STATE OF NEW HAMPSHIRE

PUBLIC UTILITIES COMMISSION

October 14, 2014 - 1:55 p.m.

Concord, New Hampshire

AFTERNOON SESSION ONLY

RE:DE 11-250
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE:
Investigation of Scrubber Costs and
Cost Recovery

PRESENT: Commissioner Martin P.Honigberg, Presiding Special Commissioner Michael J. Iacopino

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Sandy Deno - Clerk

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AFTERNOON SESSION 1 (Resumed at 1:00 p.m.) 2 CMSR. HONIGBERG: 3 Ms. Goldwasser, I have a question. Do you have 4 any other documents like the last document 5 we were talking about that you would go over 6 7 with other witnesses? I'm talking about 8 things you think that the Company should have produced that it didn't produce. 9 MS. GOLDWASSER: I'm thinking 10 11 hard about your answer [sic], sir, just so that I make sure that I answer correctly. 12 I have a 2010 document that is 13 14 similar to the one that we just discussed that I didn't use because the one that we discussed was 15 16 much more relevant to the facts of this case. Ι 17 wasn't planning on asking any witnesses about that 2010 document. But it would have been 18 19 responsive to the discovery requests. 20 CMSR. HONIGBERG: Okay. 21 MS. GOLDWASSER: I can't think 22 of anything. I mean, this resulted from 23 literal Google searches. 24 CMSR. HONIGBERG: Okay. I

would ask counsel over here, what process did you all go through to respond to the requests regarding reports?

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MR. BERSAK: When data requests are made of the Company, there is a rigorous team approach to making sure that we provide, you know, responsive and complete answers. With respect to this kind of data request, where there was a need to go to other operating companies, a number of us, including myself, made calls of the usual suspects over there as to who would have this data. Now, is there data available? I can represent that I personally made phone calls to folks at Yankee Gas to find out what they would have had during the relevant time periods. know that Mr. Smagula made those efforts, as well as others on the team that were responding to data requests. possible, or is it even likely, given what we saw, that perhaps Yankee Gas subscribed to EVA back in 2008? It appears that they Now, does that mean we didn't make the did.

attempt to find it? No. We've had, since 1 the merger with NSTAR, significant turnovers 2 in personnel and who's responsible for what. 3 You know, practically my entire Scrubber 4 team that started this case is now working 5 at Liberty. I was going to subcontract this 6 7 case out to them, you know. But trying to find information --8 CMSR. HONIGBERG: I think 9 Staff has that problem, too. 10 11 MR. BERSAK: Yeah. So, you know, did we make a good-faith effort to 12 find the information? Yes, we did. Did we 13 14 miss something? Perhaps. Did we refuse to 15 comply? No, we did not. 16 (Commissioners conferring.) 17 CMSR. HONIGBERG: We're going to wait until we're done with Mr. Smagula, I 18 think, before ruling on Ms. Goldwasser's 19 20 motion. We're going to hear from the rest 21 of the questioning and have our questions

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So, who was next?

Okay.

answered and redirect.

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Fabish.

- Line 1 on Page 33. There you make the
 statement, "Carbon regulation will increase
 everyone's costs, not just those at
 Merrimack Station." Is that correct?
- 5 A. Yes, that's the first part of the sentence.
- Q. Uh-huh. Okay. And could you explain what you mean by "everyone" in that statement.
- 8 A. Generating facilities that burn a
 9 carbon-based fuel -- gas, oil, coal -- will
 10 all have a incremental compliance cost due
 11 to emerging federal regulation.
- Q. Okay. So when you say "everyone," that is
 excluding -- that's excluding things like
 nuclear generation, hydro generation, wind
 generation, solar generation, things that
 don't burn carbon-based fuels; is that
 right?
- A. Those facilities may not have that if they
 don't have a carbon-based fuel for their
 primary purposes of generating electricity.
 So you're right.
 - Q. Is it your understanding that all carbon-based fuels when combusted emit the same amount of CO2 per unit energy?

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- A. No. Different facilities will burn
 different amounts, depending on a number of
 factors: Their design or their capacity
 factor.
- Q. That wasn't quite my question, so let me rephrase. I apologize again for the confusion.

All else being equal -- boiler

efficiency, dispatch, et cetera -- do all

types of carbon-based fuel emit the same

amount of carbon dioxide when combusted for

unit energy?

- A. The gas-fired generating facilities

 generally have a lower emitting rate than

 their counterparts to burn a solid fuel or

 liquid fuel.
- Q. So if I said that -- scratch that.

When you refer to a "solid fuel," are you referring to coal?

- 20 A. Coal or a liquid such as oil. I said solid 21 or liquid.
- Q. Sure. How much more CO2 per unit energy does coal emit than, say, gas?
 - A. It depends on the efficiency of the

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         facility. It could be anywhere from 40 to
         50 percent or -- well, let's see. Let's say
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         a coal plant could burn... let me put it a
3
         different way. A gas-fired plant would burn
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         50 to 60 percent the amount, depending on
         the coal plant design. With some of the
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         newer coal plants, efficiencies are getting
         such that, that difference is becoming
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         smaller.
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- 10 Q. Is Merrimack Station one of those new coal plants?
- 12 A. No.
- 13 Q. And Merrimack Station burns coal; correct?
- 14 A. Yes. Yeah.
- 15 Q. All right. Switching gears a little bit.
- 16 Could I ask you to take a look at Page 24 of
- 17 your rebuttal testimony. I've got a couple
- 18 questions for you that refer to the
- 19 materials starting at the bullet point at
- 20 Line 15.
- 21 A. Page 24. I believe that was part of the
- 22 text that's been stricken.
- Q. Has it been? I thought that the stricken
- part ended at Line 5. But I could be

[WITNESS: SMAGULA] 12 1 mistaken, and so I apologize. CMSR. HONIGBERG: Mr. Sheehan. 2 MR. SHEEHAN: The copy we 3 have, the strike ends at Line 5 as well. 4 5 CMSR. HONIGBERG: So that part has not been struck. 6 7 MR. SHEEHAN: Correct. 8 CMSR. HONIGBERG: All right. BY MR. FABISH: 9 Are you offering to strike it now? 10 11 Α. No. CMSR. HONIGBERG: Lawyer's 12 humor for you. 13 BY MR. FABISH: 14 15 Q. Okay. Well, then, referring to that 16 section, could you tell us now what the current assessment of the Merrimack Station 17 is for tax purposes by the Town of Bow? 18 Boy, you know, I don't think I recall the 19 Α. specific valuation amount for the Town of 20 21 Bow, off the top of my head. 22 Without speculating, could you offer a 0.

A. No, I would prefer not to.

general number?

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1 Q. Okay.
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- A. I don't have any idea.
- 3 MR. FABISH: So I have
- 4 something I'd like to offer as an exhibit if
- 5 I could. I guess this would be 38.
- 6 (The document, as described, was herewith
- 7 marked as Exhibit 38 for identification.)
- 8 CMSR. HONIGBERG: Okay. Let's
- go off the record for a second.
- 10 (Discussion off the record.)
- 11 CMSR. HONIGBERG: All right.
- 12 Let's go back on.
- 13 BY MR. FABISH:
- 14 Q. So, Mr. Smagula, I know you didn't write
- this document, but I thought maybe it would
- 16 help refresh your memory.
- 17 A. Yes, it's very helpful. Thank you.
- 18 Q. All right. If you can look at the second
- 19 page of the docket -- or document. If you
- look, there's a little advertisement in this
- 21 newspaper article or periodical article for
- 22 Smile Masters. If you look to the left of
- that, the lowest paragraph immediately to
- the left of that, starting in 2012, the

- plant was assessed at 143.5 million in 2012.

 Does that number sound right to you?
- A. Yes, and I'm very glad I didn't take a guess

 at what the price was -- the estimate was.

 I would have had a lot lower number.
- Q. Okay. And then this year, given that the
 date of this is November 12th, 2013, it says
 the assessed value has been 93.5 million.

 Is that also accurate, to your knowledge?
- 10 A. That's what the article says.
- 11 Q. Yeah, but does that sound right to you?
- 12 A. Yes.

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- Q. All right. And is PSNH challenging the value assessment of the value of the property for tax purposes by Bow?
 - A. Well, PSNH is always -- whenever a tax assessment comes up for renewal, we always participate with the town and the town's agent to come up with what's the relevant and proper amount. I'm not familiar with us involved in challenging it at the moment.

 But that doesn't mean it's not occurring. I don't currently get involved in those activities.

- Q. Okay. So you wouldn't have any knowledge about that at all.
- A. Not at present. I believe there may be some discussions going on with one or more of our plants. There often is some discussions going on with towns with one or more of our plants. I believe there is some discussions with the Town of Bow, but that's the extent of my knowledge.
- Q. Okay. Is there another witness that would have knowledge about that, that you think I should direct these questions to you?
- 13 A. Not here.
- 14 Q. Okay. Thank you.
- MR. FABISH: I think those are
 all the questions that I have. Thank you.

 CMSR. HONIGBERG: Ms.
- 18 Frignoca.
- MS. FRIGNOCA: Having
 conferred with Zach over the lunch break,
 and cognizant of our instructions to work
 together, I have no questions.
- 23 CMSR. HONIGBERG: Delightful.
- Mr. Iacopino.

1 SP. CMSR. IACOPINO: Thank

2 you.

INTERROGATORIES BY SP. CMSR. IACOPINO:

- Q. Mr. Smagula, I would like to talk with you about the secondary wastewater treatment system. I believe that you indicated on cross-examination that the decision was made to construct the secondary system, and you gave us a date, which I believe you said was November of 2010; is that correct?
- 11 A. Yes.
- 12 Q. And if I understand your testimony, you've
 13 had sort of a lengthy history of issues with
 14 the EPA with the existing NPDES certificate;
 15 is that correct?
 - A. Yes. The existing permit that we are currently operating under was last issued in 1997. And after five years of operation, you are to apply and get a new permit. And we did do that on a timely basis; however, the EPA had not responded and issued a new permit or a new draft permit until 2011.

 So, in order for us to have an incremental or added discharge, we would normally go to

- the EPA and say we're going to have this
 intermittent discharge, and they would
 modify the permit, or give you a separate
 special permit. They would work with the
 facility to accommodate their operational
 needs.
- Q. And prior to knowing you're going to have an incremental discharge, which I understand you say is small, in any event, did you have any other reason to be seeking a change in your permits at that facility?
- 12 A. No.

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- Q. Okay. When did you learn you were going to have this increase in the incremental discharge?
 - A. As soon as the Project began. And we pursued and got all of the necessary permits to do the construction, and then we focused on operational permits. And as I indicated previously, we spent over a year, I'd say close to a year and a half, working with the state DES on, once we understood the guarantees provided to us from the primary wastewater treatment facility, the volumes,

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the constituencies and the make-up, and the guarantees they were going to provide us, we then had the data to go to the DES and start talking with them about our discharge permit. And we spent over a year going back and forth over excruciating detail to eventually come to an agreement and conclusion that the treated effluent from the primary system would be satisfactory to meet the standards for water quality that the state supported. During that time, the state had discussions with EPA. So there was awareness of our intent and our efforts and our focus. But upon going to them formally, that's when things changed, and a new opinion was provided to us from EPA as to how this would proceed in their view.

- Q. If I understand correctly, this particular issue was managed by Public Service itself, correct, not by your EPC contractor?
- A. No, the EPC contractor provided technical assistance to us with some experts. But we have always, as a company, pursued our relationships with state and federal

- 1 agencies directly.
- Q. And when I was reading your prefiled

 testimony from June 15th, 2012, and the

 attachments to it, there's the Beck Reports

 that were filed every month. Are you

familiar with those?

7 A. Yes. Yes.

- I'm just curious, because I noted that 8 Q. starting in January 2010, there was 9 10 references to the wastewater treatment --11 secondary wastewater treatment facility. And there were notes, such as "preparation 12 was begun on a request for proposals for 13 providing additional FGD WWT systems to 14 15 limit the discharge of small quantities and 16 various elements in the Project wastewater effluent." 17
- 18 A. Yes.
- Q. So, is that what you're talking about when you were dealing with DES?
- A. With the DES, they required us to put on
 additional filtration equipment on the
 primary wastewater treatment system to get
 certain elements to a level that they felt

was acceptable. But we were concerned about the ultimate approval of the EPA. And as a result, even though our primary discharge philosophy and direction was to have that primary wastewater treatment facility effluent discharge, we were concerned, and we started exploring what would happen if that was not easily achieved.

And I think I'll just say that that was the philosophy upon which we managed the entire project. We always had a course of direction, and I think it was with proper conviction and proper basis. However, we anticipated what risks there were and what potential problems could occur, and we were always exploring those, because if we wanted to make an adjustment and have to have a change, then we were further down that path.

- Q. All right. So you then eventually hired
 Siemens again, or SESS, and they basically
 became responsible for the construction of
 the secondary?
- A. No, we worked with Siemens to provide additional filtration on the primary

wastewater treatment system. However, when it became clear that that effluent was not going to be allowed to be discharged and we were going to have to install and make -- build an additional building and put in additional, different equipment to further treat the water, we went with a company that had experience with that technology, and that was Burns & McDonnell. So we went with a different company for our engineering and design and construction.

- Q. And if I understand correctly, you dealt
 with the issue of not being able to
 discharge for some period of time by just
 basically hauling the wastewater to
 publicly-owned wastewater treatment plants;
 is that correct?
- 18 A. That's correct.

- 19 Q. And do you know yourself, or do you know if
 20 there is a document that would inform us as
 21 to what the cost of doing that are -- were
 22 at the time and what they might be at
 23 present?
 - A. There is a document that has some of those

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costs. I don't have it with me. We kept a log of how many vehicles were used and the fees associated with where they went.

They'd go to different locations.

The concern with continuing down that path was that we had numerous discussions with the Town of Bow regarding truck traffic. They were concerned about truck traffic. And if you look at our information, as far as the quantity of trucks needed to haul water from the primary wastewater treatment system, the secondary would be significantly less. Greatly -- a great amount less. It was approaching 500 to 600 trucks a day. That's, you know, 20 trucks -- 500 to 600 per month. Excuse me. Per month. That's maybe 20 trucks a day. So you're going to really have to be loading trucks almost continuously, 24 hours. are not open 24 hours. So there are logistic challenges. There are town trucking traffic issues. There's costs. There's a lack of control over the ability to continue to bring in this liquid to these facilities. There are a number of risks and costs and concerns that entered into our -- and among other things, that entered into our overall assessment.

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- Q. Was any economic analysis done comparing running the plant on hauling the wastewater away as compared to spending the additional capital on building a secondary wastewater treatment system?
- Α. I wouldn't say that there was a rigorous analysis made. However, if you look at the risks associated with continuing to haul trucks, one truck an hour, almost 24 hours a day, every day, I think that's not a reasonable expectation that is sustainable, especially with the Town of Bow concerned about traffic and about the other facilities being opened just to receive our effluent. And it allowed too many variables to be out of the control of the Company; whereas, with the secondary system, we could have a much significantly less amount. We could manage the effluent, and we could do it -- but also, if we couldn't do that, and we had

problems with risks with the primary system,
the Project -- the facility -- the Scrubber
facility may not be able to operate if we
have nowhere to put these large volumes, and
it would shut the plant down.

- Q. Let me go back to that point in a minute.

 But let me just talk about -
 (Court Reporter interrupts.)
- 9 Q. I want to put the plant shutting down aside
 10 for a moment. But when you -- would you
 11 say, then, that the primary reason why the
 12 choice was made to construct the secondary
 13 wastewater treatment system was because of
 14 the concern that you had about truck
 15 traffic?
 - A. That was a primary concern in the short term. But we saw too many other risks that would perhaps ultimately stop the trucking totally if POTWs would change their mind or for some reason have a difference of opinion as to receiving the liquid. We would lose control of our ability to bring it somewhere. So we had to reduce the volume to better manage it.

- Q. Talk about the truck traffic for a minute again, though. Did you sit down and have any types of meetings with Bow or --
- 4 A. Yes.

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- Q. -- Franklin or wherever you were taking the materials to, to those towns, to discuss the amount of truck traffic?
- We met with all of the POTWs involved that Α. we dealt with, and we met with the Town of Bow on numerous occasions on trucking -- for a number of topics. We have trucks for gypsum. We have -- and that was one of the reasons we put in the truck wash, in order to minimize truck traffic. We had construction trucks. We had -- I'm trying to think of what other volume of material we had. Anytime we had to change our truck patterns bringing coal to the facility from Schiller, from South America, the town paid extra attention and was very concerned about incremental truck traffic on not only River Road and Johnson Road, but on Route 3A. truck traffic was a high sensitivity issue with the town on any issue.

- Q. And how does the truck traffic with respect to the hauling of the wastewater compare to the other truck traffic that you see at the facility both before and after the construction of the facility? I'm not so much concerned about construction trucks.
- 7 A. Right, right. I would say the truck traffic
 8 would be significantly increased due to this
 9 primary water trucking.
- 10 Q. You said the price for -- well, the
 11 additional costs for the secondary
 12 wastewater treatment system was about
 13 \$32 million.
- 14 A. About \$35 million.
- 15 Q. Thirty-five?
- 16 A. Yup.

- Q. And there's been some discussion here this
 morning about the change in the price
 estimate. Did that change in the wastewater
 treatment system have anything to do with
 the increase from \$250 million to the \$457
 million estimated project cost?
 - A. No, because the need to pursue a secondary wastewater treatment system was not

- determined until approximately 2011, which
 was three years beyond the new estimate of
- 3 457.
- 4 Q. Another question I have is, I understand
- 5 that as part of the process of the FGD
- 6 process you actually create a byproduct
- 7 known as gypsum; correct?
- 8 A. Synthetic gypsum, yes.
- 9 Q. And you sell that product; correct?
- 10 A. We do.
- 11 Q. And I guess it's considered to be synthetic
- 12 gypsum?
- 13 A. Right. That's correct.
- 14 Q. And it's sold to wallboard companies and
- 15 places like that?
- 16 A. We have a contract with Georgia-Pacific in
- 17 Newington, New Hampshire.
- 18 Q. At the time that you put -- well, after
- 19 putting the Scrubber into service and before
- 20 filing here -- and before filing for your
- temporary rates, do you know how much gypsum
- you had manufactured or how much byproduct
- you had produced?
- 24 A. I'm sorry. I don't have that number in

hand. We have a large building that it's

stored in, and trucks are moving that. But

when our units are running, the trucks are

running that with high frequency.

- Q. And what is the price that you generally get for gypsum? Do you know? Is it usually sold by the ton?
- A. It's sold by the ton. I think it's on the order of \$6 or \$7 per ton, and then there's a trucking cost associated with it.

The key reason, however, for removal of the gypsum is because, if it was not developed as a wallboard-grade gypsum -- which it is and meets all the federal standards -- if it were not for that, we would have a large amount of off-spec gypsum with no receiver, and we would be spending 20 times the cost per ton to dispose of it. So it's -- we're not necessarily trying to make money. We're trying to avoid a huge expense.

- Q. How do you account for the money earned from selling the gypsum?
- A. That's all a credit to customers.

- 1 Q. Is it?
- 2 A. Yes.
- 3 Q. Okay. Do you --
- A. There's a trucking cost and there's a cost
- 5 to bring it there. So, any of the net
- 6 positive or negative proceeds of that is
- 7 part of our operating budget, our expense
- 8 budget.
- 9 Q. So it would be an operating item?
- 10 A. Yes. But as I indicated earlier, because
- it's a cost -- or a credit associated with
- the Scrubber, it's in a deferred account,
- and we're not collecting that from
- customers. It's part of the deferral.
- 15 Q. Until this proceeding is resolved.
- 16 A. Yes.
- 17 Q. So that the ratepayers will get whatever
- 18 credit there may be from the sale of the
- 19 gypsum from the facility.
- 20 A. Yes.
- 21 Q. Is the secondary wastewater treatment
- 22 facility, is that operational now?
- 23 A. It's fully functional, yes. We continue
- to -- because this technology is extremely

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new to the United States -- there's probably
1
          only a half a dozen facilities, perhaps
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          eight in the world that have used this; it's
3
          a technology that's been used in other
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          industries, but adapted to Scrubber
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          effluent. There's only a handful. And we
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7
          have gone through a number of
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          troubleshooting and tuning. So it is
          functioning well now. We think it will
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          continue to function better going forward.
          But we did have a lot of not unusual
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          activities associated with scaling and
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          things like that until we balanced the
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14
          chemistry. So it's a very complex chemistry
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          equation we're solving from the Scrubber to
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          the primary wastewater, to the secondary,
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          and it's very challenging.
          Can you tell me, then, why it is you still
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     Q.
19
          want to discharge effluent, why you're still
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          looking for the NPDES permit if it's working
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          well?
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          Because we think the facts and the data
     Α.
          support that ability. And we also -- if
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          that is not able to be achieved, and there
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- is an upset or a malfunction or something goes wrong with the secondary system, we need to be able -- we would like to have the flexibility from an operations' viewpoint to take an effluent that is deemed acceptable to the state to be able to be discharged at least for periods of time.
- Q. So what's the first plan of action, though?

 Is it -- let's assume you get your NPDES,

 which I know is an assumption. Is the first

 plan of action to use the secondary

 wastewater treatment system and simply take

 the solids that wind up off site, or is it

 to discharge in the first instance and only

 use the secondary wastewater treatment

 system as a backup?
- A. Well, the secondary system does still have effluent. It still has a small amount of liquid that comes out of it. That's not -- we recycle it as best we can, but there is always some residual material. And I think our intentions are to await the NPDES permit and then see what allows us -- what allows the flexibility. I think the costs for that

- secondary system, as far as our savings and
 other expenses, we have far more than offset
 that customer cost for the secondary system.

 But ultimately, depending on the final
 permit, will determine what's the best
 course of action for customers.
 - Q. But it sounds to me like one of those could be that the secondary water system will not be used very much.
- 10 A. I don't know what the likelihood of that
 11 will be from --
- 12 Q. But that's what could happen; is that
 13 correct?

8

9

14 That is a potential possibility. Α. 15 final NPDES permit is not expected for quite 16 a while. As I indicated earlier, it's 17 recently been reopened, which is a little unusual, and it may even be reopened again. 18 Ultimately, a final permit will be issued. 19 20 And I suspect, based on our experience, no 21 matter what is issued in that final permit, 22 it will be appealed. And there's two levels 23 of appeals processes. So this secondary 24 system is going to be in full use for many,

- 1 many years to come.
- Q. Assuming all your predictions about appealscome true again.
- A. Yes, and I believe that's one of the
 assumptions that I feel pretty good about.
 Or bad about. I'm not sure which.

[Laughter]

- Q. And I have one other question. This is just to satisfy my curiosity. In your rebuttal testimony, you made the claim that there are 135 New Hampshire Supreme Court decisions that deal with the term "statutory mandate."

 And did you do that research yourself?
- A. I didn't do it myself. But I think,

 actually, the number is 137. But I did

 review that document to validate it.
- Q. Did you review all 137 New Hampshire Supreme
 Court --
- A. No, I had a summary of the cites. But it
 was about eight pages long, highlighted. It
 was highlighted to make it easy on me to
 check the count.
- SP. CMSR. IACOPINO: Mr.
- Chairman, I have no other questions.

```
34
1
                         CMSR. HONIGBERG:
                                            I have a
2
          few.
     INTERROGATORIES BY CMSR. HONIGBERG:
3
          Looking at Mr. Long's deposition and Exhibit
4
     Q.
5
          7 to that deposition -- that is, the draft
          cost estimate analysis for PowerAdvocate --
6
7
     Α.
          I have it, yes.
8
     Q.
          -- there are the two tables and then graphs
9
          that were generated from those tables.
     Α.
          Yes.
10
          The "levelized concept," which is the
11
     Q.
          triangle on the graphs, can you explain
12
          "levelized" in this context?
13
14
                "Levelized" means that, in simple
     Α.
          Yes.
15
          terms, when you're comparing
16
          project-to-project, every project is a bit
17
          different. It's site-specific. And I can
          identify the six or eight specific items
18
          associated with Merrimack Station that make
19
20
          it unique from others. But in order to
21
          compare scrubber to scrubber, you have to
22
          have some basis of getting them on an equal
23
          playing field. For example -- and I guess
```

I'll take a second here. It's worth the

effort to understand.

Merrimack Station has one scrubber for two units. That's not uncommon. But it's often one-on-one. We have two different-size boilers. The boilers are pressurized. They don't have induced draft fans. The boilers are cyclone-fired, which is also unusual. They have SCRs on both units to reduce NOx emissions. The site was very constrained with regard to where the Scrubber could go, and we had to bring ductwork around to the Scrubber while we still had an operating railroad line receiving coal underneath these elements.

So you have to take out the incremental costs for the site -- and this was a mercury Scrubber. All these other Scrubber are generally for removal of sulfur. So this absorber vessel, the big heart of the Scrubber equipment, was wider in diameter, was taller, and it had incremental design features on its internal. So it was unique for this site. Well, if you try to discount all these site-specific elements to get it

- to be vanilla or be an apple so you could

 compare it to other apples, normalizing it

 is making it so you could compare apples and

 apples.
- Q. In both charts from the exhibit to the Long deposition, and also in the Attachment 3 to your June 15th testimony, the table that's associated with the chart has for Merrimack Station's cost the 354, just under the \$355 million number.
- 11 A. Right.
- Q. You testified earlier that that number is a partial -- you said a "partial cost."
- 14 A. Yeah.
- 15 Q. It doesn't include everything.
- 16 A. Yeah.
- 17 O. Why is the full number not used here?
- A. Because every company's cost of capital,

 every company's overhead, every company's

 approach to doing the engineering work is

 also a bit different. So they try to get

 just the hardware. They try to get it down

 to something that is analogous from project

 to project. And that's why we went from a

- site-specific to a levelized. And when that
 is done, we get in the ballpark of all -- of
 the other facilities.
- New topic. The large spreadsheet that is 4 Q. Exhibit 31, and Exhibit 32, which has --5 which is a data response, but it has 6 7 attached to it a presentation that was 8 prepared by somebody at PSNH for use -- I don't think you knew where -- regarding 9 10 Senate Bill 152. So it's Exhibits 31 and 11 32.
- 12 A. Yeah. I don't have that.
- 13 Q. Okay. That's 31. Do you also have 32?
- 14 A. I'm sure I do. I just have to figure out -15 I don't mark them.

16 (Pause)

17 0. If you could turn to Page 24 of the presentation that's in Exhibit 32. I think 18 you were asked questions about it earlier. 19 20 It's the one that has the statement that, "PSNH customers could be on the hook for 21 22 \$300 million in stranded costs with nothing 23 to show for it." Is there a relationship 24 between the statement in that document and

```
1 the spreadsheet?
```

- 2 A. No.
- Q. They certainly -- they seem to be talking about the same topic.
- 5 A. They could be talking about costs for the
 6 customers, but there's no correlation with
 7 those two numbers.
- Q. How was the number in Exhibit 32 developed then?
- 10 A. Which number? The 230?
- 11 O. The 230.
- 12 A. The 230 was the costs that were committed.
- 13 It's the sum of all of the values of all the
- 14 purchase orders that have been issued. It
- 15 wasn't how much had been spent on each one.
- 16 It wasn't the cancellation cost. It was the
- 17 sum -- if we took all the purchase orders
- 18 that had been issued, as to what the full
- amount was, that's where that number came
- 20 from.
- Q. Then what's Exhibit 31? That's the big spreadsheet.
- A. This exhibit was developed by a team of engineers and professionals under my

guidance. It utilized the services of two
to three URS project experts who worked on
this Project for many years. And it used
three or four people who worked for PSNH on
the project our project team for many
years. And we spent a lot of time
developing a spreadsheet for every major
contract and every minor contract, looking
at when the contract was issued, the cash
flow for every contract, the type of
contract, whether it was labor-intensive or
whether it was material-intensive, and other
aspects of it. And we did an analysis on a
contract-by-contract basis, based on when
the contract was issued, what the scope of
work was, and over what period of time that
work would have occurred. And we developed
a cost to if we were to stop that
contract at any given month, how much would
the cost be to do that. And the report that
accompanied this large spreadsheet is about
18 pages long and simply explains our
methodology in very clear detail. And we
developed costs that were for money spent,

money that was either paid or booked, costs in liabilities, payment of all tangible contractor and vendor work that was completed. Because when you release a contract, a lot of these vendors go to subcontractors, and they start building pumps and tanks, and you have to go in and shut all those down.

What were reasonable and customary termination costs? In the first page of my report it talks about termination expenses, settlement costs, immobilization, reasonable mark-up, things that are in our contracts typical for our industry and our business. And there's also stationary remediation costs.

And we asked ourselves these series of questions for every purchase order on the calendar -- of each purchase order within the calendar of the whole project, and we went through excruciating detail to develop a methodology to assess this. And we built up a series of dozens of spreadsheets which then summed this spreadsheet. And

- eventually, this became -- this wasn't 1 really designed to be, you know, discussed 2 in this forum. It was really a working 3 document. But we were able to get through 4 5 it, I think, pretty well with some questions today. So we developed all the costs and a 6 7 lot of other information, and then 8 eventually from that we broke our costs into four categories that were also discussed 9 here. 10
 - of the page?

 A. Yes. The terminology used there is a little

12

20

21

22

23

24

Q.

Are those the four categories at the bottom

- A. Yes. The terminology used there is a little
 awkward. But it's money spent, project
 costs and liabilities, reasonable and
 customary termination costs, and station
 remediation and project area mothballing.
 Those were -- that was the analyst's jargon
 for what those four were.
 - Q. Now, when you talked about those four with Ms. Goldwasser, she directed you to a couple entries that had boxes around them in purple under September '08 and November '08. Do you remember that?

```
1 A. Yes.
```

- Q. And I think that she and you talked about
 the four numbers below each of those
 figures --
- 5 A. Yup.

- Q. -- being added together to get to thosefigures.
- 8 A. Correct.
- Now, I was playing around with this, and 9 Q. 10 that seemed to hold until the next page, 11 under June of 2010, because if you add the numbers together under June of 2010, which 12 is the third to the last column, and it 13 seems that all columns afterwards, they 14 15 don't sum anymore. Those four figures below 16 don't add up to the figure that's just above 17 So I'm wondering -- and this may be totally insignificant. But since my 18 attention was drawn to it earlier and I 19 started looking at it, it doesn't seem like 20 21 the numbers add up anymore. So tell me if 22 I'm wrong, or if I'm right, what it means.
 - A. Let me look at this just for one moment, please.

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(Witness reviews document.)
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- A. I believe the difference is in the line above the 308,000. It's the \$25 million amount. But I'm hard-pressed to recall... let me see if...
- (Witness reviews document.)
- Q. Tell you what. Why don't we go to something else. And we're going to probably, after your counsel has a question -- has an opportunity to ask you some questions, maybe take a break. Maybe you'll be able to look at that during the break --
- 13 A. Okay. Yeah.

2

3

4

5

- 14 Q. -- and then we'll finish and close that out.
- 15 A. I'm sure I have a reasonable answer, but not at the moment.
- 17 Q. All right. You were asked about the valuation of the plant for tax purposes. 18 think from that Concord Monitor article that 19 20 you were shown printed off the Web, it looks 21 like the last valuation was done last fall. 22 If property tax cycles are what they are, 23 usually you should be getting a new 24 valuation pretty soon on that.

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[WITNESS: SMAGULA]
                                                           44
1
     Α.
          Yes.
          Do you have any idea what that's going to
2
     0.
          be?
3
               But whatever the outcome of that will
4
     Α.
          be, there will be a discussion, and it'll --
5
          I can't predict what the ultimate number
6
7
          would end up being.
                         CMSR. HONIGBERG: I don't have
8
          anything else.
9
10
                (No verbal response)
11
                         CMSR. HONIGBERG:
          Iacopino, do you have anything else?
12
13
                (No verbal response)
14
                         CMSR. HONIGBERG: Counsel, do
15
          you have redirect?
16
                         MR. BERSAK: Yes, I do.
                                                   Thank
17
          you, Mr. Honigberg.
                         I want to first commend both
18
19
     of you Commissioners for reading my mind. You
20
     did a great job of going through many of my
21
     redirect questions, so there'll be much less than
22
     there would have been.
23
                    REDIRECT EXAMINATION
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E 11-250 [Day 1/Afternoon Session ONLY] {10-14-14}

24

BY MR. BERSAK:

- Q. I would like to just fill in a couple more details with respect to the NPDES permit,
- 3 Mr. Smagula, that you were asked about by 4 Commissioner Iacopino.
- 5 A. Yes.
- Q. First of all, is it correct that the current
 NPDES permit under which Merrimack Station
 is operating actually expired on June 27,
- 10 A. Yes.

9

1997?

- 11 Q. I believe that you had originally testified 12 it was issued in 1997.
- And is it correct, then, that EPA has
 been responsible for renewing that permit
 since that 1997 expiration date?
- A. Yes. It's something they've been working on, I guess, for that period.
- Q. In light of that, is the need for an NPDES

 permit something that would exist, even

 without the Scrubber Project having been

 installed?
- 22 A. Yes.
- Q. When did NPDES finally issue a new draft permit for Merrimack Station?

- 1 A. September 30th, 2011.
- Q. Was that before or after the Scrubber went into commercial operation?
- A. Two days after the Scrubber went into commercial operation.
- Q. So you're saying it took over 14 years for
 EPA to renew an expired permit?
- 8 A. To issue a new draft of the permit, yes.
- 9 Q. Since that September 2011 draft permit was
 10 issued, has the EPA issued a new draft of
 11 that same permit?
- 12 A. In that draft permit there were a number of
 13 technical flaws associated with it, both
 14 from a science viewpoint and legal concerns.
 15 Our comments were extensive, as were
 16 comments from other parties. The EPA

17 received those comments in February of 2012

and was assessing all of those inputs to

determine what they would do with the final

20 permit. One aspect in their draft permit

21 was their interest in putting some

22 additional treatment equipment on our

wastewater effluent. We challenged their

24 technical recommendation on a number of

- bases. And a few months ago, the EPA opened 1 their draft permit proceeding, removed their 2 technology and imposed an additional, 3 different technology in their modified draft 4 permit. That proceeding is still in a 5 review and comment phase which ultimately 6 7 will close soon, and then the EPA will go about their business assessing not only the 8 original comments on the draft permit but 9 the new comments on the draft permit. 10
 - Q. In the new, modified draft EPA NPDES permit, did they include a restriction that would require the operation of a secondary wastewater treatment facility in order to allow the Merrimack Station to go into commercial operation?
- 17 A. Yes. They specified that we should install
 18 the equipment that we had installed.
- Q. Are interested parties now submitting comments to EPA on this new draft?
- 21 A. Yes.

12

13

14

15

16

- Q. Do you know whether EPA might issue yet another draft of this permit in the future?
 - A. We did not agree with many of their

scientific and technical and economic conclusions, and we responded to them with an equal level of specific questions and concerns, similar to what we did on their original draft permit. So, while I'm not sure what they will do, I would not be surprised if they were to consider our comments, because I believe we are perhaps one of the most expert in this technological field of secondary wastewater treatment in the country. And I would not be surprised if they accepted those comments and had to rethink some of their conclusions. So it would not be surprising if it were reissued again, in my view.

- Q. Is EPA right now in the process of issuing new regulations that would limit water emissions, such as those from Merrimack Station?
- A. There are a number of EPA decisions that have emerged and have potential to emerge which affect cooling water systems.
- Q. Do you have any idea when the EPA might actually issue a final NPDES permit for

1 Merrimack Station?

2

3

4

5

6

7

- A. No. But as I indicated previously, based on the length of time they take to review our comments and the comments of others, and their subsequent decisions and issuances of final permits, potential appeals, I think it could go on for many, many years.
- 8 Q. Until a final permit is issued, what's the 9 status of the permitting requirements for 10 Merrimack Station?
- 11 A. We remain in full force with the existing
 12 permit that had been in place for a long
 13 time.
- Q. And that's the permit which the EPA refused to reopen to allow Merrimack Station to operate without additional water treatment?
- 17 A. Yes.
- Q. You were asked a question by Commissioner
 Honigberg regarding the \$355 million price
 that appears in the PowerAdvocate report
 that's attached to Mr. Long's deposition
 exhibits that's been marked as 27-7. Do you
 recall that?
 - A. Yes.

- Q. And you said that the \$354- or \$355 million estimate was made "because we needed to compare apples to apples."
- 4 A. Yes.
- Suppose that you and I -- we both live in 5 Q. Bedford. Suppose we both went out and 6 7 bought new cars. We're going to buy Mercurys, because I think that would be 8 appropriate for this proceeding. Now, 9 10 you've got a lot more money than I do, so 11 you pay cash. I have to go to that Payday Loan thing on South Willow Street in 12 13 Manchester to finance it. If we're going to compare the cost of the cars and see whether 14 15 we got a good deal or not, would you include 16 my financing costs in that comparison?
- 17 A. No.

- Q. Is that kind of what you were trying to sort of explain when you said that those kind of costs were taken out in order to compare our price for the Scrubber equipment to others around the country?
 - A. That's one example of the types of costs that would be appropriate to levelize true

costs to compare apples and apples, yes.

squares and the triangles.

- Q. If you recall, there was also a couple
 graphs that Commissioner Honigberg brought
 your attention to in 27-7, the ones with the
- 6 A. Yes.

5

- Q. All the other plants represented on that
 graph were diamonds. Do you know if any of
 those diamond plants were scrubbers designed
 to remove mercury or which had
 mercury-removal guarantees from the
 suppliers?
- 13 A. No.
- Q. No, you don't know or, no, they don't have guarantees?
- 16 Α. I don't know specifically. But I guess I will say that the Merrimack Station 17 Scrubber, to my knowledge, was the first 18 mercury Scrubber specifically designed for 19 20 that element in the country. 21 suspect -- I don't know for a fact, but I 22 suspect all of the rest were the traditional 23 sulfur, SO2-removal scrubbers.
 - Q. One final question. You were asked a

1		question by counsel for Sierra Club	
2		regarding the assessed value of our facility	
3		in Bow, New Hampshire. If Merrimack Station	
4		was retired or was unable to operate, do you	
5		have an opinion of what would happen to its	
6		assessed tax value for the Town of Bow?	
7	A.	Well, Merrimack Station is assessed based on	
8		its function, which is to provide	
9		electricity to customers in New Hampshire at	
10		PSNH. So if it is unable to fulfill that	
11		mission, I think the facility could not	
12		operate. And as a result, one of the key	
13		criterias that is looked at for value	
14		assessment is its capacity factor and its	
15		use for customers in the state. So I	
16		suspect the assessed value would plummet.	
17	Q.	Thank you, Mr. Smagula.	
18		CMSR. HONIGBERG: I think	
19		that's all we have for now, subject to the	
20		desire to try and figure out what's going on	

So, can we take a few-minute break and give everybody a chance to come back in about 10 minutes to finish the questioning, and

with that spreadsheet.

```
1
     then we'll strike the I.D. from whatever exhibits
     need to be struck -- I think I've got it written
2
     down -- and then move on to the next witness?
3
     Does that sound right?
4
                                      If we could talk
5
                         MR. BERSAK:
          about, before you go, the next witness.
6
7
          we're talking about getting back here
          sometime after 3:00, I don't think it will
8
          be possible to get all the way through Mr.
9
          Frantz. But we do have a swing witness, Mr.
10
11
          Chung, who I think we definitely can finish
12
          up with today, and we can start fresh with a
          new witness tomorrow, if that makes sense to
13
14
          everybody.
15
                         CMSR. HONIGBERG:
                                           Does that
16
          make sense to everybody else?
17
                         MR. SHEEHAN:
                                       That's fine with
          the Staff.
18
19
                         CMSR. HONIGBERG:
                                          Wait.
                                                   Ms.
20
          Goldwasser has a concern.
21
                         MS. GOLDWASSER:
                                          I'm just not
22
          sure if we'll be able to get through Mr.
23
          Chung today but --
24
                         CMSR. HONIGBERG:
                                           Well, I
```

```
mean, we may break wherever we break.
1
2
          if someone's on the stand and we break, it's
          not the end of the world. We come back and
3
          finish.
4
5
                         MR. BERSAK: We definitely
          won't finish with Tom, but we might with
6
7
          Eric. So, whatever works best.
8
                         CMSR. HONIGBERG: Any other
9
          opinions? The plan would be to go with Mr.
          Chung when we get back? All right.
10
11
          we'll come back shortly after 3:00.
                (Whereupon a recess was taken at 2:55
12
               p.m. and the hearing resumed at 3:11 p.m.)
13
14
                         CMSR. HONIGBERG:
                                           I gather
15
          there was discussions about how to proceed
16
          during the break. So, my understanding is
17
          that Mr. Smagula was not able to resolve the
          issues with the spreadsheet in the short
18
19
          time he had, and I understand that. What we
20
          can do is we can basically wrap him up
21
          otherwise. And if there's a relatively
22
          straightforward, simple explanation from
23
          that, counsel can make an offer tomorrow or
          the next day as to what the situation is
24
```

```
with that. If we need to bring him back to
1
2
          explain that, we can do that. But as far as
          we're concerned, Mr. Smagula's going to be
3
          done. And we'll deal with the exhibits in a
4
5
          minute.
                         I also understand there was a
6
7
     concern about bringing Mr. Chung up right away,
     and that's fine. We can -- the plan was to have
8
     Mr. Frantz start, and we can have Mr. Frantz
9
     start. We can get to wherever we get, and we'll
10
11
     break right around 4:30 and pick up tomorrow
     morning at that point. I know there's scheduling
12
     limitations on tomorrow, at least one or two of
13
     tomorrow's witnesses, and we'll deal with that as
14
15
     we have to.
16
                         So, is there anything -- did I
17
     get that correct?
               (No verbal response)
18
19
                         CMSR. HONIGBERG: All right.
20
          So, is there any objection to striking the
          identification on the exhibits that were
21
22
          used during Mr. Smagula's testimony?
23
          don't know that I have a complete and exact
          list of what those were.
24
                                     It seems to me it
```

		56
1	was 11 and 12, which were his June testimony	
2	and his rebuttal testimony. There was a	
3	part of, or exhibits from, I guess, the	
4	deposition; is that right? Were there any	
5	other what's happening with that exhibit?	
6	Is it just the exhibits that were used that	
7	were I.D.'d and are going to be put in at	
8	this time?	
9	Mr. Sheehan, you seem ready to	
10	say something.	
11	MR. SHEEHAN: I was going to	
12	say I don't know.	
13	CMSR. HONIGBERG: You're in	
14	the same shape I am.	
15	MR. BERSAK: What was the	
16	question? I'm sorry.	
17	CMSR. HONIGBERG: Well, we	
18	used parts of the deposition transcript	
19	we didn't use the transcript. We used the	
20	exhibits from the deposition. Is it just	
21	those exhibits that are going in at this	
22	point as exhibits for our purposes in this	
23	hearing, or is it the whole transcript and	
24	all the exhibits?	

	57
1	MR. BERSAK: I believe that
2	the entire transcript and all the exhibits
3	have been marked for identification.
4	CMSR. HONIGBERG: How? The
5	question is: What are we striking? From
6	what are we striking the I.D. and making
7	full exhibits at this time? Ms. Amidon.
8	MS. AMIDON: If I may? I
9	don't think the Commission should do
10	anything at this point. Perhaps at the end
11	of this week we can agree to what to offer
12	as exhibits. But I don't believe Staff, for
13	example, has looked through everything and
14	agreed with everything being introduced as
15	an exhibit. I mean, customarily, as you
16	know, the Commission waits we have a big
17	volume here
18	CMSR. HONIGBERG: I was hoping
19	to try to get some of that knocked down.
20	MS. AMIDON: Maybe that's one
21	thing that the parties can talk about
22	tomorrow morning and present a solution to
23	you tomorrow. But that's what I would
24	propose.

		58
1	CMSR. HONIGBERG: Works for me	
2	if it works for everybody else.	
3	MS. AMIDON: And with respect	
4	to tomorrow, you are correct. There are	
5	some scheduling concerns. The witnesses	
6	from Jacobs Consultancy are only available	
7	tomorrow. And I'm looking to the Consumer	
8	Advocate.	
9	MS. CHAMBERLIN: My witness is	
10	available he's flying in tonight, and	
11	he's available all day tomorrow. And I	
12	believe he's available Thursday morning.	
13	MS. AMIDON: So that's just	
14	for your information as we go forward. And,	
15	you know, we'll probably give you friendly	
16	reminders of things going away that might	
17	interfere with that schedule. Thank you.	
18	CMSR. HONIGBERG: Okay. So,	
19	then, are we done with this at this point	
20	and ready to call Mr. Frantz? All right.	
21	(WHEREUPON, THOMAS C. FRANTZ was duly	
22	sworn and cautioned by the Court	
23	Reporter.)	
24	THOMAS C. FRANTZ, SWORN	

1 DIRECT EXAMINATION

- 2 BY MR. SHEEHAN:
- 3 Q. Your name, sir.
- 4 A. Thomas C. Frantz, F-R-A-N-T-Z.
- 5 Q. You're sure it's not Steven Mullen?
- 6 A. Iam.
- 7 Q. Okay.
- 8 A. That may change, though, during the course
- 9 of this examination.
- 10 Q. And your occupation, sir?
- 11 A. I'm the Director of the Electric Division
- here at the Public Utilities Commission.
- 13 Q. And can you give a very brief overview of
- 14 your background.
- 15 A. I came to the Commission in 1989; 25-1/2
- 16 years as an analyst first -- well, largely
- as an economist first and then analyst, and
- 18 then chief economist. When the Commission
- 19 restructured, I was assigned the Electric
- 20 Division as its Director. And I've
- 21 testified numerous times before this
- 22 Commission on cost of capital, rate design,
- general ratemaking.
- Q. And in this proceeding, you have the chore

- or obligation or joy to adopt another
 person's testimony; is that correct?
- 3 A. That is correct.
- 4 Q. And that other person is whom?
- 5 A. That person is Steven Mullen. He was -- at
 6 the time the prefiled testimony was filed
 7 with the Commission, he was the Assistant
- 8 Director of the Electric Division.
- 9 Q. And you are here today to adopt Mr. Mullen's10 testimony.
- 11 A. I am.
- 12 Q. Can you tell us what involvement you may
- have had in drafting and preparing Mr.
- 14 Mullen's testimony that was filed?
- 15 A. Mr. Mullen worked directly under my
- 16 supervision. He was the lead Staff member
- 17 for the Scrubber proceeding. He worked
- 18 closely with Jacobs Consultancy. And we
- 19 conferred throughout this proceeding on
- 20 numerous issues, and including his
- 21 testimony.
- 22 Q. Today, are there any changes that you would
- like to offer to the testimony before you
- 24 formally adopt it?

- 1 Α. Yes, there is one. If we look at Footnote No. 12, which is found on Page 10, it 2 "The Commission currently has an states: 3 open proceeding [sic], IR 13-020, regarding 4 5 the valuation and potential divestiture of PSNH's generating assets" -- "generating 6 7 units." I would like to add the words 8 "Also, the Commission recently opened Docket No. DE 14-238, Determination Regarding 9 PSNH's Generation Assets." 10
 - Q. And other than that change, Mr. Frantz, if I were to ask you all the same questions that appear in Mr. Mullen's testimony, would you adopt the answers that Mr. Mullen gave?
- 15 A. Yes.

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23

- Q. And I understand you have a brief statement
 you'd like to give to the Commissioners
 prior to your cross-examination.
 - A. I do, if I may. My testimony, adopted from the prefiled testimony of Mr. Steven Mullen, as I said, at the time of the filing was the Assistant Director of the Electric Division, provides an overview of the Scrubber Project, including the legislation

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addressing mercury emissions. The testimony also includes recommendations concerning "prudence" of the Project's management and construction based on the work done by Staff's consultant, Jacobs Consultancy, and the audit reports filed by the Commission's Audit Division. Based on those reports, review of the legislation and the information available during the time frame under consideration, Staff's position is that PSNH acted prudently in the management and construction of the Project and that the costs were prudently incurred. prudently incurred costs should be recovered in permanent rates and included in default service.

In addition, the unrecovered costs, due to the passage of time between setting temporary and permanent rates, and the less-than-full amount included in the setting of the temporary rates, has created a difficult ratemaking issue. Staff proposes that the unrecovered costs be recovered over a seven-year period as a way

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to balance the significant rate effects of
1
          those unrecovered costs with the interest of
2
          shareholders. So it's a balance of
3
          interests of customers and shareholders for
4
5
          rate recovery. That concludes my remarks.
          Thank you.
6
     Q.
7
                         MR. SHEEHAN: Mr. Honigberg,
          he's now available for cross-examination.
8
                         CMSR. HONIGBERG: Who's going
9
          to be asking questions first of Mr. Frantz?
10
11
                         MR. BERSAK:
                                      I believe that
          the Company is going first on this one.
12
                         CMSR. HONIGBERG: Mr. Bersak
13
14
          or someone else over there?
15
                         MR. BERSAK: It shall be me.
16
                      CROSS-EXAMINATION
17
     BY MR. BERSAK:
          Good afternoon, Mr. Frantz.
18
     Q.
19
     Α.
          Good afternoon.
20
          You just indicated you're adopting Mr.
     Q.
21
          Mullen's prefiled testimony in this
22
          proceeding. Is it correct to assume you're
23
          also adopting his responses to the data
          requests that were made by Staff in this
24
```

- 1 proceeding?
- 2 A. Correct.
- Q. Thank you. Are you aware that other parties
- 4 to this proceeding have taken the position
- 5 that there are practical alternatives
- 6 available to PSNH in lieu of installing the
- 7 Scrubber?
- 8 A. Yes.
- 9 Q. I'd like to start by discussing the
- 10 so-called "divestiture alternative" of the
- 11 Scrubber installation with you.
- 12 If you turn to Page 8, Line 13, of your
- testimony -- and I'll refer to it as "your
- 14 testimony" because Mr. Mullen has escaped --
- you indicate that, in your opinion, the
- 16 Scrubber Law was "written with a single
- owner of the affected sources in mind"; is
- 18 that correct?
- 19 A. Correct.
- 20 Q. And that single owner was PSNH?
- 21 A. Correct.
- 22 Q. You also testified that the sale of only one
- of the, in quotation marks, "affected
- 24 sources," as that term's defined in the

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Scrubber Law, such as the sale of the

Merrimack Station but not Schiller Station,

would be impractical, because then you would

wind up with different owners tied together

by a common emissions reduction requirement;

is that correct?
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7 A. Yes.

- Q. So, is it your opinion that any proposed
 divestiture, in lieu of installation of the
 Scrubber, would realistically require that
 all the affected sources would have to be
 sold together so there was one common owner
 responsible for meeting the aggregated
 emissions reduction requirement?
 - A. Practically speaking, that answer is yes.

 It would be extremely unlikely and difficult to have had more than one owner.
 - Q. So, since the --

MR. PATCH: Mr. Chairman, I
would like to raise an objection at this
point in time. We were counseled during the
technical session not to do "friendly
cross," and I think that's exactly what this
is. And we've not prepared friendly cross

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of witnesses by other intervenors because we
were counseled not to do that.

CMSR. HONIGBERG: I'm not -- I

tend to agree with you.

Mr. Bersak, certainly that

first set of questions was just a repetition of
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first set of questions was just a repetition of something that's already in the testimony. I think we'd all prefer if you have other areas you want the witness to elaborate on, that would be great. But we have read Mr. Mullen's testimony, which Mr. Frantz has adopted.

MR. BERSAK: If I can sort of make an offer of proof here as to where I'm going with respect to divestiture, is that the alternatives that have been proposed in other's testimony is we could have -- or the Company could have divested Merrimack Station. The witness just testified that was not practical; it would really have to be Merrimack and Schiller.

The next thing I'm going to ask about is, in light of what the Company would have left, which is Newington Station and some hydros, would that essentially put us into the

```
1
     total divestiture situation, which is --
                         CMSR. HONIGBERG:
                                           I think --
2
          you don't need to go any further because I
3
          think that's fair. It occurred to me, as I
4
5
          was listening to the questions, that I
          thought he was probably setting up the next
6
7
          couple of questions. So, on that basis, I'm
8
          going to let him proceed. But you
          understand what Mr. Patch said.
9
10
                         MR. BERSAK:
                                      I understand.
11
                         CMSR. HONIGBERG: And I think
          we all agree that's a good way for us to go
12
          going forward. So, ask the question --
13
     BY MR. BERSAK:
14
          If in fact a divestiture of both Merrimack
15
     0.
16
          Station and Schiller Station was proposed,
          that would have left PSNH with only
17
          Newington Station and its hydros and the two
18
          combustion turbine sites as generating
19
20
          assets; is that correct?
21
     Α.
          Correct.
22
          Do you agree that Newington effectively
     Q.
23
          operates in the capacity market and is
24
          primarily a peaking plant?
```

A. It has a very low capacity factor, and it's probably going to continue to have a very low capacity factor.

- Q. So, would it be unreasonable for PSNH to consider that a generation fleet consisting only of Newtonian and the hydros would be impractical to be the basis of providing energy service to its customers?
- A. It also has purchase power agreements, I
 would state that, of some significance.
 However, it would create a lot of
 difficulties to have only one fossil-related
 generating asset and then the hydros.
 - Q. So, based on your opinions I'm hearing, in reality, any thought of using divestiture as an option to avoid installation of the Scrubber by PSNH would really have resulted not just in the sale of the Merrimack Station, but also Schiller, and quite possibly lead to a decision as to whether the entirety of PSNH's generating fleet should be divested. Would you agree?
 - A. I think it would have been an issue. And whether the hydros would have been divested

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or not under those kind of scenarios, well,
that's one of the things we'll be looking at
in DE 14-238.
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- Q. And that's -- 14-238 is a proceeding that's being held under the auspices of R.S.A.

 369-B 3-a; is that correct?
- 7 A. Correct.
- Q. And in order to have such a divestiture of

 Merrimack or Schiller, or even more than

 those two assets, there would have to be an

 adjudicative document to determine whether

 such divestiture was in the economic

 interests of PSNH's customers?
- 14 A. Correct.
- 15 Q. In his testimony, do you recall that

 16 Mr. Reed referred to an October 25, 2013

 17 letter from Commission Chair Ignatius to the

 18 Chair of the Electric Restructuring

 19 Legislative Oversight Committee concerning

 20 how long such a proceeding might take?
- 21 A. I remember reading that as part of his 22 testimony.
- Q. And in that letter, do you recall that the
 Chair stated that the litigated portion of

```
70
          such a proceeding, which would typically
1
          follow initial Staff report, would take six
2
          months or more, barring appeals or any
3
          traditional remedies?
4
          Yes, I do remember reading that.
5
     Α.
          If a divestiture attempt was deemed to be
6
     0.
7
          the proper course of action following any
8
          such investigation under R.S.A. R.S.A.
          369-B:3-a, do you recall that Mr. Reed
9
          testified that the time period to determine
10
11
          how that divestiture process should be run,
          the time to initiate it, to have bidders
12
          perform their necessary due diligence, to
13
14
          receive bids, analyze bids, meet with
15
          bidders, determine potential winning bids,
16
          negotiate final contracts and have the
17
          Commission review the process, and then, if
          all that goes well, reach closing, would be
18
          an additional 10 to 18 months?
19
          I recall that he mentioned a much longer
20
     Α.
21
          time frame.
22
                         CMSR. HONIGBERG:
                                            Mr. Bersak,
23
          now you have him repeating Mr. Reed's
```

testimony.

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1
                         MR. BERSAK: Well, I'm just
          establishing a time period as to whether
2
          divestiture was going to be practical in
3
          light of the legislative requirements of the
4
          Scrubber Law.
5
6
                         CMSR. HONIGBERG:
                                            Okay.
7
     BY MR. BERSAK:
8
     Q.
          So the entire divestiture process, from
          start to finish, would have been a year and
9
10
          a half to two and a half years or longer
11
          perhaps.
          It would require a significant time frame,
12
     Α.
          in my opinion.
13
          And that also assumes that the divestiture
14
     Q.
15
          process was successful and did not result in
16
          a failed option.
```

17 A. That's always an assumption.

- Q. In light of the obligation under the
 Scrubber Law for the owner to install and
 have a Scrubber operational at Merrimack
 Station, would you consider the possibility
 of having a failed option to be higher than
 normal?
 - A. Could you repeat that question, please?

- 1 Q. In light of the obligation of the owner under the Scrubber Law to install and 2 have operational Scrubber technology at 3 Merrimack Station by July 1st of 2013, if 4 there was to be an attempt to divest 5 Merrimack Station in lieu of installing the 6 7 Scrubber, do you think that that obligation would result in a higher likelihood of a 8 failed option than a normal option? 9
 - A. I think it would create challenges for any option with that type of requirement hanging over any potential bidder. Whether they'd come to the table, I think that would depend on how the contracts were written and the bid was solicited -- the solicitation of the bid.
 - Q. As I recall, subsequent to the restructuring law going into effect in the state, you were involved in several generation divestiture processes; is that correct?
- 21 A. I was.

11

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22 Q. In light of the statutory operations -- I'm 23 sorry -- statutory obligation for the owner 24 to have Scrubber technology installed and

```
73
1
          operational at Merrimack Station by July 20,
          2013 --
2
                (Court Reporter interrupts.)
3
          Do you have an opinion on how that
4
     Q.
          obligation would impact a rational bidder's
5
          due diligence?
6
7
     Α.
          Well, as I said, I think it complicates any
          bid. And the kind of requirement time frame
8
          of it, the potential costs of installing the
9
10
          technology would all -- with all those
11
          aspects would make any bidder probably more
          nervous or at least risk-averse to bidding
12
13
          on assets.
          Is it likely that such a bidder or potential
14
     Q.
          bidder would deem the Scrubber Law
15
16
          obligation to be an economic liability that
          had to be factored into the price?
17
          You're asking me what I think the bidder
18
     Α.
          would actually legally look at, and I just
19
20
          think it would complicate any analysis of a
          bidder that would be interested in those
21
```

of financial outcomes.

22

23

24

0.

assets. And uncertainty is never a friend

- recommendation to the Commission that PSNH's
 efforts to comply with the mercury reduction
 law were prudent, did that include a review
 of the Company's installation of the
 secondary wastewater treatment facility?
 - A. It did. And that was based on discussions and reports with our consultant, Jacobs Consultancy, who looked in detail at those aspects. I will say that at the time, I think the record reflects that there was an expectation that the wastewater treatment facility would literally be in the zero to 5 percent level for waste from that facility. And so that was what the expectation was. I think that's reflected in the Jacobs testimony and reports.
 - Q. Are you familiar with Mr. Hachey's testimony in this proceeding?
- 19 A. I'm familiar with it.

Q. And in his testimony, Mr. Hachey discusses
the economic analysis that PSNH prepared
regarding the Scrubber, especially
concentrating his discussion on the spread
between gas and coal prices included in the

- analysis. Are you aware of that emphasis
 that Mr. Hachey placed on that coal/gas
 price spread?
 - A. Generally, yes. If you want to refer me to the specific number in his testimony, that's fine.
 - Q. In his testimony, if you want to look at
 Pages 11 to 13 of Mr. Hachey's testimony, do
 you recall that he testified that it appears
 PSNH did not disclose information regarding
 the significance of that coal/gas price
 spread to Staff and OCA?
- 13 A. You're at Page 11 of his testimony?
- 14 Q. Yes. Between 11 and 13 generally.
- 15 A. Hmm-hmm.

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16 MR. PATCH: Mr. Chairman, I 17 doubt very much this is unfriendly cross. You know, I mean, maybe Mr. Bersak can make 18 an offer of proof that it is. But it seems 19 20 to me, again, we were told at a technical 21 session that the Commissioners did not want 22 to hear friendly cross. And I'm just 23 worried that Mr. Bersak's spending a lot of time, you know, basically trying to boost 24

```
Mr. Frantz's testimony on issues that favor
1
2
          his company --
                         MR. BERSAK: Well, actually --
3
                         MR. PATCH: -- and I think
4
          that's "friendly cross."
5
                         CMSR. HONIGBERG: Mr. Bersak.
6
7
                         MR. BERSAK: Actually, what
8
          I'm trying to do is discredit Mr. Hachey's
9
          testimony.
                         CMSR. HONIGBERG: Yeah, I
10
11
          thought that's where he was going with this.
          I thought he was going to ask the witness --
12
          I expect he's going to ask the witness to
13
14
          criticize Mr. Hachey's testimony rather than
15
          bolster his own. I totally agree with you,
16
          but --
17
                         MR. PATCH:
                                     Isn't that
          friendly cross?
18
19
                         CMSR. HONIGBERG: Well, I
          think there was a -- I think what we have in
20
21
          mind is we don't want the parties to pile on
22
          bolstering a particular witness' testimony
23
          through friendly cross-examination.
24
          doesn't mean a party can't ask a witness of
```

		, ,
1	another party who tends to be aligned with	
2	them on topics that will help them	
3	otherwise, that the witness didn't address	
4	in his or her own testimony. Is that a	
5	distinction that people can appreciate?	
6	MR. PATCH: Well, I wish we'd	
7	been told that at the technical session,	
8	because the advice we were given at the	
9	technical session was different than that.	
10	CMSR. HONIGBERG: We're going	
11	to go off the record for a minute.	
12	(Discussion off the record)	
13	CMSR. HONIGBERG: Let's go	
14	back on the record.	
15	MR. BERSAK: I'm willing to	
16	make an offer of proof in response to that	
17	objection.	
18	CMSR. HONIGBERG: Mr. Bersak.	
19	MR. BERSAK: In the cited	
20	pages of Mr. Hachey's testimony, Pages 11	
21	through 13, he testifies that it's his	
22	opinion that PSNH did not provide	
23	information regarding the price spread and	
24	sensitivity of the Scrubber Project to that	

price spread between gas and coal to Staff and OCA. There are a series of data request questions asked by TransCanada where they inquired of Staff on this very topic, and Staff's responses to those questions are educational and indicate that Staff was well aware of the sensitivity of the Scrubber Project to the price spread between gas and coal as a result of PSNH's presentation to them.

CMSR. HONIGBERG:

Mr. Patch.

MR. PATCH: I think I've stated the arguments I have so far. They didn't ask any data requests about this. I think they've made it pretty clear. It's clearly an attempt to try to, you know, contradict testimony of opposing witnesses, Mr. Hachey in particular, and they're using Mr. Frantz for that. And I think that qualifies as friendly cross.

CMSR. HONIGBERG: I think when we were off the record you also said it was -- it exceeded the scope of the direct testimony. Did I remember that correctly?

```
1
                         MR. PATCH:
                                    Well, I think
2
          that's right, although I guess one of the
          things that we asked data requests about,
3
          you know, once Mr. Hachey filed that
4
5
          testimony, was specifically about that.
          we've got some hard evidence that we want to
6
7
          offer, you know, in terms of questions of
8
          Mr. Frantz about that presentation.
          don't want to mislead you into thinking that
9
          I don't have questions about that, because I
10
11
               But it just seems to me that this is a
          preemptive effort by Mr. Bersak to try to
12
          get to those issues first and try to get Mr.
13
14
          Frantz to say good things on behalf of his
15
          client about that. And it seems to me
16
          that's what we were told we should not be
17
          doing.
                         CMSR. HONIGBERG:
                                           Mr. Sheehan.
18
19
                         MR. SHEEHAN:
                                       I'm not sure
20
          what the response to Mr. Patch is.
21
                         CMSR. HONIGBERG:
                                            I guess the
22
                         Should your witness be allowed
          question is:
23
          to answer that question, in your view?
24
                         MR. SHEEHAN: Well, this is --
```

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and again, I don't want to argue for Mr.
1
          Bersak. This is Mr. Bersak's chance to ask
2
          questions. And if he's anticipating what
3
          Mr. Patch may do, so what? What if
4
5
          Mr. Patch doesn't ask the question?
                                                Then
          Mr. Bersak's lost the opportunity.
6
7
          that's the nature of the beast when you have
8
          questions going in an order, that maybe the
          usual order that you expect from courtrooms
9
          doesn't quite come out. I'm comfortable
10
11
          with the friendly cross ruling, if you will,
          as you've made it. To the extent he's
12
          asking questions to impeach another witness,
13
14
          that seems okay, and assuming it's within
15
          the bounds of discovery and direct
16
          testimony.
17
                         CMSR. HONIGBERG:
                                           Mr. Patch.
                        MR. PATCH: Yeah, the only
18
19
          other thing I would say is that PSNH had a
20
          full and fair opportunity to put in rebuttal
21
          testimony on the issue of Mr. Hachey's
22
          testimony, and they did that.
                                          They could
23
          have rebutted that specifically if they
24
          wanted to. They had eight witnesses.
                                                  They
```

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81
1
          had 700 pages of testimony and attachments.
2
          So, using Mr. Frantz to make this point --
          you know, I mean, if you don't let them
3
          cross on this, you're not precluding them
4
5
          from doing something they had a full and
          fair opportunity to do.
6
7
                         CMSR. HONIGBERG:
                                           Mr. Bersak.
8
                         MR. BERSAK:
                                      If I could, Mr.
9
          Honigberg.
10
                (Commissioners conferring)
11
                         CMSR. HONIGBERG:
                                          We're going
          to let Mr. Bersak proceed with this.
12
13
          we're overruling the objection.
14
                         MR. BERSAK:
                                      Thank you.
     BY MR. BERSAK:
15
16
          Where we left off or were discussing is the
     0.
17
          part of Mr. Hachey's testimony where he was
          asked the question whether PSNH presented
18
19
          information regarding the natural gas/coal
20
          spread to Staff and OCA, and his answer was
21
          "apparently not."
22
                I'd like to turn your attention to
23
          Staff's response to several data requests
24
          that were asked of Staff by TransCanada.
```

```
1
                         MR. BERSAK:
                                      I'd like to mark
          as an exhibit Staff's responses to
2
          TransCanada data requests Questions TC 1
3
          through 12, No. 27 and 1-37. And we'll have
4
5
          copies sent around.
                (The document, as described, was herewith
6
7
               marked as 39 for identification.)
          So Exhibit 39 is a total of 10 data request
8
     0.
          responses from Staff to questions proposed
9
          by TransCanada.
10
11
               Mr. Frantz, would you please take a
          look at Staff's response to TC Question 1-5
12
          discussing a presentation made by PSNH to
13
14
          Staff and OCA on July 30, 2008 regarding the
          Scrubber Project. Do you have that?
15
16
     Α.
          I do.
17
     Q.
          According to this data request response, you
          were in attendance at that presentation?
18
19
     Α.
          I was.
20
          And according to this data response, you
     0.
21
          were accompanied by Mr. Mullen and
22
          Mr. McCluskey, Attorney Ross, Attorney
23
          Hatfield, who was then the consumer
24
          advocate, and Mr. Traum, then the deputy
```

- consumer advocate; is that correct?
- 2 A. Yes.
- Q. If you could turn your attention now to the
- 4 next data response from Staff, TC 1-6.
- 5 According to this data request, Staff
- 6 responded with an annotated copy of the
- 7 presentation that PSNH made to Staff and OCA
- 8 on that date; is that correct?
- 9 A. Yes.
- 10 Q. And is it correct to assume that the
- annotations on that attachment were made by
- 12 Mr. Mullen?
- 13 (Witness reviews document.)
- 14 A. I saw his handwriting for a lot of years.
- 15 It appears to be his.
- 16 Q. His name was originally on the response to
- this question; is that correct?
- 18 A. Yes.
- 19 Q. And in that response it says, "Attached is
- 20 my copy of the presentation [sic], including
- 21 my handwritten notes on the presentation, as
- 22 well as additional notes taken by me." So
- that would appear to be Mr. Mullen's
- 24 annotations?

- 1 A. Yes.
- Q. I would like to turn your attention to
- Page 15 of the presentation that was
- 4 annotated by Staff, a slide captioned
- 5 "Financial Assessment." Let me know when
- 6 you have that.
- 7 (Witness reviews document.)
- 8 A. I am there.
- 9 Q. Okay. On that slide, is it correct that
- 10 PSNH discussed natural gas and coal price
- assumptions for the Scrubber Project?
- 12 A. That's correct.
- 13 Q. I'd like you to turn your attention to the
- 14 last bullet on that slide, the one that
- 15 reads, quote, "Our analysis show that
- 16 customer economics are most sensitive to the
- 17 coal/natural gas price spread and far less
- 18 sensitive to capital cost or RGGI cost
- increases"; is that correct?
- 20 A. That is correct.
- 21 Q. Do you see that the words "are most
- 22 sensitive to" are underlined on what was
- attached to Staff's response to this data
- 24 request?

- 1 A. Yes.
- 2 Q. Is it correct to assume from the response to
- 3 this question that the underline was made by
- 4 Mr. Mullen?
- 5 A. Yes.
- 6 Q. Since you were at that meeting where PSNH
- 7 provided this presentation, would it be
- reasonable to assume that Mr. Mullen's
- 9 underlining of that phrase was the result of
- 10 PSNH's discussing that bulleted item during
- its presentation to Staff and the Consumer
- 12 Advocate's Office?
- 13 A. I don't know what his motivation was. It's
- 14 fair to acknowledge that that caught his
- 15 attention.
- 16 Q. You were there. Do you recall it?
- 17 A. I do.
- 18 Q. Thank you.
- 19 And those underlined words, in fact,
- 20 emphasize the importance of the spread
- 21 between the price of natural gas and coal.
- 22 Do you agree?
- 23 A. Yes.
- Q. In fact, do you agree that Staff was well

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86
1
          aware of the significance of the differences
          in cost between coal and gas on the
2
          economics of the Scrubber?
3
4
     Α.
          Yes.
          In response to questions from TransCanada,
5
     Q.
          do you agree that Staff indicated that the
6
7
          economics of the Scrubber were subject to
8
          many moving parts and not just to the
          relative prices of gas and coal?
9
     Α.
          On a project of that size and significance,
10
11
          there are always a lot of moving parts,
          including the overall capital costs, delay
12
          for potential weather. There's a tremendous
13
14
          amount of moving parts in a large project
          like that.
15
16
          That is it. Thank you very much, Mr.
     Q.
17
          Frantz.
                         CMSR. HONIGBERG: All right.
18
19
          Who's going to be asking questions of Mr.
          Frantz next? Ms. Chamberlin.
20
21
                         MS. CHAMBERLIN: Yes, I have a
22
          few.
23
                      CROSS-EXAMINATION
     BY MS. CHAMBERLIN:
24
```

- Q. The Mercury Emissions Statute refers to

 cost-effective reductions in sulfur dioxide;

 is that correct?
- A. Well, there's the general R.S.A. 125-0,
 which is the four pollutants overall
 statute, and that refers to four pollutants:
 Sulfur dioxide, oxides of nitrogen, mercury
 and carbon dioxide. The subsections of
 125-0, from 11 to 18, are referred to as the
 "mercury emissions" subsections.
 - Q. So your answer is that it refers to cost-effective reductions in sulfur dioxide as well as other pollutants. Is that a fair summary?

15 (Witness reviews document.)

- A. If you're referring to 125-0:13, it directly addresses mercury emissions reductions.
- Q. I was referring to Page 5 of your testimony, and I was referring to Line 9 through 11, which is a quote of R.S.A. 125-0:11.
- 21 (Witness reviews document.)
- 22 A. Yes, that's...

11

12

13

14

Q. So that section refers to, "including, but not limited to, cost-effective reductions in

- sulfur dioxide" and some other pollutants?
- 2 A. Yes.
- Q. The statute, R.S.A. 125-0, includes
- 4 reporting obligations; is that correct?
- 5 A. Correct.
- 6 Q. And one of those reporting obligations is to
- 7 the Legislature?
- 8 A. Yes.
- 9 Q. And your testimony is that legislators knew
- in 2008 and 2009 about the increased
- 11 construction costs of the Scrubber; is that
- 12 a fair summary?
- 13 A. Yes.
- 14 Q. And the basis of that conclusion is that
- 15 PSNH provided documents to the Legislature
- discussing the price increase; is that true?
- 17 A. Yes.
- 18 Q. And you agree that the Legislature relied on
- 19 PSNH for information about the Scrubber.
- 20 A. Well, now you're asking me to infer what the
- 21 Legislature relied upon, and I'm not sure
- 22 I'm quite capable of making that conclusion.
- Q. Well, in your 25 years of experience as a
- regulator, have you had any experience with

the Legislature?

A. A lot, yes.

Q. And would you say that the Legislature
relies on the expertise of the people who
come before it for information?

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- A. I believe that the Legislature relies upon the expertise of people who come before it and the discussions that ensue. And how they ultimately reach their decisions is somewhat still a mystery to me.
 - Q. And is it a fair conclusion to say that the Legislature was relying on PSNH to provide it information based on the reporting requirements of the statute 125-0?
 - A. Clearly, PSNH made disclosures to the
 Legislature and provided information, as it
 was required to do. I was at some of those
 hearings.
- Q. Turning to the exhibits that Mr. Bersak just handed out, and I believe...
- 21 MS. CHAMBERLIN: Did you mark
 22 it? Is it one single exhibit?
- MR. BERSAK: Yes, Exhibit 39.
- MS. CHAMBERLIN: Exhibit 39.

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BY MS. CHAMBERLIN:

Q. And turning to the pres
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3

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6

- Q. And turning to the presentation given to the PUC, Staff and the Office of the Consumer Advocate, PSNH concluded that there would be a net customer benefit under "expected conditions." Is that a fair summary?
- 7 A. Point me to exactly where you see that.
- 8 Q. I used a different exhibit, so hold on.
- 9 A. Are you talking about Page 3, "The Net
 10 Present Value of Revenue Requirements... and
 11 the benefit to customers of \$132 million"
 12 or --
- Q. Yes, that is what I am talking about.
- 14 A. That is stated on Page 3.
- Q. Right. And that's the arrow for above that says under "expected conditions"; correct?

 (Witness reviews document.)
- A. Yes. To be clear for the record, it's the fourth arrow down under "Executive Summary" and states in its entirety, "Despite the capital cost increases, Merrimack Station remains economic for customers under expected conditions."
 - Q. And turning to Page 5, Arrow No. 2 -- let me

- 1 know when you're there.
- 2 A. I'm there.
- 3 Q. Is one of the "expected conditions" the
- 4 "historic high capacity factor and
- 5 cost-effective operation of Merrimack
- 6 Station" that's listed there?
- 7 A. Listed there is the "historic high capacity
- 8 factor and cost-effective operation of
- 9 Merrimack Station." That is correct.
- 10 Q. And would you say that that qualifies as an
- "expected condition"?
- 12 (Witness reviews document.)
- 13 A. Well, it's listed under "Merrimack Station
- 14 Benefits PSNH's Customers." Whether that's
- a direct tie to a needed or listed
- 16 condition, I'm not sure I would make that
- 17 jump.
- 18 Q. So this is a description of the "historic
- 19 benefits of Merrimack Station"; correct?
- 20 A. Yes.
- 21 Q. And having occurred historically, is it a
- reasonable jump to say that that's one of
- the "expected conditions" of ongoing
- operation for the benefits to occur?

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92
1
          If you can give me a moment.
     Α.
                (Witness reviews document.)
2
          I think it was a reasonable conclusion that
3
     Α.
          the plant would operate at a fairly high
4
          capacity factor. That's my recollection.
5
          Thank you. And the bold -- right above the
6
     Q.
7
          bold lettering on the same page it says,
          "Historically, coal has maintained a price
8
          advantage over oil or natural gas..." Have
9
10
          I read that correctly?
11
          Could you tell me exactly where you are
     Α.
          right now?
12
          Yes. I'm on the fifth arrow on the same --
13
     Q.
14
          on Page 5.
15
          Yes, that's correct.
     Α.
16
          And is it fair to conclude that, with the
     Q.
          description "historically" in front of that,
17
          that that is one of the "expected
18
          conditions" PSNH was relying on for customer
19
          benefits?
20
21
     Α.
          I think that was a reasonable conclusion
```

A. I think that was a reasonable conclusion

(Court Reporter interrupts.)

from that arrow.

22

23

- from that arrow.
- 2 Q. Now, PSNH provided one slide on historic
- fuel prices. I'm trying to find the page
- 4 number. I know it's in here. Here it is.
- 5 Page 16.
- 6 A. I'm there.
- 7 Q. And the slide shows the price differences
- between gas and coal; correct?
- 9 A. Correct.
- 10 Q. And it shows them from the year 2000 to
- 11 2008, approximately?
- 12 A. Correct.
- 13 Q. Now, there isn't a written statement
- 14 certainly on this page regarding the
- historic fuel spreads before the year 2000;
- 16 is that correct?
- 17 A. That's correct.
- 18 Q. So, history is simply starting at 2000 on
- 19 this chart.
- 20 A. Yes.
- 21 Q. That's all I have. Thank you.
- 22 CMSR. HONIGBERG: Who's next
- to ask questions of Mr. Frantz? Mr. Patch.

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94
1
                      CROSS-EXAMINATION
     BY MR. PATCH:
2
          Good afternoon, Mr. Frantz.
3
     Q.
          Good afternoon.
4
     Α.
          I want to start pretty much where Ms.
5
     Q.
          Chamberlin left off.
6
7
                         MR. PATCH: We actually would
          like to have marked the entire set of
8
          responses to the data requests from
9
10
          TransCanada. And we have them in a package,
11
          so there may be some duplication with
          Exhibit 39 that PSNH presented.
12
13
                         CMSR. HONIGBERG:
14
          everything in your Exhibit also in 39 or
15
          not?
16
                         MR. PATCH: Yes.
                                           No, no.
          There's more in our exhibit than there is in
17
          39.
18
19
                         MR. BERSAK:
                                      So ours is a
20
          subset of his. So we can replace his with
21
          ours and we can --
22
                         MR. PATCH:
                                     Except that
23
          there's a disagreement between counsel.
24
          sounds to me like -- let's just deal with
```

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this individually. So we'll call this
1
         Exhibit 40 and move on, because it sounds --
2
          in looking at it in Ms. Goldwasser's hand,
3
          it looks smaller.
4
               (The document, as described, was herewith
5
               marked as Exhibit 40 for identification.)
6
7
    BY MR. PATCH:
8
    0.
         And just to keep things moving, Mr. Frantz,
9
```

these are our -- I'll represent to you that
these are responses that Staff provided
under Steve Mullen's name to the data
requests that TransCanada propounded on
January 21st of this year.

And the one thing that is a little different from what PSNH provided, the attachment to 1-6, the only thing included there is the last page of the attachment that Staff provided, which are Mr. Mullen's notes, independent of the notes that he wrote on the slides.

So, you know, fair to say, I mean, you haven't looked through all of these. I'm going to walk you through a few of these.

But first of all, with regard to 1-6, if we

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1 could start there.
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A. I'm there.

2

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- You had described -- or Mr. Mullen had 3 Q. described -- I guess I'll say "you" from now 4 on, but understanding that it was Mr. Mullen 5 who provided the response, but you've 6 7 adopted it. You described that meeting on 8 July 30th with Staff, the consumer advocate, PSNH representatives, and I think the 9 10 Governor's Energy Office, as a meeting -- as 11 a "confidential briefing"; is that correct?
 - A. I think that's correct. But I don't -- I believe it was the OCA, Staff and PSNH. I don't believe it was the Office of Energy Policy. It was the OCA.
 - Q. Okay. Well, I guess the record will speak for itself. I thought the Governor's Office of Energy had a representative there. But in any event, I'm not concerned about that right now. It's really more about your response to 1-6.

22 So, you said it was a "confidential briefing"; correct?

A. Yes. And the materials provided stated at

with all justifications or analyses related

97

- the bottom, "privileged and confidential."
- Q. And "not a meeting designed to provide Staff
- 4 to the Scrubber Project"; correct?
- 5 A. Correct.

3

- 6 Q. What does that mean?
- 7 A. Well, I think there was a lot of data and
- 8 information that probably could have been
- provided to Staff that wasn't. It was a
- 10 high-level overview. It was information
- that talked about the increase in cost,
- talked about the work that was being done.
- 13 There was what I would say was -- though
- 14 it's an overused term, it was certainly a
- 15 "general overview" and information to keep
- 16 Staff up to date on some recent changes in
- 17 the Project.
- 18 Q. And so you didn't expect them -- seems like
- 19 you're comfortable with the fact that they
- 20 didn't provide you with the same analysis or
- justification that they provided to the
- Board of Trustees or the NU RACC Committee;
- is that fair to say?
 - A. Well, I don't know if that's fair to say.

But we're not the Company's board of directors and we're not the risk assessment group and we're not the ones making the decision to expend the money. I do think as regulators that we're entitled to and should receive information of major changes of major projects. And in that light, I think we got that type of information. I would expect any company to provide more detail and more information to the people that are approving a project or writing the check at the time than on an ongoing basis to regulators.

- Q. So, to the full Commission, as opposed to just in a briefing like that to Staff I take it is what you're saying?
 - A. Yes. However, at this point in this docket, there's a lot of information that should be provided, and has been.
- Q. And so you're saying the Commission really ought to take into account all of that information when making its decision; is that right?
 - A. All what information?

Q. I'm trying to pick up on what you just said.

- A. Well, I'm just saying you asked for context of the type of briefing we got from PSNH at the time, and I'm saying I don't think that was an unreasonable briefing of the information at the time.
- Q. And if something was required to make the project economic for ratepayers -- required to make it economic -- would you expect they would have raised it at that meeting?
 - A. I think that it would have been reasonable to expect all the fairly high-level, important, pertinent information to have been mentioned.
 - Q. And then, what about the report to the Commission in DE 08-103, which I believe it's already been indicated is 27-1 -- or 27-9? That's the September 2nd, 2008 report that PSNH filed. Is that the time when PSNH should have provided all of that information that you're referring to, even if they didn't provide it all in that briefing to Staff?

I think there was a request by the

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100
1
          Commission on that. And if you have that
          request, I'd be happy to take a look at what
2
          the request was.
3
          I do have a copy of that. And I think
4
     Q.
          that's the August 22nd, 2008 letter that --
5
          From the executive director.
6
     Α.
7
          That's right. And I think it went to Mr.
     Q.
          Bersak, actually, I think. Have to take a
8
          look at that. Ms. Goldwasser is going to
9
          hand out a copy of that letter. Do you have
10
11
          one handy right there?
          I don't. I'll be happy to look at it.
12
     Α.
13
                (Ms. Goldwasser hands document to
14
               witness.)
15
     Α.
          Thank you.
16
                (Witness reviews document.)
17
                         CMSR. HONIGBERG: Are we
          marking this as an exhibit, or is it
18
          somewhere else already?
19
20
                         MR. PATCH: Well, that's a
21
          good question.
22
                         CMSR. HONIGBERG: Well, why
23
          don't we just mark it. That would be
24
          easier.
```

1 MR. PATCH: Okay. Fine.

2 CMSR. HONIGBERG: That's 41.

3 (The document, as described, was herewith

4 marked as Exhibit 41 for identification.)

- 5 A. I would point to the second paragraph,
- 6 Mr. Patch.
- 7 BY MR. PATCH:
- 8 Q. Yes.

- 9 A. And this type of letter from the Executive
- 10 Director of the Commission does provide, I
- think, a rather detailed and descriptive
- 12 aspect of what the Commission was seeking
- from PSNH. In effect, it says "a
- 14 comprehensive status report on its
- installation plans, a detailed cost estimate
- for the Project, an analysis of the
- 17 anticipated effect of the Project on energy
- 18 service rates," and these others things.
 - Q. Well, and I thank you for sort of jumping
- ahead so I didn't have to read that.
- 21 And the last thing is kind of
- interesting, too, isn't it, "an analysis of
- the effect on energy service rates if
- 24 Merrimack Station were not in the mix of

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1
          fossil and hydro facilities operated by
                   I thought that was kind of curious,
2
          in light of sort of how far we have come in
3
          this docket and issues about all of the
4
          types of options that PSNH had and that they
5
          should have reviewed. Don't you think
6
7
          that's kind of interesting in that light?
          I guess you could call it interesting, or at
8
     Α.
          least something for them to file.
9
     Q.
          So, is it your opinion that PSNH should have
10
11
          provided the Commission, in September of
          2008, with all of the justifications and
12
          analyses, as you referred to them, that they
13
          provided to the board of trustees?
14
               I think, in 2008, based on the
15
     Α.
16
          requirement in this executive letter, they
          should have filed exactly what the
17
          Commission asked for.
18
19
     Q.
          Okay.
20
                         MR. PATCH:
                                     These probably
21
          ought to be marked as separate exhibits.
22
          But we have a couple blow-ups of the charts
23
          comparing the -- it's the chart that Ms.
24
          Chamberlin had referred to about the
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historical gas prices that was included in the presentation to Staff, and so it's already included as another exhibit. But we have a blow-up of that. And then we also have a blow-up of the similar graph or chart that was presented to the board of trustees on July 15th of 2008.

BY MR. PATCH:

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- And so I'm going to ask you, Mr. Frantz, to 9 Q. 10 make a couple of observations about those 11 two charts. And as Ms. Chamberlin already walked you through the chart that was 12 presented to Staff, which is the chart 13 14 included, I believe, to the right there --15 and you can't see them from where you are, 16 so -- but if you've got -- have you got that 17 chart in front of you?
- 18 A. The one from July 30th?
- 19 Q. Yes, included in the presentation to Staff.
- 20 A. I do. If you'll just wait a second. It's 21 the one on Page 16; correct?
- 22 O. Yes.
- 23 A. I have it.
- Q. And as indicated, that shows, you know,

- 1 pretty consistently the price of coal
- doesn't change significantly, does it, over
- 3 that period of time?
- 4 A. No. Coal is the dark line in that chart,
- and it is fairly constant throughout the
- f range of years in the chart.
- 7 Q. But the price of natural gas, in green,
- 8 obviously fluctuates quite a bit in that
- 9 chart.
- 10 A. Yes, it does.
- 11 Q. So, then I'd like you to look at the
- corollary to that, the chart that was
- 13 presented to the board of trustees. And I
- don't know if you have that in front of you.
- 16 copy of that.
- 17 A. I can see it from here.
- 18 Q. You can?
- 19 A. I can.
- 20 Q. Okay. And so what's the time period that
- 21 that chart covers?
- 22 A. I can't see that.
- 23 Q. You can't see that.
- MR. PATCH: I'm going to ask

105 1 Ms. Goldwasser to pass out colored copies of the presentation that was made to -- in this 2 case, this was the board of trustees I think 3 that you're handing out, Ms. Goldwasser; 4 5 correct? MS. GOLDWASSER: 6 7 (Ms. Goldwasser hands document to 8 witness.) So this is the presentation made basically 9 Q. two weeks before the presentation to Staff. 10 11 And I think if you look at --I am on Page 9. I believe that's the chart 12 Α. you're referring to. 13 Thank you. And the historical price 14 Q. Okay. 15 of natural gas that's reflected in that 16 chart goes back to what year? This one goes back to 1993, and it's a 1993 17 Α. through 2008 time frame. So the ending time 18 19 period appears to be exactly the same as the 20 one we saw; however, there are seven years 21 of additional data prior to the 2000 start 22 period for the one that we saw. 23 And I'd like you, if you would, to read into Q.

the record the narrative that is above the

chart at the top of that page.

- A. Well, it starts with, "Historic Fuel

 Spreads" and has an arrow. Would you like

 me to read what's beside the arrow?
 - Q. Yeah, there are two green arrows there.
 - A. Yes. "Gas/coal spread has averaged \$3.18

 per million Btu over the last 15 years, as

 compared to the required customer break-even

 level of \$5.29 per MMBtu," and in parens,

 "based on current price levels." And then

 there's a little indentation and a dot from

 that that says, "However, post the hurricane

 season of 2005, the spread has averaged

 \$6.22 per MMBtu." And then there's a second

 arrow, and it says, "Since January 2007, the

 spread has averaged nearly \$6.63 per MMBtu,

 and current spreads are more than

 approximately \$9 per MMBtu."
 - Q. And so, is it fair to say that, based on what they told the board of trustees, in order for there to be a customer break-even level on this Project, on the Clean Air Project, as it says in the upper right-hand corner, there had to be a spread of \$5.29

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per MMBtu between the price of natural gas
and the price of coal?
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- A. That's what it says on that first arrow.

 That is correct. "As compared to the
- 5 required customer break-even level of \$5.29
- 6 per MMBtu (based on current price levels)."
- Q. And what it says, actually, at the very
- average over the period of time going back

beginning of that sentence, is that the

- to '93, not to 2000, as they presented to
- 11 Staff, but to '93, has actually been more
- than \$2 less than that required spread; is
- 13 that correct?

- 14 A. That's correct. \$2.11 less, to be precise.
- 15 Q. And so, did they present this information to
- 16 you on the 30th of July?
- 17 A. Not that information.
- 18 Q. And to the best of your knowledge, did they
- 19 present it to the Commission on
- September 2nd of '08?
- 21 A. I'd have to look at what was filed in '08.
- I don't believe so. But I think that's
- 23 subject to check.
- Q. We had asked PSNH in a data request about

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108
          the differences in the presentations, and I
1
2
          want to show you a copy of their response.
          It's TC 6-201.
3
                         MR. PATCH: And I would ask
4
          that this be marked as an exhibit.
5
          Goldwasser will hand it out.
6
7
                (Ms. Goldwasser hands document to
8
               witness.)
                         CMSR. HONIGBERG: Before we
9
          mark that, let's talk about the numbering on
10
11
          what we have in front of us. Do you want to
          mark the document you were just talking
12
          about with Mr. Frantz, the presentation to
13
          the board of trustees, as 42?
14
15
                         MR. PATCH: We can if you'd
16
          like. I can tell you where else it already
17
          is in the existing ones. It's not a colored
          copy there. So if you want to just mark it
18
          separately for ease of convenience or
19
20
          whatever, that's fine.
21
                         CMSR. HONIGBERG: Where is it
22
          elsewhere?
23
                         MR. PATCH: It's 20-11, I
          believe. It was an attachment to Mr.
24
```

109 Hachey's testimony. 1 CMSR. HONIGBERG: Let's mark 2 it here because it's a nice, clean copy. 3 MR. PATCH: Okay. 4 5 CMSR. HONIGBERG: So that's 42. 6 7 (The document, as described, was herewith marked as Exhibit 42 for identification.) 8 MR. GLAHN: What was the 9 secretarial letter of August 22? Was that 10 11 41? 12 CMSR. HONIGBERG: Yeah, that 13 was 41. So what Ms. Goldwasser is 14 15 handing around right now is 43? 16 MR. PATCH: Yes. Thank you. 17 (The document, as described, was herewith marked as Exhibit 43 for identification.) 18 19 Q. And so the question that we asked: "Was the information shared with the PUC and the OCA 20 21 the same as was shared with the Utilities 22 Risk and Capital Committee? If not, what

E 11-250 | [Day 1/Afternoon Session ONLY] {10-14-14}

were the differences, and why did PSNH not

provide the same information both to the PUC

23

24

and the OCA as to the Utilities Risk and
Capital Committee and the Board of Trustees?

And the response is that, "The facts shared with the PUC Staff and OCA were the same as those shared with the RACC." Did I read that correctly?

- A. You read that correctly.
- Q. Do you think that's true, given what we just went through? Was the fact about the \$5.29 spread shared? Was the fact about the historical average being \$3.18 shared? Were those facts shared with the Staff and the OCA?

MR. SHEEHAN: Just an

objection. Just ask one question at a time

so we know which one he's answering, please.

17 BY MR. PATCH:

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6

7

- 18 Q. Okay. We'll start with the \$5.29.
- 19 A. We did not receive the \$5.29.
- Q. And did you receive the \$3.18, the actual spread over the historical period going back to 1993? Was that a fact you received?
- 23 A. Not in the July 30th, 2008 submission.
- Q. And to the best of your knowledge, you said

- not also in the filing with the Commission on September 2nd; is that correct?
- 3 A. I think I'd prefer to look at that submission.
- 5 Q. You said "subject to check."
- 6 A. Subject to check, yeah.
- Q. Yeah. I just want to walk you through a couple of pages in that September 2nd, 2008 report to the PUC. I think it's marked as 27-9. I don't know if you have a copy in front of you.
- 12 (Attorney Sheehan hands copy to witness.)

13 CMSR. HONIGBERG: Mr. Patch,

how long do you think you have? Because

we're getting close to 4:30 and --

16 MR. PATCH: Boy, I've got a

17 fair amount.

18 CMSR. HONIGBERG: So why don't

we get to -- or go to 4:30, come to a

20 breaking point, and then we'll pick it up

21 tomorrow morning.

MR. PATCH: Okay. Thank you.

23 A. I have it in front of me now, Mr. Patch.

24 BY MR. PATCH:

- Q. Okay. And I would ask you to look at Page 14 of that report.
- 3 A. Already there.
- Q. Already there. Okay. And it talks on that
 page about "Sensitivity analyses were
 conducted to test the impact of changes to
 each of the key assumptions." Do you see
 that?
- 9 A. Yes. That's under III.D.
- Q. And where does it say -- what does it list as "key assumptions"?
- 12 A. It says, "Sensitivity analyses were

 13 conducted to test the impact of changes to

 14 each of the key assumptions," and in parens,

 15 "capital cost, coal cost and equivalent CO2

 16 allowance cost," close parens, "on the

 17 overall bus bar cost to Merrimack Station."
- Q. I don't see any mention of natural gas prices in there, do you?
- 20 A. No.
- Q. And then it goes on to say, "These sensitivity analyses indicated the economics of the Project are most sensitive to variations in the future price of coal and

- far less sensitive to variations in the capital cost or equivalent CO2 allowance cost." Did I read that correctly?
- 4 A. Yes.

6

7

- Q. I don't see anything there about the spread between the price of natural gas and coal, do you?
- 8 A. No.
- And in a response to TransCanada 1-13, we 9 Q. 10 had asked you a question, whether you had 11 any knowledge about whether PSNH had presented this kind of information to the 12 Legislature. And your response was, that we 13 14 had been provided with copies of 15 documentation that PSNH provided to the 16 Legislature. And you said at times they may have had discussions with the legislators. 17 "If any of the referenced information was 18 19 provided through any such discussions, I 20 have no knowledge." So you don't have any 21 knowledge that they ever presented any of 22 that critical information, information that 23 they themselves said was required to make 24 the economics of the Project work, was ever

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114
          presented to the Legislature, do you?
1
          I think the response stands for itself.
2
     Α.
          any of the referenced information was
3
          provided through any such discussions, I
4
5
          don't have any knowledge of that.
                (***check/fix)
6
7
                         MR. PATCH: May be a good
8
          stopping point.
9
                         CMSR. HONIGBERG: Fair enough.
          So we'll break now. We're scheduled to come
10
11
          back at 9:00 tomorrow morning; correct?
12
          right.
                         MR. SHEEHAN: With the
13
14
          understanding that parties will be here at
15
          8:30 to go through any technical issues or
16
          procedural issues.
17
                         CMSR. HONIGBERG: Okay.
          point. We'll be here at 9:00. You guys
18
          will be here at 8:30.
19
20
                         So, is there anything else we
     need to do right now? Yes, Ms. Chamberlin.
21
22
                         MS. CHAMBERLIN: May I clarify
23
          that it will be the OCA's witness that comes
24
          after Mr. Frantz, or are we doing somebody
```

[WITNESS: FRANTZ]

	115
1	else?
2	MR. SHEEHAN: The Jacobs
3	witnesses.
4	MS. CHAMBERLIN: Oh, Jacobs.
5	CMSR. HONIGBERG: Yeah, we
6	have Jacobs on the schedule. That's
7	supposed to be in the morning after Mr.
8	Frantz. I mean, we'll see how long it goes.
9	I'm guessing, based on how we've gone today,
10	that we'll be on the schedule that was
11	published on October 10th. But we can
12	always change if we need to.
13	With that, anything else?
14	(No verbal response)
15	CMSR. HONIGBERG: All right.
16	We are adjourned. Thank you all.
17	(Whereupon the hearing was adjourned at
18	4:28 p.m., and the hearing to resume on
19	October 15, 2014, commencing at 9:00 a.m.)
20	
21	
22	
23	
24	

[WITNESS: FRANTZ]

CERTIFICATE

I, Susan J. Robidas, a Licensed

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

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

Susan J. Robidas, LCR/RPR Licensed Shorthand Court Reporter Registered Professional Reporter N.H. LCR No. 44 (RSA 310-A:173)

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