In Re:

DE 11-250 PUBLIC SERVICE COMPANY OF N.H.
INVESTIGATION OF SCRUBBER COSTS AND COST RECOVERY

DEPOSITION OF: GARY LONG September 16, 2013

SUSAN J. ROBIDAS, N.H. LCR (603) 622-0068 shortrptr@comcast.net (603) 540-2083 (cell)

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	STATE OF NEW HAMPSHIRE			ŭ
	PUBLIC UTILITIES COMMISSION		Representing OFFICE OF THE CONSUMER ADV	
	DE 11-250	3 4	OFFICE OF THE CONSUMER ADV 21 South Fruit Street, Su: Concord, New Hampshire 0: By: Susan Chamberlin, Esc	ite 18 3301
		5	Representing N.H. PUBLIC UTILITIES COMM	ission:
	PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE INVESTIGATION OF SCRUBBER COSTS AND RECOVERY	6 7 8	N.H. PUBLIC UTILITIES COM 21 South Fruit Street, Su: Concord, New Hampshire 0: By: Suzanne Amidon, Esq. Michael Sheehan, Esq	MISSION ite 18 3301
	DEPOSITION OF GARY LONG	9 10 11	Also Present: Mike Hachey, TransCanada Erin O'Dea, TransCanada Cleve Kapala, TransCanada Eric Chung, PSNH Lynn Tillotson, PSNH Heather Tebbetts, PSNH	
	This deposition was taken pursuant to	12	James Allmendinger, Sierr Catherine Corkery, Sierr	
	Order No. 25,566, an Order Compelling Deposition,	13	Steve Mullen, PUC	
	and held at the Offices of Orr & Reno, 45 South	14		
	Main Street, Concord, New Hampshire, on	15	Court Reporter: Susan J. Robidas, LCR/I	RPR
	September 16, 2013, commencing at 9:02 a.m.	16	Licensed Shorthand Cou Registered Professiona	l Reporter
		17	N.H. LCR No. 44 (RSA 33	10-A:173)
	PRESIDING: Anne Ross	18		
	N.H. Public Utilities Commission	19		
		20		
		21		
		22		
	SUSAN J. ROBIDAS, N.H. LCR/RPR (603)622-0068 shortrptr@comcast.net	23		
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2			D3.CE	1	MS. GOLDWASSER: My name is
	EXHIBIT		PAGE	2	Rachel Goldwasser. I'm from the law firm of
3	1	9/2/08 Letter from Mr. Long	32	3	Orr & Reno, and I'm here on behalf of
4	2	Data Response to TC-02/003	32	4	TransCanada.
5	3	Data Response to TC-04/009	41	5	MR. PATCH: Doug Patch, Orr &
6	4	Data Response to TC-04/010	42	6	Reno, on behalf of TransCanada.
7	5	Data Response to Staff 02/002	44	7	MR. HACHEY: Mike Hachey, and
8	6	Data Response to TS-01-008	58	8	I work for TransCanada Power.
9	7	Data Response to TC-04-017	67	9	MS. O'DEA: Erin O'Dea,
10	8	Data Response to TC-01-002	73	10	counsel for TransCanada.
11	9	9/2/08 Report by PSNH to PUC	77	11	MR. KAPALA: Good morning.
12	10	Data Response to TC-03-007	81	12	I'm Cleve Kapala from TransCanada.
13	11	Data Response to TC-03-009	81	13	MS. FRIGNOCA: Ivy Frignoca,
14	12	Data Response to TS-02-002	101	14	Conservation Law Foundation.
15	13	Data Response to TC-03/014	103	15	MR. PERESS: Jonathan Peress,
16	14	10/30/09 Letter to PUC from Mr. Bersak	114	16	Conservation Law Foundation.
17	15	2/12/09 PSNH AE Newsletter	120	17	MR. CHUNG: Eric Chung, with
18				18	PSNH.
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20	17	Transcript of 3/13/09 Senate Committee on Energy,	190	20	Tillotson, PSNH.
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22	18	Data Response to Staff 01/012	206	22	Tebbetts of PSNH.
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DEPOSITION OF: GARY LONG - September 16, 2013 DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST

Page 9 CARY LONG - 9/16/13 **GARY LONG - 9/16/13** Page 11 MR. FABISH: We're working on 1 signatures from TransCanada? 1 MR. BERSAK: That's fine. it right now. There are a lot of blanks to 2 2 3 be filled out. 3 MS. ROSS: Okay. MS. ROSS: Okay. Before we MR. FABISH: So if I have 4 4 hit any confidential materials, that would signed on behalf of Sierra Club, is that 5 5 need to be finalized, or else you would not 6 6 okay? be able to sit through the discussion. So... MR. BERSAK: As long as 7 7 MR. BERSAK: Do you want everybody's aware of the requirements and the 8 8 terms of the NDA, that'll be fine. 9 the --9 (Court Reporter interjects.) MS. ROSS: And obviously, we 10 10 MR. PATCH: Well, counsel for 11 11 haven't invited press to this. This is not a public hearing. The Commission is not TransCanada signed a non-disclosure 12 12 conducting this at the Commission offices for 13 agreement. 13 MS. ROSS: Okay. that reason. It's a private deposition. So 14 14 MS. GOLDWASSER: And I believe I would appreciate people not running out 15 15 later and having chats with the press about 16 the non-disclosure agreement indicates 16 that -- and we could check -- subject to the contents. I'd appreciate it. 17 17 check, that it is for the party, not just for All right. Let's get started. 18 18 19 the individual counsel. 19 The first segment will begin with swearing in MS. ROSS: Okay. And Mr. the witness, and the first questioner is 20 20 21 Bersak, is --21 Attorney Doug Patch, on behalf of TransCanada. MR. BERSAK: I'm trying to 22 22 remember procedure. I haven't been the one 23 23 24 monitoring, but --24 GARY LONG - 9/16/13 Page 10 **GARY LONG - 9/16/13** Page 12 (Court Reporter interjects.) GARY LONG, being first duly sworn by 1 1 MR. BERSAK: I'm sorry. I 2 2 the Court Reporter, deposes and states as think we've been having anybody who has 3 follows: 3 access to confidential materials sign one of **EXAMINATION** 4 4 5 the non-disclosure agreements. That's been 5 BY MR. PATCH: the practice that we've had up to now. So 6 O. Good morning. 6 we've got them available if people want to 7 A. Good morning. 7 8 Q. I'm going to ask you some questions. If you 8 sign. MS. ROSS: You want to give don't understand the question, please ask me 9 9 to repeat it or rephrase it, and I'd be happy out a few copies now and we'll get started, 10 10 and hopefully we won't -to do so. Does that sound fair? 11 11 MR. BERSAK: I'll have Heather 12 A. Yes. 12 do that. 13 Q. Please state your name for the record. 13 MS. ROSS: Okay. Thank you. 14 A. Gary Long. 14 MS. TEBBETTS: Who needs them? 15 O. And your current position? 15 16 A. President, New Hampshire Renewable Energy MS. ROSS: Anyone who hasn't 16 signed one probably should. 17 Policy Development. 17 MS. TEBBETTS: Is there And your educational background? 18 18 Q. 19 A. Undergraduate degree, bachelor of science in 19 anybody here who hasn't signed one, other electrical engineering from New Mexico State 20 than Zack? 20 University, master of science in electrical 21 MR. PATCH: Well, counsel for 21 engineering from Northeastern University. TransCanada signed it, so --22 22 23 MS. ROSS: Is that adequate, 23 (Discussion off the record.) Mr. Bersak, or do you need additional BY MR. PATCH: 24 24

PAGE CO CARY LONG - 9/16/13 **GARY LONG - 9/16/13** Page 15 1 Q. And how long have you been employed by PSNH? 1 A. Yes. 2 A. Over 37 years. Who within PSNH reported to you as president? 3 Q. And what positions did you hold? Basically all employees of PSNH? 4 A. Several. The entry-level position was 4 A. No. 5 Q. No? assistant engineer, and the last position held with Public Service Company was A. No, not all employees. 6 6 president and chief operating officer. 7 Q. Okay. Could you describe who? 7 8 Q. And for how long did you hold that position? 8 A. Well, as I said, it changes from time to 9 A. Around 13 years. time. 9 10 Q. From when to when, roughly? 10 O. Let's talk about '08-'09, in that time frame. 11 A. Roughly, July 1st, 2000, to August 1st of 11 A. Again, it may have changed during that time 12 this year. frame. Generally speaking, generation 12 13 Q. And could you describe your responsibilities reported to me; what we call customer 13 as president of PSNH. operations, which is the operation of 14 14 15 A. General management responsibilities, electrical system, reported to me; something 15 functions directly under my supervision, we call energy delivery, which is 16 16 changed several times over the course of that predominantly engineering, reported to me; 17 17 other functions -- many other functions 13 years. 18 18 19 Q. Did those responsibilities include being 19 reported up through our service company, conversant in what was happening in financial called Northeast Utilities Service Company. 20 20 21 markets and spot price markets? 21 Q. So what portions of PSNH did not report to 22 A. We have a chief financial officer at you? 22 Northeast Utilities that provided services to 23 23 A. The regulatory might be one example. I don't 24 PSNH and other NU affiliates. So I would say 24 remember which employees might have been **GARY LONG - 9/16/13** Page 14 **GARY LONG - 9/16/13** Page 16 their focus was to provide services to us in called PSNH and which may have been called 1 1 that area. Northeast Utilities Service Company 2 2 3 Q. So I guess the answer is no, your employees. But there were -- PSNH employees 3 could have been customer service employees, responsibilities did not include that? 4 4 5 A. Well, you asked about financial, and then you but they didn't report to me. Meter readers 5 said spot markets. I'm not sure which spot at various times did not report to me; they 6 6 markets you're talking about. Lots of spot would have been PSNH employees. 7 7 markets out there. Q. So, for example, Bill Smagula, did he report 9 Q. Okay. Electricity? Price of electricity. to vou? 9 10 A. I had some familiarity. I don't track it day Yes. 10 A. to day. 11 O. And Lynn Tillotson, did she report to you? 11 12 A. Not directly. Neither did Bill report to me 12 Q. How frequently would you track -directly during that time period. 13 A. As needed. 13 So they reported to somebody else who 14 Q. So in the time frame, say summer of '08 to 14 O. 15 spring of '09, how frequently would you have 15 reported to you? tracked it? 16 A. Yes. 16 17 A. There was no schedule. It was not a daily 17 O. John MacDonald? occurrence. I did not manage the daily 18 A. Yes. 18 bidding, for instance, of power generation, 19 Q. How about NU employees? For example: I've 19 20 nor did I participate in daily markets. So seen the name Cameron Bready listed on the 20 it's -- it was as needed. 21 presentation you made in the summer of '08 to 21 the Board of Trustees. Did he report to you?

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22 Q. Did your responsibilities as president of

influencing legislation?

PSNH include promoting, opposing or

24 Q. What was the relationship, in terms of the

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23 A. No.

PAGE CO CARY LONG - 9/16/13 **GARY LONG - 9/16/13** Page 19 corporate structure, between you and him? 1 Q. But they had authority over decisions that 2 A. We were both officers of Northeast Utilities. you had to make or that you would make with I was an officer of Public Service Company, a 3 regard to capital projects. wholly-owned subsidiary of Northeast 4 A. As I stated, their role was to approve 4 Utilities. He was an officer of Northeast capital spending above a certain limit and to 5 5 oversee progress of major projects. 6 Utilities Service Company, reporting up to 6 Q. What obligations did you consider that you the CFO. 7 7 8 Q. So you didn't report to him, and he didn't had to them? 8 report to you. A. Obligations? We needed to comply with our 9 9 10 A. Correct. internal governance process. 10 11 Q. How about Jim Vancho? 11 Q. And so are there protocols in your internal 12 A. Yeah, he didn't report to me, either. governance process that would spell out, when 12 13 Q. And you didn't report to him. you were looking to get approval of a capital 13 14 A. No. project, exactly what you had to present to 14 them or what the standards were they would 15 Q. How would you describe your management style? 15 Do you consider yourself to be a hands-on 16 use to review that? 16 administrator, or one who likes to delegate 17 17 A. The exact material to present was project-dependent. The process usually 18 to others? 18 19 A. It depends on the circumstances. Generally, 19 started with a conceptual phase and would I depend on the team. I prefer to delegate proceed to a final stage, and then once 20 20 21 and operate as a team. 21 approved, it would consist of providing 22 Q. And can you explain to me what the Risk and update reports to the Risk and Capital 22 Capital Committee of NU is? 23 23 Committee. 24 A. It's a part of the Northeast Utilities 24 Q. So, for example, when the Risk and Capital GARY LONG - 9/16/13 Page 18 **GARY LONG - 9/16/13** Page 20 financial governance process. It's a -- I Committee approved the scrubber project at 1 1 the end of June of 2008, you were required to 2 guess its simple purpose, in my words, is to 2 approve capital projects and to oversee do update reports to them subsequent to that? 3 3 progress of major projects. I wouldn't say that they approved the 4 A. 5 Q. What about the board of trustees of NU? scrubber project. The scrubber project was 5 A. Typical of board of directors' role for any mandated by the State of New Hampshire. 6 6 Their role was to approve our capital 7 corporation. 7 8 Q. And so did that involve also approving spending to comply with that mandate. 8 capital projects? Okay. But the update reports subsequent to 9 9 A. Only those who were -- which were in excess that approval, how frequently did you do 10 10 of 50 million. those? 11 11 12 Q. So the Risk and Capital Committee was 12 A. Again, approval of the spending? anything, but the board of trustees was only 13 Q. 13 those that are over 50 million? 14 A. I don't know the exact schedule. At least 14 15 A. Not quite. Not every project had to go 15 once a year. More often if necessary. before the Risk and Capital Committee. Just 16 Q. And were those done in writing? 16 some. But any of those that were over 17 A. Yes. Usually a presentation. Usually an 17 50 million, in addition to needing the CEO oral presentation, perhaps accompanied by 18 18 approval, the CEO needed to go through the PowerPoint material. 19 19 board of trustees of the project. 20 Q. And minutes were typically kept of those 20 21 Q. And so what was your relationship with each 21 meetings?

22 A.

yes.

23

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SUSAN J. ROBIDAS, N.H. LCR

(603) 622-0068 shortrptr@comcast.net

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of those, with the Risk and Capital Committee

and the board of trustees?

24 A. I'm not a member of either.

Minutes of the action of the RaCC were kept,

MR. PATCH: I'd like to make a

PAGE 20 CARY LONG - 9/16/13 **GARY LONG - 9/16/13** Page 23 request, to the extent PSNH has not already 1 both, and you -- if either was not satisfied, 1 provided any of those updates or minutes of you couldn't really go forward. 2 2 With regard to the scrubber project, what 3 those minutes, that they be provided. 3 O. would you describe as the critical points in MR. BERSAK: I'd ask the 4 4 PSNH's decision to proceed with the scrubber hearings examiner what we're going to be 5 5 asked --6 6 project? 7 A. Well, decided to proceed... I think as soon (Court Reporter interjects.) 7 MR. BERSAK: My question to as the mandate was established and the law 8 8 the hearings examiner is whether this was enacted, that was obviously critical, 9 9 deposition is going to go beyond the because at that point we were thrown into a 10 10 questioning of Gary Long or be a continuation compliance mode. And we obviously had to 11 11 of discovery for other documents. comply with that law. So I would say that 12 12 MS. ROSS: I think what I was a critical -- obviously, the most 13 13 would suggest we do is we note these requests critical event was the state deciding and 14 14 on the record. As part of my report, I'll ordering us and mandating to us that we 15 15 either recommend that the Company produce the install the scrubber. So that put us in a 16 16 information or not, and then the Commission compliance mode. 17 17 can decide whether it wants to have this be Would you consider a critical point to be 18 18 O. 19 additional discovery. Is that fair for the 19 your decision as to whether or not to support legislation? parties? 20 20 21 MR. PATCH: That's fair. 21 MR. NEEDLEMAN: Objection. I think that's beyond the scope of the MS. ROSS: Okay. So we'll 22 22 23 note the request. It will be in your 23 deposition. transcript. So we'll see the actual request 24 24 MS. ROSS: I'll sustain that GARY LONG - 9/16/13 Page 22 **GARY LONG - 9/16/13** Page 24 in the transcript. 1 1 objection. BY MR. LONG: 2 2 BY MR. PATCH: 3 Q. Mr. Long, could you describe what you 3 Q. Well, okay. So you're saying the only critical point with regard to PSNH's -- well, consider to be your obligations to 4 4 shareholders? 5 let me go back then to --5 6 A. My obligation? As an officer of the company, MR. PATCH: Could we get the 6 I have fiduciary responsibilities to, I would letter, the September 2nd letter from 7 7 say, provide for investment security and fair Mr. Long to the PUC in 08-103. 8 8 return. BY MR. PATCH: 10 Q. And what about to ratepayers? Q. And I think there's a place in that letter 10 11 A. Similar. You know, I've always felt my job where you said that PSNH crafted the 11 was to make -- to satisfy both needs and the legislation. So I guess I would like to know 12 12 needs of customers, to provide reliable whether, in fact, that was the case. Seems 13 13 electricity at a reasonable cost. to me that it's relevant from a discovery 14 14 15 Q. And how would you balance those obligations? 15 perspective, which is supposed to be a In your mind, do they ever come into liberal standard, as to whether or not that 16 16 conflict? was a critical point in PSNH's decision to 17 17 18 A. Did they ever in my 37 years come into proceed with the scrubber. 18 conflict? MR. NEEDLEMAN: I'm going to 19 19 20 Q. Mostly when you were president of PSNH. 20 object --21 A. Well, I think --21 MR. PATCH: In the 22 Q. I just want some understanding of how you September 2nd letter to the Commission in the 22 23 balance those two obligations. 23 08-103 docket, Mr. Long took credit for 24 A. My philosophy was always you have to satisfy crafting and then also spearheading the 24

DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Page 25 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 27 legislation. And so what I'm trying to get out something about the Company's thinking 1 at is what the thought process was of PSNH at with regard to the project back then. 2 2 3 critical points in the decision-making з А. Yeah. At that time frame that you're process. Seems to me that's one of the referring to, there was an existing law -- we 4 4 sometimes refer to it as the "Four Pollutant critical points. They had to decide whether 5 5 or not they were going to -- whether or not Law" --6 6 they were going to support the legislation (Court Reporter interjects.) 7 7 that they, in fact, had drafted. A. Sometimes referred to as the "Clean Power 8 8 MR. NEEDLEMAN: I'll object Act." And there was an obligation by, I 9 9 again. Regardless of anything that may be would say the state and PSNH, to resolve the 10 10 11 contained in that letter, the Commission was 11 matter of how to reduce mercury emissions 12 explicit in its order with respect to this from our power plants. So it was an 12 13 deposition, that things like that were beyond 13 unresolved -- because nobody knew how to do the scope and not relevant. it at the time. So we had an obligation to 14 14 MR. PATCH: Well, I'd just work out with other parties, in we felt a 15 15 like to state, I don't think the Commission collaborative and cooperative way, how to 16 16 was explicit in that way at all. In fact, if comply with that part of the existing law. 17 17 you look back over the Commission's orders And that led to cooperation and discussions, 18 18 19 with regard to motions to compel in this 19 lengthy discussions, and tests and a whole docket, they've allowed a number of inquiries history of trying to figure out how to reduce 20 20 21 with regard to things that were said to the 21 mercury. And that ultimately manifested legislature and various aspects of itself in the 2006 law. 22 22 presentations to the legislature. So I don't So what were the factors that you considered 23 23 O. think that's correct at all. in deciding with regard to the scrubber? I 24 24 GARY LONG - 9/16/13 **GARY LONG - 9/16/13** Page 26 Page 28 MS. ROSS: I think what I mean, economic factors? You know, ability to 1 1 2 would allow in framing the question this way, 2 comply? I mean, what were the factors that is what was the Company's understanding of you considered when you were trying to decide 3 3 the process of the installation of that how to proceed with -- you know, with the 4 4 particular environmental compliance element, 5 consideration of that project? 5 which is the scrubber. I think it's fair to Clearly, trying to meet the requirements of Α. 6 6 ask the Company what it knew and what it the state, to try to meet the intent of the 7 7 thought at that point in time, not -- I don't law, which was to reduce mercury. The 8 8 believe it's appropriate to ask the Company methods and means were not known. So, to 9 9 10

- why it may or may not -- whether it attempted 10 to support or oppose the legislation, that 11 clearly the Commission has said is off 12 limits. But if you can phrase your question 13 to get to the Company's knowledge about the 14 15 installation at that time, I'll allow that inquiry. 16 BY MR. PATCH: 18 Q. Okay. Then my question, Mr. Long, is with
- 17
- 19 regard to the pre-2006 legislative session 20 and the Company's decision to proceed with supporting the legislation that was the 21 subject that -- with the scrubber project. 22 23 I'm not trying to find out what you did in the legislative session. I'm trying to find 24
- determine what would be the proper methods, 11 what methods could work to achieve the goal that the state wanted to achieve. So, 12 technical feasibility was a part of that. 13 14 O. Economics? Yes. Economics are, I would say, part of 15 A. everything we do. 16 17 Q. Impacts on customers? 18 A. Yes. 19 O. Return to shareholders? 20 A. Well, not -- it wouldn't be on the list. If 21 you could achieve the reductions through 22 operations which wouldn't involve any 23 investment by investors. So, no, that wasn't

24

a criteria.

Page 29 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 31 1 Q. So you figured you couldn't achieve without 1 decision to proceed with the scrubber, and we any capital additions? talked about 2006. How about after that law 2 2 3 A. We didn't know. That was part of the 3 passed? And I think the effective date of process. We tried carbon injection and that was June, June 8th of 2008 [sic], you 4 4 other, you know, techniques that required know, subject to check. Or I'd be happy to 5 5 much smaller amounts of investment than a show you, I think, a copy of the statute that 6 6 scrubber. So we obviously were interested in 7 shows that. 7 whatever worked best. 8 8 MR. BERSAK: I believe you Q. At some point it became clear that a capital said 2008. I think it was effective in 2006. 9 addition was required, though; correct? MR. PATCH: I'm sorry. You're 10 10 11 A. Well, there were small capital additions that 11 correct. June 8th of 2006. 12 may have been required for carbon injection. BY MR. PATCH: 12 13 But it wasn't until, you know, the scrubber 13 Q. So, assume for a minute that that was the idea came about that it was -- obviously, the effective date. Were there any critical 14 14 scrubber requires capital investment. points after that in PSNH's decision to 15 15 16 Q. And so I guess what I'm trying to get at is, proceed with the scrubber project? 16 when the decision was made with regard to the Well, once the law was passed, the decision 17 17 A. scrubber, what were the factors that you was made by the state, at that point our role 18 18 19 considered? 19 was to comply with the mandate. And part of that mandate was to reduce mercury emissions 20 A. Same. 20 21 O. Same. So, return to shareholders was not a 21 as soon as possible. And that was very clear to us by the way law was written that, and factor then --22 22 the discussions, that we were in a compliance 23 A. No. no --23 mode. And so our whole focus was to do 24 Q. -- even though it was a capital project? 24 **GARY LONG - 9/16/13** Page 30 **GARY LONG - 9/16/13** Page 32 1 A. What would be of concern would be cost exactly what the law said: Install the 1 2 recovery and a fair return to investors. But 2 scrubber as soon as possible. So that's -we -- it wasn't a project that investors had that was our focus. 3 3 asked for; it was a project that the state 4 Q. I'd like to try to understand whether you did 4 had mandated. So it wasn't viewed as -any economic studies back in that time frame, 5 5 obviously, it was a large investment. But sort of pre-2006 legislation, to determine 6 6 that wasn't our objective. Our objective was whether or not it made sense for you to 7 7 to reduce mercury. support that. Do you recall doing any 8 8 Q. And so mandated in 2006 or mandated prior to economic studies? 9 9 I personally didn't do any economic studies. 10 10 A. 11 A. Well, 2006 is when the law was passed that O. There is -- I guess I'd like to show you a 11 response to TC-2-3 -- TC standing for mandated the installation. 12 12 13 O. So there was no mandate before that. That's 13 TransCanada. the mandate you're talking about. (Long Deposition Exhibits 1 and 2 14 14 15 A. Yes. Well, there was a goal, I would say, 15 marked for identification.) probably the best way of saying it. There BY MR. PATCH: 16 16 was a goal and a desire for the parties to O. This is a response to a data request. At the 17 17 work out how to reduce mercury. And as I upper right-hand corner it says June 18, 18 18 19 said, that manifested itself in that mandate 2012, TC-2, and then it says Q-TC-003. And 19 20 getting passed in 2006. on Page 37, there was a request to provide 20 any and all documents that PSNH or any of its 21 Q. It was a mandate you supported; correct? 21 22 A. Yes, as did many others. It was a employees, et cetera, had provided to any 22 23 collaborative effort. It wasn't unilateral. 23 legislator or state officials. And on

24 Q. And I asked about critical points in the

Page 37 of that, there is a -- Page 37 being

DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Page S3 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 35 in the upper right-hand corner, the 1 scrubber. It's all forms of costs, including 1 not being able to generate power. I mean, numbering -- there is a letter that you wrote 2 2 3 back then, and there is a reference in that 3 it's not -- it's a different situation letter about the 2005 legislation, where you altogether. 4 4 Q. And in terms of impacts to ratepayers, had argued that it could add hundreds of 5 5 6 millions of dollars to PSNH's energy 6 different --7 production costs. 7 A. Oh, yes. Much, much more substantial and far-reaching. It's really -- it's a scenario And I guess what I would like to know 8 8 is, what changed between 2005 and 2006 that where you can't comply with the law, as 9 9 led you to take a different view of the opposed to a law that was passed that we 10 10 could comply. This one, it's just like night 11 legislation? 11 12 A. You're referring to two different and day. 12 legislation, if I can -- it looks like. 13 13 O. When you first became aware that the cost of 14 Q. That's right. I am. the project would exceed \$250 million, when 14 15 A. Yeah. So this is a different bill than the was that when you first became of that? 15 I believe it was somewhere in 2008. 16 one that passed. 16 A. 17 Q. That's right. What did you understand to be the reasons 17 18 A. And there were concerns with the bill as that the cost of the project had increased 18 19 drafted, and it never did pass. So this 19 from the original estimate of a not-to-exceed letter, as you call it, talked about the number of \$250 million to \$457 million? 20 20 21 concerns with that proposed legislation which 21 A. Well, we have -- I know it's in the data requests you've already asked for. We have never passed. 22 22 23 Q. All right. 23 several documents that list -- that answer 24 A. So I --24 that question. And I don't know if I can GARY LONG - 9/16/13 **GARY LONG - 9/16/13** Page 34 Page 36 1 Q. So I guess what I'm trying to find out -remember them all by heart here, but those 1 **2** A. I mean, I thought we weren't supposed to talk documents do exist. But it has to do with 2 about legislative things, especially things site-specific design, has to do with 3 3 escalating prices during that time in history that didn't pass. 4 5 Q. Well, no. I think it's important to 5 when there was a lot of installation of understand the committee -- the Company's scrubbers going on in the country, price 6 6 thinking with regard to the cost of the escalations, but -- and finishing -- getting 7 7 scrubber project. And in order to get at into more detailed engineering design where 8 8 vou could make more precise and accurate that, I'm asking you what changed between 9 9 2005 and 2006. Why did you support -estimates of the costs. 10 10 11 A. This particular bill wasn't feasible, wasn't 11 O. And with the cost increasing -- or the cost estimate increasing from \$250 to \$457 technically possible to do. 12 12 Okay. Well, that's what I'm trying to million, would PSNH still get its money back 13 O. 13 understand, is what the difference was. at \$457 million? 14 14 15 A. I don't remember, you know, all the details 15 A. Yes, so long as we managed the project of it, other than it had time lines that construction prudently. 16 16 could not be met. O. How much more would the project -- or was the 17 17 18 Q. Okay. And cost to ratepayers? Obviously, project going to make with the estimate of 18 19 that was a consideration that you put in this 19 \$457 million, for PSNH or Northeast

letter that we just cited.

21 A. Well, that goes with not being able to do it

in the time frame that was being proposed.

So if you look at the time frame, there's

significant costs. And it's not cost of the

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23

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on rate base.

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23

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22 O.

Utilities, versus \$250 million?

But clearly it was going to make

significantly more money in terms of a return

21 A. I don't have that number in my mind.

Page 570 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 39 1 A. Well, make more money because more money 1 A. "Amortization of the investment and would have to be raised and gotten from operational costs will be offset by 2 2 3 investors and invested. So, yes, in the 3 reductions in CO2 [sic] allowance purchases required by the New Hampshire Clean Power normal utility ratemaking, you expect to get 4 4 Act." And the response to this whole request a reasonable return on money that you had to 5 5 raise and invest for the public. says, "PSNH has never claimed that the cost 6 6 7 Q. But it's not like PSNH was going to have to of the scrubber will be fully mitigated by 7 spend any more because of that increase; the savings avoided in the purchase of SO2 8 8 emissions allowances." So as I stated correct -- any more that would not be 9 9 recovered from ratepayers. earlier, it's a partial offset. 10 10 Okay. Well, the record will speak for itself 11 A. Well, that's what the law says. We get 11 Q. recovery from customers. And, yes, we 12 on that. 12 13 believe the law. 13 But when did you first become aware that 14 Q. PSNH told public officials and legislators the SO2 allowance purchases would not offset 14 that the amortization and the investment in 15 15 operational costs? From the very beginning, as I said, it's --16 the scrubber and the operational costs would 16 A. be offset by reductions in SO2 allowance oh, you said operational costs. Excuse me. 17 17 purchases that were required by the New I was thinking of total costs. 18 18 19 Hampshire Clean Power Act. Do you recall 19 (Court Reporter interjects.) that? 20 A. You said operational costs. Clarification. 20 It says, "operational costs." I guess my 21 A. Yeah, partially offset. 21 22 Q. Well, how about if we take a look at TC-2-3, point is it wouldn't have offset all of the 22 Page 9. Is that -- that's the one we already 23 23 costs of the scrubber. 24 handed out. 24 Q. So I guess, if I understand you correctly, GARY LONG - 9/16/13 **GARY LONG - 9/16/13** Page 38 Page 40 MS. GOLDWASSER: Yeah. you're saying what you suggested with regard 1 1 BY MR. PATCH: to the offset from the beginning turned out 2 2 3 Q. Could you read into the record the second to be true; it never changed. 3 bullet. And maybe we ought to establish, A. No. SO2 allowance prices change from time to 4 first. On Page 2, it indicates that this is 5 time and have changed over time. 5 New Hampshire Senate Bill 128 Proposed So the degree to which the amortization of 6 O. 6 Amendment. 128 was the 2005 legislation; the investment in the scrubber and the 7 7 correct? operational costs would be offset. You would 8 **9** A. I don't know. admit that the degree to which it would be 9 10 Q. You don't know? Okay. Well, let's assume offset changed over time and was not as 10 significant as PSNH had originally told for a minute that that's the case. It says 11 11 proposed amendment, framework, key talking public officials it would be. Would you 12 12 points, October of '05, draft for discussion 13 agree with that? 13 purposes only. And then on Page 9, the I would agree that the price of SO2 14 14 A. 15 second bullet, could you read what that says. allowances have changed. It's declined 15 (Witness reviews document.) recently. But it was sort of an extra side 16 16 17 A. Page 9? benefit of -- well, a very significant -- I 17 Q. Nine in the upper right-hand corner. In the shouldn't say a side benefit -- a very 18 18 significant benefit of the scrubber, which 19 lower right it's eight. 19 20 A. Well, I can't read it. What do you want me was designed to reduce mercury, that it was 20 looked at very favorably that it would also 21 to read, the data request number? 21 22 Q. No, the second bullet on that page. reduce CO2. So, in the process of reducing 22 23 A. Oh, starts with "Amortization"? 23 mercury, reduce CO2 [sic] in the process of 24 Q. Yes. reducing -- I should say not CO2, SO2 -- that 24

PAGE 410 GARY LONG - 9/16/13 **GARY LONG - 9/16/13** Page 43 it would remove PSNH's obligation to buy SO2 1 of the project had increased from \$250- to 1 \$457 million, does this help to recall when allowances. And that was estimated, and it 2 2 3 changed over time. 3 you first became aware of that? 4 Q. Changed to whose benefit or to whose Well, I don't remember the day. I just 4 A. detriment? remember, you know, it was in 2008. This 5 5 document, at least the spreadsheet, is dated 6 A. Well, either way, customers don't have to pay 6 it anymore. I mean, the cost -- I mean, by 7 5/6/08. 7 not having to buy allowances, customers no 8 Q. So, according to your recollection, is this 8 longer are, you know, exposed to the cost of around the time frame when you became aware 9 9 buying allowances. So it's to customers' of that? 10 10 11 benefit. 11 A. Yes. 12 Q. I'd like to direct your attention to the 12 Q. Was there any time prior to this that you became aware that the cost had increased, 13 response to TransCanada 4-9. 13 14 (Long Deposition Exhibit 3 marked that you can recall? 14 for identification.) 15 15 A. I don't know. You know, if so, it would be 16 Q. The second page of the response indicates probably days or -- where, you know, a direct 16 that this is Merrimack Station Clean Air report could have said the price is --17 17 Project Strategic Sourcing Plan, dated (Court Reporter interjects.) 18 18 19 June 15 of '07. Do you recall this document? 19 A. Yeah, I mean, it could be that I was orally 20 A. I recall the subject. This is not a document informed that they were having some 20 preliminary results. But it would have been 21 I prepared. 21 22 Q. Okay. Do you know who prepared it? in the same general time frame. 22 23 A. No, not for sure. It would probably have 23 Q. Okay. With regard to the Risk and Capital been directed under -- prepared under the 24 24 Committee, when you prepared to make the GARY LONG - 9/16/13 Page 42 **GARY LONG - 9/16/13** Page 44 direction of the vice-president, who reported presentation to the Committee -- and I guess 1 1 I think we need to look at Staff 2-2, you 2 to me, and his team, along with our 2 purchasing department, legal, and perhaps know, which is a copy of the PowerPoint that 3 3 was used for that presentation. So why don't others. 4 5 Q. Okay. And who was the vice-president? 5 we mark that first. 6 A. John MacDonald. (Long Deposition Exhibit 5 marked 6 7 Q. Okay. And do you recall whether it was for identification.) 7 presented to you at a meeting or given to you Q. And in the upper right-hand corner, Page 5 of 8 8 in writing, or do you recall how it was 50, the cover page to that presentation, 9 presented? indicates it was made on June 25th of '08; 10 10 11 A. No. indicates it was made by you, John MacDonald 11 and Jim Vancho. Does that square with your 12 Q. But you recall seeing it, at least? 12 13 A. No. What I recall is sourcing of equipment 13 recollection? and services was a very critical part of the 14 14 A. Yes. 15 early part of the project to move forward 15 Q. What were the factors that you took into with meeting the mandate. account when you prepared this presentation? 16 16 17 Q. I'd like to direct your attention to the 17 A. I don't know how to answer that. The factors response to TransCanada 4-10. in preparing this was to inform the RaCC of 18 18 (Long Deposition Exhibit 4 marked the new estimates and the status of the 19 19 20 for identification.) project, and show them the reasons and the 20 21 Q. And this is the May 2008 project cost 21 rationale and the impact that the mandate estimate. Now, when I asked you the question 22 would have on customers. 22 23 before about did you recall when you first 23 Q. Okay. And you were seeking their approval at this time; correct? became aware that the estimate for the cost 24 24

DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Page 45 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 47 1 A. This was -- yes. We had previously sought 1 don't think Mr. Long should be required to approval and gotten it to do some project answer hypotheticals. 2 3 spending, to hire an engineering construction 3 MR. PATCH: I think it's very manager, and do some work that had previously relevant to discovery. 4 4 MS. ROSS: I'll instruct the been approved. And then as a result of that 5 5 witness to answer. 6 work, we now had our, what we call our final 6 estimate, and it was part of the process to Well, that wasn't considered. That number 7 7 A. present the final estimate. was not considered. We were operating in a 8 8 Q. And did the Risk and Capital Committee have compliance mode with the information that we 9 the authority to say no to the project? had. And as soon as we had finished doing --10 10 11 A. No. No, it was a mandate by the state. It 11 making progress on our engineering, detailed 12 wasn't a company decision to make. We -- our engineering and procurement processes, then 12 we were in a position to show that internally 13 role was to comply. And in doing that, we 13 14 needed to raise capital, and doing that we 14 and to show it externally. And that's what needed to have procurement. We needed to we did. We informed the legislature, the 15 15 understand the impact. But we were in Public utilities Commission and others what 16 16 compliance mode, not decision mode. The this new estimate was. But since it wasn't 17 17 decisions that we made were regarding our decision to go forward, and the 18 18 19 construction and compliance with the mandate, 19 legislature had full knowledge of the new and we tried to do it as soon as possible in estimate, and the law didn't change, so our 20 20 compliance requirement did not change. 21 accordance with the law. 21 22 Q. So, then, explain to me again what the role 22 BY MR. PATCH: of the RaCC, as you called it, was. It When did you give the legislature knowledge 23 23 of that new estimate? 24 wasn't whether to say yes or no to the 24

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project? 1

2 A. Well, right. This is a compliance process

for us internally. This was not a project 3

- decisional process. It was -- you know, as I 4
- said earlier, one of the roles of the RaCC is 5
- to monitor the process of large projects to 6
- ensure their success. And they obviously 7
- want a lot of information to do that. But 8
- this was very unusual and very unique. It's 9
- the only project I've ever seen in my career 10
- where you've been mandated to do that by the 11
- state. It's not the normal way that we 12
- proceed. And, of course, the RaCC was really 13
- defined for normal projects, where management 14
- 15 has discretion. But management had no
- discretion on this one. It was already 16
- mandated. 17
- 18 Q. So, regardless of what the cost on the
- 19 project had escalated to -- let's assume for
- 20 a minute it had escalated to a billion
- 21 dollars -- then it was a mandate, and you had
- 22 no choice.
- 23 A. Well --
- 24 MR. NEEDLEMAN: Objection. I

- 1 A. It was in 2008. We had the PUC -- it was
- 2 general public knowledge once we provided it.
- 3 It was also disclosed in our filings with the
- Securities and Exchange Commission. 4
- 5 Q. But you didn't tell the legislature in June
- of '08, when you met with the Oversight 6
- Committee -- not you personally, but when 7
- PSNH officials did -- did you? 8
- A. I don't -- I wasn't there. I don't know what you're referring to. 10
- 11 O. There's a response to discovery requests that
- has a one-page sheet that has -- that was 12
- presented to the Oversight Committee, that 13
- has nothing on it about the increase in the 14
- 15 cost estimates. So --
- 16 A. That doesn't mean there wasn't awareness on 17 that.
- Oh, so you're saying you didn't put it on the 18 Q.
- 19 sheet, but somebody whispered in the
- legislators' ears? Or what are you saying? 20
- I'm saying that's not the only communications 21 A.
- that happens in business is the one that 22
- 23 you're looking at. It's not the only
- 24 communications that happened.

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1 Q. But that was a statutory requirement, that

- you keep the Oversight Committee informed;
- was it not?

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- 4 A. But I -- not to -- talk to me about what
- documents. Show me the documents. Show me
- 6 the people who presented. I don't recall
- 7 doing that.
- 8 Q. Okay. Well, we'll come back to that later, I
- 9 guess.
- And what about the role of the board of trustees? Did they have the authority to say
- **12** no?
- **13** A. Well, do they have the authority? I suppose
- they could direct management not to work on
- the project, but then we'd be out of
- compliance. And there were severe penalties
- with doing that. So, I personally don't
- imagine our board of trustees going against a
- mandate of the State of New Hampshire. So I
- wouldn't view that as a realistic option.
- 21 Q. So the only authority that the board of
- trustees had was to approve the expenditure.
- 23 A. Well, no. It's to ensure that management is
- managing the project well.

- presentations any indication that the project
- was a mandate. Can you explain to me why
- that's the case?
- 4 A. Well, there might be other documents if it's
- 5 not contained in there. There's very clear
- 6 communication and very clear understanding
- 7 within Northeast Utilities and PSNH that it
 - was a mandate, yes.
- 9 Q. I don't see anything in the minutes of either
- meeting indicating that, either. Could you
 - explain that?
- 12 A. I would have to review those minutes. But
- regardless, I'm telling you that it was very
- well understood that we were complying with
- the state law.
- 16 Q. It was understood, but it isn't clear that
- you told either one of those groups.
- **18** A. I can tell you they understood.
- 19 Q. And what if either one of them had not
- approved the request? What would you have
- 21 done?
- 22 A. Never faced that situation.
- 23 O. Pardon?
- 24 A. I never faced that situation.

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- 1 Q. And so, when we look at Staff 2-2, Page 29 of
- 2 50, it indicates that you and Cameron Bready
- made the presentation to the board of
- trustees on July 15th of '08. Does that
- 5 square with your recollection of that?
- 6 A. Yeah, we were sponsors -- or we were
- 7 presenters at that meeting.
- 8 Q. Why were the presenters different at that
- 9 meeting than at the RaCC meeting? What role
- did Cameron Bready have versus Jim Vancho,
- for example?
- **12** A. Jim Vancho reported to Cameron Bready.
- 13 Cameron Bready was, you know, a finance
- officer of the company. It was that job --
- or the role of the finance group to
- financially analyze all projects that went
- before the RaCC.
- 18 Q. And so this was a higher level of approval
- needed, the board of trustees. So, somebody
- of a higher authority made the presentation.
- Mr. Bready was higher than Mr. Vancho;
- correct?
- 23 A. Yes.
- 24 Q. I don't see in either of these two

- 1 Q. Well, I'm asking you hypothetically. What if
- either the risk committee or the board of
- trustees had not approved the request? What
- were the options available to you at that
- 5 time? What would you have done?
- 6 A. You sort of asked a similar question earlier.
- You know, my role was to comply. I have to
- 8 comply with state law. I have to look out
- 9 for the interest of customers, and I have to
- do what my superiors say. So I have to
- comply, you know. So I can't tell you,
- hypothetically, if they would have said no,
- what I would have done. I, you know, could
- have screamed and yelled. I could have quit.
- But if I'm going to work there, I have to
- comply. I have to comply with the law.

You know, in our executive summary, what you were just saying, we never said it was

- mandated. On Page 30 of 50, it says, "New
- Hampshire legislation mandates compliance to
- mercury emissions standards set forth in the
- New Hampshire Mercury Reduction Act." So we
- had communicated numerous times with my
 - superiors at Northeast Utilities of this, and

PAGE 53 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 55 I can tell you they were well aware of the 1 on the papers that you submitted asking for 1 law, the law that was passed, and what it the deposition. 2 2 3 mandated. 3 MR. PATCH: Not true. Not 4 Q. So if the risk committee or the board of true. I don't think that's true at all. I 4 trustees did not approve, was an option to go think that's mischaracterizing what the 5 5 back to the legislature and ask for relief 6 6 Commission said. from the law? MS. ROSS: I think, Mr. Patch, 7 7 8 A. Again, never got to that situation, never had what I would -- a question that I would allow 8 to do that. As we were in compliance mode, would be to get to the Company's knowledge of 9 9 you know, we were updating most everyone on the project in that time frame as opposed to 10 10 11 the status of the project, the costs. And, 11 whether or not they took a specific action to 12 you know, it's up to the legislature to influence the legislature. 12 13 decide if they wanted to change course. Of 13 MR. PATCH: Well, I guess the 14 course, they were well aware of the \$455 question I'm trying to have answered is, if 14 million estimate, and they did not -the committee or the board had said no, was 15 15 an option that was available to PSNH to go (Court Reporter interjects.) 16 16 17 A. -- the \$457 million estimate and did not back to the legislature and basically say, 17 change course. And so we had to continue to you know, We don't have authority from our 18 18 19 comply with the law as it was. 19 board; it's become too expensive; you know, 20 Q. But you would admit, would you not, that you please relieve us of this responsibility or, 20 21 were, as Senator Bradley said, "complicit" in 21 at a minimum, study it before we proceed. And I think that's very relevant to what the 22 22 options are and very relevant to the 23 A. No, I would not agree with that. 23 24 Q. You don't believe that -- you didn't consideration of what a prudent utility under 24 **GARY LONG - 9/16/13** GARY LONG - 9/16/13 Page 54 Page 56 participate in the lobbying and the those circumstances would have done, which is 1 1 legislative session of 2009? Is that what 2 2 the central theme of this case. you're saying? MR. NEEDLEMAN: Well, and I'll 3 3 MR. NEEDLEMAN: I'm going to object. Not only is it a hypothetical, but 4 4 object again. We're wandering again into 5 it's a hypothetical that goes to influencing 5 areas that have to do with interactions with legislature, which is exactly what we're not 6 6 the legislature, which I understood to be supposed to be discussing here. 7 7 beyond the scope here. MR. PATCH: I think it's 8 8 MR. PATCH: Well, I would just critical. I think it's critical to what a 9 9 like to say that PSNH keeps saying it was a prudent utility would have done under the 10 10 mandate, it was a mandate. And clearly, they circumstances. 11 11 had significant involvement in legislative MS. ROSS: I'll sustain the 12 12 processes. So I don't think they can just 13 objection. You may probe the witness as to 13 continue to fall back on that argument his knowledge of the project in that time 14 14 15 without explaining themselves. 15 frame and as to any communications that the MR. NEEDLEMAN: It's not --Company had which divulged its understanding 16 16 MR. PATCH: I think it's of the project or the cost of the project. 17 17 important for discovery to be able to ask BY MR. PATCH: 18 18 19 that question. Q. Let's look at the June 25th, '08 presentation 19 20 MR. NEEDLEMAN: It's not that you made to the Risk and Capital 20 21 falling back on an argument. The Commission 21 Committee. And let's look at Page 18 of 50 ruled explicitly on this issue and said that in the upper right-hand corner. And I want 22 22 23 this wasn't going to be the subject of this 23 to look at the last entry on that page. And deposition, and that was premised explicitly I'll read it to you. It says, "Loss of 24 24

PAGE 57 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 59 PSNH's Merrimack Station would call into 1 from the last phrase that I pointed out. It 1 says, "Brattle Group analysis of future question the viability of operating the 2 2 3 remaining generating assets as a fleet." And 3 energy markets indicates that all coal I guess I would like you to explain what that generation, including Merrimack, will 4 4 sentence meant. continue to operate economically." 5 5 BY MR. PATCH: 6 A. Well, again, this is a Risk and Capital 6 Committee. So, you know, they'd like to know Q. And so now on to TS-1-8. The Brattle Group 7 7 what the risks are. And this is just talking analysis that PSNH has provided in response 8 8 about the risk of not complying with the law to data requests is dated August 1st of '08, 9 9 means that Merrimack Station would not be if you look at Page 2 of 37. And I've asked 10 10 a couple of times in data requests -- well, 11 able to operate. And if Merrimack Station 11 12 was not able to operate, it would draw into at least in TransCanada 4-24, and then in 12 13 question the remaining fleet operation. 13 Technical Session 2-12 -- for the Brattle Why? I don't understand why it would call Group analysis that is referred to in the 14 O. 14 June and the July presentations. 15 into question --15 So I'm trying to understand, is there **16** A. Because we operate as a fleet. 16 another Brattle Group analysis that predates 17 Q. What does that mean? 17 18 A. One management structure, one -- they're all August 1st, that predates your presentations? 18 19 used interactively to serve the energy needs 19 A. Well, this Brattle Group study you're of our customers. referring to that has a date of August 1st, 20 20 2008, was done for Connecticut Light & Power, 21 Q. And so if you didn't have Merrimack Station, 21 you couldn't operate the other generating not Public Service Company. So, just for 22 22 23 facility? 23 clarification. And as far as the date 24 A. It's a -- you could get to a question of 24 reconciliation, you know, again, I wasn't GARY LONG - 9/16/13 Page 58 **GARY LONG - 9/16/13** Page 60 scale, where it's just too small a scale to involved with that study. So I don't know 1 1 have -- to continue to have a structure to if -- you've already asked it in data 2 2 manage it. requests. I don't know if I can add any more 3 3 4 Q. So you would have had to cut the number of intelligence. Insofar as is this a publish 4 people involved in that portion of the 5 date or a date when it was internally 5 business? available, I just can't really comment on 6 6 7 A. Again, this is just a concept here. That that because I wasn't involved with this 7 level of detail was never developed. particular work by Connecticut Light & Power. 8 8 This presentation refers to a Brattle Group Okay. I guess I would ask your counsel, 9 O. 9 analysis of future energy markets, and it's though, if they could go back and check 10 10 again, because we've asked a couple times, actually referred to in a number of 11 11 presentations that were made to the staff, I and this is what we keep getting references 12 12 think to the board of trustees, and what PSNH 13 13 has provided in response to data requests. MR. PATCH: I'd like to see a 14 14 15 And I'll refer now to Technical Session 1-8, 15 copy of the Brattle Group analysis that was Page 2 of 37. We'll stop and mark that. referred to in the June and July 16 16 (Long Deposition Exhibit 6 marked presentations to the RaCC and to the board of 17 17 for identification.) trustees, and then also the presentation that 18 18 MS. FRIGNOCA: Would you was made to staff. And the references I keep 19 19 20 please repeat the page you're referring to? getting is this one, but obviously the date 20 doesn't jive. So I guess I would ask if MR. PATCH: Yeah. I'm 21 21 referring to Page 18 of 50, first of all, in you'd double-check that, and if there is a 22 22 23 the response to Staff 2-2, where it says, 23 different analysis, if you would provide three up from the bottom, and it's two up 24 that. 24

DEPOSITION OF: GARY LONG - September 16, 2013 DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST PAGE OF GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 63 BY MR. PATCH: 1 important in all things, but it's not the only thing that's considered. And within the 2 Q. In your July 15th, 2008, presentation to the 2 board of trustees -- and this is in Staff 3 financial analysis that was prepared to help 2-2 -- you said that expected future price people understand what the impact of this 4 4 for natural gas and the spread between compliance was, this was one of the factors 5 5 natural gas prices and coal prices are that affect the overall economics to 6 6 critical to the assessment of customer customers. 7 7 impacts. And I'm looking at Page 37 of 50 --8 Q. After the -- you made the presentation to the 8 I'm sorry, 34 -- 34 of 50. And then I'm board, did you have an ongoing obligation to 9 9 looking at 38 of 50, which is Key Financial update the board about changes in natural gas 10 10 Takeaways; Customer value of scrubber 11 11 and coal price projections? 12 installation extremely sensitive to future No, not me particularly. We had an 12 A. 13 expected natural gas/coal price spread." Do 13 obligation to update the RaCC on the status you see that? of the construction and our progress in 14 14 complying with the mandate. 15 A. Yes. 15 Do you know why -- and I guess I'll refer you 16 Q. Is it fair to say that you recognized then --16 O. meaning in June of '08 and July of '08 -- how to Staff 2-2, Page 50, which is the signature 17 17 important the relationship between the future of Charles W. Shivery -- did I say his last 18 18 19 expected price of natural gas and of coal was 19 name correctly? to the impact on customers? 20 A. Close enough. 20 21 A. Yes, we understood that. I understood that 21 Close enough. Okay -- dated September 24th of '08, more than two months after the board it had an impact. 22 22 of trustees's meeting. Do you know why it 23 Q. In this presentation, Page 35 and 37, there 23 24 are a couple of references to a customer 24 took him more than two months to sign off on GARY LONG - 9/16/13 Page 62 **GARY LONG - 9/16/13** Page 64 break-even level of \$5.29 cents an MMBtu. Do the project? It says "approval of capital 1 1 you see that on Page 35, in that chart? In 2 2 funding." the right-hand side column it says, "Net 3 A. He's a businessman. We were proceeding. I 3 Customer Impact Break-even Rates," and then don't know what other things he was doing 4 4 it says \$5.29. 5 during that time frame, but I know he was a 5 6 A. Yeah, I see that. 6 busy man.

- 7 Q. And then on Page 37 it says at the top,
- "Gas/coal spread have averaged \$3.18 an MMBtu 8
- over the last 15 years as compared to the 9
- required customer break-even level of \$5.29 10
- an MMBtu, based on current price levels." 11
- What was your understanding of what that 12
- meant? 13
- 14 A. It was just -- it's one of the factors that
- was looked at in the economic analysis. 15
- 16 There were other factors. It was a
- significant factor. So, just trying to 17
- understand how that single factor in itself, 18
- 19 you know, how to put meaning to it. But it's
- 20 just one of many factors.
- 21 Q. So it didn't have any more importance than
- anything else, in your mind. 22
- 23 A. Well, the state law found the product to be
- in the public interest. And economics are 24

- Did you have any conversations with him 7
 - between the approval from the board of
- trustees on September 24th about the project 9
- that you recall? 10
- Not that I recall, but I may have. I just 11 A.
- don't recall. 12

- 13 Q. Would there be any documentation exchanged
- between the two of you during that period of 14
- 15 time with regard to the project?
- Personal documentation other than what --16 A.
- No. E-mails or memos or anything related to 17 the project. 18
- 19 A. I doubt it. I don't recall any. I don't
- directly -- I didn't then, and I don't 20
- 21 directly report to him. So it wouldn't have
- been my practice to contact him directly. 22
- 23 Q. Who would you have contacted if you were 24
 - going to provide information about the

Page 65 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 67 project in that time frame? 1 Q. I want to direct your attention to the 2 A. Well, my immediate supervisor is Lee Olivier. response to TransCanada 4-17. 2 3 O. Leo? 3 MR. PATCH: If we could mark 4 A. Lee, L-E (sic). 4 this. 5 O. L-E? Lee Olivier? (Long Deposition Exhibit 7 marked 5 6 A. O-L-I-V-I-E-R. for identification.) 6 7 Q. Do you recall whether you had any The first page after the response -- so it 7 conversations with him or any exchange of would be Page 2 of 11 -- indicates that it's 8 e-mails or memoranda with regard to this a Merrimack Station Clean Air Project Cost 9 9 project in that time frame? Estimate Analysis, dated June 17th of '08, 10 10 11 A. Let's see. We started talking about Chuck 11 done by PowerAdvocate. Who was 12 Shivery's approval. Are we still talking PowerAdvocate? 12 13 about --13 A. They were a consultant hired by our (Court Reporter interjects.) generation group. 14 14 15 A. We started out talking about Chuck Shivery's And do you recall seeing this cost estimate 15 Q. approval. Are we still talking about that? analysis? 16 16 17 Q. Well, we're talking about July 15th of '08 to Not specifically. 17 A. September 24th of '08. I want to call your attention to a reference 18 O. 18 19 A. You know, I typically see him once a week. 19 on Page 3 of 11. And the first numbered So I can't recall things we would have talked paragraph says, "Explain why Merrimack 20 20 about. But it's a variety of things, you Station's CAPS's cost estimate is on the high 21 21 know, that I was responsive for in addition end of the cost per kilowatt range for a 22 22 complete FGG -- FGD retrofit relative to 23 to generation. 23 similar FGD retrofit projects." Do you see 24 MR. PATCH: I would like to 24 GARY LONG - 9/16/13 Page 66 **GARY LONG - 9/16/13** Page 68 ask if there is any documentation that PSNH that? 1 1 might have of conversations between Mr. 2 2 A. Yes. Olivier and Mr. Long in that period of time 3 Q. And then I want to call your attention to 3 that related to Merrimack Station in any way. Page 8, 8 of 11. Not 8 in the lower 4 4 5 A. I can tell you I don't have any, so I doubt right-hand, but 8 in the upper right-hand 5 that there was any. But I don't recall any. corner. And the first paragraph says, 6 6 BY MR. PATCH: "Capital construction costs for new 7 7 generation and transmission projects remain Q. I thought you said you don't recall, and 8 that's why I'm asking for it. Are you saying at historic levels, with no clear 9 9 now, definitively, there isn't any or -understanding of whether or not we have 10 10 11 A. What I was describing to you is a process reached the peak due to the recent volatility 11 where we see each other personally and as of costs associated with the supply market. 12 12 part of group meetings, and they're not This fact, coupled with the increased 13 13 recorded. I don't record them. So they're uncertainty around projected carbon 14 14 15 just interaction, oral discussion. So I 15 regulations and the effects of a tight labor can't recall, nor has it been recorded, you market, the utility industry finds itself in 16 16 know, what do we talk about. We talk about a a period of time when there seems to be no 17 17 variety of things, operational things and good indicator for investment decisions." Do 18 18 update of progress on meeting goals. So I 19 you see that? 19 may have reported on the progress of meeting 20 Yes. 20 A. the compliance, but I -- there's not anything 21 Q. Did you incorporate these cautions in your 21 significant or that I recall being recorded reports to the risk committee and the board 22 22 23 in any way, nor do I expect there is any 23 of trustees? recording of oral conversations. 24 A. This is a draft report. It has the word 24

(603) 622-0068 shortrptr@comcast.net

DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Page 69 GARY LONG - 9/16/13 **GARY LONG - 9/16/13** Page 71 "draft" on it. But this was part of the 1 industry that even had natural gas companies 1 input to the management team, you know, to not certain, but in the case of TransCanada, 2 2 3 help understand why the costs have changed 3 certainly projecting five-year price increases in natural gas in that '09, '10, over time. 4 4 5 Q. So you didn't think it was important enough '11 time frame. So we would look at the 5 to include it in those presentations? reports of companies like theirs and others. 6 6 7 A. I'm not sure that's a fair characterization. But I think our main conclusion would be it's 7 8 Q. Okay. Well, you can characterize it however very volatile. 8 you want. Q. Who had the responsibility within the company 9 9 10 A. Well, we obviously thought it was important for developing -- for reviewing those 10 forecasts, first of all, I guess I'd say? 11 to enlist PowerAdvocates to look at these 11 questions. So, obviously, it's important. 12 A. Well, there is no single responsibility. As 12 I said, we typically don't perform those 13 Q. Okay. But not important enough to mention it 13 14 to the RaCC or the board of trustees, or forecasts. We look at what others have done. 14 ultimately the PUC in September. We obviously, in the day-to-day bidding 15 15 16 A. Now, what point are you thinking that is process, need to look at short-term prices, 16 excluded? Because we've listed a number of what's posted out there. But long-term 17 17 facts and risks to the RaCC Committee and prices were changing quite a bit, and still 18 18 19 summaries of what the price -- the cost 19 change were. So I would say this report was Who's the "we" in that response? That's what 20 20 O. 21 used. 21 I'm trying to understand. We have what's called a wholesale marketing 22 Q. Okay. Well, I didn't see anything in those 22 A. presentations, so I'm just asking why it group and generation personnel who bid 23 23 generation in the market on a daily basis, 24 wasn't there. 24 **GARY LONG - 9/16/13** Page 70 **GARY LONG - 9/16/13** Page 72 1 A. I can't answer that question any better than who plan for how we'll meet our customers' 1 needs in the next week, the next month, the I just answered it. 2 3 Q. Okay. In that time frame, in the summer of next six months. 3 '08 and the fall of '08, and actually early 4 O. And so they're the ones who would be 4 into '09, what was the way in which you responsible for reviewing those forecasts and 5 5 personally, and PSNH more generally, checked then presumably reporting to others in the 6 6 and evaluated natural gas and coal prices and company, including yourself? 7 7 price projections? What did you have in The forecasts that you're thinking here are 8 A. place? Who was the one that did that? How posted prices for the purpose of determining 9 9 how to manage our power portfolio. It's not did that relate to your responsibilities? 10 10 I'd like a little bit of background on that. long-term forecasts or five-year forecasts 11 11 On commodity prices? like TransCanada puts together. 12 A. 12 Q. Natural gas and coal prices and price Okay. Well, I'm not interested in those, in 13 O. 13 terms of managing the portfolio that you projections. 14 14

- Well, those projections were changing. We
- 15 A. don't typically project gas prices ourselves. 16
- We look at what others are forecasting. I 17
- mean, your own client, during that time 18
- 19 frame, was questioning decisions based on
- short-term prices and had been altering its 20
- forecast when it considered its McKenzie 21
- Project, its Keystone Project and then the 22 23 Maineline Project. So I think the changes --
- there were many changes happening in the gas 24

- 15 referenced. I'm interested more in the
- natural gas and coal prices and price 16
- projections as they relate to Merrimack 17
- Station, because clearly that was done in the 18
- 19 summer of '08, and that was filed with the
- Commission in September of '08; correct? 20
- 21 A. I don't know what forecasts -- I'm not
- familiar with their forecasts. It's -- you 22
- 23 know, what I've said repeatedly is that
- long-term forecasts are typically not 24

DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Page 73 GARY LONG - 9/16/13 **GARY LONG - 9/16/13** Page 75 reliable, and particularly in that time frame that it isn't. 1 where they were changing. Like I say, even BY MR. PATCH: 2 3 TransCanada was changing its forecast every O. So you don't know what these are, then, I year, and they're in the business. So we're guess, is what you're telling me. 4 4 not in the -- I'm not in the practice of A. I haven't -- I didn't prepare that response. 5 5 directing my subordinates to do a long-term I didn't prepare the forecasts. 6 6 forecast and then depending on it. It's more Q. Would you take a look at them just for a 7 7 of managing what we have and complying with minute and tell me whether -- well, first of 8 8 all, have you ever looked at fuel price 9 the law. 9 10 Q. I'd like you to take a look at the response forecasts in your career as president of 10 11 to TransCanada 1-2. 11 PSNH? Has been that previously been marked? 12 A. Yes. I've never done a fuel price forecast, 12 A. 13 Q. Not yet. I don't think we've marked this. but I have seen results of fuel price 13 14 (Long Deposition Exhibit 8 marked forecasts. 14 15 Q. Is this what they would typically look like? 15 for identification.) 16 Q. And the question was: "Please provide all Would there be a narrative accompanying them? 16 fuel price forecasts available to PSNH at the Would they have a company identifier? Would 17 17 time of its initial decision to construct the they be marked "proprietary"? 18 18 19 flue gas scrubber at Merrimack Station." 19 MS. ROSS: Could you ask one You objected. Commission ordered a question at time, please. 20 20 21 response, and then you responded. You, PSNH, 21 BY MR. PATCH: responded. And it says, "The fuel price Q. Okay. Is this what they would typically look 22 forecasts available to PSNH at that time are 23 23 like? 24 provided in the attached, which includes 24 A. Again, I don't prepare them. But, you know, GARY LONG - 9/16/13 Page 74 **GARY LONG - 9/16/13** Page 76 NYMEX and broker forward fuel price seeing a table like on Page 2 of 68, that 1 1 quotations from June '08," and then it goes might be a typical summary of a forecast. 2 2 on from there. Could be in graphical form. As I said, I've 3 3 So, attached to this are what we were looked at TransCanada ones which were in 4 4 provided in response to that data request. 5 graphical form. Those are summaries of 5 And I guess I would like to ask, first of studies. As I said, I haven't done a fuel 6 6 all, are these the kind of fuel price forecast myself. 7 7 forecasts that you would have personally Q. When you've looked at them, do they typically 8 reviewed? have a narrative accompanying them? 9 9 Like I said, Page 2 doesn't. 10 A. No. 10 A. Well, I know. But I'm asking you, when you 11 O. But this was part of the attachment to what 11 O. you submitted to the Commission in September typically looked at them, not necessarily 12 12 of '08. So you just didn't review them? 13 these. 13 MR. BERSAK: I would just like Sometimes there are tables, sometimes there's 14 14 A. 15 to note that the witnesses for this response 15 words. Could be either. that has been identified as and marked as 16 Q. Do they typically have company identifiers on 16 No. 8 were Frederick Wright, Jody J. TenBrock 17 them indicating which company actually made 17 and Terrence J. Large, and did not include the projection? 18 18 Mr. Long. Not always. 19 19 A. Are they marked "proprietary," typically? 20 MR. PATCH: I don't think Mr. 20 Q.

Long's name is on any of the responses to

MR. BERSAK: I don't know.

MR. PATCH: I can tell you

data requests, is it?

21

22

23

24

22

24

23 Q.

21 A. If they are. You know, if they're public

So when you submitted the letter on September 2nd of '08 to the Commission,

information, they wouldn't be.

PAGE FOR GARY LONG - 9/16/13 **GARY LONG - 9/16/13** Page 79 attached to that letter was a report. And I different assumptions different places. 1 2 Q. That's right. But this -guess I'd like to have that marked next. 2 3 (Long Deposition Exhibit 9 marked 3 A. This is a statement of an assumption. I for identification.) think you called it a forecast. It says a 4 4 5 Q. Are you familiar with this report? price was used. It doesn't say it was 5 6 A. Generally. forecasted. It just explains what was used 6 7 Q. When was the last time that you or anyone in the analysis. 7 else at PSNH checked the price of natural gas 8 Q. It's a pretty critical assumption, isn't it? and projections for those prices prior to A. One of many. 9 9 this submission on September 2nd? One of many. So, pretty critical to the 10 O. 10 impact on customers, would you say? 11 A. Prior to the submission of this report? 11 Yes. As we stated earlier, fuel prices are 12 Q. Yes. 12 A. 13 A. I don't know. 13 important. 14 Q. Do you have a rough idea? Was it three But you don't know who did this. 14 Q. months? Was it six months? One month? 15 A. Not sitting here today, no. 15 Is there any documentation you could check so 16 A. As I told you, I don't do that work. So I 16 O. that you could find out who was responsible 17 don't know. 17 18 Q. Did you discuss the forecast contained in for doing this? 18 I wouldn't be able to. 19 this report with anyone prior to the 19 A. September 2nd submission? MR. PATCH: I'd like to make a 20 20 21 A. I don't recall. 21 data request of the Company, that they answer 22 Q. Do you have any idea how the projection of the question of who prepared the \$11 per 22 natural gas prices was done? MMBtu price that was used as an "assumption," 23 23 24 A. Again, you're referring to forecasts. I as Mr. Long says, in this particular report, 24 GARY LONG - 9/16/13 Page 78 **GARY LONG - 9/16/13** Page 80 don't know which forecast you're referring referenced on Page 15, Paragraph E. 1 1 MR. BERSAK: We've been 2 2 3 Q. Okay. Well, let's look at -through discovery for several years. This 3 4 A. And they're not forecasts that I personally report has been out there for over five 4 years. If you're going to depose Mr. Long 5 5 6 Q. Okay. Let's look at Page 15 of this. And about what he knows about this project, I 6 there's a Part E on Page 15 in the lower think we've completed discovery, and I would 7 7 right-hand corner of Page 15. There's a lot object to further discovery. 8 8 of different page numbers on here. Yeah, and MR. PATCH: And then I would 9 9 Part E, or Paragraph E at the bottom of the also like to ask for any of the underlying 10 10 page, it says, "In the market purchase and materials --11 11 combined cycle natural gas scenarios, a year MR. BERSAK: May we have a 12 12 2012 price of \$11 per MMBtu was used as the ruling on this one, please? 13 13 first-year price of natural gas." This value MR. PATCH: Well, I thought 14 14 15 was escalated at a rate of 2.5 percent per 15 what had been indicated was that those year for future years of the analysis." Did rulings were going to be reserved until --16 16 I read that correctly? MS. ROSS: I wasn't planning 17 17 18 A. Yes. on ruling, but I would recommend production 18 19 Q. Do you know who did this forecast? of this because it is a critical piece of 19 20 A. No. information in this docket. 20 21 Q. You have no idea who prepared this? (Court Reporter interjects.) 21 22 A. I don't have a recollection of who prepared MR. BERSAK: I'm just asking, 22 23 it. I think it's a statement of an 23 when does discovery stop? assumption. So, you know, you could use MS. ROSS: Whenever the 24 24

PAGE SO GARY LONG - 9/16/13 Commission determines that it's time to stop responses? 1 it. And I don't believe that that decision Yeah, it's an important indicator. It's a 2 3 has been made today. 3 common location to look at, as far as gas MR. PATCH: In addition to who prices go. 4 4 prepared this, I'd like to have copies of all O. I mean, are you pretty familiar with NYMEX, 5 5 the underlying materials on which that person then, and the way that they provide pricing 6 6 predictions or pricing projections? 7 relied. 7 BY MR. PATCH: 8 A. No, I'm not very familiar with it. 8 Q. I'd like to refer you to the response to Q. So, would you say that it's considered --9 NYMEX predictions are generally considered TransCanada 3-7 and 3-9. 10 10 MR. PATCH: So if we could most robust in the near term? 11 11 have those marked. 12 A. No, I don't know that to be true or not true. 12 13 (Long Deposition Exhibits 10 and 11 13 Q. Were there other gas forecasts available to marked for identification.) PSNH, to your knowledge? 14 14 15 Q. Now, this TC-7 -- first of all, TC-3-7, asked 15 A. To my knowledge, I assume so. I don't know for the process used to examine the forward firsthand. 16 16 market for natural gas delivered to New 17 Q. Are you familiar with the U.S. Energy 17 England and copies of any and all Information Administration? 18 18 19 documentation in PSNH's possession, and 19 A. I'm familiar that it exists. I've seen some explain why and when the examination was of their reports. 20 20 21 done. 21 Q. Do you know whether they were used in this And the answer is, "This analysis was 22 analysis? 22 performed in the summer of 2008 using NYMEX 23 23 A. I don't know. I mean, it may have been. data from June 11, 2008." Do you see that? Again, I haven't reviewed that material. 24 24 GARY LONG - 9/16/13 Page 82 **GARY LONG - 9/16/13** Page 84 1 A. Yes. And again, this was not my work and not 1 Q. Are you familiar with a company called Energy my response. There's another individual Ventures Analysis, Inc.? 2 2 identified there --3 A. No. 3 (Court Reporter interjects.) **4** Q. So you wouldn't know whether they -- whether 4 5 A. There's another individual identified in the their forecasts were used in this analysis. 5 response to these data requests. They may or may not have been used. I mean, 6 6 7 Q. Do you have any reason to think this is vou must know. All I know is I haven't 7 incorrect? worked with them. 8 9 A. No. Q. Would you have any explanation as to why \$11 10 Q. And what about the response to TC-3-9, which an MMBtu would be a sensible take-off point, 10 given the gas price volatility at that point? refers to that \$11 an MMBtu and also refers, 11 11 12 A. I rely on the work of others. I don't again, to that was obtained by reviewing 12 NYMEX futures prices available in the summer 13 have -- I can't make a judgment on that, the 13 of '08? Do you see that? way you asked it. 14 14 15 Q. And who were the others, again, that you 15 A. Yes. 16 Q. Do you have a similar response to that? relied on? 16 17 A. Again, it's not my work, not my response. 17 A. The person listed on these data responses is You asked if I have any reason to believe Terry Large. It's one of them. 18 18 19 it's not correct. I have no reason to 19 O. So that's the person you would have relied 20 believe it's not correct. upon for this? 20 21 Q. I mean, so it looks like NYMEX was an 21 A. I would have relied on him and our generation group and our service providers in 22 important gas projection or prediction that 22 23 was relied on by the Company. Would you 23 Connecticut and -- in all aspects of this. arrive at the same conclusion, based on those 24 Q. So in the summer and fall of '08, was there 24

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DEPOSITION OF: GARY LONG - September 16, 2013 DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Page 85 GARY LONG - 9/16/13 **GARY LONG - 9/16/13** Page 87 any report circulated within PSNH that decision? 1 provided spot and future fuel prices prepared Well, that's a topic that I'm sure we talked 2 3 for management review? 3 about. I can't recall when or how or where. I had conversations multiple times every day. 4 A. I don't know. 4 5 O. You don't know if there were any -- you don't So, you know, you asked me specifically about 5 know if it would be a typical thing to do. a specific conversation. Well, I don't 6 6 You have no knowledge of that? recall. But certainly that topic was 7 7 8 A. Well, it certainly may have occurred, but 8 discussed. within our service providers. Fuel 9 Q. With who? 9 forecasting was not an area under my Well, that's what I'm saying. It could have A. 10 10 11 responsibility. 11 been with any -- it could have been with an 12 Q. Okay. So you didn't feel it was one of your analyst. It could have been with anybody on 12 the generation team. It could have been with 13 responsibilities to be aware of spot and 13 14 future fuel prices. Not part of your anybody who's involved with company 14 responsibility as president of PSNH. 15 15 operations. 16 A. I didn't manage that function. Would I be Was there any documentation provided of any 16 O. generally aware? Would they inform me of of those discussions? 17 17 changes? Yes. But I didn't manage that, Not that I recall, but -- I don't recall. 18 18 A. 19 Q. Okav. 19 forecast that process. I did not manage the day-to-day market interactions of the company 20 A. As I said earlier, we typically don't --20 21 within the ISO-New England market. 21 these are oral discussions. You know, you 22 Q. How frequently would they have informed you asked me early on my style of management. It 22 of you that? is to communicate with people often, but we 23 23 24 A. Of what? don't record those conversations. We don't 24 GARY LONG - 9/16/13 Page 86 **GARY LONG - 9/16/13** Page 88 1 Q. You just said, you know, you were informed by 1 have a need to. people within the company of this. So I'm But if somebody thought that it was 2 2 O. trying to understand the frequency. Was significant enough that the gas price was 3 3 there some protocol? Was there some regular dropping and the projections were going down 4 4 5

occurrence? Did they inform you weekly? Did 5

they inform you daily? Did they inform you 6

monthly? I'm trying to understand how that 7

was done. 8

9 A. Well, they'd certainly inform me upon inquiry

or as we're considering analysis like this. 10

There was no protocol for immediate weekly 11

reports or daily reports. As I said, I did 12

not manage that function. 13

So, on request they would inform you, you 14 O.

15 said? So, in other words, if you asked for

it, they'd give it to you. 16

17 A. Oh, yes.

18 Q. Did you ever ask for this?

19 A. I may have. I don't recall.

20 Q. Do you remember anyone, at any point in that

time frame, in the summer of '08 and the fall 21

of '08, anyone at PSNH or NU voicing concern 22

23 about the gas price drop and the effect it

would have on the scrubber go-forward 24

and the effect that would have on the

scrubber, presumably they would have done 6

more than just communicate with you orally. 7

It's well known -- it was well known by us A.

that gas prices were very volatile. I'll 9

give you your own client's example. The CEO 10

of TransCanada, in talking to his investors, 11

said you don't make an investment decision 12

based on a one-month or short-term gas 13

prices, that you have to look at the long 14

15 term. And TransCanada projected steadily

increasing prices when they looked at their 16

own projects. And that's what the CEO 17

communicated to investment communities. So, 18

we were no different. Although we weren't in 19

the gas business, we understood that you 20

21 don't look at a short-term forecast and

assume that's the way it's going to be 22

23 forever.

And so, yes, I did not track the

DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST PAGE 89 YEARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 91 hour-to-hour, day-to-day gas prices because 1 \$250 million. Now back to your September 2nd 1 that's not relevant to my role in the letter. You reference that section of the 2 2 3 company. And future prices and forecasts are 3 law that talks about the careful, thoughtful very volatile, as we see. They're constantly balancing of cost benefits and technological 4 4 changing. And one has to be very cautious in feasibility. This is at the top of Page 2 of 5 5 taking what I call a "point forecast" over 6 6 vour letter. multiple years in the future and then, you MS. GOLDWASSER: Exhibit 1. 7 7 know, not -- and assuming that's the way it BY MR. PATCH: 8 8 will be. Q. Exhibit 1. Could you explain why, when the 9 9 cost went from \$250- to \$457 million, and MR. PATCH: I guess I would 10 10 11 like to make a request for any copies of any 11 nothing else in the law changed, that you still considered it to be a careful balancing 12 e-mails, any documentation of any sort in 12 this time frame, post the July 15th, '08 of costs and the other factors referenced in 13 13 14 board of trustees meeting between Mr. Long the law? 14 and anybody else at PSNH or NU with regard to Many factors other than costs. And the word 15 15 A. the prices of natural gas, the price of coal "balancing," as you quoted a couple times, 16 16 between July 15th and let's say October 15th obviously the intent here is to reduce 17 17 of '08. I'd like to make a request for any emissions. And that's part of the balance. 18 18 19 and all documentation related to that 19 Presumably it's part of the public interest subject. finding that the state had found in directing 20 20 21 MS. ROSS: I will recommend 21 us to install the scrubber. So it's that request to the Commission. 22 multi-faceted. It's not just cost of a piece 22 23 BY MR. PATCH: 23 of equipment. 24 Q. So, let's say from September of '08 until 24 Q. Not just cost. But the cost reference that GARY LONG - 9/16/13 Page 90 **GARY LONG - 9/16/13** Page 92 March of '09, did you or anyone else check they had before them when they passed that 1 1 prices and projections during that period of law was \$250 million; correct? 2 2 time that you recall? 3 A. That was sort of a preliminary generic 3 4 A. That's a pretty general question. Or anyone estimate that, obviously, until you get into 4 else? 5 the project engineering and steps as we 5 talked about earlier and get a more refined 6 O. At PSNH or NU. 6 7 A. I can't speak for other people. Did I check one, the number changed, for sure. You know, 7 it? I may have. I don't recall. we would have liked to have stayed the same 8 8 Q. And you don't recall if anybody spoke with or gone down, but that's not the way the 9 you during that period of time about checks situation was. 10 10 that they made on those prices? 11 O. Well, if necessary, I can put in front of you 11 12 A. I do not record my daily conversations. Lots the documents, the fiscal note on the bill 12 goes on. I can't really say what went on from 2006, which says "a not-to-exceed number 13 13 each and every day and hour and... you know, of \$250 million," based on information from 14 14 15 these are topics we discussed. I can't tell 15 PSNH." And I can put in front of you the you when, where and how. There's no letters that Mike Nolan, the DES 16 16 recordings to give you. It's just normal commissioner, wrote to the legislature that 17 17 year saying, "Based on information from PSNH, 18 business. 18

19 Q. In your September 2nd letter to the 20 Commission, September 2nd of '08, in

21 DE 08-103, you referenced a section in the

22 Scrubber Law, 125-O:11, XIII -- and this is

23 the law that was passed in 2006 -- based on 24 testimony, was a not-to-exceed number of

So, are you saying now that that 20 estimate provided to the legislature was not 21 22 an accurate one?

a not-to-exceed number of \$250 million..."

23 A. It was the best available at the time. And when it changed to \$457 million, the 24

Page 93 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 95 legislature became very well aware of that. contracts would result in additional costs to 1 So I would say the legislature was very well customers? 2 2 informed during the whole journey, from the 3 з А. Yes. Yes. We were about three years into a enactment of the law to the operation, six-year contract. It was a multi-year 4 4 completion of the project. project. Obviously, a significant 5 5 6 Q. How did the legislature become well aware of investment. And it is extremely disruptive 6 the \$457 million? to stop a major project in the middle of its 7 7 course. And if you stop a project after 8 A. It was --8 Q. Explain to me what role PSNH played in that. you've let contract -- after you've done your 9 engineering, after you've lined up a work 10 A. It was communicated to --10 force, have to lay off a work force, have to 11 Q. By whom? 11 12 A. By our whole team at Public Service Company. litigate contracts, et cetera, it's extremely 12 13 Q. Including yourself? 13 disruptive. And worst of all, it puts us in 14 A. Yes. a situation where we're not able to comply 14 15 Q. So you talked with the legislators about with the mandate. So, you know, stopping a 15 project that you have to work very hard to 16 that? 16 17 A. I'm sure I did. But, again, I can't tell you meet the time lines established by the law is 17 when and where. You know, as the information very a costly, uncertain, disruptive 18 18 19 became available to us, as the estimates 19 situation. became known, as the procurement process was 20 O. On Page 3 of that letter, the first sentence 20 21 proceeded, the estimate of 457 was then, you 21 of the last paragraph, you said, "It should know, disclosed. It was disclosed in our surprise no one that the costs of this 22 22 Security Exchange Commission filings; it was project have increased significantly over... 23 23 disclosed to our RaCC; it disclosed to the preliminary estimates." What did you mean by 24 24 GARY LONG - 9/16/13 Page 94 **GARY LONG - 9/16/13** Page 96 PUC, and ultimately disclosed to the 1 1 that? legislature. And it was very well known when 2 2 A. The paragraph goes on to say independent others tried to change the Scrubber Law. It organizations, like the Wall Street Journal, 3 3 was a very well known number, and the had been disclosing to the public and talking 4 4 legislature chose not to change the law. about the escalation in prices of commodities 5 5 MS. ROSS: I'd just like to that have happened during this time period. 6 6 point out that we're getting toward the end So, the factors that led to the increase in 7 7 of your session, Mr. Patch. prices were not unique to PSNH. They were 8 8 MR. PATCH: Oh, okay. worldwide. They were national. And others, 9 9 MS. ROSS: So if we could try obviously, were aware of that international 10 10 world situation with costs. And the Wall 11 to --11 Street Journal is just one example. MR. PATCH: I'll ask two more 12 12 questions and we'll stop. Okay? MR. PATCH: Okay. Good time 13 13 MS. ROSS: Okay. for a break. 14 14 BY MR. PATCH: 15 15 MS. ROSS: Thank you all. 16 Q. In your September 2nd, '08 letter, you told We'll break for 15 minutes and be back a 16 the Commission that any delay in issuing --17 little after 11. 17 and this is on Page 3, the second full (Brief recess taken.) 18 18 paragraph, the third sentence. You told the BY MR. PATCH: 19 19 20 PUC that any delay in issuing contracts would 20 Q. So, Mr. Long, I'm particularly interested in the time frame of the summer of '08, the fall result in additional costs to customers. I 21 21 of '08. Were there any regular, routine 22 mean, as you have you said, that was a time 22 23 of extreme volatility. Can you explain why 23 reports on generation and fuels that you you were so sure that a delay in issuing the received from people within PSNH or NU? 24 24

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- 1 A. Are there any reports? Perhaps. I don't
- 2 know.
- 3 Q. Okay. Well, I guess I'd like to make a
- 4 request, then, for copies of any reports in
- 5 that time frame that you would have
- 6 received --
- 7 A. On?
- **8** Q. -- on generation and fuels.
- 9 A. You mean our operations of our generation
- during that time? I'm trying to understand
- what that has to do with this.
- 12 Q. Okay. I mean, we don't need sort of regular
- reports about generation. But fuel markets,
- I guess, is primarily what we're interested
- in. Obviously, there's a relationship
- between that and generation.
- 17 A. Yeah, because that was -- that's the
- clarification I was seeking because I get
- weekly generation operations reports. But
- you're talking about fuel forecasts, I think.
- 21 Q. That's right. And they could be related to
- generation. So, clearly -- but we don't need
- all of your generation reports that aren't
- related to that.

- reports and any other reports that you might
- 2 have used in preparation for today's
 - deposition.
- In that September 2nd letter that we
- 5 referred to, you had indicated on the top of
- 6 Page 3, the first full paragraph, that you'd
- 7 signed an agreement with labor leaders, and
- 8 you had already completed a number of
- 9 critical milestones. What were those
- critical milestones that you had completed as
 - of that point in time?
- 12 A. Yeah, again, they're not in my memory today.
- They're in one of the documents. I'm sure
- they're in a data response somewhere, where
- we've listed in a report to the Commission,
- you know, the milestones.
- 17 Q. Well, I don't think they are in a data
- response. That's why I'm asking you, to the
- best of your recollection, what they were.
- 20 A. Well, I don't have them in front of me. But
- there was a report given to the PUC where we
- reported on status.
- 23 Q. So you're saying those milestones would be in
- the report that was filed with the

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- 1 In response to questions earlier this
- 2 morning, when you had indicated -- or you
- 3 referred to projections that TransCanada
- 4 relied upon -- and I guess I'm trying to
- 5 understand -- are those projections that you
- 6 looked at back in '08 or '09? Are they ones
- you've looked at recently? What are those
- 8 that you're referring to?
- 9 A. Well, it's really part of us trying to
- understand why TransCanada is even in this
- case and why another utility would oppose --
- impose cost recovery from another utility.
- And so it's really trying to understand why
- 14 TransCanada's doing what it's doing.
- I have recently looked at some of their
- own statements by their CEO and some of their own forecasts to see if they were, you know,
- in the same volatile, dynamic situation that
- we were, and they were, in considering their
- own major investments, like the Keystone
- 21 Project and the Mainline Project, the
- McKenzie Projects, projects of that type they
- were considering during the same time frame.
- 24 Q. I guess I'd like to ask for copies of those

- 1 September 2nd letter?
- 2 A. Again, if you want me to review documents...
- but no, I recall seeing reports that talk --
- they were progress reports. And I believe
- they were in data responses, but...
- 6 Q. Progress reports made internally at the
- 7 company you're saying.
- 8 A. And included in data responses.
- 9 Q. And you said in that letter that you'd
- proceeded to negotiate fixed-price contracts.
- 11 A. Not me personally, but the Company, of
- 12 course.
- 13 Q. And that's before Mr. Shivery had signed off
- on September 24th; correct?
- **15** A. Yes. Well, I don't know about the dates.
- But it's -- it could have been negotiated but
- 17 not finalized.
- 18 Q. You actually signed a number of contracts in
- October of '08. Do you remember that?
- 20 A. No.
- 21 Q. You don't remember when --
- 22 A. Again, I didn't manage that project. That
- project was managed by others. So I can't
- speak as to what I did because I didn't

Page CO CARY LONG - 9/16/13 **GARY LONG - 9/16/13** Page 103 sign -- you know, I didn't manage those the project? 1 Well, at the time I may have. There is a 2 contracts. 3 Q. I'd like to direct your attention to a 3 difference between commitments and spending. response, Technical Session 2-2. It could be quite a large difference between 4 4 MR. PATCH: So if we could commitments and spending. And our approach 5 5 was to obtain fixed-price contracts. But the mark that. 6 6 spending would have lagged those commitments. (Long Deposition Exhibit 12 marked 7 7 for identification.) So I think you used the word, these are 8 8 Q. This is the August of this year, August of "actual spending." I'll take your word for 9 2013 responses. And there's a response to -it. I haven't reviewed this document for 10 10 it's TS-02 Q-Tech-002, unredacted -- no. I'm 11 11 this deposition. sorry. Updated copy of Attachment 3, 12 Q. Okay. Well, let's look at --12 13 A. Nor did I prepare it. 13 detailed cost -- project cost breakdown previously provided confidential in PSNH's 14 O. Okay. Let's look at the response to 14 filing dated September 2nd. TransCanada 3-14. 15 15 And now it looks to me from reading 16 **16** A. Is that in the same package? this, this is what was filed with the No, it's in a different one. We'll get 17 17 Commission on September 2nd. And it looks to 18 copies. 18 19 me as though, as of that point in time, you 19 (Long Deposition Exhibit 13 marked had spent in direct costs about \$7 million. for identification.) 20 20 21 And in order to get to that, I'm adding up 21 MR. BERSAK: This is 13? I'd the first three columns at the bottom, the just like to note that the witness on No. 13 22 22 23 total direct costs, about three lines up. 23 is in fact Gary Long. 24 And it says, prior to '07, total '07, January 24 MR. PATCH: Okay. I stand GARY LONG - 9/16/13 Page 102 **GARY LONG - 9/16/13** Page 104 to April '08. I mean, these are actual. I 1 1 corrected. think to the right of that, it's a little BY MR. PATCH: 2 2 hard to tell from the copy, but it looks like 3 Q. I'd ask you to look at Page 8 of 31. And 3 they're estimated. So, does that sound this is a presentation that you made to the 4 4 approximately correct? 5 Senate, or at least with regard to Senate 5 6 A. Well, I have to take it for what it is. I Bill 152. And it was provided, obviously, in 6 didn't prepare this document, nor am I the response to a data request. And you 7 7 identified witness. testified before the legislature in March of 8 8 Q. But it was part of what you submitted -- PSNH '09 that \$230 million had been spent or 9 submitted with your cover letter of contractually committed as of that point in 10 10 September 2nd of '08. time; correct? 11 11 **12** A. Not my cover letter. The cover letter's Yes. 12 A. signed by Stephen Hall. 13 Q. Now, the numbers in there are pretty 13 14 Q. Well, I thought the September 2nd, 2008, different than the ones in the chart that I 14 15 letter that you sent to the Commission in 15 showed you about sort of estimates for 2009. 08-103 refers to the report that this was If you look back at the bottom of that, it 16 16 part of. looks like summary cost estimate total 2009, 17 17 18 A. But I'm trying to understand, though. What \$101 million at the bottom of that, you know, 18 part of my knowledge are you looking for? that column. So can you explain why what you 19 19 20 Because I didn't prepare this -told the Commission or what PSNH told the 20 21 Q. Okay. 21 Commission in September of '08 is 22 A. -- these tables. significantly less than what you told the 22 23 Q. Well, do you have any knowledge of how much 23 legislature in March of '09? you had spent as of September 2nd of '08 on Again, I didn't prepare that, nor have I 24 24 A.

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- analyzed the difference. I mean, if we said 1
- it was \$230 million was our commitments. 2
- 3 then -- spent or committed -- then that's
- what I believe was the case. I mean --4
- 5 O. So let's look at --
- 6 A. -- you may not have all the information on
- that table than what -- that we had at the
- time this presentation was put together. 8
- Q. Let's look at Page 19 of 31.
- 10 A. Of?
- **11** Q. Of the TC-03-14.
- 12 A. Is that Exhibit 12 or --
- 13 Q. Thirteen, I think.
- 14 A. Thirteen?
- 15 Q. Page 19 of 31.
- **16** A. Okay.
- 17 Q. And you said at that time, in March of '09,
- that PSNH has legally binding, firm price 18
- 19 contracts in place for major components of
- the project. Do you see that? 20
- 21 A. Yes.
- 22 Q. What did you mean by "legally binding"?
- 23 A. Commitments we made to vendors for equipment,
- 24 equipment manufacturing, services, that sort

- 1 was market-based pricing. It was
- competitively bid, market-based pricing. 2
- 3 O. So "every step of the way" means how
- frequently? 4
- It means every step of the way. It means in 5
- the -- that document you referred to earlier, 6
- called "Strategic Sourcing," in the strategic 7
- sourcing process, we're looking for the best 8
- marketing pricing we could get, combined with 9
- the quality and capability standards that we 10
- 11 needed with the vendors.
- Would you agree that September of '08 was a 12 O.
- period of significant economic volatility? 13
- That month? 14 A.
- 15 O. September of '08. I've got some headlines
- from that month I can show you. But wasn't 16
- 17 that the month when Lehman Brothers went
- bankrupt and there were significant economic 18
- 19 issues in the country, talk about bail-out,
- there was the AIG problem. Do you recall 20
- 21 that period of time?
- I do. But it just -- obviously, it lasted 22 A.
- 23 for more than a month. So that was my only
- 24 query.

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- of thing. 1
- 2 Q. Do you know if the contracts gave PSNH the
- ability to terminate? 3
- 4 A. I'm not familiar with all the details. But
- if they did, it most likely would have been 5
- with penalties. 6
- 7 Q. So you're saying, as of that point in time,
- what you would owe -- and I think you make 8
- reference to it elsewhere in here, and I'll 9
- find that reference -- but what you would owe 10
- as of that point in time was \$230 million. 11
- 12 A. That we had made commitments, either spent or
- committed, of \$230 million. 13
- On Page 18 of that response you say, "At 14 Q.
- 15 every step of the way we have affirmed
- pricing to ensure it is in line with 16
- marketplace." What do you mean by that? 17
- Well, in the prudent -- what would I say? --18 A.
- compliance with the law, you know, we wanted 19
- 20 to have competitive pricing. So we went out
- for bid in a competitive pricing. We wanted 21
- 22 to make sure that we could demonstrate that
- 23 we were diligent and prudent in our execution 24 of that compliance and construction. And it

- - But it began in September of '08. Well, it
 - probably began before that. But most of the 2
 - headlines were September. 3
 - A. I would say there were companies in distress
 - before that date.
 - Q. And I think you've answered this before, but 6
 - you tell me if you've got anything different 7
 - 8 to say.
 - Now, when that happened, did you do anything different about how you checked
 - NYMEX projections or any other projections of 11
 - gas prices, coal prices, any other prices 12
 - 13 that were relevant to this project? Did that
 - cause you to approach it any differently? 14
 - 15 A. This one month is -- one month in a
 - three-year management of a project is -- you 16
 - know, it's just that one month. And, you 17
 - know, if we saw aberrations in the bids or a 18
 - change in the bids, we would have examined 19
 - that and try to find out more and adjust. So 20
 - 21 it's a -- you know, the bidding process was
 - not a one-month process. 22
 - 23 Q. Well, given this uncertainty in September,
 - what made you so sure that the prices were 24

DEPOSITION OF: GARY LONG - September 16, 2013 DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Pade 169 GARY LONG - 9/16/13 **GARY LONG - 9/16/13** Page 111 going up, given everything else going on in 1 project could be completed by 2012. 1 the economy, which is what you told the Obviously, that was part of the Company's 2 2 3 Commission in that September 2nd letter? You 3 goal was to get this done sooner; correct? basically said, Don't delay, Commission, I would say it was part of the state's 4 4 A. because the prices are going to go up, and it directive to us. It's very clear in the law 5 5 that they wanted reductions. The state 6 will result in additional costs to customers. 6 And this is the second paragraph on Page 3. 7 wanted reductions sooner rather than later, 7 A. Yes. Well, obviously, it's because we're in and very specifically provide incentives, not 8 8 discussion with all the major vendors. We're for investors but for customers, if we were 9 9 exploring with them what the cost of their to get it done sooner. And so our desire was 10 10 11 services will be, what their schedule will 11 to finish it, you know, as directed. And we be, what their capabilities will be. So, you did. We did. We finished almost a year and 12 12 13 know, that's based on what we were finding 13 a half before the deadline. So we think that 14 available in the marketplace for the services was another success of a prudently managed 14 15 that we needed. 15 project. 16 Q. Economic volatility cuts both ways, though, 16 Q. And the deadline was July 1st of 2013; doesn't it? People are losing jobs, and the correct? 17 17 economy's changing; then prices can actually 18 A. 18 Yes. 19 go down, and you can get a more competitive 19 Q. So, a six-month delay in 2008, 2009, 20

bid sometimes, can't you? 20 21 A. We did get competitive bids, and we did have incentives and performance incentives in the 22 23 contracts. And when the project was all 24 over, we were about 10 percent under budget.

presumably wouldn't have caused PSNH to not 21 meet the deadline of July 1, 2013, assuming that you studied it for six months and concluded it still made sense to go ahead.

GARY LONG - 9/16/13 Page 110 So we felt that, you know, despite, you know, 1 2 having some difficult requirements placed on us, I think it was a huge success to come in 3 under budget. Came in around \$420 million, 4 not \$457 million. So we did take advantage 5 of lower labor costs and changes in the 6 economy. We did do that, and we ended up 7 performing below the estimate. 8 Q. Significantly above the original estimate, though; correct? 10 11 A. Different estimates. One was preliminary,

one was more generic. The other one, as we

talked about, much more specific, different 13 time frame, more specific engineering, more 14 15 site specific. 16 Q. Did you tell the legislature that estimate in 2006 was preliminary? 17 18 A. I don't know what words were used. But it was done by a consulting firm to give us a 19 20 general indication. So I know we said "not 21

22 time. But I know that we indicated that 23 additional engineering had to be done. 24 Q. I think you even said in 2008 that the

to exceed." That was the thoughts at the

22 23 24 Is that fair to say? **GARY LONG - 9/16/13** Page 112

1 A. No. 2 O. No? 3 A. No. 4 O. Why not? A. As I described earlier, when you're in the 5 middle of a major project, a stoppage has a 6 lot of unintended consequences, and it may be 7 very difficult to start it up. And it would 8 raise in the question of whether we could 9 finish it within the statutory deadline. You 10 know, you couldn't say at that point that we 11 would finish it in 2012. It was an ambition. 12

we could have needed the entire time, all the 14 15 way up to mid-year 2013. So, I mean, in hindsight, yes, we did it much faster. But 16 if a project would have been stopped and we would have lost vendors and perhaps the work 18 force and -- there was no assurance that we could meet the deadline. 20 21 Q. Could you have asked for an extension of the deadline? 22

You know, given what we knew at that point,

23 A. Could we have asked? 24 Q. Could you have filed --

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Page 13 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 115 1 A. That would have been inconsistent, in our 1 and I'm looking at the last two sentences. I'm going to read it. "It would be a waste minds, with the directives. So, no, we took 2 3 very serious the intent of the state. 3 of resources and money to require the Company Remember, this started with the Clean Power to continually update projections of future 4 4 costs based upon forecasts made during this Act that wanted mercury reductions. So 5 5 this -- even though the project was a period of significant volatility. Moreover, 6 6 three-year project, the whole intent was more regardless of the result of such analyses, 7 7 years than that when the original intent was the legal mandate to install scrubber 8 8 established. And so we didn't view it as our technology at Merrimack Station will remain 9 9 role to go slower about it. We viewed -intact." 10 10 11 given the legislative direction, our role was 11 Do you ascribe to that? Was that the 12 to do this as fast as possible. So, no, we Company's position? 12 weren't looking for delays. 13 13 A. Yes. 14 Q. Do you know what happened to the price of 14 Q. Now, were you aware of any other potential commodities after September of '08? environmental regulations that might drive up 15 15 16 A. If you're talking about natural gas, they've costs for Merrimack Station? 16 gone down. 17 A. Well, yes. We mentioned one of those in 17 18 O. What about -particular in our risk analysis to the 18 **19** A. And now they're going up again. 19 risk -- to the RaCC Committee. 20 O. What about other commodities that would be of 20 O. Do you remember what that was? 21 interest for this particular project? 21 A. Water discharge and cooling. 22 A. I wouldn't be surprised if some went down, Would you be surprised if in fact that is not 22 O. given the great recession. But that's after, in that presentation? 23 23 after, obviously, we were well into 24 24 A. Yes, because I specifically remember reading GARY LONG - 9/16/13 **GARY LONG - 9/16/13** Page 114 Page 116 construction. 1 it in a footnote. 1 2 Q. Was the last economic analysis that PSNH did 2 O. Okay. Maybe it's in a footnote. But let's the one that was submitted to the Commission look at 15 of 20 [sic]. It's Staff 2-2. I 3 3 don't remember what it's marked as a number. in September of '08, or were there any others 4 4 that were done after that? MS. GOLDWASSER: Should be 5 5 6 A. I'm trying to remember what was submitted in No. 5. 6 2008. But if it's not in the data responses, BY MR. PATCH: 7 7 that would have been the last of that type. Q. Page 15 of 20. I see a reference there to 8 But they're constantly managing the project "Impact of RGGI/federal carbon legislation is 9 9 and obviously looking at what's going on in not expected to render scrubber investment 10 10 the energy world around us. And lots of 11 uneconomic to customers at current projected 11 costs." things are going on in the energy world 12 12 around us. You mentioned natural gas prices. 13 A. That's not the page I'm thinking about. 13 But there were a lot of other risk factors Okay. Well, I mean, I asked you a general 14 14 O. 15 that were emerging during that same time, and 15 question about other potential environment in fact continue to grow in New England. regulations that might drive up costs. And 16 16 17 Q. I want to read you a quote from a letter that 17 so that clearly was part of the Mr. Bersak put in October of 2009 in DE consideration, wasn't it? 18 18 19 08-103 to the Commission. A. Well, as we analyzed the impact of the 19

have that marked.

for identification.)

24 Q. I'm looking at Page 2, the second paragraph,

MR. PATCH: So if we could

(Long Deposition Exhibit 14 marked

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mandate, those economic analyses that you're

understanding of the financial impact of the

mandate. And so, yes, it was in the Risk and

Capital Committee. There was notation made

referring to was to try to get an

DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Pade CO GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 119 of there could be other environmental It's -- you know, I don't know if we had a 1 1 specific requirement. It depends on many, compliance costs in the distant -- in the far 2 2 3 distance. 3 many factors. But that particular one was viewed as more remote, was more remote at 4 Q. If you remember a reference in there to 4 "water cooling," could you point that out to that time. 5 5 us? You can take a minute to try and find 6 **6** Q. The water cooling one? 7 A. Yes. 7 8 A. I don't know if it's in any of these things **8** Q. Thirty million was viewed as remote? that you gave us. A. Yes. 9 9 Okay. But this is what was provided to us as And so at any point in the rest of '08 or 10 O. 10 O. being all the materials that were presented 11 11 early '09, did it become any less remote? 12 to the RaCC and to the board of trustees. 12 A. I don't -- I can't answer that question. It 13 And I'm just curious about the reference to 13 was \$30 million out of 457, you know, a "water cooling" in there because I may have sensitivity analysis against a \$457 million 14 14 project. So it was not the most significant 15 missed it. 15 **16** A. Okay. This is your Exhibit 5, as an example. variable. 16 It may occur elsewhere. If you look at 17 Q. It wasn't included in the \$457 million, 17 Page 13 of 50, for instance --18 though. 18 19 (Court Reporter interjects.) 19 A. It was included in the sensitivity analysis 20 A. -- it talks about cooling tower addition, \$30 20 against that. 21 million, in the footnote there, a couple 21 Q. So this was a worst-case scenario for what it would cost to address the water cooling footnotes there. 22 22 Okay. So that's the figure that you had 23 O. 23 situation? available at that time? That was the 24 24 A. We don't -- we didn't label it "worst case." GARY LONG - 9/16/13 Page 118 **GARY LONG - 9/16/13** Page 120 Company's estimate of what it was going to 1 Q. So what would you label it? 1 cost to address the water cooling situation? "Unlikely" and "highly unlikely," as the 2 3 A. I wouldn't call it an estimate. I don't know scenario says. 3 4 Q. So, anything more than \$30 million would have how you want to think of it. Because there 4 was no requirement. We felt it was years been even less likely. 5 5 away. But just to put in -- it was an Now, this is looking at higher costs. And it 6 6 assumption -- or not assumption. It's a -was included in the scenario for possibly 7 7 you know, again, it's assumption using low, low value and unlikely low. 8 8 analysis just to test the sensitivity, just Q. Were you aware of what customer 9 9 to test the sensitivity of the impact of representatives from PSNH were sending the 10 10 complying with the mandate. customers in 2009 regarding legislation? 11 11 You might have to refresh my memory of what 12 Q. Did you have a standard policy or protocol 12 A. that you followed for when to anticipate or 13 you're talking about. 13 factor in potential environmental Okay. We'll show you a copy of "PSNH AE 14 14 O. 15 regulations? In other words, did they have 15 Newsletter," dated February 12th of '09. (Long Deposition Exhibit 15 marked 16

- to be adopted as rules, or were they -- or 16 was there a preliminary rule that looked like 17 it stood a pretty good chance of passing 18 19 something you would take into consideration?
- 20 What was your --
- 21 A. Well --
- 22 Q. What was your general approach?
- 23 A. In that talking chart that we're about, those
- are included in the "unlikely" cases. 24
- for identification.) 17 I'm looking under Background. I'm looking 18 Q. down three paragraphs, I guess I'll call 19
- them. It says, "The Clean Air Project will 20 21 make Merrimack Station one of the cleanest
- coal plants in the nation, while impacting 22
- 23 PSNH's energy service rate by an average of
- .33 cents per kilowatt hour, or about 3 24

DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Pade 2 OKARY LONG - 9/16/13 **GARY LONG - 9/16/13** Page 123 percent." Do you see that? 1 A. It's our most recently allowed return on 2 A. Yes, now I do. equity, which I think it's 9.84. I'm not 3 Q. Now, is this newsletter something you would 3 have reviewed and approved before it went 4 Q. And that translates into an annual return on rate base of approximately \$38 million? Does 5 6 A. Not necessarily. 6 that sound correct? 7 Q. Do you recall whether you did or didn't? 7 A. No. Thirty-eight million? I don't know. Do vou have a document there that's --8 A. No. 8 Q. That's basically the same thing you told the Q. I do. 9 legislature that year; correct? I can give A. Are you talking about equity only? 10 10 11 you a copy of the transcript from your 11 Q. Well --

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testimony before the Senate Committee. I 12 A. When you say "return on rate base," return on 12 13 don't know if you would agree, subject to 13 check. And this was an attachment to one of 14 14

the objections that we filed to your latest 15 motion for rehearing. But in that testimony, 16

I believe you said basically the same thing: 17

That was going to be cost to customers. 18 19 A. Yeah, I'll take your word, subject to check.

But now we're back in the legislature again? 20

21 Q. What was this particular price for customers

based on? Were there certain assumptions 22

about the price of natural gas and the price 23 of coal built into this price? What was this 24

to service debt and equity.

GARY LONG - 9/16/13 based on? 1

2 A. An analysis of all those things, as I recall.

It was a average over the presumed accounting 3

life of the project. 4

5 Q. I'd like to ask, then, for copies of any

analyses that the Company did in connection 6

with your testimony and this newsletter to 7

come up with that particular figure.

9 A. You mean my legislative testimony?

10 Q. Yes.

11 A. So we're back to legislature again.

12 Q. That's right. But we're talking about costs

of the project as anticipated at that point 13

in time by PSNH and the impact on customers. 14

15 Do you have any idea what the price

projections were for natural gas in February 16 and March of '09? 17

Other than what you've shown me already in 18 A.

responses. And I believe this number, .33, 19

20 has already been provided in data responses.

So, whatever's in there. 21

22 Q. Do you know what the return on rate base is

23 that it is now estimated that PSNH will get

annually on the scrubber? 24

GARY LONG - 9/16/13 Page 122

on Rate Base, Dollars in Thousands." And way

rate base would have been whatever it takes

(Court Reporter interjects.)

response to technical session data requests.

And the technical session was in July, and

16 Q. Well, I'll show you the document. And it's

already been marked as 12. This is a

the response is in August. And it's the

response to the first data request. So it's

Page 4 of 4. And it says "Public Service

Company of New Hampshire 2013 Energy Service

Rate Calculation, Merrimack Scrubber, Return

down on the right it says \$38,839. See that?

з A. Yes.

4 O. Does that sound correct?

A. Well, I assume it's correct. It's a return

on rate base, again, including debt and 6

7 equity.

8 Q. And has that --

A. So that number I gave you just said equity 9 return, and this one might -- I don't know. 10

I don't know how taxes is factored in this. 11

12 Q. And do you know if that estimate changed over

13 the years from, say, 2008 until 2013? Or was

that -- does that sound like in the ballpark 14

15 of what the Company had estimated? I'm trying to... for the same year, for the 16 A.

projected same year, would the estimate have 17

changed from 2008 to 2013? Well, we're 18

making capital investments every year. So I 19

would assume it would change based on actual 20

21 capital expenditures and actual scrubber

costs, amongst other things. 22

23 Q. And it about doubles the return on rate base 24

that PSNH gets from its other generation; is

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DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Pade 25 GARY LONG - 9/16/13 **GARY LONG - 9/16/13** Page 127 that fair to say? 1 least gave us bragging rights for being able 1 2 A. Yeah, I think that's a ballpark. I mean, to meet our goals sooner, sooner than what 2 3 we've had roughly, perhaps, around 400 less, 3 was required by the law. 400 investment in our other plants. And this 4 Q. Were those goals reflected in your 4 would have been close to a doubling of compensation package or Mr. MacDonald's? 5 5 They would have been a consideration. No 6 investment in generation assets. 6 A. 7 Q. I mean, you've referred to them earlier this 7 specific math behind it. morning. But also in your letter of Q. So what were the goals, again? Or is 8 8 September 2nd, you referred to the incentives there -- let me ask you this: Is there 9 9 to complete the project early; correct? anything in writing that spells out what 10 10 11 A. Yes. 11 those goals were? **12** Q. And I think they're in R.S.A. 125-O:16. Yes. I would have had a specific goal to 12 A. 13 A. That 2006 law you're referring to, yes. 13 complete the Clean Air Project in accordance 14 Q. And would you just sort of describe generally with the state mandate, something along those 14 what your understanding is of what those 15 15 lines. incentives were? I guess I'd ask for copies of anything in 16 16 Q. writing that spells out what the goals were 17 A. It's generally additional SO2 allowances that 17 would have been awarded to PSNH and passed on that related to your compensation package or 18 18 19 to our customers as the financial incentive 19 Mr. MacDonald's. that was created in the law. There's no And so, did you ultimately obtain 20 20 21 incentive for PSNH investors. Our prudent 21 additional compensation as a result of management incentive is to keep the costs as meeting those goals? 22 22 23 low as possible. So, completing a project 23 A. I don't know. I don't know because, you 24 sooner rather than later results in less 24 know, I had many, many goals. That was one GARY LONG - 9/16/13 Page 126 **GARY LONG - 9/16/13** Page 128 AFUDC being accumulated, which benefits of them. Goals for liability; goals for, you 1 1 know, meeting your O & M budget -- O & M, 2 customers directly. AFUDC is Allowance for 2 Funds Used During Construction. So we wanted Operation and Maintenance -- expense budgets. 3 3 Like I said, reliability, customer to do everything we could to manage the 4 4 costs. Obviously, as I said, it turned out 5 satisfaction. And there were several goals 5 that way because we came in under budget. there, and it's not disclosed to me as to how 6 6 And part of the reason for that is a faster the CEO or the board of trustees may have 7 7 installation and less investment. weighed any of those. 8 8 PSNH has argued in this docket that the O. You said "no incentives to investors." You 9 mean just in that statute. Is that what you legislation made it clear that time was of 10 10 mean, or do you mean something else? 11 the essence for this project; correct? 11 12 A. I mean there is no incentive for investors in Yes. 12 A. that statute. And I said the Company's 13 O. And we established before that the effective 13

- prudent management of this was focused on 14 15 reducing the amount of investment as best we
- could. 16 17 Q. Were there any incentives internal to the Company to complete this scrubber project, or 18 to do it in a certain time frame? 19
- 20 A. I had goals placed on me to -- and as did 21 John MacDonald -- you know, to, you know, manage, really manage the construction 22 23 project certainly by the deadline. The fact
- that we were able to do it sooner was -- at 24

- date was June 8th of 2006; correct? 14 15 A. Subject to check, I'm with you. 16 Q. Okay. Did you make any efforts to lock in
- 17 prices for this project in the summer of '06, or any other time in '06 or '07? 18
- 19 A. Before the law was -- the mandate was established? 20
- 21 Q. No, after the effective date of the law, June of 2006. 22
- 23 A. Oh, between '06 and '08?
- 24 Q. Yes.

Pade 29 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 131

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- 1 A. Obviously, once the law was passed, we went
- through the steps required for management of
- 3 the project, and that included lining up, as
- I said earlier, a engineering/procurement/ 4
- construction manager. So we had a lot of 5
- work to do. And you can't sign contracts, 6
- other than for a vendor, to help you manage 7
- the project until you have done what that 8
- vendor is hired to do, which is engineering 9
- and other studies. So we were well into the 10
- 11 process. But I think the preliminary monies
- 12 that were approved in the RaCC were to
- 13 basically start up with a EPC contractor, and
- that's what we did. And that's what led to 14
- getting enough information to do the new 15
- estimate of cost, the detailed estimate. 16
- 17 Q. When was the first time you locked in any
- prices with regard to contracts for this 18
- 19 project?
- 20 A. Again, I didn't manage that. But as I
- 21 recall, the first contract that we would view
- of significance was with the EPC contractor, 22
- 23 EPC vendor.
- 24 Q. I mean, it sounded to me from responses to

- 1 Q. Obviously, the increase from \$250 million to
- \$457 million did not dissuade PSNH from 2
 - proceeding with the project. Was there an
- amount that would have dissuaded PSNH? 4
- Unknown. The only thing we focused on is 5
- complying with the mandate and disclosing --6
- as I said, the legislature was well aware of 7
- that number and well aware of the progress on 8
- the project. So it was -- it wasn't our 9
- decision. It wasn't our authority to do 10
- 11 anything but comply with the law.
- 12 Q. And so I guess you're telling me there was no
- number that would have dissuaded you. If it 13
- had been a billion or a billion and a half or 14
- two billion, that wouldn't have dissuaded 15
- you. You had an obligation to meet the law, 16
- and regardless of the impact on your 17
- customers, you would have had to do that. Is 18
- 19 that what you're saying?
- Not quite. The public interest finding was a 20 A.
- 21 finding made by the legislature, you know,
- not the PUC, not the Company management. And 22
- the mandate was the legislature, not the PUC 23
- 24 and not the Company. It wasn't the Company's

GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 130 Page 132

2

- data requests I've seen that you didn't 1
- really lock in prices until October of '08. 2
- And you told the Commission in that letter of 3
- September 2nd that the Commission should 4
- hurry up and decide this because the prices 5
- were going to go up, and you needed to lock 6
- in those prices. So, is that a fair 7
- characterization or no? 8
- A. Well, I think it's generally okay. It's --
- what happened from when the law was enacted 10
- to getting the EPC, to eventually lending --11
- letting contracts, there was a tremendous 12
- amount of engineering work that was done by 13
- the EPC contractor, a lot of design work, a 14
- 15 lot of procurement, legal contracting work
- that went on. And it takes a fair amount of 16
- time to do all that. That's that time frame 17
- that you're talking about between '06 and 18
- 19 '08. And so, by the time '08 came along, we
- 20 knew a lot about what was available in the
- 21 marketplace, what vendors were available,
- what prices they were charging, what was 22 happening to commodities. And that's sort of
- the underlying foundation for that statement. 24

- decision, nor was it the Commission's 1
 - decision. So it is very unique. I've never
 - seen anything quite like it. But the higher 3
 - authority -- you know, the higher authority 4
 - 5 than the PUC, the higher authority than the
 - Company management made all those decisions, 6
 - you know. So, I mean, you could ask that 7
 - question to the legislature: Was there a 8
 - point, Legislature, that you would have 9
 - changed the law? Certainly, you know, the 10
 - legislature could decide to do that. They 11
 - didn't. And so I don't know what the 12
 - legislature would have done if it was a 13
 - billion dollars. I don't know what they 14
 - 15 would have done if it was some other number.
 - I mean, it was their decision to start with. 16
 - 17 So I think it was their decision to change.
 - So if it had risen to those levels, you 18 Q.
 - 19 wouldn't have gone back to the legislature and asked them to change their decision? 20
 - 21 A. Well, I think it would have had quite a lot
 - of discussion, obviously, but -- as the 457 22
 - 23 had quite a lot of discussion. Certainly if
 - there was number of a billion it would have 24

Page 133 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 135 had quite a lot of discussion. But I can't 1 think it's clearly within the scope. It 1 predict what the legislature would do. You relates to prudence of the Company's action. 2 2 know, management did not face that situation. MR. NEEDLEMAN: There's no 3 3 So I didn't have to figure out at that time opening to --4 4 what to do if it was a billion. It wasn't. (Court Reporter interjects.) 5 5 It was wasn't a billion. MR. PATCH: To suggest that 6 6 7 Q. And the "quite a lot of discussion," you're PSNH, under no circumstances, would go back 7 talking internally or you're talking to the legislature is beyond belief, given 8 8 externally? Internally to the Company? their activities in the legislature. 9 9 Well, I mean, we discuss our business all the MS. ROSS: I'll sustain the 10 A. 10 11 time. So I was really referring to 11 objection. I think the question's been externally. answered. 12 12 13 Q. To your knowledge, was there any upper limit 13 BY MR. PATCH: 14 that the board of trustees or the RaCC had or Q. Was there anything that prevented PSNH from would have considered, given the overall age, closing Merrimack Station? 15 15 condition and performance of Merrimack 16 A. Yes. Again, not a unilateral decision we 16 17 Station? could make. 17 You know, it's the same answer. We were in Why? Explain to me where it says that in the 18 A. 18 O. 19 compliance mode. You know, that might have 19 law or how you arrive at that conclusion. been a good question if management had I don't think we can close any plant without 20 20 A. decided to do this or the board of trustees 21 21 PUC allowing it. And there's laws that go had. But we didn't make that decision. So. 22 to, I think, filing with the PUC and 22 processes at the PUC we'd have to go through. 23 again, this was an unusual situation where 23 the legislature told us to construct I don't think the Company has a unilateral --24 24 **GARY LONG - 9/16/13** GARY LONG - 9/16/13 Page 134 Page 136 something. And that's just a very unique being a regulated company, has a unilateral 1 1 situation. It was related to the state's ability to close a plant without, you know, 2 2 great desire to reduce emissions, and it was 3 in some cases, the legislature and the PUC 3 related to a previous law that called for being involved. 4 4 So if -- is there anything that would have coming up with some method to reduce mercury. 5 Q. 5 stopped PSNH from filing something with the So it's -- we didn't feel we had the 6 6 discretion to overturn. We couldn't have Commission asking to close the plant? And by 7 7 "the plant," I mean Merrimack Station. overturned the legislature, the law. 8 8 Q. So, I mean, I just find that hard to believe, MR. NEEDLEMAN: I'm going to 9 given all the times that I know PSNH has gone object to that question. It's calling for a 10 10 to the legislature otherwise. You're telling legal opinion. I don't think that's in the 11 11 me under no circumstances would you have scope of why Mr. Long is here today. 12 12 approached the legislature to change the MR. PATCH: No, it's not a 13 13 mandate and the law, regardless of what the legal opinion. It's a management decision 14 14 15 cost had risen to. Is that what you're 15 that's critical to the issue of prudence. And the Commission, in its last order, made 16 saying? 16 MR. NEEDLEMAN: I'm going to it clear that it believed that the Company 17 17 object to that question. We're now again had that discretion. So I'm asking the 18 18 19 back into hypotheticals about what the 19 Company whether it considered that and whether it felt it was prevented in any way Company may have done with respect to 20 20 legislative action, and that's beyond the 21 21 from doing that. MS. ROSS: I'll instruct the 22 scope. 22 23 MR. PATCH: He's opened the 23 witness to answer. door by the testimony that he just gave. I 24 As I was describing, we had to comply with 24 A.

DEPOSITION OF: GARY LONG - September 16, 2013 DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Pade 1570 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 139 the law of installing the scrubber. And 1 interest standing, I think we'd be highly 1 there are severe penalties if one doesn't do challenged to go against those findings. 2 2 Did you ever consider or discuss with anyone 3 that. I also have said that we don't have 3 O. the unilateral ability to close a plant asking the Department of Environmental 4 4 without going through a very lengthy process. Services for a variance from the requirements 5 5 I previously stated that we were in the of the law? 6 6 middle of a construction period, and it would 7 7 A. Well, as you know, our view of the law is that variance was only allowable after the be very disruptive and create a lot of 8 8 uncertainty. scrubber was installed, if there was some 9 9 As you talked earlier about one of those reason we could not meet the reduction 10 10 11 earlier bills, you know, we also had lots 11 standards that were in the law. 12 of -- there were lots of other factors that 12 O. So I guess the answer to my question is, no, 13 the legislature would consider in a public 13 you never considered or discussed with anyone interest finding. So we were certainly not 14 14 in a position to go down that path or to try 15 15 A. Well, again, it wasn't the Department of to convince the decision makers to change Environmental Services that made the 16 16 their decision during a time when our own decision; it was the legislature. So... 17 17 analysis was showing it was beneficial to Well, that's an interpretation of the law; 18 18 O. 19 customers, on economics alone, not to mention 19 correct? fuel diversity, uncertainty in the Well, it's -- the law is the law. I don't 20 20 A. 21

marketplace. There are other 21 think -- I don't think DES can go against the considerations -- reliability -- that we law any more than we can, the difference 22 22

23 would have to consider in that rather 23 being that we were subject to, you know,

penalties under law that they might not be 24 complicated question that you've posed. And 24

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it would -- it would have gone far beyond us. 1

- Again, we didn't have that unilateral right, 2
- nor did the circumstances even suggest that 3
- was the --
- BY MR. PATCH:
- Q. I didn't say unilateral. I said with the
- Commission's approval. 7
- 8 A. Well, I think, given that the legislature had
- directed us to put in a scrubber, and the 9
- legislature was aware of the \$457 million and 10
- chose not to change the direction, you know, 11
- I don't think management wanted to go against 12
- the State of New Hampshire after they've
- 13
- already made their decision. 14
- 15 Q. And what about selling the plant? Same
- 16 answer?
- 17 A. Same. Same sort of problem. A lot of
- uncertainty would go with that. You know, if 18
- 19 our economics -- if our analyses are showing
- 20 economics --
- (Court Reporter interjects.) 21
- 22 A. If our economics have shown that that's
- 23 valuable to customers on an economic basis,
- 24 and the legislature had made a public

- 1 subjected to.
- So I think the answer to my question is, no, 2 O.
- 3 you never considered or discussed with anyone
- asking DES for a variance; is that fair to 4
- 5
- I'm trying to clarify what you mean by 6 Α.
- "variance." 7
- 8 Q. Do you want to take a look at the statute?
- Well, I told you what we said the statute 9
- says. It is a variance it can find after 10
- construction. So I don't know if you're --11
- after construction and operation, we met all 12
- the requirements, so there was no need to ask 13
- the DES for a variance. So, no, we did not 14
- ask them for a variance because we don't need
- 15
- one. 16

18

- O. No, but I'm asking, did you ever consider or 17 discuss with anyone -- and I'm not saying
- after it was built. I'm saying at any time, 19
- did you ever consider or discuss with anyone 20
- asking DES for a variance? That's what I'm 21
- asking. 22
- 23 MR. BERSAK: That was asked as

a data request, and he did respond to it. 24

DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Page 4 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 143 You have the answer. the question? Because it doesn't seem like 1 MR. PATCH: And the answer is? 2 vou answered it. 2 3 MR. BERSAK: We can go look 3 A. Sure. through all the documents, if you want to 4 Q. Would any or some of the environmental and 4 wait while I look through them. But I don't regulatory concerns behind the Clean Air 5 5 know off the top of my head. But I do know Act -- such as, for example, bioaccumulation 6 6 that we did -- we were asked, and we did of mercury in adjacent ecosystems, or impacts 7 7 on air and water quality -- would those have respond to it. 8 8 been addressed or satisfied if PSNH had sold MR. PATCH: So it sounds like 9 9 you're coaching the witness. I guess I'd or retired the plant? 10 10 11 like an answer from the witness about what 11 A. And the plant continued to operate? When you the answer to the question is. said sold or retired --12 12 13 MR. BERSAK: He doesn't know 13 Q. Sold or retired. every data request response that was given. 14 A. If we were --14 MR. PATCH: No, but I'm asking 15 Q. Maybe they're different. Maybe the answer to 15 the question is different. I don't know. 16 his understanding. 16 17 A. And you're using "variance" a different way I'm asking what your understanding is. 17 than I'm using "variance." And I said Well, if you closed down a power plant, which 18 18 A. 19 variance is not even a question to ask DES 19 I think is part of your question, and if we until after construction. You created the were allowed to have done that, you know, 20 20 21 scenario where it's before construction. So 21 then it doesn't exist. So it's --I can't answer your question. (Court Reporter interjects.) 22 22 23 BY MR. PATCH: 23 A. The power, the energy doesn't exist. So the 24 Q. Well, I think you could answer the question, 24 environmental compliance would be more **GARY LONG - 9/16/13** Page 142 **GARY LONG - 9/16/13** Page 144 site-related. So, yes. Could there have 1 but --1 MS. ROSS: I think the witness been, you know, other things happening on 2 2 can answer the question, which is: Was a site-related environmental compliance for a 3 3 variance discussed during the course of closed plant? Yes, there could be. In a 4 4 construction? 5 case of a transfer of ownership, presumably 5 environmental requirements would apply. 6 A. And my answer is --6 MS. FRIGNOCA: Mr. Long, would Still a regulated emissions source. 7 7 you please speak a little more slowly? Q. Assume that the project had been terminated, 8 A. My answer is, we didn't know if we needed a for whatever reason -- a decision by PSNH, a 9 9 legislative decision -- some decision to variance until after the scrubber was in 10 10 operation. So there was nothing to discuss. terminate the project before its completion, 11 11 in your opinion, would PSNH have been able to BY MR. PATCH: 12 12 13 O. So I think the answer is no. 13 recover on rates what it had spent up until Would any or some of the environmental that time? 14 14 and regulatory concerns behind the Clean Air 15 A. Well, I don't know. I mean, I think that 15 Act -- you know, reduction of mercury, would have been quite a legal discussion. 16 16 impacts on air quality, those kinds of 17 O. Okay. Well, I'm going to direct your 17 things -- would any of those concerns have attention to TC-3-14, which I think has 18 18 19 been addressed or satisfied if PSNH had 19 already been handed out. 20 exercised the sale option or the retirement MS. GOLDWASSER: No. 13. 20 21 option? BY MR. PATCH:

23

22 A. Neither the sale or retirement option was

24 Q. I don't think you -- you want me to repeat

anything that we pursued.

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23

24

22 O.

No. 13. And I'm going to direct your

attention to Page 8 of 31. And this is what

you told the legislature in March of '09.

DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Page 45 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 147 1 A. Okay. I have it. 1 "Please provide copies of all reports to the 2 Q. Okay. I'm looking at the fourth bullet. Legislative Oversight Committee on Electric 2 3 A. Yeah. 3 Restructuring and other persons pursuant to 4 Q. And it says, "\$230 million (over half of the the requirements of 125-O:13, IX." And this 4 cost to engineer and build the scrubber) has response provides a one-page legislative 5 been spent or contractually committed. The update, June 18th of 2008. And the only 6 6 cost will have to be recovered from PSNH reference I see in here to project cost is at 7 7 the very bottom, in the right-hand box. It customers whether or not the scrubber 8 8 installation is completed." says, "Project costs will be updated with 9 9 10 A. Yes. review of major equipment bids." So I see 10 nothing in there about the increase to \$457 11 Q. Was that your understanding of whether or not 11 12 PSNH would be able to recover in the event million. 12 13 that the project had been terminated early? 13 Do we have all the documents that were Yes. I mean, we believe we acted prudently, provided to that Committee? Because that's 14 A. 14 and have and continue to act prudently. what we asked for. Is there something else 15 15 So, yes, the cost will have to be recovered. 16 you know of? 16 You know, would others oppose it? What would 17 A. Again, my name's not on that data response. 17 happen? I don't know. That's a legal But there's nothing more that I know of. 18 18 19 question. But the cost would have to be 19 (Long Deposition Exhibit 16 marked recovered. We still have -- the cost still for identification.) 20 20 21 exists. And we acted prudently. Assuming 21 Q. The Scrubber Law as passed provides that you under your scenario, we acted prudently. can only collect the cost of the scrubber 22 22 And so clearly, you would have approached the from default service customers. Obviously, 23 O. 23 PUC, at whatever that point in time would you're aware of that; correct? 24 24 GARY LONG - 9/16/13 Page 146 **GARY LONG - 9/16/13** Page 148 have been, and asked for recovery of whatever 1 1 A. Yes. 2 costs you had incurred. 2 Q. And that's part of the mandate; is it not? 3 A. I'm trying to understand the circumstances in з A. Yes. which that situation happened. But if, you 4 Q. Could you please describe any and all efforts 4 know, we couldn't comply with the law and had 5 that PSNH has undertaken to try to collect 5 to shut it down, but acted prudently up until those costs from all of their customers. 6 6 the time the law was changed, or, you know, 7 A. Talking about before the legislature? 7 as long as -- and we felt that we have. Q. I'm talking about before the legislature, the 8 Certainly when this thing was written, we PUC, anybody else, any and all times PSNH has 9 9 made any efforts to try to change the effect felt that we had acted prudently. So, yes, 10 10 we believe that being a regulated utility -of that provision. Again, it's part of the 11 11 (Court Reporter interjects.) mandate that says you can only recover from 12 12 13 A. So we feel as a regulated utility we should default service customers. 13 be allowed to recover all of our prudently Have you made any efforts to try to 14 14 15 incurred costs. 15 change that? You suggested that to the 16 Q. This morning I think we had talked about what legislature. Have you suggested it to the 16 was told to the legislative committee in June PUC? 17 17 MR. NEEDLEMAN: To the extent 18

of '08. And I just want to direct your 18 19 attention to a response. This is Staff 1-12, and it's Page 27 of 28. 20

21 (Witness reviews document.)

22 Q. And it says, "PSNH Legislative Update, 23 June 18, 2008." And the question that was asked and to which this is a response said, 24

the scope as the PUC ruled, I object to that question. MR. PATCH: I think it's very relevant to the argument they continue to

make about it being a mandate, when say they

that that calls for testimony that's beyond

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Page 49 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 151 were mandated, they were mandated, they were 1 who signed the order to see if I could get an 1 mandated, and they didn't have any ability to oral modification of the order in order to 2 2 3 change the law or try to seek a change. And 3 accommodate the schedule this afternoon, yet, the answer to this question I think is because we have three questioners who want to 4 4 relevant because it goes to the fact that, question -- that is, OCA, Sierra Club and 5 5 even though there was a mandate in the law, CLF. And so I have gotten permission from 6 6 there may very well have been efforts -- I'm the Commissioners to do three sessions this 7 7 looking for the answer to the question -afternoon, but we will still end at 5:30. So 8 8 there may very well have been efforts to we'll just break up our time accordingly. 9 9 change that. So I think it's very relevant, MR. BERSAK: PSNH is somewhat 10 10 and I'd like an answer. 11 11 dismayed by, again, another change in the 12 MR. NEEDLEMAN: Well, now that Commission's decisions. When we came here, 12 13 you've clarified, I do object, because based 13 per the order of the Commission to produce 14 on the order on the bottom of Page 5, it's Gary Long, the Commission was very plain: 14 clearly beyond the scope. Two sessions in the morning, two in the 15 15 MR. PATCH: I disagree. I afternoon. The Commission was also plain, in 16 16 think it's very much within the scope. that it directs Sierra Club and CLF to 17 17 MS. ROSS: I will sustain the combine their discovery and 18 18 19 objection. 19 cross-examination. So now we're having (Discussion off the record among variations from both the order that was 20 20 counsel for TransCanada.) 21 21 issued ordering this deposition, as well as MR. PATCH: Okay. I think the Commission's earlier orders regarding the 22 22 that's all the questions we have. Thank you. participation of the two environmental groups 23 23 Thank you, Mr. Long. in this. I suppose we have no recourse but 24 24 **GARY LONG - 9/16/13** Page 150 **GARY LONG - 9/16/13** Page 152 MS. ROSS: So that's the end to accept it. But we are unhappy with it. 1 1 of our first segment. And I would suggest MS. ROSS: And just so you 2 2 that we break early for lunch, because I understand my thinking, this is not a 3 3 understand that one of the next sessions cross-examination. It is a deposition. And 4 4 requires a little additional preparation. 5 I did check with the two groups, and they did 5 I've been asked if we could take a longer feel that it would be more effective for them 6 6 lunch break. So that would mean we'd still each to use their own questioner. And that's 7 7 be back here at 1:45 for two, why I asked the Commission if it would modify 8 8 hour-and-forty-five-minute sessions. We'll the order to accommodate that. 9 9 see you at 1:45. Okay. With that, let's get 10 10 (Lunch recess taken at 12:10 p.m.) started with the OCA's questions. 11 11 MS. ROSS: So, just to address MS. CHAMBERLIN: Thank you 12 12 the scheduling questions, we did break early 13 very much. 13 for lunch. And PSNH's attorneys pointed out **EXAMINATION** 14 14 15 that, because the Commission ordered two 15 BY MS. CHAMBERLIN: sessions in the morning and two in the 16 Q. Good afternoon, Mr. Long. 16 afternoon, that it was their position that we 17 A. Good afternoon. 17 should only have two questioners this I'm going to go into a little more detail on 18 18 Q. 19 afternoon. And I do acknowledge that that's 19 some of the areas raised by Mr. Patch. how the order was structured. And having Back in 2007, PSNH hired a project 20 20 manager for the scrubber project. Is that a 21 broken early for lunch, I could have simply 21 ended the session this morning and started standard practice for PSNH? 22 22 23 the next one for the morning, but I didn't. 23 A. I believe you're referring to the And so I checked with the two commissioners engineering/procurement/construction manager. 24 24

DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Page 153 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 155 And it's the same practice we used in 1 it was delegated. It was to be managed by 1 constructing the Schiller wood plant. the project team, the generation team that 2 2 3 Q. Is there a threshold financial commitment 3 John MacDonald had set up. And John would, that says, We're not going to do this you know, report to me as necessary to keep 4 4 in-house; we're going to hire a manager? me informed. But my involvement was not a 5 You could have an internal person doing that. 6 day-to-day, was not a project management 6 But given the size and complexity of the 7 involvement. 7 project, because our internal staff had not 8 Q. And was it his decision as to how often he 8 built a structure -- a scrubber before, we would report to you, or did you have a 9 9 clearly needed to get expertise in that area. regular schedule? 10 10 11 Q. And just to be sure that we're talking about 11 A. It was as needed. He would inform me. I 12 the same group, that was Washington Group would -- I see him frequently. So it was, 12 13 that turned into URS. They just changed 13 you know, frequent contact as a direct their name at some point. 14 14 report. So you may ask him questions when you saw 15 A. It was the Washington Group that we hired, 15 O. 16 him, and he would respond --16 17 Q. And how was that decision made, that you were 17 A. Yes. going to -- that PSNH, as a company, was -- on a continual basis, but maybe not 18 18 O. 19 going to hire an outside expert? 19 formally every day. 20 A. It went through the strategic sourcing Not formally every day. Orally, typically. 20 A. 21 process that we talked about a little bit 21 You know, the documents that were prepared this morning. The reason was what I had for, like the RaCC we talked about this 22 22 23 briefly just stated with you: A major 23 morning, he would obviously show those to me 24 project looking for somebody who had 24 and we'd talk about them. **GARY LONG - 9/16/13** GARY LONG - 9/16/13 Page 154 Page 156 experience with engineering and construction 1 Q. And when it went out -- when URS was putting 1 construction projects out to bid, did they 2 of scrubber projects. 2 3 Q. When you talk about the "strategic sourcing 3 create the RFP themselves, or was there an NU process," was this a decision that you as the or PSNH RFP that was given to them? 4 4 president made, Look, we really need to get A. It was a team effort involving our EPC 5 5 contractor, the project team. We had a an outside expert for this, or is this some 6 6 sort of committee that made the decision? project team that was over and above that EPC 7 7 8 A. The actual management of the construction was contractor. It was our management that was 8 a delegated responsibility to the done in association with our service 9 9 vice-president of generation, who reported to providers, our procurement department, our 10 10 me. And he established a project structure, legal department who did our contracts 11 11 a project team, which I concurred with, I routinely for Northeast Utilities. So it was 12 12 supported. 13 a team effort. 13 14 Q. And is that --14 Q. And what does EPC stand for? 15 A. He was the officer in charge, so to speak. 15 A. Engineering, procurement and construction.

- 16 Q. And is that person William Smagula?
- 17 A. No, that's John MacDonald.
- 18 Q. John MacDonald. Okay.
- And once the project manager was hired, 19 20 how did they communicate to you? How did you
- get information from them about what they 21
- were doing, and how did you communicate to 22
- 23 them?
- 24 A. There wasn't a direct communication. Again,

- And that was a team of people? That was the 16 Q.
- 17 team that you just referenced that John --
- EPC was the Washington Group. But you asked 18 A.
- about actual letting contracts, did EPC do it 19
- by themselves. The answer is no. These PSNH 20
- 21 contracts were reviewed internally by legal,
- our purchasing or procurement departments, as 22
- 23 well as the generation team. It was a team
- effort in evaluation of the requirements, the 24

DEPOSITION OF: GARY LONG - September 16, 2013 DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Page 157 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 159 specifications, the bidders. 1 background on this. We need to share this **2** Q. Did you formally approve the contract when information with others." 2 it -- when the team work was done? 3 O. All right. Was there any negotiation that 4 A. John would brief me on the results of their you are aware of between URS and the bidders? 4 analysis, who the bidders were, how they I mean, did the contract go out, "Here's what 5 5 assessed the bidders. And then in some cases 6 we want you to do. It's a price contract"? 6 I would -- I may have signed a contract, in Or did it go out, "Here's approximately what 7 7 other cases he may have, depending upon the we're thinking. We want you to submit and 8 8 level of commitment. If it was beyond our meet these general terms"? 9 9 authorization, then it would have been signed Very specific as to what the equipment had to 10 A. 10 11 by somebody else. 11 do. Performance standards were included in 12 Q. And if you had a specific concern, something the contract. So it wasn't general at all. 12 13 specific you wanted to put in the RFP, how 13 It was very, very specific. And the would you communicate that? discussions would be with URS or Washington 14 14 15 A. I would talk to John about it. But I didn't. 15 Group, but it also could be with our 16 It was -- they were the ones who managed the purchasing department. It could be also with 16 our own project team. I mean, it was -- each 17 project. 17 18 Q. All right. So you don't recall a time when of them had to be satisfied that they had the 18 19 you had a specific concern that you asked 19 information they needed before they could them, "When you do this RFP, make sure they complete the evaluation. 20 20 have this experience," or anything like that? 21 21 Q. So, do you believe you were comparing apples to apples when they got the information back? 22 A. No. The project team was far more 22 Oh, absolutely. I mean, we had taken great 23 experienced in construction management than I 23 A. 24 was. So it was a delegated responsibility. 24 steps, knowing that this was a large project,

GARY LONG - 9/16/13 Page 158 **GARY LONG - 9/16/13** Page 160

1 Q. Okay. Now, at some point the prices came in 2 higher. The responses to the construction RFPs and the contracts came in higher than 3 you had originally anticipated. Do you 4 recall how you found out about that?

A. I found out about it from John MacDonald. 7 Q. And do you recall, was it a single contract,

or did he wait until several contracts came

8

in and there was a group of them? Do you 9

recall the specifics of what he told you? 10

11 A. I don't recall the specifics. But it was,

you know, after, as was indicated this 12

morning, the engineering was done, the 13

specification was done, the research with the 14

15 potential vendors, the discussions that

occurred, you know, when they had pretty good 16

indication. 17

18 Q. And was it a surprise to you?

19 A. It was higher than I expected.

20 Q. And was it a -- something that you

21 immediately said, "Well, now what are we

going to do?" Did you have any sort of gut 22

23 reaction to these numbers?

"Tell me why it went up. Give me some

to be very prudent in every step of the way. 1

2 O. Did you -- when you found out the prices were

3 high, do you remember approximately what

time? Was this in 2008, 2007? 4

A. You know, I mean, looking at the documents, I 5

think it was in 2008 is when we went to the 6

RaCC Committee with the 457. So it would 7

have been sometime a little bit before that 8

would be one of the first indications I would 9

have had. 10

So the first reporting you did was to the 11 O.

RaCC Committee? 12

13 A. I'm sure I informed my boss before I went to

the committee. But, you know, we would have 14

15 reported, you know, what our estimates were

and as we prepared for the more formal 16

presentations to the committee. 17

All right. In response to that data, you 18 Q.

said you had a response that you were going 19

to do something about it, find out where the 20

21 debt -- where the numbers came from.

Anything else once you had found out where 22

the numbers came from? 23

Well, as I said, it was disclosure. It was 24 A.

DEPOSITION OF: GARY LONG - September 16, 2013 DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Page 1610 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 163 to understand why, to understand the 1 A. Again, you know, this project, you know, was 1 legitimacy of the new estimate, the reasons. one that we took great efforts to make sure 2 2 3 You know, and they're all good reasons as to 3 we documented every decision every step of why it changed. You know, we've already the way, the procurement decisions. So 4 4 talked about how the market was changing there's an extensive amount of project 5 5 around us. So that was all information that documentation. The PUC's consultant, Jacobs, 6 6 was shared with me as to what were the has reviewed those. Very, very thorough set 7 7 drivers. And, you know, that -- as I said, of documents. 8 8 understanding that was part of it, and then Q. Some of the contracts I reviewed referred to 9 9 disclosing it so that others who were, you software called "Primavera" software. Are 10 10 know, probably -- the last number they'd seen 11 11 you familiar with that? 12 was 250 -- was to make sure everybody saw the 12 A. No. 13 new numbers. 13 Q. Are you familiar with the fact that there is 14 Q. And once you had those new numbers, did you 14 software that keeps a record of the change your process at all going forward with 15 15 contractor costs? Well, I certainly would anticipate that there 16 the project? 16 A. 17 A. Not the construction process. I mean, the are a lot of tools, project management tools 17 construction process and the construction used. I personally don't use those tools, so 18 18 19 management process is what gave us the 19 I'm not familiar with them. information that we needed in order to make 20 Q. All right. Now, Attorney Patch mentioned the 20 21 what we call a final estimate. So, at that 21 PowerAdvocates' report, which was in 2008, I believe. What triggered that report? Why point, we were pretty confident of the 22 22 23 estimate. And so now it was just a matter of 23 was there one done? managing within that, below that if we could. 24 24 A. What was that --GARY LONG - 9/16/13 Page 162 **GARY LONG - 9/16/13** Page 164 As I stated earlier, we were able to 1 Q. It's Long No. 7. 1 2

5

- 2 manage -- to beat that budget estimate.
- 3 Q. Were you -- at one point you talked about
- having a certain amount of dollar amount 4
- under contract. What does that mean to you,
- 5
- "under contract"? 6
- 7 A. When the project was broken up into its major
- components, that would involve different 8
- vendors, different specifications and 9
- requirements. We called them "islands of 10
- work." And so the idea -- and they had 11
- different time frames for which they had to 12
- be started. And so it would be doing the 13
- detailed specifications, going out for a bid, 14
- 15 having those discussions with the bidders,
- trying to negotiate the price down, trying to 16
- negotiate terms for performance. That's
- 17
- really the process. 18
- 19 Q. And as money went out to these various
- 20 subcontractors or contractors, was there a
- 21 record kept of dollars spent?
- 22 A. Absolutely.
- 23 Q. And is that record kept on a daily basis, a
- 24 weekly basis?

(Witness reviews document.)

3 A. You know, this is our advocate's -- the

summary. They were asked to look at --4

(Court Reporter interjects.)

A. -- to look at the project cost estimate for 6

Merrimack Station. And their report 7

addresses some site-specific factors and 8

other things that's happened in the industry 9

and other projects of similar type. 10

Was this -- I didn't mean to interrupt you 11 O.

Were you finished? 12

13 A. Yes.

14 O. Was this something that URS asked to be done,

15 or is this something that you asked to be

done, or some other entity? 16

17 A. I don't know specifically. Again, these

responses -- this response is Bill Smagula.

But most everything in the project was 19

collaborative. And, yeah, I don't know. I 20

21 can't tell you which specific individual.

But, you know, looking for expertise to help 22

23 us understand the impact of the project. So

part of our prudent management of the project

24

DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Page 165 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 167 is to understand things as we go, and this is 1 construction schedule, quality. You know, so 1 just part of that understanding. there are other -- you know, and reporting to 2 2 3 O. So you had these costs, and you went forward 3 the RaCC. I don't remember the exact dates. and looked at what caused the costs, and But we would have looked at other risk 4 4 that's what initiated this report? Is that a factors associated with a successful major 5 5 fair summary? 6 project. 6 7 A. Yeah, that's fair enough. As I indicated 7 Q. And these folks are all internal NU people? earlier, we were in a compliance mode. This is not some outside group; is that 8 8 Again, you know, we were implementing a correct? 9 9 decision made by the state. And, you know, Correct. 10 A. 10 11 so in implementing that decision, we just, 11 Q. And do they have separate access to 12 you know, wanted to understand matters as we information? For example: If they had a 12 13 proceeded, and we wanted to manage the 13 concern that you had not brought up, would construction as best we could. they then ask you about it? 14 14 Yes, that would be part of their role, if 15 Q. And the next step, or the next approximate 15 A. step, was reporting to the risk management they felt that we weren't -- if we had missed 16 16 committee. Is that correct? something. They could always direct us to go 17 17 **18** A. Are you saying once the estimate was known? back and report back to them. They could 18 19 Q. Once you had the estimate, right, and you had 19 always ask for their own analysis, I suppose. said you had to make -- you had to notify But it was part of the governance of NU. And 20 20 21 different parties, different entities, and 21 they could have taken whatever other steps they wanted or directed us to get more one of those was risk management committee. 22 22 23 Was it an internal step at that point? 23 information. 24 A. That was, I think, one of the steps. As I 24 Now, we did -- you know, in cases we'd GARY LONG - 9/16/13 Page 166 **GARY LONG - 9/16/13** Page 168 indicated this morning, part of the NU go before them, they asked us a couple 1 1 governance process is to give periodic 2 2 follow-up questions, we would provide reports to the Risk and Capital Committee, follow-up information. 3 3 4 Q. And did you do a cost-benefit analysis at you know, certainly when there's a 4 significant change. So that was one step, if 5 this point? 5 you want to call it "steps." They're not I don't know about cost benefit because 6 6 necessarily sequential. Of course, that's something you would do if you were 7 7 ultimately another one was to disclose this determining public interest, which was 8 8 to the financial committee -- community already determined by the state. So there 9 9 through the Securities Exchange Committee are many benefits that were not included in 10 10 reports. Another step, of course, is letting the report to the RaCC. The RaCC was 11 11 the Public Utilities Commission have primarily focused on financial requirements 12 12 information on this, and then ultimately, of 13 for the project and progress on the project. 13 So, typically, you know, RaCC doesn't look at course, the legislature knowing what the new 14 14 15 estimate was. 15 other benefits to the state, whether it be jobs or property taxes or security of energy 16 Q. Now, you raised the cost estimate with the 16 17 risk management committee. Was there supply or fuel diversity. We might have 17 anything else that you raised in front of pointed out some of those things to them, but 18 18

19 them at this time?

20 A. I'm trying to get at -- use your terminology.

21 But the risk committee is -- construction

22 risks would have been a part of the

23 reporting. They're interested in what can

affect construction, what can affect the 24

that wasn't their primary focus. Their 19

primary focus was what were the capital 20

21 requirements for the project, and is it being

well managed and making progress on meeting 22

23 its goals.

So they did not get a -- they did not ask for 24 Q.

DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Pade 69 GARY LONG - 9/16/13 **GARY LONG - 9/16/13** Page 171 and you did not present a cost-benefit 1 the normal decision-making process that other 1 projects at PSNH would have been subjected analysis? 2 2 3 A. There were economic analyses that had 3 obviously been provided. But, you know, it 4 Q. So, no, you didn't do a cost-benefit analysis 4 depends on how you want to define "cost for the risk management committee for the 5 5 benefits." We did not do a public interest 6 6 reasons you've just described. determination. That had already been done by Well, you know, again, we provided economic 7 A. 7 the legislature. We did do -- in this time analysis. We listed the benefits. But did 8 8 frame, we did ask for economic analysis of we do a formal study where we pulled it all 9 9 what the impact would be of Merrimack Station together and weighted it or analyzed it? No, 10 10 11 on the community. So we did economic 11 we didn't do that. It wasn't the RaCC's role 12 analyses. Those were shared publicly. But or authority to decide cost benefit. It 12 13 as far as, you know, trying to pull it all 13 might be on other projects, but not on this together in some kind of public interest project, because the legislature had already 14 14 conclusion, we didn't do that. That was made that decision. It wasn't within the 15 15 16 already done. I mean, that was already --RaCC's authority to make that decision. 16 that decision was already made by the 17 Q. Now, Attorney Patch went over PSNH and 17 whether or not you monitored fuel markets. 18 legislature. 18 19 Q. I'm not sure I understand what you mean by 19 Did fuel market information -- just a "public interest." When you were -- would couple questions -- get communicated to you 20 20 21 you say a cost benefit and public interest is 21 directly in a particular chain of command? I the exact same thing? know it wasn't your area. So if there was 22 22 23 A. No, not necessarily. What I'm trying to 23 somebody monitoring fuel markets, how would 24 indicate to you is there are other than 24 that information get communicated to you? GARY LONG - 9/16/13 Page 170 **GARY LONG - 9/16/13** Page 172 financial considerations when one decides 1 A. Word-of-mouth indication of what the energy 1 2 public interest. This is not a situation 2 prices in New England were on a daily basis, where we needed to make a filing with the PUC indication of what it would cost us to buy 3 3 power in the next six months or four months listing all the benefits and cost of a 4 4 project and ask for their permission or their 5 or one week. I mean, those are all 5

- approval to proceed. That's what we did for 6
- the Schiller wood plant. We made a filing 7
- with the PUC. We talked about the energy 8
- benefits, the jobs benefits, the tax 9
- benefits. You talk about all the benefits 10
- when you ask the Commission to make a public 11
- interest finding. As I indicated this 12
- morning, this is unique. I've never seen it 13
- before. That public interest finding was 14
- 15 already made. It was already made by the
- legislature. And that's not often -- that's 16
- the first time I've seen it happen. So it 17
- wasn't the PUC who we could go to and ask for 18
- a public interest finding, nor was it our own 19
- 20 management who we could go to and say make a
- 21 cost benefit, because basically that decision
- was already made by the legislature, and they 22
- 23 already found the installation of a scrubber
- to be a reasonable cost. So it was not in 24

- indicators of natural gas prices, which are 6
- the major driver of energy prices in New 7
- England. So, yes, I would have a general 8
- understanding of whether they went up or 9
- down, or whether, you know, they were low or 10
- high. And, you know, you can look at the ISO 11
- Web site to see that from time to time, where 12
- 13 some of the bid prices ended up -- clearing
- prices, I should say. But as I said earlier, 14
- 15 I didn't do the forecast. But, yes, I -- the
- very volatile situation changed often, and I 16
- was generally aware when it changed. 17
- Generally aware. Was it part of your routine 18 Q. 19 to check the morning report at the ISO and
- see what the prices were? 20
- 21 A. No.
- Okay. In 2008, there was a Brattle Group 22 O.
- report. What triggered that report? 23
- 24 A. Again, I think that's the one we talked about

DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Pade 173 GARY LONG - 9/16/13 **GARY LONG - 9/16/13** Page 175 this morning. 1 legislature has more of a policy role. The 1 2 Q. Yes. That's Long No. 6. Commission is more of oversight regulatory 2 3 A. Thank you. We didn't -- the Brattle Group, 3 review. So the Commission has expertise on as indicated this morning, was a group its staff. And, you know, their role is to 4 4 enlisted by Connecticut Light & Power for look into things in more detail generally, I 5 5 6 doing studies as part of their regulatory 6 would say. compliance in Connecticut. 7 Q. And how do you decide -- well, looking at 7 Long 13, which is the 2009 legislative 8 Q. And would you have become aware of this 8 report, you know, here in New Hampshire? Is presentation, how do you decide what goes 9 9 there somebody who might have brought it to into a report to the legislature? 10 10 11 your attention? 11 A. Whatever we might think is the issues that 12 A. Yes. the legislature is considering, whatever is 12 **13** Q. And did they bring it to your attention? 13 their interest that directly relates to us. 14 A. I was generally aware that Connecticut was It's not prescriptive. I mean, the 14 doing these studies. I would periodically, 15 15 Commission can be very prescriptive in what as part of a group staff meeting, hear of the it wants from us. Sometimes the legislature 16 16 work that was being done in Connecticut. So 17 17 will be, and oftentimes it's not. I was aware that the study exists. I did not So you would try to anticipate what you think 18 18 O. 19 manage it nor oversee it in any way. 19 would be useful for them to know and give it 20 Q. So there was nothing in this study that you 20 to them. 21 thought might change your approach to what 21 A. And also to express our position on issues. you were doing in New Hampshire. You didn't Okay. And -- all right. We went through 22 22 read this and go, "Wow, we've got to do 23 23 that. something different now." 24 24 In this report, was there -- I'm GARY LONG - 9/16/13 Page 174 **GARY LONG - 9/16/13** Page 176 1 A. Well, no, because it didn't change the referring to this report because it's here in 1 2 compliance plan that we had, you know, 2 front of us. But if there was another report complying with the law. No, it did not or opportunity, let me know. But did you 3 3 change that. It gave us information about include any information on customer 4 4 what was happening in New England. It gave migration? 5 5 us one indication as a view of one consultant A. Not highly discussed or occurring at that 6 6 as to where things were going. But it wasn't 7 7 enlisted as a PSNH study or a study of the (Court Reporter interjects.) 8 8 scrubber. It was much broader than that. O. And is there information on SO2 allowance 9 10 Q. And from time to time, you made reports to markets? 10 the legislature and the PUC. The first one, (Witness reviews document.) 11 11 I believe, was the September 2nd, 2008, Not sure if there's a question pending or --12 12 A. report. You were responding to a Commission Oh, yeah. I was waiting. Did you put any 13 13 information in here -- did you give any directive to file that report; is that 14 14

- 15 correct? 16 A. Yeah. Yes, I believe there was a request, a direction from the Commission to provide them 17 with a report, and we did do that. 18 19 Q. And is it fair to say that your reports to 20 the Commission are more detailed than a 21 report to the legislature? 22 A. Typically. 23 Q. And why would that be? 24 A. The Commission -- different roles. The
- 15 information to the legislature on SO2 allowance markets in the 2009 legislative 16 presentation that is Long Exhibit No. 13? 17 I don't see it in this exhibit. But I 18 A. couldn't say that we hadn't provided it in 19 some other means or in some other discussion. 20 I don't see it in this particular one which 21 is talking about the reductions, the project, 22 23 the project status, the cost, what were some of the drivers of the increased costs. 24

Pade 1770 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 179

- 1 Q. Now, as the project was going on and costs
- were incurred and under contract, could you
- 3 at any given day say how much you had spent
- and how much you were committed to spend? 4
- 5 A. We had -- the thing that I'm struggling with
- is you said "any day," because there's always 6
- invoices in play, there's always work being 7
- done. So it was a very dynamic situation. 8
- But, you know, certainly at any month or any 9
- week we had a report and accounting of our 10
- expenditures to date. But it was an ongoing 11
- process. In other words, as soon as your 12
- 13 report is done, you're obviously continuing
- your expenditures. Yeah, but we had a very 14
- good tracking of our costs as we went. 15
- 16 Q. Because it is many-faceted and lots of things
- changing all the time, and it's hard to keep 17
- track of. But you would say you did keep 18
- 19 track of --
- 20 A. Oh, yes. Had the project team whose
- 21 assignment was to do that.
- 22 Q. All right. So when I asked about the
- 23 Primavera software, you're saying that's
- 24 not -- you don't know about that level of

- 1 A. That was our intent all along. But to do
- that, you have to get into detailed 2
- 3 specifications and extensive conversations
- and negotiations with vendors. So, yes, we 4
- had extensive discussions with vendors. The 5
- result of that process is what allowed us to 6
- make the final project cost estimate. 7
- Q. So, some contracts were fixed-price contracts 8
- and some were not? Is that fair to say? 9
- 10 A. Yes.
- 11 Q. So the earlier ones were not. But then the
- 12 later ones, when the prices were escalated,
- 13 were.
- 14 A. The ones that involved major equipment,
- manufactured design, would tend to be a 15
- fixed-price contract, you know, where we 16
- wanted assurance. Where we would tend to not 17
- have fixed-price contracts and be willing to 18
- 19 leave it to be determined along the way were
- things that were much more controllable and 20
- 21 predictable. It could be, you know, work
- that you know you could get workers locally 22
- to do as opposed to very specialized work in 23
- 24 which you didn't have control over it. So it

GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 178 Page 180

- detail? 1
- 2 A. No. You know, I personally have never used
- that tool. So I've heard the name before, 3
- but I never used it. I can't tell you what 4
- it really does. 5
- 6 Q. And when you found out that there were
- changes in the costs, did you put anything 7
- new in the contracts with your vendors to try 8
- to respond to that?
- Well, the cost estimates were a product of 10 A.
- talking with vendors and working out 11
- contracts. So, yes, it was all a very 12
- dynamic process. And that's as a result of 13
- that process, in large degree, and the 14
- 15 detailed specification is what gave us that
- cost benefit. So it wasn't like you did a 16
- cost benefit and then the contracts. The 17
- contracts is what -- a vehicle to help us 18
- 19 understand what the costs were, because we
- 20 were managing fixed-price contracts. So we
- 21 wanted to get as much definition as we could
- before we actually spent the money. 22
- 23 Q. So that was in response to the cost
- escalating; you made fixed-price contracts. 24

- was depending on the nature of the work and 1
- 2 the availability to do it in a
- 3 non-specialized way that determined whether
- you went with fixed price or you could manage 4
- 5 it as you go.
- All right. So the fixed-price contracts were 6
- not in response to the price escalations? 7
- That was just in response to you had a little 8
- more information? 9
- A. Well, no. It's regardless of price. A 10
- fixed-price contract is a technique used in 11
- project management for large projects so that 12
- you don't get surprised along the way and so 13
- you can manage costs, as opposed to 14
- 15 open-ended contracts that will keep
- escalating, as a highway project. You've 16
- heard about many public projects where the 17
- costs have increased. So fixed price is a 18
- way that, as you go into it, you have a 19
- pretty high degree of confidence that your 20
- estimate is correct. So when a 457 estimate 21
- was completed, we had a very high level of 22
- 23 confidence in it, as opposed to the \$250 million estimate which we had very little 24

DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Page 1810 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 183 confidence in it because it was not based on at any particular time? 1 detailed specifications, design discussions It was, I think, relatively new information 2 3 with vendors, et cetera. So the critical 3 for me personally because I'm not in the parts, like the actual manufacture of the natural gas business. 4 4 scrubber vessel, for instance, would be under 5 O. Do you remember when you found out about it? 5 a fixed-price contract because it's a A. Oh, no. But it was -- I mean, I've been with 6 6 one-of-a-kind for our unit, and you want to the company for 37 years. So I'd say it 7 7 make sure it was very well defined as to the would be recent within that schedule of time. 8 8 cost and its performance requirements, as an Q. But it wasn't -- it's not -- it wasn't 9 forefront in your mind while you were working 10 example. 10 11 Q. Okay. Did you communicate to URS that you 11 on this project. 12 had a \$250 million estimate at any time? 12 A. No. 13 A. Well, they came in the picture later than --13 O. Okay. Let me just check. there was -- it was Lundy who did the 250 (Pause in proceedings) 14 14 estimate. So I can't imagine Washington MS. CHAMBERLIN: That's all I 15 15 Group not being aware of it. 16 have. 16 17 Q. And were they given an instruction that they 17 MS. ROSS: Thank you. Who is were trying to meet this \$250 million [sic] 18 next, please? 18 19 cost figure? 19 MS. CHAMBERLIN: Thank you 20 A. I would say our desire all along was to get 20 very much. 21 the lowest cost we could in the time frame 21 THE WITNESS: Thank you. that we were, you know, ordered to do. So, (Pause in proceedings) 22 22 23 yes, I mean, Washington Group were there to 23 help manage costs. They were there to help 24 24 GARY LONG - 9/16/13 Page 182 **GARY LONG - 9/16/13** Page 184 get the lowest cost. They were there to help **EXAMINATION** 1 1 us negotiate and work with vendors to get the 2 2 BY MS. FRIGNOCA: lowest cost. That was part of their charge. 3 Q. Good afternoon, Mr. Long. 3 4 O. Was the \$250 million, was it a target, or was 4 A. Good afternoon. it simply an estimate? Q. My name is Ivy Frignoca, and I'm an attorney 5 6 A. It was, you know, early in the process. It for the Conservation Law Foundation. I know 6 was the best number available at the time. you've been answering questions all day. I 7 7 It was -- as I said, it was sort of generic, will try to make this as quick as possible. 8 8 based on different time frames. And we If you don't understand my question, will you 9 9 talked about all the things that changed let me know, and I'll rephrase it? 10 10 since then. But, you know, as a 11 A. Yes. 11 site-specific requirement, it was not a 12 O. Okay. I've been listening to a lot of the 12 sulfur-reduction scrubber; it was a mercuryanswers that you've given, and you have used 13 13 the words "very prudent," "prudency" and reduction scrubber. So it required a lot of 14 14 15 site-specific definitions, specifications, 15 "prudent management." And I was wondering if and then, you know, finding vendors who could you would tell me what you mean by "prudent 16 16 meet those specifications. And all of that 17 management." And I'm speaking in your role 17 was not available when the \$250 million with PSNH. 18 18 19 number was estimated. 19 A. Well, it's never in hindsight, first of all. 20 Q. Did you talk to the legislature about It's actions taken by management at the time, 20

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23

hydraulic fracturing at all?

hydraulic fracturing.

22 A. I don't recall there being any discussions on

24 Q. Do you recall being aware of the technology

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22

23

24 Q.

given the information the management had

Okay. And when you gave me that definition,

available. Oftentimes associated with the

term "good utility practice."

DEPOSITION OF: GARY LONG - September 16, 2013 DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Pade 185 GARY LONG - 9/16/13 **GARY LONG - 9/16/13** Page 187 are you talking specifically in terms of (Court Reporter interjects.) 1 1 prudent management with respect to an You have mentioned that with respect to the 2 3 improvement, like the scrubber? 3 scrubber project, that you had a project 4 A. In the context of the subject at hand, I'm management team put together? 4 talking about compliance with the mandated, 5 A. Yes. 5 and within that is the installation and 6 Q. Who was on your project management team? 6 A. The officer/sponsor was John MacDonald. Bill management, construction management of a 7 7 Smagula was his next in line in charge. We scrubber. 8 8 had full-time people involved. But the lead Q. Okay. Let me backtrack then. 9 Prior to being involved with the on that was an engineer named Mike Hitchko, 10 10 11 scrubber project, had you been involved with 11 who has very extensive experience inside and other big projects like the scrubber at PSNH? outside the company of managing construction 12 12 13 A. The answer is yes. It's not how my career 13 projects. He's also the manager who managed path went at PSNH. But a project that we had our Schiller project. 14 14 completed in 2006 was our Schiller wood Okay. And was anybody on that management 15 15 O. project. And that was a \$75 million project team assigned to look at the economics? 16 16 It was the cost, certainly the cost of the that was, you know, quite, you know, in our 17 17 A. mind, challenging and unique. And I was project, and to track the costs and manage 18 18 19 familiar with how our team had managed that 19 the costs. They weren't, you know, the ones who made the decision to do the project. So 20 construction. 20 21 Q. And in the context of the Schiller project, 21 their charge was to manage the construction how would you define "prudent management"? of the project. 22 22 Same way that I just defined it. 23 A. 23 Q. You had mentioned during your testimony 24 Q. Okay. So what were some of the aspects that 24 earlier in the morning that some of your **GARY LONG - 9/16/13** Page 186 **GARY LONG - 9/16/13** Page 188 you looked at to prudently manage the responsibilities -- or the biggest 1 1 Schiller project? responsibility was to make sure that you were 2 2 3 A. We talked a lot with the OCA about contract providing reliable energy to customers at a 3 management. So that would be an aspect of reasonable rate. Is that correct? 4 4 A. That's correct. And, you know, what I often 5 5 say and what I missed on that one, you know, 6 Q. Did you review costs? 6 7 A. It was something that was pre-approved by the there's also at a -- in a way that the public 7 Commission, as opposed to the scrubber. So wants an environmental compliance. I say 8 8

- we went to the Commission and had a cost 9
- estimate of \$75 million and lined up 10
- contracts along that way. And so we felt we 11
- could do it for \$75 million if we got timely 12
- approval. 13
- 14 Q. And were you able to complete that project
- 15 for \$75 million?
- 16 A. Yes.
- Q. So in that case you had a budget of 17
- \$75 million, and you stayed with the budget? 18
- 19 A. Yes. Again, it included fixed-price
- 20 contracts, as we talked about, with respect
- 21 to our management of the scrubber project.
- 22 Q. Okay.
- 23 A. And we were found to be prudent, and those
- costs are being recovered. 24

- that because, more so than in the past, the 9
- public is interested in the source of power 10
- in addition to it being reliable. 11
- Okay. With that caveat, it's still -- an 12 Q.
 - important part of prudent management would be
- to provide reliable energy to consumers at a 14
- 15 reasonable rate.
- Yes. Again, that's generically true. That's 16 A.
- our main mission. In the case of the 17
- scrubber, our prudent management was a 18
- compliance setting, not a decisional setting. 19
- So in that setting, we were to prudently 20
- 21 implement and comply with the mandate by the
- state. So it wasn't the same as --22
- 23 Q. Okay. Let me --
- 24 A. -- what we'd expect for the Schiller project

Pade 189 GARY LONG - 9/16/13 **GARY LONG - 9/16/13** Page 191 or another project that did not have a 1 Energy, Environment and Economic Development 1 held a hearing on the following, SB 152." Do mandate. 2 2 3 Q. Okay. So let me go back then. The question 3 you agree that that's what this exhibit is? that I had asked was: Is part of prudent A. Yes. 4 4 management to assure that you're providing O. Okay. 5 5 reasonable energy or power to customers at 6 MS. FRIGNOCA: Would you 6 a -- or reliable energy at a reasonable rate? please read back the last answer? Thank you. 7 7 And you said yes and then went on to explain (Record read back as requested.) 8 8 the caveat for the scrubber. BY MS. FRIGNOCA: 9 Yes, because how do you define "reasonable" So the decision to install the scrubber, 10 A. 10 11 in this case? And in this case, the 11 you're talking about that legislative 12 legislature had already said that the mandate. But my question to you was relating 12 installation of a scrubber is at reasonable more to the cost of complying. And I would 13 13 14 cost. So that public interest determination like to refer you to Page 33 of Exhibit 17. 14 And my question to you was more in regard to 15 was already made, you know. It wasn't, you 15 know, something that -- PSNH's role in the that you understood that the PUC would be 16 16 scrubber was to implement that finding and reviewing whether the costs associated with 17 17 those decisions by the legislature. And the scrubber were prudent, not just the 18 18 19 that's a very unique situation that didn't 19 installation. And your testimony at the exist -- that doesn't exist for any other bottom of the second paragraph -- and you can 20 20 21 project that I've seen in my 37 years. 21 tell me if I'm reading this wrong -- is, "But 22 Q. I just want to clarify. Is it your testimony that's not -- you know, what we're trying to 22 to me that the legislature determined the do is to have the lowest-cost power that we 23 23 cost was reasonable? can for the benefit of customers. But if 24 24 GARY LONG - 9/16/13 Page 190 **GARY LONG - 9/16/13** Page 192 people think that we're out of line, they 1 A. Yes. 1 2 Q. Do you recall testifying before the have recourse. They have recourse through 2 legislature and suggesting to them that prudency review, and they have recourse by, 3 3 whether the cost was reasonable was the role they can make a choice for a different power 4 4 of the Public Utilities Commission? 5 supplier." Did I read that accurately? 6 A. No. You've read that wrong. What I said --Yes. 6 Α. 7 Q. Excuse me. **7** Q. Was that your testimony at that time? A. Yes. And what I was describing as a prudency 8 A. -- before the legislature was -- I was referring to what I've said several times review was the prudency of complying --9 9 today. The Commission has authority over our 10 Q. Excuse me. Let me --10 prudent management action and implementing 11 A. -- with the law. 11 and complying with the law, which includes 12 Q. There's no question pending. 12 construction. Does not include the decision 13 MR. NEEDLEMAN: Well, 13 to actually install the scrubber. That was except -- I'm going to object for a minute. 14 14 15 not within our purview. 15 He should be entitled to complete his answer. (Long Deposition Exhibit 17 marked MS. FRIGNOCA: His answer was 16 16 for identification.) a "Yes" or "No." I asked him if that was his 17 17 18 Q. I'm showing you what has been marked as testimony at the time. And I'm about to ask 18 Deposition Exhibit 17. another question. 19 19 20 MS. FRIGNOCA: And just for MR. NEEDLEMAN: You can frame 20 21 the record, this is Attachment B. It's dated 21 the questions however you want, but he's entitled to provide an answer to the question March 13, 2009. 22 22 BY MS. FRIGNOCA: 23 you asked. 24 Q. And this says, "The Senate Committee on MS. FRIGNOCA: I guess what 24

DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Pade 193 GARY LONG - 9/16/13 **GARY LONG - 9/16/13** Page 195 I'm looking for is a ruling on having the 1 Q. That's different than what this says here. 1 witness answer the question. 2 A. Not to me. 2 3 MS. ROSS: I think it would be 3 Q. And you agree that customers can make a helpful if Gary could answer the question choice to migrate to a different power 4 4 without a lot of elaboration so that we can supplier? 5 5 Yes. 6 get through this fairly quickly. A. 6

- 7 MS. FRIGNOCA: Thank you.
- 8 BY MS. FRIGNOCA:
- 9 Q. So you agree that that's your testimony at that time?
- 11 A. As I said, the reference to "prudency" is --
- 12 Q. Is that a "Yes" or "No"?
- 13 A. That's what it says here. This isn't a --
- this is a statement. I don't know if I'd
- call it testimony.
- 16 Q. Okay. And is that -- would that be your
- testimony today? Do you still agree that
- customers have recourse if they feel the
- costs of the scrubber are too high and that
- they can challenge it through a prudency
- review or migrate to a different power
- supplier?
- 23 A. No, I don't agree with your statement.
- 24 Q. No, I'm not asking you to agree with my

- 7 Q. So when you were reviewing the scrubber
- 8 project, did you take into account migration
- 9 rates?
- 10 A. No.
- 11 Q. At any point in time did you take into
- account migration rates?
- 13 A. Well, this is 2009. So it's becoming a
- subject of discussion in 2009. And that's
- when it first emerged as a discussion point.
- 16 Q. Okay. So in 2008, you didn't take into
- account migration rates.
- 18 A. As I said, the decision was already made.
- Our role was to comply. We didn't -- it
- 20 was --
- 21 Q. But the question is: In 2008, did you take
- into account migration rates?
- 23 A. At that point, the project was already
- started. The law had already been passed.

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- statement. I'm asking you to agree with your
- **2** statement.
- 3 A. Well, your statement isn't what this says.
- 4 Q. Okay. This says they have recourse through a
- 5 prudency review. Do you agree that customers
- 6 have recourse of your decision through a
- 7 prudency review?
- 8 A. Okay. If you want me to explain, I can.
- 9 Q. Do you agree that they have recourse through
- a prudency review?
- 11 A. They're two different concepts in that
- sentence. One concept is under customer
- choice and state law, customers can choose a
- supplier. That's one concept. The other
- concept in that statement is a prudent
- construction compliance of the scrubber. And
- that's what the Commission has review on, and
- that is what our obligation is.
- 19 Q. Okay. So you agree, then, that the
- 20 Commission has an obligation to review the
- 21 prudency.
- 22 A. Of construction and compliance.
- 23 Q. Only of construction and compliance?
- 24 A. Yes.

- 1 Q. The question is: Did you take into account
- 2 migration rates in 2008 --
- **3** A. For what purpose?
- 4 Q. -- when you were analyzing whether or not
 - to -- when you were analyzing the management
- of the scrubber?
- 7 A. Customer migration rates were not a factor in
- 8 the law. And the law says install a
- 9 scrubber. So it wasn't a factor. The
- decision's already been made. And it didn't
- affect the construction, installation of a
- 12 scrubber.
- 13 Q. If I'm understanding your testimony
- correctly, your testimony is that you didn't
- take into account any variables because the
- law told you to build the scrubber, no matter
- 17 what.
- 18 A. I don't know what you mean by that, "didn't
- take into account." As I said --
- 20 Q. Well, let me go back through --
- 21 A. -- we were mandated to install the scrubber.
- So that was our charge, and that's what we
- 23 did.
- 24 Q. Okay. So --

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- 1 (Court Reporter interjects.)
- 2 A. Now, there were other factors in the business
- that were occurring. But our mandate was to
- 4 install a scrubber.
- 5 Q. Okay. So we're going to go back through some
- factors. And these are just "Yes" or "Nos."
- 7 Did you, when you were looking at
- 8 installing the scrubber, consider migration
- 9 rates?
- 10 A. That's been asked already.
- 11 Q. You haven't answered it yet. Yes or no?
- 12 A. No. I said in 2006, when the mandate was
- determined, there was no consideration of
- migration rates.
- 15 Q. In 2008, when the cost escalated, did you
- consider migration rates in your
- decision-making?
- **18** A. No, because the mandate was to install the
- scrubber, and we looked at what was the cost
- of doing that.
- 21 Q. Okay. In 2008, when the cost escalated, did
- you consider forward gas pricing?
- 23 A. It was -- there were assumptions used in the
- analyses that were presented to the RaCC, as

- did you look at or consider that the
- 2 Merrimack plant might be shifting from base
 - load to an intermediate or peak facility?
- 4 A. No.
- 5 Q. Did you consider that in 2009?
- 6 A. I don't know what you mean, "consider." I
- 7 mean, the construction was already well under
 - way. So, again, under whatever operation you
- 9 might want to assume for short term or long
- term, the requirement is the same: Put in a
- scrubber. So, did the role of Merrimack
- Station change over time? Yes, it did. Will
 - it change again over time? Probably.

MS. ROSS: I'm going to ask

the witness -- it's okay to explain your answer, but do try to give the answer before

you start explaining it. I think what

happens most of the time is you don't

actually give the answer, and then you give

the reason why. It appears you're implying

that you didn't consider things, and you're

giving the reasons why you didn't consider.

But if you could just give the answer first,

that, no, it wasn't a factor we considered

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- we discussed this morning. So when you say
- 2 "consider," it wasn't -- again, consider in
- what context? Not in the construction, not
- in the decision to mandate it, but in
- 5 analyzing and trying to understand the impact
- of that compliance, we did do a financial
- 7 analysis.
- 8 Q. So how far forward did you look at gas
- pricing when you did your analysis?
- **10** A. I don't know. I didn't do those analyses.
- But there were analyses done for as long as
- 15, 17 years, estimated.
- 13 Q. Okay. I thought earlier you said you didn't
- do long-term analysis.
- 15 A. Mr. Patch or -- pointed out to an exhibit
- that said we started at \$11 for gas and grew
- it at 2.5 percent. I don't know how many
- years of estimates or what that -- how many
- years of assumption that was used in the
- study, but...
- 21 Q. When you -- I'm sorry. Are you finished with
- your answer?
- 23 A. Yeah.
- 24 Q. When you were doing your analysis in 2008,

- because..., then I think it will go better
- and we won't have so much repetition here.
- 3 A. Yeah, I'm struggling with the word
- 4 "consider," because obviously we're aware of
- 5 what's happening in the markets and the
- energy world around us. But in the context
- of the mandate, we didn't have the freedom to
- 8 do anything other than install. But in the
- bigger context, of course we knew what was
- going on. That's what I'm trying to explain.
- 11 BY MS. FRIGNOCA:
- 12 Q. Okay. So it's your testimony that you didn't
 - have the freedom to consider the cost or
- whether it made economic sense to continue
- with the scrubber project.
- 16 A. That was the purview of the legislature.
- 17 Q. So you're saying that it's the purview of the
 - legislature to review the cost of the
- scrubber project.
- 20 A. I think of it in this way --
- 21 Q. No. Answer the question, please. Is it yes
- or no? Is it the purview of the legislature
- to review the cost of the scrubber project?
- 24 A. I can't answer that question.

13

DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Pade 2010 GARY LONG - 9/16/13 **GARY LONG - 9/16/13** Page 203 1 Q. Okay. opinion. We might think we made a good 1 2 A. You won't let me answer it. decision. Somebody else might think we made 2 3 Q. Well, first give me a "Yes" or "No." 3 a bad decision. But I think the Commission 4 A. I can't. has found over and over again that we're 4 5 O. Okay. making good decisions. But yes, that's 5 normal course. And that's okay. We're MS. FRIGNOCA: Then would you 6 6 instruct him? It's a yes or no -totally prepared for that, and we're totally 7 7 used to that." It goes on to the next page? MS. ROSS: We're trying to 8 8 figure out who is responsible for not just 9 9 Q. Yeah. the prudence of the construction but the "What is difficult for us because, you know, 10 A. 10 11 decision to go forward. And so I think this 11 we're really -- whatever we do affects question goes to that issue. So you need to customers. You know, we're a regulated 12 12 13 just answer whether it was the Commission --13 company. We don't get market prices. We excuse me -- the legislature's purview to don't get the profits that a nuclear plant 14 14 gets when the market prices go up, you know, 15 deal with the costs. 15 or any other plant if it's not regulated. So BY MS. FRIGNOCA: 16 16 we have to be very careful, first of all, 17 Q. And I'll ask the question. Let me rephrase 17 because we have that scrutiny; second of all, 18 the question. 18 19 As president and chief operating officer 19 you know, it affects customers. So we're of Public Service Company of New Hampshire, basically very conservative. We think we're 20 20 21 did you have an understanding that it was the 21 very innovative when it comes to things like legislature and not the PUC who was reviewing wood burning or, like, cocoa bean shell 22 22 whether the costs that you incurred in 23 23 burning or, you know, renewable power. But 24 relation to this project would be determined 24 financially, we have to be very, very **GARY LONG - 9/16/13** Page 202 **GARY LONG - 9/16/13** Page 204 conservative, and we have to be very sure of to be prudent? 1 1 2 A. I've said it many times. If it relates to 2 what we're doing, because if we're reckless the decision to move forward, no. That was 3 or if we're making bad decisions, it will 3 hurt and will come back on us." something the legislature would decide. 4 4 Management didn't decide. Since management Okay. Thank you. I wanted to you ask you 5 5 Q. didn't decide it, there's no prudency review about another area that you testified about a 6 6 to occur. What management managed was number of times today, where you were 7 7 compliance with the mandate, and that's what indicating that by 2008 -- let me know if I 8 8 the Commission can review; how well did we got the time frame right -- that you were 9 9 comply with that mandate. It's a higher halfway through the project, the six-year 10 10 authority. The state is a higher authority project. Is that --11 11 than me, the president and CEO, or any of my More or less, yes. 12 12 A. bosses. So the higher authority has told us Okay. And when you say that you were 13 13 "halfway through the project," what do you what to do. Our job was to do what they told 14 14 15 us to do. 15 mean by that? 16 Q. Okay. If you'd refer again to Exhibit 17, 16 A. As we talked about earlier, commitments for Attachment B, Page 39, the bottom. Can you contracts having -- doing detailed design, 17 17 read your testimony beginning with, "It is specifications, line up the work force, that 18 18 19 the normal standard..." 19 sort of thing. 20 A. "It is the normal standard for the Public 20 Q. But in 2008, had any major construction begun Utilities Commission to review our actions 21 on the project? 21

and our decisions, and it's done in

hindsight. So it certainly presents business

risks, as you might have a difference of

22

23

24

(51) Pages 201 - 204

been committed to.

Not that I recall. But the contracts had

22 A.

DEPOSITION OF: GARY LONG - September 16, 2013 DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Page 2050 CARY LONG - 9/16/13 **GARY LONG - 9/16/13** Page 207 conditions needed to be met before major 1 A. Yes, but not a data request that I responded 1 construction could start? to, nor was I the one presenting this 2 3 A. No. 3 information. 4 Q. Okay. And in that time line, do you see 4 Q. Are there any permits that you need to obtain where it says March of 2009, "DES issues the before major construction can start? 5 scrubber construction permit"? 6 A. Yes. 6 7 Q. And what permit would that be? 7 A. Yes. 8 A. Local construction permits with the City of 8 Q. So does that refresh your memory of the time Bow and air permits from the Department of frame that that permit would have been 9 9 Environmental Services. answered? 10 10 11 Q. And do you recall when that air permit from 11 A. Well, I accept that that's what it says. 12 the Department of Environmental Services was 12 Q. And if you go further into that document, would you please look at Pages 8 of 43 and 9 13 issued? 13 14 A. No. 14 of 43. 15 Q. Would it refresh your memory if I gave a date 15 (Witness reviews document.) of March 2009? 16 A. I have it. 16 17 A. Well, I would take your word for it. But Q. Have you located them? 17 that wasn't a process that I managed. Yes. 18 18 A. 19 Q. Okay. But you would agree that major 19 Q. Going to flip back first to Page 1 of 43, construction couldn't start until after the just to indicate a date so we can put this in 20 20 permit issued. 21 reference. This appears to be a slide show 21 put together by PSNH on March 31st, 2010. 22 A. I'm not sure if all aspects of the project 22 could not go forward. Maybe part -- some 23 23 Does that look correct? 24 aspects may not have. I'm not sure. There 24 A. Yes. GARY LONG - 9/16/13 Page 206 **GARY LONG - 9/16/13** Page 208 was site work going on at a early stage. 1 Q. And referring to Page 8 of 43, do you -- are 1 you looking at 2008 at this point? 2 (Long Deposition Exhibit 18 marked 2 for identification.) **3** A. If you want me to. 3 4 Q. Okay. And you can see the costs there of 4 Q. Showing you what's been marked as Deposition Exhibit 18. 5 24.8 million? 5 MS. FRIGNOCA: And for the Α. Yes. 6 6 record, it says Data Request Staff-01 on the 7 Q. At that point in time, did you do a review 7 that looked at the cost of going forward with top, dated December 30, 2011. Q-Staff-012, 8 Page 1 of 75. I did not copy all 75 pages. the project? Did you look at -- well, did 9 9 These are just excerpts from that request. you do a specific review? 10 10 BY MS. FRIGNOCA: 11 A. This is a budget. This is not a commitment. 11 This does not does reflect the work that had 12 Q. I'll give you a minute to look through it. 12 Just have a couple questions. been done up to 2008, 2009, '10, to line up 13 13

- If you go to Page 1, that says Page 1 on 14
- 15 the bottom of that exhibit, Page 1 of 2, do
- you see across the top a time line? 16
- (Witness reviews document.) 17
- 18 Q. On top of the page says "Public Service
- Company of New Hampshire, Merrimack Station, 19
- Clean Air Project, June 2011 Legislative 20
- 21 Update."
- 22 A. Yes.
- 23 Q. And this is a document prepared by Public
- Service Company of New Hampshire; correct? 24

- the work. This is the estimated carbon 14
- 15 expenditures. It may have included AFUDC
- during -- year by year. 16
- 17 O. Okay. So this report was done in 2010. But
- the numbers that are showed under Cost By 18
- 19 Year are not accurate?
- No. I'm saying those are -- I'm just making 20 A.
- a clarification. Those are expenditure 21
- dollars. Those are not commitment dollars. 22
- 23 We had discussion earlier about commitments
- that had been made with other lawyers asking 24

Pade 209 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 211 questions. 1 scenarios, what the impact on customers would 1 be. I think that's -- but that's a different (Discussion off the record between 2 2 3 counsel for CLF.) 3 analysis than the one I think you're talking BY MS. FRIGNOCA: about. 4 5 O. So what is the basis for your statement on O. Okay. 5 what is committed costs? 6 (Discussion off the record between 6 7 A. Costs that you expect to incur, work that you 7 counsel for CLF.) committed to have performed, but the work has BY MS. FRIGNOCA: 8 either not been performed yet or the bills Q. At any point over the six-year course of the 9 9 scrubber project, did you consider have not been paid for that work. 10 10 divestiture? 11 Q. So, looking at this chart of estimated costs, 11 12 how do you know how much of that money was 12 A. Outside of the scrubber project? Because the topic of divestiture comes up periodically --13 committed to the project? 13 The project team knew that, had that No, I'm talking about in relation to 14 A. 14 O. Merrimack. Did you consider divesting? 15 information. 15 16 Q. And did they report that back to you? Maybe ask to seek clarification on the 16 A. 17 A. I have seen it -- I had seen it, yes. question. I'm trying to understand the 17 18 O. Is the committed cost the cumulative cost question. 18 19 below? 19 Not as part of the scrubber project, no. 20 A. No. The cumulative cost is just simply The topic of divestiture comes up once in a 20 accumulation of the numbers above that you 21 21 while, and certainly we had discussions with referred to. The committed cost would follow external parties about that. 22 22 23 Q. 23 a different pattern. Okay. And when the topic came up of divesting over the course of the scrubber 24 Q. Okay. Can you tell me how long you're 24 GARY LONG - 9/16/13 Page 210 **GARY LONG - 9/16/13** Page 212 financing the scrubber for? project, was that in relation to Merrimack 1 1 Station? **2** A. The financing's complete. The scrubber's 2 complete. 3 A. I think it extends to our whole fleet. There 3 4 O. So there's no -was reference earlier today to a billion that 4 (Court Reporter interjects.) preceded the bill that ended up being enacted 5 5 Q. There's no loans or anything outstanding on in law, and we thought that that would have 6 6 the scrubber? or could have forced retirement or 7 7 8 A. Oh, loans. It's a -- there's not specific divestiture prematurely. But no, I think we 8 project financing. There's overall general view the project -- we view our fleet as 9 9 corporate financing. So, we have a series of being very much in customer's interests. 10 10 Okay. I'm not sure I quite followed all of different bonds, financial instruments that 11 O. 11 your answer. So I apologize. change from time to time. They have 12 12 When you had divestiture discussions, do different lengths and durations. 13 13 14 Q. And did you do any analysis of the energy you remember the years during which you had 14 15 prices over the life of those loans and 15 those discussions? And I'm putting it in bonds? relation to the years of the scrubber 16 16 17 A. I'm having difficulty making the connections. 17 project. During, say 2006, did you have discussions about divestiture of Merrimack Energy prices are independent of those bonds. 18 18 19 Q. Did you look at the viability of the plant 19 Station? running as a baseload plant over the life of 20 20 A. The answer in 2006 is no. **21** O. 2007? the loans? 21 22 A. I don't think so. 22 A. We haven't looked at the plant, per se. As 23 again discussed earlier, we did some 23 O. 2008? financial estimates of the different 24 24 A. That might have been the time when the

Pade 213 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 215 legislature and some of the opponents might 1 MR. FABISH: Let's go on the 1 have brought up the subject. So there could 2 2 record. have been some external discussions around 3 3 **EXAMINATION** BY MR. FABISH: that. 4 5 O. Was it something that you considered as a MR. FABISH: Mr. Long, I'm 5 management option? 6 6 Zack Fabish. I'm here from the Sierra Club. 7 A. Every view that we've had of the plants, we I have hopefully a small handful of questions 7 viewed them to be valuable to customers. So, that are follow-up from some things that 8 8 no, we never went down that path. people were talking about earlier and then a 9 9 slightly larger handful of questions of my Okay. So you never went down that path in 10 O. 10 '09. Just to save us time, did you at any own. So, two handsful-ish of questions that 11 11 point between -- I'm sorry. In '08. Did you hopefully won't take too long. But I 12 12 at any point in '08 and completion of the appreciate your time and -- yeah, so let's 13 13 14 scrubber consider divestiture of Merrimack get into it. 14 I think earlier today, do you recall a 15 Station? 15 16 A. We never had any indication that it should be question Mr. Patch asked, essentially asking 16 considered. We continued to see value. Even you what hypothetically you would have done 17 17 today, we continue to see value in our fleet, if the, I believe the acronym was the RaCC, 18 18 19 in our units, and from a customer risk 19 had not approved the \$457 million? Does that sound --20 perspective. 20 21 Q. And based on what analysis do you rely to see 21 A. Yeah, I remember something like that. -- to continue to see the value in Merrimack Okay. Great. Did you -- sort of flipping 22 22 the question a little bit, not asking you a 23 Station? 23 hypothetical. Going into the presentation 24 A. It's not an analysis. It's all of the risks 24 GARY LONG - 9/16/13 Page 214 **GARY LONG - 9/16/13** Page 216 that New England faces today, faced back for the RaCC, had you planned for a 1 1 then. It's the economic analysis which contingency in which the RaCC did not approve 2 2 showed it to be in customers' interest. It's 3 the -- what you were asking? 3 A. I'm not sure if I caught your question. What our knowledge of a -- that there's a very 4 5 volatile, risky market out there. It's, you 5 would I have done if the RaCC did not -know, any number of factors. No. No. Sort of like, you know, rewind the 6 6 tape to before you gave the presentation. 7 Q. So I take it, then, if I ask you if you 7 considered retiring the plant during that At that point in time, were you 8 8 same time frame, your answer would be no? thinking -- essentially, you know, did you 9 have the thought process associated with the 10 A. No, did not consider retiring. We have 10 retired plants in the past. But there's no idea of what do I do if this doesn't get 11 11 indication that that would be in customers' 12 approved? 12 interest. 13 A. No, I really worked through that scenario. 13 You know, as I stated repeatedly, the way --14 Q. That it would be in customers' interest to 14 15 retire Merrimack. 15 we take the law very seriously. And, you 16 A. Yes. know, I call us a "compliance company." So 16 17 Q. I am done. Thank you very much for your we were -- management had the obligation to 17 comply with the law, and I had -- I and my 18 patience. 18 19 A. Thank you. team had the obligation to follow the 19 Northeast Utilities process for seeking 20 MS. ROSS: All right. It is 20 funding. And as long as we did our job, I 21 ten after three. I would suggest we take a 21 break now and then maybe come back at 3:30. didn't consider a scenario where it wouldn't 22 22 23 And we have one last questioner, Zack Fabish. 23 be approved. (Brief recess taken.) 24 Q. So you did not plan for --24

Page 250 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 219 (Court Reporter interjects.) 1 MR. FABISH: You, too, as 2 Q. Sorry. I had my hands... well. Bob. 2 So you did not consider that scenario. 3 BY MR. FABISH: 4 A. No, and it didn't occur. 4 Q. So, just thinking about environmental 5 O. Okay. Would it have been possible for the compliance generally, does PSNH forecast 5 RaCC to reject the proposal? environmental compliance costs? 6 6 7 A. No. I mean, I think the role was one of: A. No requirements. I would say, obviously, as 7 part of our budgeting process we develop what Are we proceeding in compliance with the law? 8 8 Are we doing it in a well-managed way? You we call our operational plans. It's any 9 9 know, whether it's the RaCC or -- had known rules we have to comply with are 10 10 certainly put within our budgets. 11 questions about the board of trustees or 11 And so could you tell me what you mean by 12 myself, all of us were subject to the same 12 O. law. And it was the higher authority. So I "known rule"? 13 13 14 believe that that whole process was well 14 A. Rules that exist, that are in place, that are aware of what the state had directed. 15 15 enforceable. So a draft rule, would that fall into that **16** Q. So in some ways it sounds like a pretty 16 O. low-pressure presentation. 17 17 category? Well, I -- no, I don't know if I'd go that Not necessarily. Oftentimes, draft rules 18 A. 18 A. 19 far, because we would be challenged to have 19 have a long ways to go and oftentimes don't considered all aspects of construction and ever become rules. So that wouldn't be --20 20 21 compliance. We would have -- you had to 21 you know, again, it's just a draft. It's present -- obviously, you have to present just a thought. It would have a long way to 22 22 well to -- if we were not able to explain or 23 23 go. so... inform that committee, I'm sure they would 24 24 O. So in that case, draft rules are not GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 218 Page 220 have sent us back to do more work. something that's considered as part of this 1 1 Okay. So you testified earlier that the environmental compliance cost forecast then. 2 O. 2 scrubber project -- I think this was in the з А. It's certainly followed. It's certainly 3 context of testimony you gave concerning the monitored. But it's a draft. So it would be 4 4 difficulty of pricing it -- that it was not a 5 speculative to -- it be speculative. So, you 5 sulfur-reduction scrubber, but it was a know, it would be included perhaps as a risk 6 6 mercury-reduction scrubber. Is that an factor or something to learn more about. But 7 7 when setting a budget, we go with what's accurate summary of what you said? 8 8 9 A. Yeah, I think it's close. It was --9 obviously, it was intended to comply with the 10 Q. So when you say "risk factor," does that go 10 law regarding mercury reductions. I think 11 into the budget? 11 the thing that excited our environmental No. 12 12 A. regulators, often referred to as a "two-fer," 13 Q. No? Okay. 13 meaning that in the process of reducing So, things that you do regarding the 14 14 15 mercury, you would also substantially reduce 15 known, existing rules, who at PSNH does that, sulfur. And so that was definitely viewed as that forecasting, or does that pricing of 16 16 a positive amongst the parties who supported 17 compliance? 17 Well, the area that's impacted. If it's a --18 18 A.

- it, which obviously included CLF, Sierra Club 19 and others -- although they wanted it done 20 sooner, I should clarify.
- 21 Q. So a series of questions here that I think
- I'm going to start off kind of broad, but 22
- 23 they will be getting to a focus. So I hope
- you'll just bear with me. 24

- - if it happens to be a rule, for instance, on
- PCBs on transformers, if there's some sort of 20
- new rule that requires us to replace those, 21
- it would be what I referred to earlier as the 22
- 23 energy delivery area. If it's in the
- generation area, then it would be something 24

Page 22 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 223 that would be tracked and monitored by our 1 what's the status of that clean-up activity 1 generation management. and progress. So that would be an example of 2 2 a periodic report that the environmental 3 Q. Okay. And is this a formal process or an 3 informal process? group of Northeast Utilities would issue. 4 4 5 A. I should add, also, there's an environmental But that's not the only communications. 5 Obviously, they would work with the Companies group within Northeast Utilities that 6 6 monitors environmental regulations and that they're servicing. So they're part of a 7 7 compliance. So they would also tend to service company, Northeast Utilities Service 8 8 monitor developing rules. Company. So they're servicing all of the 9 9 And your question was? companies, and PSNH being one of those. So 10 10 they would actively work with that group. If 11 Q. Now I have to remember my question. So let 11 it's a spill clean-up, they'll issue reports 12 me go back to what you just said before I get 12 back to my other question. 13 13 on the incident and the resolution of that So there's a group at Northeast spill and clean-up, for instance. So they do 14 14 issue reports. We have daily 15 Utilities that does this. And is that 15 notifications -- we call them "environmental 16 information prepared on a regular time period 16 and shared with subsidiaries like PSNH or -issues" -- that are shared very widely. 17 17 how does that information get from Northeast Does PSNH ever request specific pieces of 18 18 O. 19 Utilities to PSNH? 19 information from this group? 20 A. As colleagues, they may participate in We certainly can request services of 20 A. 21 meetings, discussions. I think the 21 contractors to help us with a clean-up. That's not a -- they have their own staff in environmental group issues their own reports 22 22 that may or may not include aspects of PSNH. New Hampshire, that's assigned to New 23 23 It's shared. It's something that's shared 24 24 Hampshire, to help the operational people **GARY LONG - 9/16/13** Page 222 **GARY LONG - 9/16/13** Page 224 with environmental matters there. If they internally. 1 1 2 Q. Okay. So then, this gets to the question 2 have expertise in that group, our generation that I asked but we both forgot -- but I group can ask them for services, for help. 3 3 written down, so we're good -- is this a Sure. But looking more specifically than the 4 O. 4 formal process or an informal process? And general sort of services that are provided, 5 5 maybe before you answer that question, I'll does PSNH ever ask this group for information 6 6 unpack it just a little bit. pertinent to environmental compliance cost 7 7 So, essentially what I'm asking is, you forecasting? 8 8 know, does this happen -- like is it once a Again, you know, I'm trying to answer the 9 9 quarter or once every six months? Does the question in the context that it -- we have 10 10 environmental compliance group -- do they different parts of our company. 11 11 say, "Here's our report. This is what we 12 Q. Sure. 12 think is coming. Here's what everyone should 13 A. And, you know, of course, the subject today 13 be thinking about in terms of forecasting is our generation group. So our generation 14 14 15 compliance costs"? Or is it a much more -- a 15 group has their own scientists and compliance process where folks are participating in personnel because PSNH's -- I'll say this 16 16 meetings, and it's more sort of ad hoc? 17 with exception -- it's the only company --17 It's a combination of the both, I would say. (Court Reporter interjects.) 18 A. 18 I'll give you an example. 19 A. -- the only company within Northeast 19 20 There are manufactured gas clean-up Utilities that has generation, and therefore, 20 sites around Northeast Utilities. And that 21 that's where a lot of the expertise lies. 21 22 group will manage the clean-up of those There's some solar generation in 22 23 sites, and they'll issue a report -- I 23 Massachusetts, but a different set of believe it could be every quarter or so -- on environmental regulations on that. 24 24

DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Pade 225 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 227 1 Q. Okay. And so earlier you said that when 1 you know, there was a testing of the doing environmental compliance cost sensitivity of new environmental rules, I 2 3 forecasting, draft rules aren't regarded. 3 think in the area of water. 4 A. No, I --4 Q. And that was, I think, what? Exhibit 5, 5 O. Okay. page... that's right, 'cause there's, like, 5 6 A. They're highly studied. They're monitored. two different sets of numbers on these pages. 6 But what I was trying to indicate earlier, Page 13 of 50 I think was the one that was 7 7 they are a work-in-progress, so to say. So identified earlier. 8 8 they're speculative as to how they may end up 9 A. Yes. and when. 10 O. So, a couple of questions about this. 10 First of all, how was this \$30 million 11 Q. And so, when looking and doing the highly 11 12 regarded and the monitoring of draft rules figure arrived at? 12 and forthcoming rules, is that done by folks 13 A. That's not my number. I didn't derive the 13 14 internal to PSNH and/or Northeast Utilities, number. I can't tell you. 14 Okay. So that's speculating. You have no 15 or outside consultants? 15 Q. MR. NEEDLEMAN: I want to 16 16 object at this point. I don't see how any of 17 A. That's not my number. This is an analysis 17 this line of questioning is relevant. And that was performed by others. 18 18 19 it's certainly not information that's 19 Q. Sure. So why were water compliance -- well, uniquely within Gary's purview. This is all let me back up. 20 20 stuff that could have been asked in another So, looking at this page under the 21 21 Unlikely/Low case legend, it says cooling context. 22 22 tower addition, dollar sign, 30M -- 30 23 MR. FABISH: So where I'm 23 million. This was included in a presentation 24 going with all of this is, I'm trying to get 24 Page 226 GARY LONG - 9/16/13 **GARY LONG - 9/16/13** Page 228 a picture of what was being evaluated during concerning the Clean Air Project for what 1 1 the time frame when the scrubber project was 2 2 reason? under consideration in the early stages of 3 A. Well, specifically, this analysis is about 3 Merrimack Station, and just as another putting it out to bid and securing contracts 4 4 and permits, and what sort of environmental financial consideration in the scenarios that 5 5 were considered, as a separate -- obviously a compliance cost issues were in front of the 6 6 company and how they were being regarded and separate requirement from the state's mandate 7 7 on the scrubber and, as you indicated how they were being evaluated. 8 8 MS. ROSS: And I would earlier, you know, not yet a requirement. 9 9 So this presentation, just so I understand, encourage you to get to those questions. 10 Q. 10 under the financial scenarios, different MR. FABISH: Yeah, I'm just 11 11 costs posed to Merrimack were considered as 12 about there. 12 MS. ROSS: But I will allow 13 part of this analysis? 13 that general questioning for background 14 A. Yes. 14 15 purposes. **15** Q. Is there a reason -- I assume there is. BY MR. FABISH: Is there a reason why it was just 16 16 17 Q. Well, let's go right to it. 17 Merrimack and not PSNH generally? In 2007, what sort of potential Because that was where the scrubber was being 18 18 A.

Merrimack? 21 22 A. Well, as I indicated earlier this morning, in 23 some of the sensitivity analyses that were presented to the RaCC Committee, there was --24

environmental compliance costs, aside from

the Scrubber Law, was PSNH considering for

installed. 19 20 Q. Sure. But I think -- and maybe because I'm not a finance guy at all -- earlier you 21 were -- in response to a question about, and 22 23 I'm probably going to garble it, but in response to the financing of the scrubber 24

19

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- 1 project, you were talking about bonds. And I
- think perhaps I misinterpreted this. But my
- 3 understanding of what you were saying was
- that the bonds were company-wide. Is that
- 5 correct? That essentially the financing for
- 6 projects comes from --
- 7 A. General financing, yes. What I indicated was
- this was not specific project financing. It
- 9 was just part of the overall capital
- structure of PSNH.
- 11 Q. Hmm-hmm. Okay. So the overall capital
- structure of PSNH is not something that goes
- into this particular analysis here in
- Exhibit 5, on Page 13 of 50.
- 15 A. This analysis, again, I didn't do it, but I
- would assume includes levels of investment
- and then a return on investment. And I would
- suspect that the return on investment is our
- average cost of -- and our debt structure,
- which is for the whole company.
- 21 Q. Okay. So, in regarding potential
- environmental compliance costs, does PSNH
- look at what's going on with the permitting
- in other similar industries?

- 1 Q. And that's the system that it's had -- at
- 2 least had in the 2000s, right, and continues
- 3 to have today?
- 4 A. Yes.

8

- 5 Q. Are you familiar with the facility called
- 6 Brayton Point?
- 7 A. I wouldn't say I'm familiar with it. I know
 - it exists. I know it's in Massachusetts.
- 9 Q. Okay. That's probably good enough.
- 10 If I said the word "NPDES," does that
- have meaning for you? N-P-D-E-S.
- 12 A. It's a -- I know it's a permit.
- 13 Q. So would you understand that to be an acronym
- for National Pollutant Discharge Elimination
- 15 System?
- 16 A. Yes.
- 17 Q. Okay. Merrimack has a NPDES permit; correct?
- 18 A. Yes.
- 19 Q. Is it your understanding that NPDES permits,
- in part, govern cooling water --
- 21 A. Yes.
- 22 Q. -- for facilities such as Merrimack?
- 23 A. Yes.
- 24 Q. Are you familiar with the NPDES permit for

GARY LONG - 9/16/13 Page 230 GARY LONG - 9/16/13 Page 232

- 1 A. If that industry is electric generation or,
- you know, boilers, industrial boilers, that
- would be a -- the answer would be yes. But,
- you know, it has -- it's much related -- I
- 5 want to say, site-specific. So what happens
- 6 in one area of the country or in one type of
- 7 power plant may not be applicable to our
- 8 circumstances.
- 9 Q. Sure.
- 10 A. I would say the permits are very specific to
- the plant, the plants that we operate.
- 12 Q. So, again, keying a little bit off of this
- exhibit here, Merrimack is a thing that burns
- coal, has a cooling water system; right?
- 15 A. Yes.
- (Court Reporter interjects.)
- 17 Q. And are you aware of what type of cooling
- water system Merrimack has?
- 19 A. Yes.
- 20 Q. I guess I'll follow up. What would that be?
- 21 A. The cooling water is taken from the Merrimack
- River, condenses to steam, put into a pond
- that has spray modules, and then eventually
- back into the river.

- 1 Brayton Point?
- 2 A. No.
- 3 Q. Any familiarity at all?
- 4 A. No.
- 5 Q. No? Never heard of it before?
- 6 A. Heard of it?
- **7** Q. That's the low threshold I'm establishing.
- 8 We'll start from there and then build.
- **9** A. I mean, environmental permitting is not my
- expertise. Not something I do at PSNH. It's
- something our generation team does. So, no,
- I'm not familiar with Brayton Point's
- permits. I am not.
- 14 Q. Okay. So if I told you that Brayton Point's
- NPDES permit required it to essentially
- convert from open-cycle to closed-cycle
- cooling, is that a piece of information that
- would be surprising to you?
- 19 A. No.
- 20 Q. No. Okay. Were you aware that this permit
 - was issued -- are you aware of when this
- permit was issued?
- 23 A. No.
- 24 Q. If I said it was issued in the early part of

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1 2000s, would that be a surprise to you? 1 Q. And just to close the loop on this line of

- 2 A. I would take your word for it. It's not
- 3 something I know directly myself.
- 4 Q. Sure. In thinking about the financing, the
- 5 financial scenarios for the scrubber project,
- 6 for the Clean Air Project, as part of the
- 7 presentation to the RaCC, or as part of the
- 8 general decision-making concerning the
- 9 project, did the NPDES permit for Brayton
- Point enter into that analysis at all?
- 11 A. Not in this presentation to the RaCC.
- 12 Q. Okay. Was it something that was considered
- as part of the analysis, to your knowledge?
- 14 A. Again, as I stated earlier, these permits are
- very site-specific. And so I know I
- personally did not regard it as relevant to
- the permits at Merrimack Station. Whether
- others were aware of it and to what detail, I
- don't know.
- 20 Q. So you personally -- okay.
- So the scrubber was designed to achieve
- compliance with the mercury reduction law.
- 23 (Court Reporter interjects.)
- 24 A. Yes.

- 2 questioning, and then I'll move on, those
- 3 requirements were mercury reduction with --
- 4 A. Yeah, I'm thinking about mercury reductions
- 5 particularly.
- 6 Q. All right.
- 7 A. You know -- well, okay, I'll stop there.
- **8** Q. So if I understand some of the materials
- 9 correctly, one of the things that was
- different about the scrubber project at
- Merrimack is that the two boilers are
- different sizes; is that correct?
- 13 A. Yes, and a single scrubber would be used for
- both units.
- 15 Q. Is there something called "bypass mode"?
- **16** A. I recall something along those lines.
- 17 Q. Could you explain, to your knowledge, what
- bypass mode is?
- 19 A. Be a layman's explanation.
- 20 Q. That's good enough for me.
- 21 A. That you have to bypass parts of equipment,
- perhaps the scrubber, at some time or
- 23 another.
- 24 Q. Okay. And sometime or another, the level of

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- 1 Q. And that, therefore, was designed to achieve
- an 80 percent or better reduction in mercury
- over the course of -- on an annualized basis.
- 4 A. I'm going to kind of say a qualified yes,
- 5 because the consideration was for our whole
- 6 fleet --
- 7 (Court Reporter interjects.)
- 8 A. That included our entire fleet, which
- 9 included Schiller station, coal plants. So
- 10 80, 85. It's -- I don't -- you know, I'll
- take your word for it. But it's in that
- vicinity. And then also goals for reduction
- of sulfur dioxide.
- 14 Q. So was the scrubber designed to hit a certain
- SO2 emission rate?
- 16 A. I think we had an objective in mind to reduce
- it. I can't remember if it manifested itself
- in a permit or not.
- 19 Q. But did that -- you said you had a goal. Did
- this goal factor into the bidding process for
- the requirements for scrubber construction?
- 22 A. Yes. The specifications that I referred to
- earlier were specifications for vendors to
- meet the requirements of the law.

- detail as to when that option would be used,
- would be the best that's consistent with your
- 3 knowledge right now.
- 4 A. That's about as far as I can go with it. You
- 5 would have to talk with the generation staff
- to give you more information on what the
- 7 equipment can do and why.
- 8 Q. Okay. If I say the words "National Ambient
- 9 Air Quality Standard," does that mean
- anything to you?
- 11 A. I'm sure I've heard of it before. It doesn't
- relate to the work that I do specifically.
- 13 Q. Sure. If I say the acronym, "NAAQS,"
- N-A-A-Q-S, does that trigger anything?
- 15 A. Not much.
- 16 Q. Not much. Are you aware there is a NAAQS for
- sulfur dioxide?
- 18 A. A NAAQS?
- 19 Q. A National Ambient Air Quality Standard?
- 20 A. I wouldn't be at all surprised.
- 21 Q. All right. So, aside from the bid in
- Exhibit 5, financial scenarios talking about
- the cooling tower addition, \$30 million
- during 2007 in connection with the scrubber

Page 237 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 239 project, were potential cooling tower 1 A. Probably a better way to think of it is we 1 requirements for Merrimack considered as part believe we then -- part of the scrubber 2 2 3 of the analysis of the scrubber project? 3 project would be in full compliance with all 4 A. I think this analysis where you see the environmental regulations. 4 financial aspects of it show up, our O. But if I were to ask you if this specific 5 5 generation group is well versed in that thing was considered, whether or not the need 6 6 subject matter, and I'm sure they would have to comply with hourly sulfur dioxide emission 7 7 been familiar with all aspects of the status limits was considered as part of the scrubber 8 8 of those requirements. project analysis --9 10 Q. But to your knowledge, though --I guess, again, you know, I'm not the expert 10 A. in all the detail of environmental 11 A. Well, to my knowledge, it was a closely 11 permitting. But obviously we felt very 12 monitored subject by our generation group. 12 13 Q. And was it considered as part of the analysis comfortable that were complying with all law, 13 of the scrubber project? with our permits and with the requirements. 14 14 15 A. Well, the analysis that you see, it was If you're suggesting there might be different 15 considered in some of the risk profiles, the ones in the future, then that would be 16 16 scenarios that were analyzed. 17 17 speculative and --**18** O. Okay. Was the sulfur dioxide national 18 O. I'm not. 19 ambient air quality standard considered 19 A. -- not part of compliance. You know, we during the analysis of the scrubber project understood and believed that we, with the 20 20 in the 2007 to 2009 time frame? 21 21 scrubber, would be in compliance with state 22 A. I would say those things are constantly law and all other regulations. 22 monitored and analyzed by our generation 23 Q. So I guess, setting aside -- well, if I were 23 to rephrase that question that I just asked, 24 group, certainly for ongoing compliance, and 24 GARY LONG - 9/16/13 Page 238 **GARY LONG - 9/16/13** Page 240 then, should they change, what does that mean I would ask it, to your knowledge, and then 1 1 ask you to exclude the caveat that -- yeah, I 2 to us and our customers. 2 MS. CORKERY: I'm sorry. I know this is getting complicated. Let me 3 3 just try this. Strike all that and let me can't hear. 4 4 (Record read back.) 5 try this again. 5 So the next question I'm going to ask is BY MR. FABISH: 6 6 Q. During the scrubber project -- during as to your knowledge. And so I understand 7 analysis of the scrubber project, say in the that you've already answered that you have 8 8 2007 to 2009 time frame, was a potential sort of a high-level picture and assumption 9 9 requirement for hourly emission limits of about what considerations were made by other 10 10 sulfur dioxide considered? folks involved in this analysis. But to your 11 11 Okay. Just for clarification. The knowledge specifically -- and, you know, it's 12 A. 12 fine if the answer is no -- to your knowledge announcement of the scrubber project -- I 13 13 mean, it was a law, not necessarily an specifically, was the need for hourly -- or 14 14 15 announcement. But, you know, again, same 15 for compliance with hourly sulfur dioxide sort of answer. Did our generation group emission limits analyzed as part of the 16 16 17

scrubber? monitor such stuff? Yes, they did. 17 18 Q. And was it considered as part of the analysis Yeah, you know, I was aware that that was a 18 A. of the scrubber project? topic of discussion in environmental 19 20 A. I think the analysis speaks for itself as to regulatory, you know, places. But I was also 20 of the full understanding that we were in what's in there. 21 So if I said -- is it a fair summary of your compliance with all law and our permits. 22 Q. 22 23 testimony just now to say no, with 23 Q. If Merrimack has to install a closed-cycle qualifications? cooling system, such as cooling towers, what 24 24

19

DE 11-250 PUBLIC SERVICE COMPANY OF N.H. INVESTIGATION OF SCRUBBER COSTS AND COST Page 24 GARY LONG - 9/16/13 GARY LONG - 9/16/13 Page 243 would that do to the cost of generating So a moment ago you said "beneficial," and I 1 electricity at Merrimack? think you said "detrimental" with regard to 2 2 3 A. I don't know. And, you know, it's obviously 3 what would happen if costs went up. Could not the circumstance today, and could be far you explain in a little bit more detail what 4 4 you mean? enough in the distance future, if ever. Lots 5 5 6 of things will change between now and then. 6 A. I think you were asking me a hypothetical, So it's really not something, you know, I generic question. And, you know, if costs go 7 7 could lend an opinion on at this point. up, it's not something, you know, I think as 8 8 Q. So, open universe of possibilities as to what a business we like to see. But there are --9 could happen if Merrimack had to install at the same time, people want to be provided 10 10 11 cooling towers. 11 with electricity and reliability and clean You know, the question -- the statement was air. And all those things do cost. So 12 A. 12 13 "if." And, you know, it's a speculative 13 it's -- someone used the word "balance" thing. There are many variables in our earlier today. So it's balance of all of 14 14 business. That's one. You know, your own 15 15 those considerations: Reliability, organization has a "Beyond Natural Gas" 16 reasonable costs, environmental stewardship, 16 campaign going on that is challenging compliance, diversity of fuel, you know, 17 17 fracting and challenging the increased use of serving customers overall, economy, jobs. I 18 18 19 natural gas. That could be far more 19 mean, there's a whole lot of factors that go significant to the energy prices in New 20 20 into our business. 21 England than a cooling tower, if they were 21 Q. Sure. So I think a moment or two ago -- and ever even required. I apologize. It's the end of the afternoon, 22 22 so I'm not as sharp as I could be otherwise. 23 So my point is, as we talked about 23 Just want to throw that out there. 24 earlier, fuel prices could be far more 24 GARY LONG - 9/16/13 Page 242 **GARY LONG - 9/16/13** Page 244 significant than other things. It's a very So you said that because there's so many 1 1 significant factor. And your organization's other factors, it would be speculative to 2 2 actions, if you're successful, will certainly opine as to what might happen if a 3 3 requirement for the construction of cooling result in higher prices. 4 4 5 Q. How about if I ask you the same question, but 5 towers at Merrimack Station were imposed. Is I say "all else remaining equal"? that a fair recollection of what you said? 6 6 7 A. I can't accept an "all else remaining equal" 7 A. No. I think it's fair to say that if cooling towers were mandated, in some way required, because that's --8 **9** Q. Even as a thought experiment. that it would add to the cost. But if that 9 10 A. Well, because it doesn't exist today. were to occur, it seems to be far off in the 10 11 There's no requirement today for cooling distance. And what I'm trying to indicate is 11 towers. So you're saying -- you know, it that a lot of things will change between now 12 12 could be any number of things. If costs go 13 and then. Again, if I believe your work, 13 up, you know, is that difficult? Yes, it is. your organization and TransCanada, we'll have 14 14 15 If costs go down, that's more beneficial. So 15 much higher natural gas prices by the time we it's a pure hypothetical. You know, yes, if get there, and its economic feasibility will 16 16 costs go up, it's not something we look 17 be looked at at that time. 17

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forward to. If market prices go up, that

TransCanada is forecasting, what your

Station increase rather radically.

changes the relative standing of the plant,

for sure. If gas prices go up, which is what

organization seems to be wanting to achieve,

that will make the economics of Merrimack

18 Q.

19

20

21

22

23

24

(603) 622-0068 shortrptr@comcast.net

Okay. So, aside from, you know, the

quite a bit, that cost associated with a

Exhibit 5 thing that we've been talking about

requirement to construct cooling towers at

Merrimack Station, that was not something

that was considered as part of the analysis of the scrubber project in the 2007 to 2009

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1	time frame.	1	ERRATA SHEET	
2 A. 3 4 5 6 7 8 Q.	that was analyzed in scenarios as part of trying to understand the impact of costs. I don't know what the legislature considered when they mandated it and how they might have considered other things, but Sure. No, and just to clarify, when I'm	2 3 4 5 6 7 8	I, GARY LONG, do hereby certif have read the foregoing transcript testimony and further certify that transcript (with/without) suggested corrections is a true and accurate of said testimony (with the exceptithe following corrections): Page & Line No. Correction	of my said in record in of
9	asking a question, I'm not asking you and			
10	not to speculate about what the	10		
11	legislature and its various members might	11		
12	have been thinking, 'cause who knows what	12		
13	that was.	13		
14	Let me just take another moment, but I	14		
15	think the payoff will be pretty good.	15		
16	(Pause in proceedings)	16		
17 Q.	I'm finished.	17	GARY LONG	
18 A.	Thank you. MS POSS: Thank you. Thank	18 19	Subganihod and server to before the	d £
19	MS. ROSS: Thank you. Thank	20	Subscribed and sworn to before me this	day or
20 21	you all. (Deposition concluded at 4:21 p.m.)	21	, 20	
22	(Deposition concluded at 4.21 p.iii.)	22	Notary Publi	Lc
23		23	My Commission Expires:	
24		24	my Commission Expires:	
2-1		2.1		
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1	CERTIFICATE			
2	I, Susan J. Robidas, a Licensed			
3	Shorthand Court Reporter and Notary Public			
4	of the State of New Hampshire, do hereby			
5	certify that the foregoing is a true and			
6	accurate transcript of my stenographic			
7	notes of the deposition of GARY LONG, who			
8	was duly sworn, taken at the place and on			
9	the date hereinbefore set forth, to the			
10	best of my skill and ability under the			
11	conditions present at the time.			
12	I further certify that I am neither			
13	attorney or counsel for, nor related to or			
14	employed by any of the parties to the			
15	action in which this deposition was taken;			
16	and further, that I am not a relative or			
17	employee of any attorney or counsel			
18	employed in this case, nor am I financially			
19	interested in this action.			
20				
21	Susan J. Robidas, LCR/RPR			
22	N.H. LCR No. 44 (RSA 310-A:173)			
23				
24				

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