reporter and Licensed Court Reporter, duly authorized to practice Shorthand Court Reporting in the State of New Hampshire, hereby certify that the foregoing pages are a true and accurate transcription of my stenographic notes of the hearing for use in the matter indicated on the title sheet, as to which a transcript was duly ordered;

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

Dated at West Lebanon, New Hampshire, this 27th day of July, 2017.

Cynthia Foster, LCR