# In The Matter Of:

DE 10-261 PUBLIC SERVICE COMPANY OF N.H. Least Cost Integrated Resource Plan

> DAY 2 - AFTERNOON SESSION ONLY April 5, 2012

SUSAN J. ROBIDAS, LCR
(603) 622-0068 shortrptr@comcast.net



Original File 040512DE10261 Day 2 PM.txt

Min-U-Script® with Word Index

					0	Page 3
	STATE OF NEW HAMPSHIRE		1		INDEX	, 490
	PUBLIC UTILITIES COMMISSION		2			
			3		WITNESS: KENNETH TRAUM	
						PAGE
	New Hampshire AFTERNOON SESSION OF	NLY	5			7
RE:	DE 10-261 PUBLIC SERVICE COMPANY OF	3	6			
	Resource Plan	1	7			32
					_	37
PRESENT:	Chairman Amy L. Ignatius, Presiding Commissioner Michael D. Harrington					38
	Commissioner Robert R. Scott		10	Redirect Ex	_	
	Sandy Deno, Clerk		11			-
			12			
APPEARANC			13		WITNESS: GEORGE MCCLUSKE	Y
Hampshire				EXAMINATION		PAGE
	Geraid M. Eaton, Esq. Sarah B. Knowlton, Esq.					51
	Reptg. TransCanada:					
						65
					_	68
					_	70
	Arthur B. Cunningham, Esq.				-	70
COURT REP	ORTER: SUSAN J. ROBIDAS, N.H. LCR NO.	. 44		Incerrogace		83, 97
	·				_	88
					_	94
{DE 10	-261}[AFTERNOON ONLY]{04-05-12/DAY 2}				CHISI. SCOLL	94
			21			
		Pane 2				Page 4
A DDEAD AND		ago z	1		<b>P Y U T D T T</b> C	r ago -
AFFEARANC					EARIBIIS	
	N. Jonathan Peress, Esq.			EXHIBITS		PAGE
	Reptg. Office of Energy & Planning: Eric Steltzer				9/8/11 REDACTED Joint	54
	Joanne Morin, Director		_	20011	Testimony of George McClus	
	Reptg. Residential Ratepayers:			Staff 2		nt 54
	Kenneth E. Traum			Scall 2	Testimony of George McClus	skey
				Staff 3		58
	Alexander F. Speidel, Esq.	ion		-Juli J	Data Request Q-Staff-03A,	55
	In additional, Biscoric Divis				, ***	
			18			
			19			
			20			
			21			
			22			
	CONCORD, RE:  PRESENT:  APPEARANC  Hampshire  COURT REP	STATE OF NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION  April 5, 2012 - 1:43 P.M. DAY 2 Concord, New Hampshire AFTERNOON SESSION OF RE:  DE 10-261 PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE: Least Cost Integrated Resource Plan  PRESENT: Chairman Amy L. Ignatius, Presiding Commissioner Michael D. Harrington Commissioner Robert R. Scott Sandy Deno, Clerk  APPEARANCES: Reptg. Public Service Co. of New Gerald M. Eaton, Esq. Sarah B. Knowlton, Esq. Reptg. TransCanada: Douglas L. Patch, Esq. (Orr & Reno) Reptg. Granite Ridge Energy: Howard M. Moffett, Esq. (Orr & Reno) Reptg. N.H. Sierra Club: Arthur B. Cunningham, Esq.  COURT REPORTER: SUSAN J. ROBIDAS, N.H. LCR NO.  {DE 10-261}[AFTERNOON ONLY]{04-05-12/DAY 2}  APPEARANCES: (C o n t i n u e d)  Reptg. Conservation Law Foundation: N. Jonathan Peress, Esq. Reptg. Office of Energy & Planning: Eric Steltzer Joanne Morin, Director Reptg. Residential Ratepayers: Rorie E. P. Hollenberg, Esq. Kenneth E. Traum Office of Consumer Advocate Reptg. PUC Staff: Alexander F. Speidel, Esq.	STATE OF NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION  April 5, 2012 - 1:43 P.M. DAY 2 Concord, New Hampshire AFTERNOON SESSION ONLY  RE:  DE 10-261 PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE: Least Cost Integrated Resource Plan  PRESENT: Chairman Amy L. Ignatius, Presiding Commissioner Michael D. Harrington Commissioner Michael D. Harrington Commissioner Robert R. Scott Sandy Deno, Clerk  APPEARANCES:  Reptg. Public Service Co. of New Gerald M. Eaton, Esq. Sarah B. Knowlton, Esq. Reptg. Granite Ridge Energy: Howard M. Moffett, Esq. (Orr & Reno) Reptg. N.H. Sierra Club: Arthur B. Cunningham, Esq.  COURT REPORTER: SUSAN J. ROBIDAS, N.H. LCR NO. 44  {DE 10-261}[AFTERNOON ONLY]{04-05-12/DAY 2}  Page 2  APPEARANCES: (C o n t i n u e d)  Reptg. Conservation Law Foundation: N. Jonathan Peress, Esq.  Reptg. Office of Energy & Planning: Eric Steltzer Joanne Morin, Director  Reptg. Residential Ratepayers: Rorie E. P. Hollenberg, Esq. Kenneth E. Traum Office of Consumer Advocate Reptg. PUC Staff:	STATE OF NEW HAMPSHIRE  PUBLIC UTILITIES COMMISSION  April 5, 2012 - 1:43 P.M. DAY 2 Concord, New Hampshire AFTERNOON SESSION ONLY  RE:  DE 10-261 PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE: Least Cost Integrated Resource Plan  PRESENT: Chairman Amy L. Ignatius, Presiding Commissioner Michael D. Harrington Commissioner Robert R. Scott  Sandy Deno, Clerk  APPEARANCES:  Reptg. Public Service Co. of New Gerald M. Eaton, Esq. Sarah B. Knowlton, Esq. Reptg. TransCanada: Douglas L. Patch, Esq. (Orr & Reno) Reptg. Granite Ridge Energy: Howard M. Moffett, Esq. (Orr & Reno) Reptg. N.H. Sierra Club: Arthur B. Cunningham, Esq.  COURT REPORTER: SUSAN J. ROBIDAS, N.H. LCR NO. 44  21  Page 2  APPEARANCES: (C o n t i n u e d)  Reptg. Conservation Law Foundation: N. Jonathan Peress, Esq.  Reptg. Office of Energy & Planning: Eric Steltzer Joanne Morin, Director  Reptg. Residential Ratepayers: Rorie E. P. Hollenberg, Esq. Kenneth E. Traum Office of Consumer Advocate Reptg. PUC Staff: Alexander F. Speidel, Esq.	### STATE OF NEW HAMPSHIRE ### PUBLIC UTILITIES COMMISSION  April 5, 2012 - 1:43 P.M. CONCORD, New Hampshire AFTERNOON SESSION ONLY  RE:  ### DE 10-261 PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE: Least Cost Integrated Resource Plan  PRESENT: Chairman Amy L. Ignatius, Presiding Commissioner Michael D. Harrington Commissioner Robert R. Scott Sandy Deno, Clerk  APPEARANCES:  #### Reptg. Public Service Co. of New Gerald M. Eaton, Esg. Sarah B. Knowlton, Esg. Reptg. TransCanada: Douglas L. Patch, Esg. (Orr & Reno) Reptg. N.H. Sierra Club: Arthur B. Cunningham, Esg.  COURT REPORTER: SUSAN J. ROBIDAS, N.H. LCR NO. 44  #### Page 2  APPEARANCES: (C on t i n u e d)  #### Reptg. Conservation Law Foundation: N. Jonathan Peress, Esg.  Reptg. Office of Energy & Planning: Eric Stellzer Joanne Morin, Director  Reptg. Reptg. TransCaned Requester Seg.  Reptg. Office of Energy & Planning: Eric Stellzer Joanne Morin, Director  Reptg. Reptg. Staff: Alexander F. Speidel, Esg. George R. McCluskey, Electric Division  10  11  12  13  14  15  16	April 5, 2012 - 1:43 P.M.  April 5, 2012 - 1:43 P.M.  Concord, New Hampshire  BE 10-261 Public SERVICE COMPANY OF New Hampshire  RE:  DE 10-261 Public SERVICE COMPANY OF New Hampshire  Commissioner Michael D. Marrington Commissioner Michael D. Marrington Commissioner Robert N. Scott  Sandy Deno, Clerk  APPEARANCES:  Reptg. Fublic Service Co. of New Hampshire  Gerald M. Eaton, Esg. Bergg. Granite Ridge Energy: Howard M. Moffett, Esq. (Orr & Reno) Reptg. N.H. Sierra Club: Arthur B. Cunningham, Esq.  COURT REPORTER: SUSAN J. ROBIDAS, N.H. LCR NO. 44  (DE 10-261)[AFTERNOON ONLY][04-05-12/DAY 2]  Page 2  APPEARANCES: Reptg. Conservation Law Foundation: N. Jonathan Peress, Esg. Reptg. Scott Seaff: Reptg. Resolutial Ratepayers: Rorie S. P. Hollenberg, Esg. Kenneth E. Traum Office of Consumer Advocate Reptg. FUS Staff: Alexander F. Speidel, Esq. George R. McCluskey, Electric Division  2 Samination by Mr. Eaton Conservation Low Foundation: N. Jonathan Peress, Esg. Kenneth E. Traum Office of Consumer Advocate Reptg. Residential Ratepayers: Rorie S. P. Hollenberg, Esg. Kenneth E. Traum Office of Consumer Advocate Reptg. FUS Staff: Alexander F. Speidel, Esq. George R. McCluskey, Electric Division  2 Staff 3 12/2/11 pSNH Response to Data Request Q-Staff-03A, 0044, 006

	DE 10-2011 OBLIC SERVICE COMPANY	OF N.H. Least Cost Integrated Resource Plan
	Page 5	[WITNESS: Traum] Page 7
1	PROCEEDINGS	1 go to some other way of having it covered with
2	CHAIRMAN IGNATIUS: Thank you,	2 other people from your offices or something.
3	everyone, for coming back promptly.	3 I don't want to try to work that out right now
4	Mr. Traum, you are still on	4 with everyone on the record, but we need to
5	the stand. And Mr. Eaton, you have	5 come up with a plan. So, at an afternoon
6	questions?	6 break we'll work on that.
7	Before we begin, is there	7 So, Mr. Traum.
8	anything else we should address	8 CROSS-EXAMINATION
9	procedurally? At some point today we should	9 BY MR. EATON:
10	talk, if we don't finish and I'm happy to	10 Q. Thank you. Mr. Traum, could we talk about
11	be positive. But if we don't finish, we	some of the parameters of least cost planning,
12	should talk about other dates, and if people	what's required and other standards that
13	have checked any of the dates that I read	13 apply?
14	off this morning. Do we know if April 12th	14 A. Certainly.
15	is a possibility, or is that a problem for	15 Q. The least cost planning statute in Chapter 378
16	anyone?	requires us to look at compliance with the
17	MS. HOLLENBERG: I have	Clean Air Act standards of or the
18	something I had to reschedule on account of	requirements of the Clean Air Act; is that
19	the Lakes Region hearing being extended. But	19 correct?
20	if it works for everyone else, I'll do what I	20 (Witness reviews document.)
21	can to make it work. I think it works for our	21 A. If you could not being an attorney, at a
22	witness.	minimum, if you could provide me the
23	CHAIRMAN IGNATIUS: All right.	23 citation?
24	Mr. Peress.	24 Q. 378:38. And I'm reading, "Each such plan
	Page 6	[WITNESS: Traum] Page 8
1	MR. PERESS: Madam Chair,	shall include, but not be limited to the
2	unfortunately, I'm leaving for vacation on	2 following" and I'm reading Roman Numeral
3	April 12th and returning on April 23rd.	<ul> <li>following" and I'm reading Roman Numeral</li> <li>VII "assessment of the Plan integration and</li> </ul>
3 4	April 12th and returning on April 23rd. CHAIRMAN IGNATIUS: We could	<ul> <li>following" and I'm reading Roman Numeral</li> <li>VII "assessment of the Plan integration and impact on state compliance with the Clean Air</li> </ul>
3 4 5	April 12th and returning on April 23rd. CHAIRMAN IGNATIUS: We could come with you.	following" and I'm reading Roman Numeral VII "assessment of the Plan integration and impact on state compliance with the Clean Air Act amendments of 1990."
3 4 5 6	April 12th and returning on April 23rd. CHAIRMAN IGNATIUS: We could come with you. CMSR. HARRINGTON: You can	following" and I'm reading Roman Numeral VII "assessment of the Plan integration and impact on state compliance with the Clean Air Act amendments of 1990." So the Company is required to assess
3 4 5 6 7	April 12th and returning on April 23rd. CHAIRMAN IGNATIUS: We could come with you. CMSR. HARRINGTON: You can vacation here.	following" and I'm reading Roman Numeral VII "assessment of the Plan integration and impact on state compliance with the Clean Air Act amendments of 1990." So the Company is required to assess our compliance with the Clean Air Act of
3 4 5 6 7 8	April 12th and returning on April 23rd. CHAIRMAN IGNATIUS: We could come with you. CMSR. HARRINGTON: You can vacation here. MR. PERESS: I'm going fishing.	following" and I'm reading Roman Numeral VII "assessment of the Plan integration and impact on state compliance with the Clean Air Act amendments of 1990." So the Company is required to assess our compliance with the Clean Air Act of 1990; correct?
3 4 5 6 7 8 9	April 12th and returning on April 23rd. CHAIRMAN IGNATIUS: We could come with you. CMSR. HARRINGTON: You can vacation here. MR. PERESS: I'm going fishing. So, you're welcome.	following" and I'm reading Roman Numeral VII "assessment of the Plan integration and impact on state compliance with the Clean Air Act amendments of 1990." So the Company is required to assess our compliance with the Clean Air Act of 1990; correct? A. That's what it appears to indicate.
3 4 5 6 7 8 9	April 12th and returning on April 23rd. CHAIRMAN IGNATIUS: We could come with you. CMSR. HARRINGTON: You can vacation here. MR. PERESS: I'm going fishing. So, you're welcome. CHAIRMAN IGNATIUS: All right.	following" and I'm reading Roman Numeral VII "assessment of the Plan integration and impact on state compliance with the Clean Air Act amendments of 1990." So the Company is required to assess our compliance with the Clean Air Act of 1990; correct? A. That's what it appears to indicate. Q. And the standards from the Commission's letter
3 4 5 6 7 8 9 10	April 12th and returning on April 23rd. CHAIRMAN IGNATIUS: We could come with you. CMSR. HARRINGTON: You can vacation here. MR. PERESS: I'm going fishing. So, you're welcome. CHAIRMAN IGNATIUS: All right. So our next date was April 23rd. And you're	following" and I'm reading Roman Numeral VII "assessment of the Plan integration and impact on state compliance with the Clean Air Act amendments of 1990." So the Company is required to assess our compliance with the Clean Air Act of 1990; correct? A. That's what it appears to indicate.  Q. And the standards from the Commission's letter concerning the language that what is
3 4 5 6 7 8 9 10 11	April 12th and returning on April 23rd. CHAIRMAN IGNATIUS: We could come with you. CMSR. HARRINGTON: You can vacation here. MR. PERESS: I'm going fishing. So, you're welcome. CHAIRMAN IGNATIUS: All right. So our next date was April 23rd. And you're still away at that point?	following" and I'm reading Roman Numeral VII "assessment of the Plan integration and impact on state compliance with the Clean Air Act amendments of 1990." So the Company is required to assess our compliance with the Clean Air Act of 1990; correct? A. That's what it appears to indicate.  Q. And the standards from the Commission's letter concerning the language that what is reasonably foreseeable also talks about
3 4 5 6 7 8 9 10 11 12	April 12th and returning on April 23rd. CHAIRMAN IGNATIUS: We could come with you. CMSR. HARRINGTON: You can vacation here. MR. PERESS: I'm going fishing. So, you're welcome. CHAIRMAN IGNATIUS: All right. So our next date was April 23rd. And you're still away at that point? MR. PERESS: I return on the	following" and I'm reading Roman Numeral VII "assessment of the Plan integration and impact on state compliance with the Clean Air Act amendments of 1990."  So the Company is required to assess our compliance with the Clean Air Act of 1990; correct?  A. That's what it appears to indicate.  Q. And the standards from the Commission's letter concerning the language that what is reasonably foreseeable also talks about compliance planning; correct?
3 4 5 6 7 8 9 10 11 12 13 14	April 12th and returning on April 23rd. CHAIRMAN IGNATIUS: We could come with you. CMSR. HARRINGTON: You can vacation here. MR. PERESS: I'm going fishing. So, you're welcome. CHAIRMAN IGNATIUS: All right. So our next date was April 23rd. And you're still away at that point? MR. PERESS: I return on the 23rd.	following" and I'm reading Roman Numeral VII "assessment of the Plan integration and impact on state compliance with the Clean Air Act amendments of 1990." So the Company is required to assess our compliance with the Clean Air Act of 1990; correct? A. That's what it appears to indicate. Q. And the standards from the Commission's letter concerning the language that what is reasonably foreseeable also talks about compliance planning; correct? MS. HOLLENBERG: Excuse me. Do
3 4 5 6 7 8 9 10 11 12 13 14	April 12th and returning on April 23rd. CHAIRMAN IGNATIUS: We could come with you. CMSR. HARRINGTON: You can vacation here. MR. PERESS: I'm going fishing. So, you're welcome. CHAIRMAN IGNATIUS: All right. So our next date was April 23rd. And you're still away at that point? MR. PERESS: I return on the 23rd. CHAIRMAN IGNATIUS: And that	problem of the Plan integration and VII "assessment of the Plan integration and impact on state compliance with the Clean Air Act amendments of 1990."  So the Company is required to assess our compliance with the Clean Air Act of 1990; correct?  A. That's what it appears to indicate.  Q. And the standards from the Commission's letter concerning the language that what is reasonably foreseeable also talks about compliance planning; correct?  MS. HOLLENBERG: Excuse me. Do you have the letter in front of you, Mr.
3 4 5 6 7 8 9 10 11 12 13 14 15 16	April 12th and returning on April 23rd. CHAIRMAN IGNATIUS: We could come with you. CMSR. HARRINGTON: You can vacation here. MR. PERESS: I'm going fishing. So, you're welcome. CHAIRMAN IGNATIUS: All right. So our next date was April 23rd. And you're still away at that point? MR. PERESS: I return on the 23rd. CHAIRMAN IGNATIUS: And that gets us into May 1st is the next possible	problem of the Plan integration and VII "assessment of the Plan integration and impact on state compliance with the Clean Air Act amendments of 1990."  So the Company is required to assess our compliance with the Clean Air Act of 1990; correct?  A. That's what it appears to indicate.  Q. And the standards from the Commission's letter concerning the language that what is reasonably foreseeable also talks about compliance planning; correct?  MS. HOLLENBERG: Excuse me. Do you have the letter in front of you, Mr.  Traum?
3 4 5 6 7 8 9 10 11 12 13 14 15 16	April 12th and returning on April 23rd. CHAIRMAN IGNATIUS: We could come with you. CMSR. HARRINGTON: You can vacation here. MR. PERESS: I'm going fishing. So, you're welcome. CHAIRMAN IGNATIUS: All right. So our next date was April 23rd. And you're still away at that point? MR. PERESS: I return on the 23rd. CHAIRMAN IGNATIUS: And that gets us into May 1st is the next possible date, which is awfully late.	following" and I'm reading Roman Numeral VII "assessment of the Plan integration and impact on state compliance with the Clean Air Act amendments of 1990." So the Company is required to assess our compliance with the Clean Air Act of 1990; correct? A. That's what it appears to indicate. Q. And the standards from the Commission's letter concerning the language that what is reasonably foreseeable also talks about compliance planning; correct?  MS. HOLLENBERG: Excuse me. Do you have the letter in front of you, Mr. Traum?  Traum?
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	April 12th and returning on April 23rd. CHAIRMAN IGNATIUS: We could come with you. CMSR. HARRINGTON: You can vacation here. MR. PERESS: I'm going fishing. So, you're welcome. CHAIRMAN IGNATIUS: All right. So our next date was April 23rd. And you're still away at that point? MR. PERESS: I return on the 23rd. CHAIRMAN IGNATIUS: And that gets us into May 1st is the next possible date, which is awfully late. MR. SPEIDEL: That doesn't work	following" and I'm reading Roman Numeral VII "assessment of the Plan integration and impact on state compliance with the Clean Air Act amendments of 1990."  So the Company is required to assess our compliance with the Clean Air Act of 1990; correct?  A. That's what it appears to indicate.  Q. And the standards from the Commission's letter concerning the language that what is reasonably foreseeable also talks about compliance planning; correct?  MS. HOLLENBERG: Excuse me. Do you have the letter in front of you, Mr. Traum?  A. Give me a second, please.  (Witness reviews document.)
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	April 12th and returning on April 23rd. CHAIRMAN IGNATIUS: We could come with you. CMSR. HARRINGTON: You can vacation here. MR. PERESS: I'm going fishing. So, you're welcome. CHAIRMAN IGNATIUS: All right. So our next date was April 23rd. And you're still away at that point? MR. PERESS: I return on the 23rd. CHAIRMAN IGNATIUS: And that gets us into May 1st is the next possible date, which is awfully late. MR. SPEIDEL: That doesn't work for Staff's witness, actually, Mr. Arnold.	following" and I'm reading Roman Numeral VII "assessment of the Plan integration and impact on state compliance with the Clean Air Act amendments of 1990." So the Company is required to assess our compliance with the Clean Air Act of 1990; correct? A. That's what it appears to indicate.  Q. And the standards from the Commission's letter concerning the language that what is reasonably foreseeable also talks about compliance planning; correct?  MS. HOLLENBERG: Excuse me. Do you have the letter in front of you, Mr. Traum?  M. Give me a second, please. (Witness reviews document.)  A. Okay. You're referring to Exhibit TC2,
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	April 12th and returning on April 23rd. CHAIRMAN IGNATIUS: We could come with you. CMSR. HARRINGTON: You can vacation here. MR. PERESS: I'm going fishing. So, you're welcome. CHAIRMAN IGNATIUS: All right. So our next date was April 23rd. And you're still away at that point? MR. PERESS: I return on the 23rd. CHAIRMAN IGNATIUS: And that gets us into May 1st is the next possible date, which is awfully late. MR. SPEIDEL: That doesn't work for Staff's witness, actually, Mr. Arnold. CHAIRMAN IGNATIUS: So what do	pollowing" and I'm reading Roman Numeral VII "assessment of the Plan integration and impact on state compliance with the Clean Air Act amendments of 1990." So the Company is required to assess our compliance with the Clean Air Act of 1990; correct? A. That's what it appears to indicate.  Q. And the standards from the Commission's letter concerning the language that what is reasonably foreseeable also talks about compliance planning; correct?  MS. HOLLENBERG: Excuse me. Do you have the letter in front of you, Mr. Traum?  A. Give me a second, please.  (Witness reviews document.)  A. Okay. You're referring to Exhibit TC2, which was the Commission secretarial letter
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	April 12th and returning on April 23rd. CHAIRMAN IGNATIUS: We could come with you. CMSR. HARRINGTON: You can vacation here. MR. PERESS: I'm going fishing. So, you're welcome. CHAIRMAN IGNATIUS: All right. So our next date was April 23rd. And you're still away at that point? MR. PERESS: I return on the 23rd. CHAIRMAN IGNATIUS: And that gets us into May 1st is the next possible date, which is awfully late. MR. SPEIDEL: That doesn't work for Staff's witness, actually, Mr. Arnold. CHAIRMAN IGNATIUS: So what do we do? Why don't we leave at a break and	following" and I'm reading Roman Numeral VII "assessment of the Plan integration and impact on state compliance with the Clean Air Act amendments of 1990."  So the Company is required to assess our compliance with the Clean Air Act of 1990; correct?  A. That's what it appears to indicate.  Q. And the standards from the Commission's letter concerning the language that what is reasonably foreseeable also talks about compliance planning; correct?  MS. HOLLENBERG: Excuse me. Do you have the letter in front of you, Mr. Traum?  A. Give me a second, please. (Witness reviews document.)  A. Okay. You're referring to Exhibit TC2, which was the Commission secretarial letter of December 28, 2010.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	April 12th and returning on April 23rd. CHAIRMAN IGNATIUS: We could come with you. CMSR. HARRINGTON: You can vacation here. MR. PERESS: I'm going fishing. So, you're welcome. CHAIRMAN IGNATIUS: All right. So our next date was April 23rd. And you're still away at that point? MR. PERESS: I return on the 23rd. CHAIRMAN IGNATIUS: And that gets us into May 1st is the next possible date, which is awfully late. MR. SPEIDEL: That doesn't work for Staff's witness, actually, Mr. Arnold. CHAIRMAN IGNATIUS: So what do	following" and I'm reading Roman Numeral VII "assessment of the Plan integration and impact on state compliance with the Clean Air Act amendments of 1990."  So the Company is required to assess our compliance with the Clean Air Act of 1990; correct?  A. That's what it appears to indicate.  Q. And the standards from the Commission's letter concerning the language that what is reasonably foreseeable also talks about compliance planning; correct?  MS. HOLLENBERG: Excuse me. Do you have the letter in front of you, Mr. Traum?  A. Give me a second, please. (Witness reviews document.)  A. Okay. You're referring to Exhibit TC2, which was the Commission secretarial letter of December 28, 2010.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	April 12th and returning on April 23rd. CHAIRMAN IGNATIUS: We could come with you. CMSR. HARRINGTON: You can vacation here. MR. PERESS: I'm going fishing. So, you're welcome. CHAIRMAN IGNATIUS: All right. So our next date was April 23rd. And you're still away at that point? MR. PERESS: I return on the 23rd. CHAIRMAN IGNATIUS: And that gets us into May 1st is the next possible date, which is awfully late. MR. SPEIDEL: That doesn't work for Staff's witness, actually, Mr. Arnold. CHAIRMAN IGNATIUS: So what do we do? Why don't we leave at a break and everybody talk about that, because none of	following" and I'm reading Roman Numeral VII "assessment of the Plan integration and impact on state compliance with the Clean Air Act amendments of 1990."  So the Company is required to assess our compliance with the Clean Air Act of 1990; correct?  A. That's what it appears to indicate.  Q. And the standards from the Commission's letter concerning the language that what is reasonably foreseeable also talks about compliance planning; correct?  MS. HOLLENBERG: Excuse me. Do you have the letter in front of you, Mr. Traum?  A. Give me a second, please. (Witness reviews document.)  A. Okay. You're referring to Exhibit TC2, which was the Commission secretarial letter of December 28, 2010.

DAZITALE	DE 10-261 PUBLIC SERVICE COMPANY (		
[VVIIINE	SS: Traum] Page 9	[VVIINES	SS: Traum] Page 11
1 A.	It talks about, and I'll quote, "to plan for	1	proceeding that divestiture and retirement are
2	compliance with environmental requirements	2	part of a different statutory scheme that the
3	imposed or established after the date of the	3	Commission is required to follow?
4	Least Cost Integrated Resource Plan initial	4	MS. HOLLENBERG: Excuse me, Mr.
5	filing," unquote. And then it goes on to	5	Eaton. Do you have a reference that you can
6	say, "The Commission notes, as a general	6	refer the witness to, please?
7	matter, that a sound planning process should	7	MR. EATON: The question from
8	consider reasonably foreseeable regulatory	8	counsel is what?
9	changes," et cetera.	9	MS. HOLLENBERG: Do you have a
10 Q.	So if I could read those two phrases together,	10	reference? I think you're asking Mr. Traum to
11	"complying with reasonably foreseeable	11	opine about whether or not there's another
12	environmental standards."	12	statutory scheme that applies to the
13 A.		13	divestiture or retirement
14	foreseeable regulatory changes.	14	MR. EATON: Yeah.
15 Q.		15	MS. HOLLENBERG: and I just
16	Commission and your participation in energy	16	wondered if you had a reference to refer him
17	service cases, is PSNH required to use its	17	to.
18	plants to supply energy service?	18	MR. EATON: Yes. I'm looking at
19 A.		19	369-B:3 I'm sorry 369-B:3-a.
20	that was raised by Commissioner Harrington	20	MS. HOLLENBERG: Is that
21	yesterday about if for supplying the	21	something that would be helpful for you to
22	needs of their energy service customers, in	22	look at while you're asked the question, Mr.
23	part, you dispatch their plants when it's	23	Traum?
24	economical to, and other times go to ISO and	24	THE WITNESS: Either look at, or
	conomical to, and care times go to 120 and		7712 (V111 (200) 2000 1000 w, 01
[WITNE	SS: Traum] Page 10	[WITNES	SS: Traum] Page 12
1	the market.	1	if counsel has some specific section, if he
	the market. And have you been involved in previous least	1 2	
2 Q. 3	And have you been involved in previous least cost planning dockets?	2 3 B	if counsel has some specific section, if he could read it out loud, I'd appreciate it. Y MR. EATON:
2 Q. 3	And have you been involved in previous least	2 3 B	if counsel has some specific section, if he could read it out loud, I'd appreciate it.
2 Q. 3	And have you been involved in previous least cost planning dockets?	2 3 B	if counsel has some specific section, if he could read it out loud, I'd appreciate it. Y MR. EATON: All right. Notwithstanding R.S.A. 374:30 and I'm reading from the statute
2 Q. 3 4 A.	And have you been involved in previous least cost planning dockets?  I have been, to an extent. As noted by your	2 3 B 4 Q.	if counsel has some specific section, if he could read it out loud, I'd appreciate it.  Y MR. EATON: All right. Notwithstanding R.S.A. 374:30
2 Q. 3 4 A. 5	And have you been involved in previous least cost planning dockets?  I have been, to an extent. As noted by your witness, Mr. Large, yesterday, there had been waivers in a number of years with regards to least cost compliance.	2 3 B' 4 Q. 5	if counsel has some specific section, if he could read it out loud, I'd appreciate it.  Y MR. EATON: All right. Notwithstanding R.S.A. 374:30 and I'm reading from the statute "Subsequent to April 30th, 2006, PSNH may divest its generated assets if the Commission
2 Q. 3 4 A. 5	And have you been involved in previous least cost planning dockets?  I have been, to an extent. As noted by your witness, Mr. Large, yesterday, there had been waivers in a number of years with	2 3 B 4 Q. 5 6	if counsel has some specific section, if he could read it out loud, I'd appreciate it.  Y MR. EATON: All right. Notwithstanding R.S.A. 374:30 and I'm reading from the statute "Subsequent to April 30th, 2006, PSNH may
2 Q. 3 4 A. 5 6 7	And have you been involved in previous least cost planning dockets?  I have been, to an extent. As noted by your witness, Mr. Large, yesterday, there had been waivers in a number of years with regards to least cost compliance.	2 3 B 4 Q. 5 6 7	if counsel has some specific section, if he could read it out loud, I'd appreciate it.  Y MR. EATON: All right. Notwithstanding R.S.A. 374:30 and I'm reading from the statute "Subsequent to April 30th, 2006, PSNH may divest its generated assets if the Commission
2 Q. 3 4 A. 5 6 7 8 Q.	And have you been involved in previous least cost planning dockets?  I have been, to an extent. As noted by your witness, Mr. Large, yesterday, there had been waivers in a number of years with regards to least cost compliance.  With respect to the most recent two or three, has the question of planning for divestiture come up?	2 3 B' 4 Q. 5 6 7	if counsel has some specific section, if he could read it out loud, I'd appreciate it.  Y MR. EATON: All right. Notwithstanding R.S.A. 374:30 and I'm reading from the statute "Subsequent to April 30th, 2006, PSNH may divest its generated assets if the Commission finds it is in the economic interest of retail
2 Q. 3 4 A. 5 6 7 8 Q. 9	And have you been involved in previous least cost planning dockets?  I have been, to an extent. As noted by your witness, Mr. Large, yesterday, there had been waivers in a number of years with regards to least cost compliance.  With respect to the most recent two or three, has the question of planning for divestiture come up?	2 3 B' 4 Q. 5 6 7 8	if counsel has some specific section, if he could read it out loud, I'd appreciate it.  Y MR. EATON: All right. Notwithstanding R.S.A. 374:30 and I'm reading from the statute "Subsequent to April 30th, 2006, PSNH may divest its generated assets if the Commission finds it is in the economic interest of retail customers of PSNH to do so and provides for
2 Q. 3 4 A. 5 6 7 8 Q. 9	And have you been involved in previous least cost planning dockets?  I have been, to an extent. As noted by your witness, Mr. Large, yesterday, there had been waivers in a number of years with regards to least cost compliance.  With respect to the most recent two or three, has the question of planning for divestiture come up?	2 3 B 4 Q. 5 6 7 8 9	if counsel has some specific section, if he could read it out loud, I'd appreciate it.  Y MR. EATON:  All right. Notwithstanding R.S.A. 374:30 and I'm reading from the statute "Subsequent to April 30th, 2006, PSNH may divest its generated assets if the Commission finds it is in the economic interest of retail customers of PSNH to do so and provides for the cost of recovery of such divestiture."
2 Q. 3 4 A. 5 6 7 8 Q. 9 10 11 A.	And have you been involved in previous least cost planning dockets?  I have been, to an extent. As noted by your witness, Mr. Large, yesterday, there had been waivers in a number of years with regards to least cost compliance.  With respect to the most recent two or three, has the question of planning for divestiture come up?  I believe it was an issue within the last	2 3 B 4 Q. 5 6 7 8 9 10 11 A.	if counsel has some specific section, if he could read it out loud, I'd appreciate it.  Y MR. EATON: All right. Notwithstanding R.S.A. 374:30 and I'm reading from the statute "Subsequent to April 30th, 2006, PSNH may divest its generated assets if the Commission finds it is in the economic interest of retail customers of PSNH to do so and provides for the cost of recovery of such divestiture." Okay. So, did the Commission when divestiture was brought up in the past, did the Commission
2 Q. 3 4 A. 5 6 7 8 Q. 9 10 11 A. 12	And have you been involved in previous least cost planning dockets?  I have been, to an extent. As noted by your witness, Mr. Large, yesterday, there had been waivers in a number of years with regards to least cost compliance.  With respect to the most recent two or three, has the question of planning for divestiture come up?  I believe it was an issue within the last Least Cost Plan. I don't know if it was in the one preceding that.  Why divestiture has become an issue is	2 3 B' 4 Q. 5 6 7 8 9 10 11 A. 12 Q.	if counsel has some specific section, if he could read it out loud, I'd appreciate it.  Y MR. EATON: All right. Notwithstanding R.S.A. 374:30 and I'm reading from the statute "Subsequent to April 30th, 2006, PSNH may divest its generated assets if the Commission finds it is in the economic interest of retail customers of PSNH to do so and provides for the cost of recovery of such divestiture." Okay. So, did the Commission when divestiture was brought up in the past, did the Commission cite to this statute saying that that is the
2 Q. 3 4 A. 5 6 7 8 Q. 9 10 11 A. 12 13	And have you been involved in previous least cost planning dockets?  I have been, to an extent. As noted by your witness, Mr. Large, yesterday, there had been waivers in a number of years with regards to least cost compliance.  With respect to the most recent two or three, has the question of planning for divestiture come up?  I believe it was an issue within the last Least Cost Plan. I don't know if it was in the one preceding that.  Why divestiture has become an issue is because the world has changed with regards	2 3 B 4 Q. 5 6 7 8 9 10 11 A. 12 Q. 13 14	if counsel has some specific section, if he could read it out loud, I'd appreciate it.  Y MR. EATON: All right. Notwithstanding R.S.A. 374:30 and I'm reading from the statute "Subsequent to April 30th, 2006, PSNH may divest its generated assets if the Commission finds it is in the economic interest of retail customers of PSNH to do so and provides for the cost of recovery of such divestiture." Okay. So, did the Commission when divestiture was brought up in the past, did the Commission cite to this statute saying that that is the proper forum for discussing divestiture and
2 Q. 3 4 A. 5 6 7 8 Q. 9 10 11 A. 12 13 14	And have you been involved in previous least cost planning dockets?  I have been, to an extent. As noted by your witness, Mr. Large, yesterday, there had been waivers in a number of years with regards to least cost compliance.  With respect to the most recent two or three, has the question of planning for divestiture come up?  I believe it was an issue within the last Least Cost Plan. I don't know if it was in the one preceding that.  Why divestiture has become an issue is because the world has changed with regards to energy pricing and what has happened to	2 3 B 4 Q. 5 6 7 8 9 10 11 A. 12 Q. 13 14 15	if counsel has some specific section, if he could read it out loud, I'd appreciate it.  Y MR. EATON: All right. Notwithstanding R.S.A. 374:30 and I'm reading from the statute "Subsequent to April 30th, 2006, PSNH may divest its generated assets if the Commission finds it is in the economic interest of retail customers of PSNH to do so and provides for the cost of recovery of such divestiture." Okay. So, did the Commission when divestiture was brought up in the past, did the Commission cite to this statute saying that that is the proper forum for discussing divestiture and not least cost planning?
2 Q. 3 4 A. 5 6 7 8 Q. 9 10 11 A. 12 13 14 15	And have you been involved in previous least cost planning dockets?  I have been, to an extent. As noted by your witness, Mr. Large, yesterday, there had been waivers in a number of years with regards to least cost compliance.  With respect to the most recent two or three, has the question of planning for divestiture come up?  I believe it was an issue within the last Least Cost Plan. I don't know if it was in the one preceding that.  Why divestiture has become an issue is because the world has changed with regards to energy pricing and what has happened to the natural gas market, making your plants	2 3 B 4 Q. 5 6 7 8 9 10 11 A. 12 Q. 13 14 15	if counsel has some specific section, if he could read it out loud, I'd appreciate it.  Y MR. EATON: All right. Notwithstanding R.S.A. 374:30 and I'm reading from the statute "Subsequent to April 30th, 2006, PSNH may divest its generated assets if the Commission finds it is in the economic interest of retail customers of PSNH to do so and provides for the cost of recovery of such divestiture." Okay. So, did the Commission when divestiture was brought up in the past, did the Commission cite to this statute saying that that is the proper forum for discussing divestiture and not least cost planning? I do not know if I do not recollect what
2 Q. 3 4 A. 5 6 7 8 Q. 9 10 11 A. 12 13 14 15 16	And have you been involved in previous least cost planning dockets?  I have been, to an extent. As noted by your witness, Mr. Large, yesterday, there had been waivers in a number of years with regards to least cost compliance.  With respect to the most recent two or three, has the question of planning for divestiture come up?  I believe it was an issue within the last Least Cost Plan. I don't know if it was in the one preceding that.  Why divestiture has become an issue is because the world has changed with regards to energy pricing and what has happened to the natural gas market, making your plants more and more uneconomic on a variable cost	2 3 B 4 Q. 5 6 7 8 9 10 11 A. 12 Q. 13 14 15	if counsel has some specific section, if he could read it out loud, I'd appreciate it.  Y MR. EATON:  All right. Notwithstanding R.S.A. 374:30 and I'm reading from the statute "Subsequent to April 30th, 2006, PSNH may divest its generated assets if the Commission finds it is in the economic interest of retail customers of PSNH to do so and provides for the cost of recovery of such divestiture."  Okay.  So, did the Commission when divestiture was brought up in the past, did the Commission cite to this statute saying that that is the proper forum for discussing divestiture and not least cost planning?  I do not know if I do not recollect what the Commission did or not. My issue, in
2 Q. 3 4 A. 5 6 7 8 Q. 9 10 11 A. 12 13 14 15 16 17	And have you been involved in previous least cost planning dockets?  I have been, to an extent. As noted by your witness, Mr. Large, yesterday, there had been waivers in a number of years with regards to least cost compliance.  With respect to the most recent two or three, has the question of planning for divestiture come up?  I believe it was an issue within the last Least Cost Plan. I don't know if it was in the one preceding that.  Why divestiture has become an issue is because the world has changed with regards to energy pricing and what has happened to the natural gas market, making your plants more and more uneconomic on a variable cost basis.	2 3 B 4 Q. 5 6 7 8 9 10 11 A. 12 Q. 13 14 15 16 17 A.	if counsel has some specific section, if he could read it out loud, I'd appreciate it.  Y MR. EATON: All right. Notwithstanding R.S.A. 374:30 and I'm reading from the statute "Subsequent to April 30th, 2006, PSNH may divest its generated assets if the Commission finds it is in the economic interest of retail customers of PSNH to do so and provides for the cost of recovery of such divestiture." Okay. So, did the Commission when divestiture was brought up in the past, did the Commission cite to this statute saying that that is the proper forum for discussing divestiture and not least cost planning? I do not know if I do not recollect what the Commission did or not. My issue, in terms of least cost planning, is I want to
2 Q. 3 4 A. 5 6 7 8 Q. 9 10 11 A. 12 13 14 15 16 17 18	And have you been involved in previous least cost planning dockets?  I have been, to an extent. As noted by your witness, Mr. Large, yesterday, there had been waivers in a number of years with regards to least cost compliance.  With respect to the most recent two or three, has the question of planning for divestiture come up?  I believe it was an issue within the last Least Cost Plan. I don't know if it was in the one preceding that.  Why divestiture has become an issue is because the world has changed with regards to energy pricing and what has happened to the natural gas market, making your plants more and more uneconomic on a variable cost basis.  But as far as the adequacy of the Plan that	2 3 B 4 Q. 5 6 7 8 9 10 11 A. 12 Q. 13 14 15 16 17 A. 18	if counsel has some specific section, if he could read it out loud, I'd appreciate it.  Y MR. EATON: All right. Notwithstanding R.S.A. 374:30 and I'm reading from the statute "Subsequent to April 30th, 2006, PSNH may divest its generated assets if the Commission finds it is in the economic interest of retail customers of PSNH to do so and provides for the cost of recovery of such divestiture." Okay. So, did the Commission when divestiture was brought up in the past, did the Commission cite to this statute saying that that is the proper forum for discussing divestiture and not least cost planning? I do not know if I do not recollect what the Commission did or not. My issue, in terms of least cost planning, is I want to look at what is in the long-term least cost
2 Q. 3 4 A. 5 6 7 8 Q. 9 10 11 A. 12 13 14 15 16 17 18 19	And have you been involved in previous least cost planning dockets?  I have been, to an extent. As noted by your witness, Mr. Large, yesterday, there had been waivers in a number of years with regards to least cost compliance.  With respect to the most recent two or three, has the question of planning for divestiture come up?  I believe it was an issue within the last Least Cost Plan. I don't know if it was in the one preceding that.  Why divestiture has become an issue is because the world has changed with regards to energy pricing and what has happened to the natural gas market, making your plants more and more uneconomic on a variable cost basis.  But as far as the adequacy of the Plan that was filed, was PSNH required to or even	2 3 B 4 Q. 5 6 7 8 9 10 11 A. 12 Q. 13 14 15 16 17 A. 18	if counsel has some specific section, if he could read it out loud, I'd appreciate it.  Y MR. EATON:  All right. Notwithstanding R.S.A. 374:30 and I'm reading from the statute "Subsequent to April 30th, 2006, PSNH may divest its generated assets if the Commission finds it is in the economic interest of retail customers of PSNH to do so and provides for the cost of recovery of such divestiture."  Okay.  So, did the Commission when divestiture was brought up in the past, did the Commission cite to this statute saying that that is the proper forum for discussing divestiture and not least cost planning?  I do not know if I do not recollect what the Commission did or not. My issue, in terms of least cost planning, is I want to look at what is in the long-term least cost benefit of your customers or your
2 Q. 3 4 A. 5 6 7 8 Q. 9 10 11 A. 12 13 14 15 16 17 18 19 20 Q.	And have you been involved in previous least cost planning dockets?  I have been, to an extent. As noted by your witness, Mr. Large, yesterday, there had been waivers in a number of years with regards to least cost compliance.  With respect to the most recent two or three, has the question of planning for divestiture come up?  I believe it was an issue within the last Least Cost Plan. I don't know if it was in the one preceding that.  Why divestiture has become an issue is because the world has changed with regards to energy pricing and what has happened to the natural gas market, making your plants more and more uneconomic on a variable cost basis.  But as far as the adequacy of the Plan that was filed, was PSNH required to or even permitted to analyze divestiture?	2 3 B 4 Q. 5 6 7 8 9 10 11 A. 12 Q. 13 14 15 16 17 A. 18 19 20	if counsel has some specific section, if he could read it out loud, I'd appreciate it.  Y MR. EATON:  All right. Notwithstanding R.S.A. 374:30 and I'm reading from the statute "Subsequent to April 30th, 2006, PSNH may divest its generated assets if the Commission finds it is in the economic interest of retail customers of PSNH to do so and provides for the cost of recovery of such divestiture."  Okay.  So, did the Commission when divestiture was brought up in the past, did the Commission cite to this statute saying that that is the proper forum for discussing divestiture and not least cost planning?  I do not know if I do not recollect what the Commission did or not. My issue, in terms of least cost planning, is I want to look at what is in the long-term least cost benefit of your customers or your ratepayers. And in order to determine that,
2 Q. 3 4 A. 5 6 7 8 Q. 9 10 11 A. 12 13 14 15 16 17 18 19 20 Q. 21 22 23 A.	And have you been involved in previous least cost planning dockets?  I have been, to an extent. As noted by your witness, Mr. Large, yesterday, there had been waivers in a number of years with regards to least cost compliance.  With respect to the most recent two or three, has the question of planning for divestiture come up?  I believe it was an issue within the last Least Cost Plan. I don't know if it was in the one preceding that.  Why divestiture has become an issue is because the world has changed with regards to energy pricing and what has happened to the natural gas market, making your plants more and more uneconomic on a variable cost basis.  But as far as the adequacy of the Plan that was filed, was PSNH required to or even permitted to analyze divestiture?  I would say you were certainly permitted to.	2 3 B 4 Q. 5 6 7 8 9 10 11 A. 12 Q. 13 14 15 16 17 A. 18 19 20 21 22 23	if counsel has some specific section, if he could read it out loud, I'd appreciate it.  Y MR. EATON: All right. Notwithstanding R.S.A. 374:30 and I'm reading from the statute "Subsequent to April 30th, 2006, PSNH may divest its generated assets if the Commission finds it is in the economic interest of retail customers of PSNH to do so and provides for the cost of recovery of such divestiture." Okay. So, did the Commission when divestiture was brought up in the past, did the Commission cite to this statute saying that that is the proper forum for discussing divestiture and not least cost planning? I do not know if I do not recollect what the Commission did or not. My issue, in terms of least cost planning, is I want to look at what is in the long-term least cost benefit of your customers or your ratepayers. And in order to determine that, you've got to look at: What are the ongoing
2 Q. 3 4 A. 5 6 7 8 Q. 9 10 11 A. 12 13 14 15 16 17 18 19 20 Q. 21 22 23 A.	And have you been involved in previous least cost planning dockets?  I have been, to an extent. As noted by your witness, Mr. Large, yesterday, there had been waivers in a number of years with regards to least cost compliance.  With respect to the most recent two or three, has the question of planning for divestiture come up?  I believe it was an issue within the last Least Cost Plan. I don't know if it was in the one preceding that.  Why divestiture has become an issue is because the world has changed with regards to energy pricing and what has happened to the natural gas market, making your plants more and more uneconomic on a variable cost basis.  But as far as the adequacy of the Plan that was filed, was PSNH required to or even permitted to analyze divestiture?	2 3 B 4 Q. 5 6 7 8 9 10 11 A. 12 Q. 13 14 15 16 17 A. 18 19 20 21 22	if counsel has some specific section, if he could read it out loud, I'd appreciate it.  Y MR. EATON:  All right. Notwithstanding R.S.A. 374:30 and I'm reading from the statute "Subsequent to April 30th, 2006, PSNH may divest its generated assets if the Commission finds it is in the economic interest of retail customers of PSNH to do so and provides for the cost of recovery of such divestiture."  Okay.  So, did the Commission when divestiture was brought up in the past, did the Commission cite to this statute saying that that is the proper forum for discussing divestiture and not least cost planning?  I do not know if I do not recollect what the Commission did or not. My issue, in terms of least cost planning, is I want to look at what is in the long-term least cost benefit of your customers or your ratepayers. And in order to determine that,

[WITNE:	SS: Traum] Page 13	-		SS: Traum] Page 15
	•			•
1	investments? What are the alternatives to	1		for the cost of those units, the Commission
2	that? You know, is retirement an	2		could disallow costs over market.
3	alternative? Is divestiture an alternative?	3		Y MR. EATON:
4	What is the best result for ratepayers in			Mr. Traum, do you have a copy of Mr. Smagula's
5	the long run? That's why I feel it should	5		and Ms. Tillotson's rebuttal testimony?
6	be included in the Least Cost Plan.			Yes, I have.
7	What I had thought you were getting at	7		Could you look to the last attachment in that
8	was does the Commission have the authority	8		testimony. I think it's Bates No. 35.
9	to require divestiture and	9		I'm sorry. I do not have the attachments,
10 Q.	You think that would take a legal analysis,	10		just the testimony.
11	what's in the Commission's authority? I was	11		CHAIRMAN IGNATIUS: For the
12	asking you about your recollection of what the	12		record, is this the rebuttal testimony, PSNH
13	Commission had ruled in the past.	13		Exhibit 4?
14	MS. HOLLENBERG: Are you I'm	14		MR. EATON: Yes.
15	sorry. If I could just have some	15		CHAIRMAN IGNATIUS: Thank you.
16	clarification. Are you objecting to the	16		Y MR. EATON:
17	witness's statement in response to your			Mr. Traum, I'll show you the testimony. And
18	question or	18		the last three pages have an attachment,
19	MR. EATON: Well, he was about	19		"Technical Session TS-02 Q-Tech-014."
20	to say he was about to opine as to the		A.	
21	Commission's authority to order divestiture,		_	Do you have that?
22	and I don't believe he's been offered as a			You have just handed it to me.
23	legal witness.			Okay. Did you read this attachment to Mr.
24	MS. HOLLENBERG: I think,	24		Smagula's and Ms. Tillotson's testimony?
[WITNE:	SS: Traum] Page 14	[WI	TNE	SS: Traum] Page 16
1	though, that you asked I think that your	1	A.	Yes, I have.
1 2	though, that you asked I think that your question asked him to respond whether or not	1 2	A. Q.	Yes, I have. And are you still of the opinion that
1 2 3	though, that you asked I think that your question asked him to respond whether or not the Commission has in the past addressed	1 2 3	A. Q.	Yes, I have. And are you still of the opinion that CMSR. HARRINGTON: Excuse me.
1 2 3 4	though, that you asked I think that your question asked him to respond whether or not the Commission has in the past addressed divestiture in the statute as being the one	1 2 3 4	A. Q.	Yes, I have. And are you still of the opinion that CMSR. HARRINGTON: Excuse me. Could you further identify which attachment to
1 2 3 4 5	though, that you asked I think that your question asked him to respond whether or not the Commission has in the past addressed divestiture in the statute as being the one that's applicable to those circumstances. So,	1 2 3 4 5	A. Q.	Yes, I have. And are you still of the opinion that CMSR. HARRINGTON: Excuse me. Could you further identify which attachment to their testimony it is?
1 2 3 4 5 6	though, that you asked I think that your question asked him to respond whether or not the Commission has in the past addressed divestiture in the statute as being the one that's applicable to those circumstances. So, to the extent that you asked that question, I	1 2 3 4	A. Q.	Yes, I have.  And are you still of the opinion that  CMSR. HARRINGTON: Excuse me.  Could you further identify which attachment to their testimony it is?  MR. EATON: It's Attachment 4.
1 2 3 4 5	though, that you asked I think that your question asked him to respond whether or not the Commission has in the past addressed divestiture in the statute as being the one that's applicable to those circumstances. So,	1 2 3 4 5	A. Q.	Yes, I have.  And are you still of the opinion that  CMSR. HARRINGTON: Excuse me.  Could you further identify which attachment to their testimony it is?  MR. EATON: It's Attachment 4.  It's a three-page document. The first page is
1 2 3 4 5 6 7	though, that you asked I think that your question asked him to respond whether or not the Commission has in the past addressed divestiture in the statute as being the one that's applicable to those circumstances. So, to the extent that you asked that question, I would suggest that Mr. Traum be allowed to	1 2 3 4 5 6 7	A. Q.	Yes, I have.  And are you still of the opinion that  CMSR. HARRINGTON: Excuse me.  Could you further identify which attachment to their testimony it is?  MR. EATON: It's Attachment 4.  It's a three-page document. The first page is labeled "Technical Session, TS-02,
1 2 3 4 5 6 7 8	though, that you asked I think that your question asked him to respond whether or not the Commission has in the past addressed divestiture in the statute as being the one that's applicable to those circumstances. So, to the extent that you asked that question, I would suggest that Mr. Traum be allowed to answer.	1 2 3 4 5 6 7 8	A. Q.	Yes, I have.  And are you still of the opinion that  CMSR. HARRINGTON: Excuse me.  Could you further identify which attachment to their testimony it is?  MR. EATON: It's Attachment 4.  It's a three-page document. The first page is
1 2 3 4 5 6 7 8	though, that you asked I think that your question asked him to respond whether or not the Commission has in the past addressed divestiture in the statute as being the one that's applicable to those circumstances. So, to the extent that you asked that question, I would suggest that Mr. Traum be allowed to answer.  CHAIRMAN IGNATIUS: I would	1 2 3 4 5 6 7 8	A. Q.	Yes, I have.  And are you still of the opinion that  CMSR. HARRINGTON: Excuse me.  Could you further identify which attachment to their testimony it is?  MR. EATON: It's Attachment 4.  It's a three-page document. The first page is labeled "Technical Session, TS-02, Q-Tech-014."
1 2 3 4 5 6 7 8 9	though, that you asked I think that your question asked him to respond whether or not the Commission has in the past addressed divestiture in the statute as being the one that's applicable to those circumstances. So, to the extent that you asked that question, I would suggest that Mr. Traum be allowed to answer.  CHAIRMAN IGNATIUS: I would agree with that. I think you asked him for	1 2 3 4 5 6 7 8 9 10	A. Q.	Yes, I have. And are you still of the opinion that CMSR. HARRINGTON: Excuse me. Could you further identify which attachment to their testimony it is? MR. EATON: It's Attachment 4. It's a three-page document. The first page is labeled "Technical Session, TS-02, Q-Tech-014." CMSR. HARRINGTON: Thank you.
1 2 3 4 5 6 7 8 9 10	though, that you asked I think that your question asked him to respond whether or not the Commission has in the past addressed divestiture in the statute as being the one that's applicable to those circumstances. So, to the extent that you asked that question, I would suggest that Mr. Traum be allowed to answer.  CHAIRMAN IGNATIUS: I would agree with that. I think you asked him for his view on a number of statutes. I'm not	1 2 3 4 5 6 7 8 9 10	A. Q. B	Yes, I have. And are you still of the opinion that CMSR. HARRINGTON: Excuse me. Could you further identify which attachment to their testimony it is? MR. EATON: It's Attachment 4. It's a three-page document. The first page is labeled "Technical Session, TS-02, Q-Tech-014." CMSR. HARRINGTON: Thank you. Y MR. EATON:
1 2 3 4 5 6 7 8 9 10 11	though, that you asked I think that your question asked him to respond whether or not the Commission has in the past addressed divestiture in the statute as being the one that's applicable to those circumstances. So, to the extent that you asked that question, I would suggest that Mr. Traum be allowed to answer.  CHAIRMAN IGNATIUS: I would agree with that. I think you asked him for his view on a number of statutes. I'm not sure what the relevance of the Commission's	1 2 3 4 5 6 7 8 9 10 11 12 13	A. Q. B Q.	Yes, I have. And are you still of the opinion that CMSR. HARRINGTON: Excuse me. Could you further identify which attachment to their testimony it is? MR. EATON: It's Attachment 4. It's a three-page document. The first page is labeled "Technical Session, TS-02, Q-Tech-014." CMSR. HARRINGTON: Thank you. Y MR. EATON: And were you able to understand the writing on the third page, Mr. Traum? I sort of, let's say, understood the gist of
1 2 3 4 5 6 7 8 9 10 11 12	though, that you asked I think that your question asked him to respond whether or not the Commission has in the past addressed divestiture in the statute as being the one that's applicable to those circumstances. So, to the extent that you asked that question, I would suggest that Mr. Traum be allowed to answer.  CHAIRMAN IGNATIUS: I would agree with that. I think you asked him for his view on a number of statutes. I'm not sure what the relevance of the Commission's authority on divestiture is to this	1 2 3 4 5 6 7 8 9 10 11 12 13	A. Q. B Q.	Yes, I have. And are you still of the opinion that CMSR. HARRINGTON: Excuse me. Could you further identify which attachment to their testimony it is? MR. EATON: It's Attachment 4. It's a three-page document. The first page is labeled "Technical Session, TS-02, Q-Tech-014." CMSR. HARRINGTON: Thank you. Y MR. EATON: And were you able to understand the writing on the third page, Mr. Traum?
1 2 3 4 5 6 7 8 9 10 11 12 13 14	though, that you asked I think that your question asked him to respond whether or not the Commission has in the past addressed divestiture in the statute as being the one that's applicable to those circumstances. So, to the extent that you asked that question, I would suggest that Mr. Traum be allowed to answer.  CHAIRMAN IGNATIUS: I would agree with that. I think you asked him for his view on a number of statutes. I'm not sure what the relevance of the Commission's authority on divestiture is to this proceeding, however.	1 2 3 4 5 6 7 8 9 10 11 12 13 14	A. Q. B Q. A.	Yes, I have. And are you still of the opinion that CMSR. HARRINGTON: Excuse me. Could you further identify which attachment to their testimony it is? MR. EATON: It's Attachment 4. It's a three-page document. The first page is labeled "Technical Session, TS-02, Q-Tech-014." CMSR. HARRINGTON: Thank you. Y MR. EATON: And were you able to understand the writing on the third page, Mr. Traum? I sort of, let's say, understood the gist of
1 2 3 4 5 6 7 8 9 10 11 12 13 14	though, that you asked I think that your question asked him to respond whether or not the Commission has in the past addressed divestiture in the statute as being the one that's applicable to those circumstances. So, to the extent that you asked that question, I would suggest that Mr. Traum be allowed to answer.  CHAIRMAN IGNATIUS: I would agree with that. I think you asked him for his view on a number of statutes. I'm not sure what the relevance of the Commission's authority on divestiture is to this proceeding, however.  But you may answer the	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Q. B. Q. A.	Yes, I have. And are you still of the opinion that CMSR. HARRINGTON: Excuse me. Could you further identify which attachment to their testimony it is? MR. EATON: It's Attachment 4. It's a three-page document. The first page is labeled "Technical Session, TS-02, Q-Tech-014." CMSR. HARRINGTON: Thank you. Y MR. EATON: And were you able to understand the writing on the third page, Mr. Traum? I sort of, let's say, understood the gist of it. Whether I was able to understand the
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	though, that you asked I think that your question asked him to respond whether or not the Commission has in the past addressed divestiture in the statute as being the one that's applicable to those circumstances. So, to the extent that you asked that question, I would suggest that Mr. Traum be allowed to answer.  CHAIRMAN IGNATIUS: I would agree with that. I think you asked him for his view on a number of statutes. I'm not sure what the relevance of the Commission's authority on divestiture is to this proceeding, however.  But you may answer the question. I'm going to answer the question by saying I do not have a legal opinion on whether or	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Q. B. Q. A.	Yes, I have. And are you still of the opinion that CMSR. HARRINGTON: Excuse me. Could you further identify which attachment to their testimony it is? MR. EATON: It's Attachment 4. It's a three-page document. The first page is labeled "Technical Session, TS-02, Q-Tech-014." CMSR. HARRINGTON: Thank you. Y MR. EATON: And were you able to understand the writing on the third page, Mr. Traum? I sort of, let's say, understood the gist of it. Whether I was able to understand the exact writing, I don't know. I don't recall. And the second page is called what, Mr. Traum?
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 A.	though, that you asked I think that your question asked him to respond whether or not the Commission has in the past addressed divestiture in the statute as being the one that's applicable to those circumstances. So, to the extent that you asked that question, I would suggest that Mr. Traum be allowed to answer.  CHAIRMAN IGNATIUS: I would agree with that. I think you asked him for his view on a number of statutes. I'm not sure what the relevance of the Commission's authority on divestiture is to this proceeding, however.  But you may answer the question by saying I	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. Q. B. Q. A.	Yes, I have. And are you still of the opinion that CMSR. HARRINGTON: Excuse me. Could you further identify which attachment to their testimony it is? MR. EATON: It's Attachment 4. It's a three-page document. The first page is labeled "Technical Session, TS-02, Q-Tech-014." CMSR. HARRINGTON: Thank you. Y MR. EATON: And were you able to understand the writing on the third page, Mr. Traum? I sort of, let's say, understood the gist of it. Whether I was able to understand the exact writing, I don't know. I don't recall. And the second page is called what, Mr. Traum? The second page of that three-page attachment.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 A.	though, that you asked I think that your question asked him to respond whether or not the Commission has in the past addressed divestiture in the statute as being the one that's applicable to those circumstances. So, to the extent that you asked that question, I would suggest that Mr. Traum be allowed to answer.  CHAIRMAN IGNATIUS: I would agree with that. I think you asked him for his view on a number of statutes. I'm not sure what the relevance of the Commission's authority on divestiture is to this proceeding, however.  But you may answer the question. I'm going to answer the question by saying I do not have a legal opinion on whether or not the Commission can, on its on accord, require divestiture. What I think the	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. Q. B. Q. A.	Yes, I have. And are you still of the opinion that CMSR. HARRINGTON: Excuse me. Could you further identify which attachment to their testimony it is? MR. EATON: It's Attachment 4. It's a three-page document. The first page is labeled "Technical Session, TS-02, Q-Tech-014." CMSR. HARRINGTON: Thank you. Y MR. EATON: And were you able to understand the writing on the third page, Mr. Traum? I sort of, let's say, understood the gist of it. Whether I was able to understand the exact writing, I don't know. I don't recall. And the second page is called what, Mr. Traum? The second page of that three-page attachment. This is a PSNH document, and it's labeled,
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 A. 18	though, that you asked I think that your question asked him to respond whether or not the Commission has in the past addressed divestiture in the statute as being the one that's applicable to those circumstances. So, to the extent that you asked that question, I would suggest that Mr. Traum be allowed to answer.  CHAIRMAN IGNATIUS: I would agree with that. I think you asked him for his view on a number of statutes. I'm not sure what the relevance of the Commission's authority on divestiture is to this proceeding, however.  But you may answer the question by saying I do not have a legal opinion on whether or not the Commission can, on its on accord, require divestiture. What I think the Commission could do, if it determined that	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Q. A. Q. A.	Yes, I have. And are you still of the opinion that CMSR. HARRINGTON: Excuse me. Could you further identify which attachment to their testimony it is? MR. EATON: It's Attachment 4. It's a three-page document. The first page is labeled "Technical Session, TS-02, Q-Tech-014." CMSR. HARRINGTON: Thank you. Y MR. EATON: And were you able to understand the writing on the third page, Mr. Traum? I sort of, let's say, understood the gist of it. Whether I was able to understand the exact writing, I don't know. I don't recall. And the second page is called what, Mr. Traum? The second page of that three-page attachment. This is a PSNH document, and it's labeled, "Sole Source Justification Form."
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 A. 18 19 20	though, that you asked I think that your question asked him to respond whether or not the Commission has in the past addressed divestiture in the statute as being the one that's applicable to those circumstances. So, to the extent that you asked that question, I would suggest that Mr. Traum be allowed to answer.  CHAIRMAN IGNATIUS: I would agree with that. I think you asked him for his view on a number of statutes. I'm not sure what the relevance of the Commission's authority on divestiture is to this proceeding, however.  But you may answer the question by saying I do not have a legal opinion on whether or not the Commission can, on its on accord, require divestiture. What I think the Commission could do, if it determined that divestiture was in the ratepayers' best	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Q. A. Q. A.	Yes, I have. And are you still of the opinion that CMSR. HARRINGTON: Excuse me. Could you further identify which attachment to their testimony it is? MR. EATON: It's Attachment 4. It's a three-page document. The first page is labeled "Technical Session, TS-02, Q-Tech-014." CMSR. HARRINGTON: Thank you. Y MR. EATON: And were you able to understand the writing on the third page, Mr. Traum? I sort of, let's say, understood the gist of it. Whether I was able to understand the exact writing, I don't know. I don't recall. And the second page is called what, Mr. Traum? The second page of that three-page attachment. This is a PSNH document, and it's labeled, "Sole Source Justification Form." And the requester is a person identified as J.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 A. 18 19 20 21	though, that you asked I think that your question asked him to respond whether or not the Commission has in the past addressed divestiture in the statute as being the one that's applicable to those circumstances. So, to the extent that you asked that question, I would suggest that Mr. Traum be allowed to answer.  CHAIRMAN IGNATIUS: I would agree with that. I think you asked him for his view on a number of statutes. I'm not sure what the relevance of the Commission's authority on divestiture is to this proceeding, however.  But you may answer the question. I'm going to answer the question by saying I do not have a legal opinion on whether or not the Commission can, on its on accord, require divestiture. What I think the Commission could do, if it determined that divestiture was in the ratepayers' best interests, and PSNH did not want to divest	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Q. A. Q.	Yes, I have. And are you still of the opinion that CMSR. HARRINGTON: Excuse me. Could you further identify which attachment to their testimony it is? MR. EATON: It's Attachment 4. It's a three-page document. The first page is labeled "Technical Session, TS-02, Q-Tech-014." CMSR. HARRINGTON: Thank you. Y MR. EATON: And were you able to understand the writing on the third page, Mr. Traum? I sort of, let's say, understood the gist of it. Whether I was able to understand the exact writing, I don't know. I don't recall. And the second page is called what, Mr. Traum? The second page of that three-page attachment. This is a PSNH document, and it's labeled, "Sole Source Justification Form." And the requester is a person identified as J. TenBrok?
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 A. 18 19 20 21 22	though, that you asked I think that your question asked him to respond whether or not the Commission has in the past addressed divestiture in the statute as being the one that's applicable to those circumstances. So, to the extent that you asked that question, I would suggest that Mr. Traum be allowed to answer.  CHAIRMAN IGNATIUS: I would agree with that. I think you asked him for his view on a number of statutes. I'm not sure what the relevance of the Commission's authority on divestiture is to this proceeding, however.  But you may answer the question by saying I do not have a legal opinion on whether or not the Commission can, on its on accord, require divestiture. What I think the Commission could do, if it determined that divestiture was in the ratepayers' best	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Q. A. Q.	Yes, I have. And are you still of the opinion that CMSR. HARRINGTON: Excuse me. Could you further identify which attachment to their testimony it is? MR. EATON: It's Attachment 4. It's a three-page document. The first page is labeled "Technical Session, TS-02, Q-Tech-014." CMSR. HARRINGTON: Thank you. Y MR. EATON: And were you able to understand the writing on the third page, Mr. Traum? I sort of, let's say, understood the gist of it. Whether I was able to understand the exact writing, I don't know. I don't recall. And the second page is called what, Mr. Traum? The second page of that three-page attachment. This is a PSNH document, and it's labeled, "Sole Source Justification Form." And the requester is a person identified as J.

(603) 622-0068 shortrptr@comcast.net

[WI]	NES	S: Traum] Page 17	[WITN	NES	S: Traum] Page	e 19
	$\circ$	Are you familiar with him?			quantity used day often day. I think	
		Are you familiar with him? Yes.	1		quantity used day after day. I think	
			2		perhaps the point would be that there would	
	_	And who is he?	3		be a smaller number of suppliers willing to	
	A.	He's a PSNH or an NU employee in fuel	4		interact in the manner that we typically do,	
5	^	purchasing.	5		where we want and where we want and reques	st
	Q.	And on the third page, about in the middle of	6		gas delivered on short-term notice."	
7		the page, it states, "Emera has been highly	7		I took that to mean that there is	
8		dependable and flexible, both important	8	_	potentially an additional supplier or more.	
9		attributes required to support Newington	9 (	Q.	Would one be a smaller number than the large	
10		station" "Newington station's widely	10		number of suppliers that Mr. White was talking	ng
11		ranging natural gas needs that are	11		about?	
12		intermittent and mostly unpredictable." Do	12 A	4.	He said "a smaller number of suppliers," so	
13		you agree I've done my best to read that	13		I would take that to mean more than one.	
14		language?		_	Would one be smaller?	
15	A.	I would agree with that.	15 A	4.	One is smaller than two, I'll grant you	
16	Q.	And then, "Repsol, the owner/operator of a	16		that.	
17		large LNG facility in St. Johnsbury, NB, is	17 Ç	Q.	And was Mr. White offered as a fuel buyer for	r
18		dedicated to supplying only a few customers in	18		Newington station?	
19		the Boston area, as most of the LNG tankers	19 A	4.	He was testifying on Newington, on behalf of	
20		supplying the plant have sailed to Europe	20		Public Service.	
21		where the gas market is more profitable." Is	21 (	Q.	Is he a fuel buyer for Public Service, do you	
22		that a fair way of reading that?	22		know?	
23	A.	I believe you read the words correctly.	23 A	4.	I do not recollect. I would assume you	
24	Q.	And the third one is "Shell has shown little	24		would have put up a witness that was	
[WI]	NES	SS: Traum] Page 18	[WITN	NES	SS: Traum] Page	20
	TNES			NES		e 20
1	TNES	interest in supplying gas to PSNH. When asked	1	NES	responsible for the area he was testifying	e 20
1 2	TNES	interest in supplying gas to PSNH. When asked to bid, they have not bid."	1 2		responsible for the area he was testifying in.	e 20
1 2 3	TNES	interest in supplying gas to PSNH. When asked to bid, they have not bid."  So, Mr. Traum, if we can understand	1 2 3 (		responsible for the area he was testifying in. Mr. Traum, could you turn to your	e 20
1 2 3 4	TNES	interest in supplying gas to PSNH. When asked to bid, they have not bid."  So, Mr. Traum, if we can understand this to see there are three suppliers on the	1 2 3 (	Q.	responsible for the area he was testifying in. Mr. Traum, could you turn to your Attachment 2.	e 20
1 2 3 4 5	TNES	interest in supplying gas to PSNH. When asked to bid, they have not bid."  So, Mr. Traum, if we can understand this to see there are three suppliers on the pipeline, and two aren't ready to supply the	1 2 3 (4 5 A	Q. A.	responsible for the area he was testifying in. Mr. Traum, could you turn to your Attachment 2. I have it.	€ 20
1 2 3 4 5 6	TNES	interest in supplying gas to PSNH. When asked to bid, they have not bid."  So, Mr. Traum, if we can understand this to see there are three suppliers on the pipeline, and two aren't ready to supply the needs, are you still of the opinion that	1 2 3 Q 4 5 A 6 Q	Q. A.	responsible for the area he was testifying in. Mr. Traum, could you turn to your Attachment 2. I have it. I'd like you to turn to Page 3. It's Page	e 20
1 2 3 4 5 6 7	NES	interest in supplying gas to PSNH. When asked to bid, they have not bid."  So, Mr. Traum, if we can understand this to see there are three suppliers on the pipeline, and two aren't ready to supply the needs, are you still of the opinion that PSNH shouldn't be sole sourcing the gas	1 2 3 (4 5 A 6 (7	Q. A. Q.	responsible for the area he was testifying in. Mr. Traum, could you turn to your Attachment 2. I have it. I'd like you to turn to Page 3. It's Page No. 49 of your testimony attachments.	€ 20
1 2 3 4 5 6 7 8		interest in supplying gas to PSNH. When asked to bid, they have not bid."  So, Mr. Traum, if we can understand this to see there are three suppliers on the pipeline, and two aren't ready to supply the needs, are you still of the opinion that PSNH shouldn't be sole sourcing the gas supply?	1 2 3 C 4 5 A 6 C 7 8 A	Q. A. Q.	responsible for the area he was testifying in. Mr. Traum, could you turn to your Attachment 2. I have it. I'd like you to turn to Page 3. It's Page No. 49 of your testimony attachments. I have it.	€ 20
1 2 3 4 5 6 7 8	A.	interest in supplying gas to PSNH. When asked to bid, they have not bid."  So, Mr. Traum, if we can understand this to see there are three suppliers on the pipeline, and two aren't ready to supply the needs, are you still of the opinion that PSNH shouldn't be sole sourcing the gas supply?  That seems to be in contradiction to what	1 2 3 Q 4 5 A 6 Q 7 8 A 9 Q	Q. A. Q. A. Q.	responsible for the area he was testifying in.  Mr. Traum, could you turn to your Attachment 2.  I have it.  I'd like you to turn to Page 3. It's Page No. 49 of your testimony attachments. I have it.  And there's a table on that page; correct?	€ 20
1 2 3 4 5 6 7 8 9		interest in supplying gas to PSNH. When asked to bid, they have not bid."  So, Mr. Traum, if we can understand this to see there are three suppliers on the pipeline, and two aren't ready to supply the needs, are you still of the opinion that PSNH shouldn't be sole sourcing the gas supply?  That seems to be in contradiction to what PSNH Witness White had said in response to	1 2 3 Q 4 5 A 6 Q 7 8 A 9 Q 10 A	Q. A. Q. A. Q.	responsible for the area he was testifying in. Mr. Traum, could you turn to your Attachment 2. I have it. I'd like you to turn to Page 3. It's Page No. 49 of your testimony attachments. I have it. And there's a table on that page; correct? Yes.	e 20
1 2 3 4 5 6 7 8 9 10		interest in supplying gas to PSNH. When asked to bid, they have not bid."  So, Mr. Traum, if we can understand this to see there are three suppliers on the pipeline, and two aren't ready to supply the needs, are you still of the opinion that PSNH shouldn't be sole sourcing the gas supply?  That seems to be in contradiction to what PSNH Witness White had said in response to some questions you had of him in Docket DE	1 2 3 Q 4 5 A 6 Q 7 8 A 9 Q 10 A 11 Q	Q. A. Q. A. Q.	responsible for the area he was testifying in. Mr. Traum, could you turn to your Attachment 2. I have it. I'd like you to turn to Page 3. It's Page No. 49 of your testimony attachments. I have it. And there's a table on that page; correct? Yes. And that table has certain proposal dates and	€ 20
1 2 3 4 5 6 7 8 9 10 11		interest in supplying gas to PSNH. When asked to bid, they have not bid."  So, Mr. Traum, if we can understand this to see there are three suppliers on the pipeline, and two aren't ready to supply the needs, are you still of the opinion that PSNH shouldn't be sole sourcing the gas supply?  That seems to be in contradiction to what PSNH Witness White had said in response to some questions you had of him in Docket DE 10-257 on June 23rd, 2011. On Page 48 and	1 2 3 Q 4 5 A 6 Q 7 8 A 9 Q 10 A 11 Q 12	Q. A. Q. A. Q. A.	responsible for the area he was testifying in. Mr. Traum, could you turn to your Attachment 2. I have it. I'd like you to turn to Page 3. It's Page No. 49 of your testimony attachments. I have it. And there's a table on that page; correct? Yes. And that table has certain proposal dates and final rule dates?	€ 20
1 2 3 4 5 6 7 8 9 10 11 12		interest in supplying gas to PSNH. When asked to bid, they have not bid."  So, Mr. Traum, if we can understand this to see there are three suppliers on the pipeline, and two aren't ready to supply the needs, are you still of the opinion that PSNH shouldn't be sole sourcing the gas supply?  That seems to be in contradiction to what PSNH Witness White had said in response to some questions you had of him in Docket DE 10-257 on June 23rd, 2011. On Page 48 and 49 of that transcript, you asked him, and	1 2 3 Q 4 5 A 6 Q 7 8 A 9 Q 10 A 11 Q 12 13 A	Q. A. Q. A. Q. A.	responsible for the area he was testifying in.  Mr. Traum, could you turn to your Attachment 2.  I have it.  I'd like you to turn to Page 3. It's Page No. 49 of your testimony attachments. I have it.  And there's a table on that page; correct?  Yes.  And that table has certain proposal dates and final rule dates?  Yes, it does.	⊋ 20
1 2 3 4 5 6 7 8 9 10 11 12 13 14		interest in supplying gas to PSNH. When asked to bid, they have not bid."  So, Mr. Traum, if we can understand this to see there are three suppliers on the pipeline, and two aren't ready to supply the needs, are you still of the opinion that PSNH shouldn't be sole sourcing the gas supply?  That seems to be in contradiction to what PSNH Witness White had said in response to some questions you had of him in Docket DE 10-257 on June 23rd, 2011. On Page 48 and 49 of that transcript, you asked him, and I'll just quote: "The Consumer Advocate,	1 2 3 Q 4 5 A 6 Q 7 8 A 9 Q 10 A 11 Q 12 13 A 14 Q	Q. A. Q. A. Q. A.	responsible for the area he was testifying in.  Mr. Traum, could you turn to your Attachment 2. I have it. I'd like you to turn to Page 3. It's Page No. 49 of your testimony attachments. I have it. And there's a table on that page; correct? Yes. And that table has certain proposal dates and final rule dates? Yes, it does. And how many proposal dates come after	€ 20
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		interest in supplying gas to PSNH. When asked to bid, they have not bid."  So, Mr. Traum, if we can understand this to see there are three suppliers on the pipeline, and two aren't ready to supply the needs, are you still of the opinion that PSNH shouldn't be sole sourcing the gas supply?  That seems to be in contradiction to what PSNH Witness White had said in response to some questions you had of him in Docket DE 10-257 on June 23rd, 2011. On Page 48 and 49 of that transcript, you asked him, and I'll just quote: "The Consumer Advocate, Attorney Hatfield, asked you questions about	1 2 3 Q 4 5 A 6 Q 7 8 A 9 Q 10 A 11 Q 12 13 A 14 Q 15	Q. A. Q. A. Q. A.	responsible for the area he was testifying in.  Mr. Traum, could you turn to your Attachment 2. I have it. I'd like you to turn to Page 3. It's Page No. 49 of your testimony attachments. I have it. And there's a table on that page; correct? Yes. And that table has certain proposal dates and final rule dates? Yes, it does. And how many proposal dates come after September 30th, 2010?	€ 20
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		interest in supplying gas to PSNH. When asked to bid, they have not bid."  So, Mr. Traum, if we can understand this to see there are three suppliers on the pipeline, and two aren't ready to supply the needs, are you still of the opinion that PSNH shouldn't be sole sourcing the gas supply?  That seems to be in contradiction to what PSNH Witness White had said in response to some questions you had of him in Docket DE 10-257 on June 23rd, 2011. On Page 48 and 49 of that transcript, you asked him, and I'll just quote: "The Consumer Advocate, Attorney Hatfield, asked you questions about having a single supplier for natural gas,	1 2 3 Q 4 5 A 6 Q 7 8 A 9 Q 10 A 11 Q 12 13 A 14 Q 15 16	Q. A. Q. A. Q. A. Q.	responsible for the area he was testifying in.  Mr. Traum, could you turn to your Attachment 2. I have it. I'd like you to turn to Page 3. It's Page No. 49 of your testimony attachments. I have it. And there's a table on that page; correct? Yes. And that table has certain proposal dates and final rule dates? Yes, it does. And how many proposal dates come after September 30th, 2010? (Witness reviews document.)	€ 20
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17		interest in supplying gas to PSNH. When asked to bid, they have not bid."  So, Mr. Traum, if we can understand this to see there are three suppliers on the pipeline, and two aren't ready to supply the needs, are you still of the opinion that PSNH shouldn't be sole sourcing the gas supply?  That seems to be in contradiction to what PSNH Witness White had said in response to some questions you had of him in Docket DE 10-257 on June 23rd, 2011. On Page 48 and 49 of that transcript, you asked him, and I'll just quote: "The Consumer Advocate, Attorney Hatfield, asked you questions about having a single supplier for natural gas, and then you just mentioned that your use of	1 2 3 Q 4 5 A 6 Q 7 8 A 9 Q 10 A 11 Q 12 13 A 14 Q 15 16 17 A	Q. A. Q. A. Q. A. Q.	responsible for the area he was testifying in.  Mr. Traum, could you turn to your Attachment 2. I have it. I'd like you to turn to Page 3. It's Page No. 49 of your testimony attachments. I have it. And there's a table on that page; correct? Yes. And that table has certain proposal dates and final rule dates? Yes, it does. And how many proposal dates come after September 30th, 2010? (Witness reviews document.) I believe five.	€ 20
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		interest in supplying gas to PSNH. When asked to bid, they have not bid."  So, Mr. Traum, if we can understand this to see there are three suppliers on the pipeline, and two aren't ready to supply the needs, are you still of the opinion that PSNH shouldn't be sole sourcing the gas supply?  That seems to be in contradiction to what PSNH Witness White had said in response to some questions you had of him in Docket DE 10-257 on June 23rd, 2011. On Page 48 and 49 of that transcript, you asked him, and I'll just quote: "The Consumer Advocate, Attorney Hatfield, asked you questions about having a single supplier for natural gas, and then you just mentioned that your use of gas at Newington is, quote, intermittent,	1 2 3 Q 4 5 A 6 Q 7 8 A 9 Q 10 A 11 Q 12 13 A 14 Q 15 16 17 A 18 Q	Q. A. Q. A. Q. A. Q.	responsible for the area he was testifying in.  Mr. Traum, could you turn to your Attachment 2. I have it. I'd like you to turn to Page 3. It's Page No. 49 of your testimony attachments. I have it. And there's a table on that page; correct? Yes. And that table has certain proposal dates and final rule dates? Yes, it does. And how many proposal dates come after September 30th, 2010? (Witness reviews document.) I believe five. Okay. And as far as the transport rule, the	€ 20
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		interest in supplying gas to PSNH. When asked to bid, they have not bid."  So, Mr. Traum, if we can understand this to see there are three suppliers on the pipeline, and two aren't ready to supply the needs, are you still of the opinion that PSNH shouldn't be sole sourcing the gas supply?  That seems to be in contradiction to what PSNH Witness White had said in response to some questions you had of him in Docket DE 10-257 on June 23rd, 2011. On Page 48 and 49 of that transcript, you asked him, and I'll just quote: "The Consumer Advocate, Attorney Hatfield, asked you questions about having a single supplier for natural gas, and then you just mentioned that your use of gas at Newington is, quote, intermittent, unquote. Do all gas suppliers serve a load	1 2 3 Q 4 5 A 6 Q 7 8 A 9 Q 10 A 11 Q 12 13 A 14 Q 15 16 17 A 18 Q 19	Q. A. Q. A. Q. A. Q.	responsible for the area he was testifying in.  Mr. Traum, could you turn to your Attachment 2. I have it. I'd like you to turn to Page 3. It's Page No. 49 of your testimony attachments. I have it. And there's a table on that page; correct? Yes. And that table has certain proposal dates and final rule dates? Yes, it does. And how many proposal dates come after September 30th, 2010?  (Witness reviews document.) I believe five. Okay. And as far as the transport rule, the first one that was listed there, that date	€ 20
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		interest in supplying gas to PSNH. When asked to bid, they have not bid."  So, Mr. Traum, if we can understand this to see there are three suppliers on the pipeline, and two aren't ready to supply the needs, are you still of the opinion that PSNH shouldn't be sole sourcing the gas supply?  That seems to be in contradiction to what PSNH Witness White had said in response to some questions you had of him in Docket DE 10-257 on June 23rd, 2011. On Page 48 and 49 of that transcript, you asked him, and I'll just quote: "The Consumer Advocate, Attorney Hatfield, asked you questions about having a single supplier for natural gas, and then you just mentioned that your use of gas at Newington is, quote, intermittent, unquote. Do all gas suppliers serve a load like Newington on an interruptible basis,	1 2 3 Q 4 5 A 6 Q 7 8 A 9 Q 10 A 11 Q 12 13 A 14 Q 15 16 17 A 18 Q 19 20	Q. A. Q. A. Q. A. Q.	responsible for the area he was testifying in.  Mr. Traum, could you turn to your Attachment 2. I have it. I'd like you to turn to Page 3. It's Page No. 49 of your testimony attachments. I have it. And there's a table on that page; correct? Yes. And that table has certain proposal dates and final rule dates? Yes, it does. And how many proposal dates come after September 30th, 2010? (Witness reviews document.) I believe five. Okay. And as far as the transport rule, the first one that was listed there, that date let me start again.	€ 20
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		interest in supplying gas to PSNH. When asked to bid, they have not bid."  So, Mr. Traum, if we can understand this to see there are three suppliers on the pipeline, and two aren't ready to supply the needs, are you still of the opinion that PSNH shouldn't be sole sourcing the gas supply?  That seems to be in contradiction to what PSNH Witness White had said in response to some questions you had of him in Docket DE 10-257 on June 23rd, 2011. On Page 48 and 49 of that transcript, you asked him, and I'll just quote: "The Consumer Advocate, Attorney Hatfield, asked you questions about having a single supplier for natural gas, and then you just mentioned that your use of gas at Newington is, quote, intermittent, unquote. Do all gas suppliers serve a load like Newington on an interruptible basis, and, as you said, quote, intermittent?	1 2 3 Q 4 5 A 6 Q 7 8 A 9 Q 11 Q 12 13 A 14 Q 15 16 17 A 18 Q 19 20 21	Q. A. Q. A. Q. A. Q.	responsible for the area he was testifying in.  Mr. Traum, could you turn to your Attachment 2. I have it. I'd like you to turn to Page 3. It's Page No. 49 of your testimony attachments. I have it. And there's a table on that page; correct? Yes. And that table has certain proposal dates and final rule dates? Yes, it does. And how many proposal dates come after September 30th, 2010? (Witness reviews document.) I believe five. Okay. And as far as the transport rule, the first one that was listed there, that date let me start again. As far as the transport rule is	€ 20
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		interest in supplying gas to PSNH. When asked to bid, they have not bid."  So, Mr. Traum, if we can understand this to see there are three suppliers on the pipeline, and two aren't ready to supply the needs, are you still of the opinion that PSNH shouldn't be sole sourcing the gas supply?  That seems to be in contradiction to what PSNH Witness White had said in response to some questions you had of him in Docket DE 10-257 on June 23rd, 2011. On Page 48 and 49 of that transcript, you asked him, and I'll just quote: "The Consumer Advocate, Attorney Hatfield, asked you questions about having a single supplier for natural gas, and then you just mentioned that your use of gas at Newington is, quote, intermittent, unquote. Do all gas suppliers serve a load like Newington on an interruptible basis, and, as you said, quote, intermittent?  Answer from Mr. White: "Well, I think	1 2 3 Q 4 5 A 6 Q 7 8 A 9 Q 10 A 11 Q 15 16 17 A 18 Q 19 20 21 22	Q. A. Q. A. Q. A. Q.	responsible for the area he was testifying in.  Mr. Traum, could you turn to your Attachment 2. I have it. I'd like you to turn to Page 3. It's Page No. 49 of your testimony attachments. I have it. And there's a table on that page; correct? Yes. And that table has certain proposal dates and final rule dates? Yes, it does. And how many proposal dates come after September 30th, 2010? (Witness reviews document.) I believe five. Okay. And as far as the transport rule, the first one that was listed there, that date let me start again. As far as the transport rule is concerned, is it your understanding that	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		interest in supplying gas to PSNH. When asked to bid, they have not bid."  So, Mr. Traum, if we can understand this to see there are three suppliers on the pipeline, and two aren't ready to supply the needs, are you still of the opinion that PSNH shouldn't be sole sourcing the gas supply?  That seems to be in contradiction to what PSNH Witness White had said in response to some questions you had of him in Docket DE 10-257 on June 23rd, 2011. On Page 48 and 49 of that transcript, you asked him, and I'll just quote: "The Consumer Advocate, Attorney Hatfield, asked you questions about having a single supplier for natural gas, and then you just mentioned that your use of gas at Newington is, quote, intermittent, unquote. Do all gas suppliers serve a load like Newington on an interruptible basis, and, as you said, quote, intermittent?	1 2 3 Q 4 5 A 6 Q 7 8 A 9 Q 11 Q 12 13 A 14 Q 15 16 17 A 18 Q 19 20 21	Q. A. Q. A. Q. A. Q.	responsible for the area he was testifying in.  Mr. Traum, could you turn to your Attachment 2. I have it. I'd like you to turn to Page 3. It's Page No. 49 of your testimony attachments. I have it. And there's a table on that page; correct? Yes. And that table has certain proposal dates and final rule dates? Yes, it does. And how many proposal dates come after September 30th, 2010? (Witness reviews document.) I believe five. Okay. And as far as the transport rule, the first one that was listed there, that date let me start again. As far as the transport rule is	

[WIT	NES	SS: Traum] Page 21			SS: Traum] Page 23
			-		
	A.	And I guess here's where we get right down	1		concerning reasonably foreseeable regulatory
2		to the bottom one on this particular issue.	2		changes?
3		As I said on Page 4 of my testimony,		A.	What I heard from the witness, Dr. Ran
4		I'm not offering expert testimony on the	4		and excuse me, your last name this
5		specifics of environmental regulations and	5		morning that I agree with, is that it
6		what they require. On Page 5, I said I	6		appears as though there's information out
7		brought two resources to the Commission's	7		there in the public domain now that PSNH
8		attention. That was the only purpose. I'm	8		could at least be looking at to develop
9		not saying I'm an expert in this. You've	9		ballpark estimates, different scenarios,
10		heard other experts in this area earlier	10		without having to spend extensive dollars on
11	0	today.	11	0	engineering studies.
12	Ų.	Mr. Traum, do you think that PSNH's planning		Q.	And is there anything in the record to suggest
13		in environmental matters should be "more	13		that PSNH doesn't look at information that's
14	٨	robust"? Is that a term you used?	14		readily available and make assessments in
15	A.	I'm not sure if I used that exact	15		strategic planning as to how to operate their
16		MS. HOLLENBERG: Could you point	16		plants and plan for the future?
17		the witness I'm sorry, Mr. Eaton. Could	17		MS. HOLLENBERG: Excuse me. I
18		you please point the witness to the reference	18		guess I'm going to object to that question, and I'll defer to the Commission. But it
19		you're making to his testimony?  MR. EATON: I don't have a	19		
20			20		seems odd that the Company's attorney would be
21		direct cite to the testimony. If he doesn't	21		asking my witness if there's anything in the
22		agree with the characterization, perhaps he	22		record. I think the record speaks for itself.  And to the extent that Mr. Eaton wants to make
23		can I was going to ask him what would he what? Page 16.	_		
24		what? Fage 10.	24		an argument based on what is or is not in the
[WIT	NES	SS: Traum] Page 22	[WI	TNES	SS: Traum] Page 24
	NES				
1		(Witness reviews document.)	1		record, he can do that in closing arguments.
1 2		(Witness reviews document.) You're referring to Page 16, Line 17. And I	1 2		record, he can do that in closing arguments. CHAIRMAN IGNATIUS: Well, I
1 2 3		(Witness reviews document.) You're referring to Page 16, Line 17. And I would agree that the planning process must	1 2 3		record, he can do that in closing arguments.  CHAIRMAN IGNATIUS: Well, I think it's a fair follow-up on Mr. Traum's
1 2 3 4		(Witness reviews document.) You're referring to Page 16, Line 17. And I would agree that the planning process must be more robust in order to protect	1 2 3 4		record, he can do that in closing arguments.  CHAIRMAN IGNATIUS: Well, I think it's a fair follow-up on Mr. Traum's statement that these are things that ought to
1 2 3 4 5	A.	(Witness reviews document.) You're referring to Page 16, Line 17. And I would agree that the planning process must be more robust in order to protect ratepayers.	1 2 3		record, he can do that in closing arguments.  CHAIRMAN IGNATIUS: Well, I think it's a fair follow-up on Mr. Traum's statement that these are things that ought to be included in the Plan, suggesting that
1 2 3 4 5 6	A. Q.	(Witness reviews document.) You're referring to Page 16, Line 17. And I would agree that the planning process must be more robust in order to protect ratepayers. And what does that include?	1 2 3 4 5		record, he can do that in closing arguments.  CHAIRMAN IGNATIUS: Well, I think it's a fair follow-up on Mr. Traum's statement that these are things that ought to be included in the Plan, suggesting that they're not now included. So
1 2 3 4 5 6 7	A.	(Witness reviews document.) You're referring to Page 16, Line 17. And I would agree that the planning process must be more robust in order to protect ratepayers. And what does that include? The planning process should incorporate	1 2 3 4 5 6 7		record, he can do that in closing arguments.  CHAIRMAN IGNATIUS: Well, I think it's a fair follow-up on Mr. Traum's statement that these are things that ought to be included in the Plan, suggesting that they're not now included. So  And I can say, based on information say,
1 2 3 4 5 6 7 8	A. Q.	(Witness reviews document.) You're referring to Page 16, Line 17. And I would agree that the planning process must be more robust in order to protect ratepayers. And what does that include? The planning process should incorporate reasonably anticipated regulatory change	1 2 3 4 5		record, he can do that in closing arguments.  CHAIRMAN IGNATIUS: Well, I think it's a fair follow-up on Mr. Traum's statement that these are things that ought to be included in the Plan, suggesting that they're not now included. So  And I can say, based on information say, for instance, the rebuttal testimony of Mr.
1 2 3 4 5 6 7 8	A. Q.	(Witness reviews document.) You're referring to Page 16, Line 17. And I would agree that the planning process must be more robust in order to protect ratepayers. And what does that include? The planning process should incorporate reasonably anticipated regulatory change impacts on O & M costs and capital costs for	1 2 3 4 5 6 7 8		record, he can do that in closing arguments.  CHAIRMAN IGNATIUS: Well, I think it's a fair follow-up on Mr. Traum's statement that these are things that ought to be included in the Plan, suggesting that they're not now included. So  And I can say, based on information say,
1 2 3 4 5 6 7 8 9	A. Q.	(Witness reviews document.) You're referring to Page 16, Line 17. And I would agree that the planning process must be more robust in order to protect ratepayers. And what does that include? The planning process should incorporate reasonably anticipated regulatory change impacts on O & M costs and capital costs for PSNH's generating units. It should include	1 2 3 4 5 6 7 8		record, he can do that in closing arguments.  CHAIRMAN IGNATIUS: Well, I think it's a fair follow-up on Mr. Traum's statement that these are things that ought to be included in the Plan, suggesting that they're not now included. So  And I can say, based on information say, for instance, the rebuttal testimony of Mr. Smagula and Ms. Tillotson it seemed to indicate for at least Least Cost Plan
1 2 3 4 5 6 7 8 9 10	A. Q.	(Witness reviews document.) You're referring to Page 16, Line 17. And I would agree that the planning process must be more robust in order to protect ratepayers. And what does that include? The planning process should incorporate reasonably anticipated regulatory change impacts on O & M costs and capital costs for PSNH's generating units. It should include things like forecasts of new installations	1 2 3 4 5 6 7 8 9 10		record, he can do that in closing arguments.  CHAIRMAN IGNATIUS: Well, I think it's a fair follow-up on Mr. Traum's statement that these are things that ought to be included in the Plan, suggesting that they're not now included. So And I can say, based on information say, for instance, the rebuttal testimony of Mr. Smagula and Ms. Tillotson it seemed to indicate for at least Least Cost Plan purposes, the Company is using a known and
1 2 3 4 5 6 7 8 9 10 11	A. Q.	(Witness reviews document.) You're referring to Page 16, Line 17. And I would agree that the planning process must be more robust in order to protect ratepayers. And what does that include? The planning process should incorporate reasonably anticipated regulatory change impacts on O & M costs and capital costs for PSNH's generating units. It should include things like forecasts of new installations of distributed generation, more rigorous	1 2 3 4 5 6 7 8 9	A.	record, he can do that in closing arguments.  CHAIRMAN IGNATIUS: Well, I think it's a fair follow-up on Mr. Traum's statement that these are things that ought to be included in the Plan, suggesting that they're not now included. So And I can say, based on information say, for instance, the rebuttal testimony of Mr. Smagula and Ms. Tillotson it seemed to indicate for at least Least Cost Plan purposes, the Company is using a known and quantifiable measure for regulatory changes.
1 2 3 4 5 6 7 8 9 10 11 12 13	A. Q.	(Witness reviews document.) You're referring to Page 16, Line 17. And I would agree that the planning process must be more robust in order to protect ratepayers. And what does that include? The planning process should incorporate reasonably anticipated regulatory change impacts on O & M costs and capital costs for PSNH's generating units. It should include things like forecasts of new installations of distributed generation, more rigorous forecasts of PSNH's generating costs,	1 2 3 4 5 6 7 8 9 10 11 12 13	A.	record, he can do that in closing arguments.  CHAIRMAN IGNATIUS: Well, I think it's a fair follow-up on Mr. Traum's statement that these are things that ought to be included in the Plan, suggesting that they're not now included. So And I can say, based on information say, for instance, the rebuttal testimony of Mr. Smagula and Ms. Tillotson it seemed to indicate for at least Least Cost Plan purposes, the Company is using a known and quantifiable measure for regulatory changes. Y MR. EATON:
1 2 3 4 5 6 7 8 9 10 11 12 13	A. Q.	(Witness reviews document.) You're referring to Page 16, Line 17. And I would agree that the planning process must be more robust in order to protect ratepayers. And what does that include? The planning process should incorporate reasonably anticipated regulatory change impacts on O & M costs and capital costs for PSNH's generating units. It should include things like forecasts of new installations of distributed generation, more rigorous forecasts of PSNH's generating costs, incremental as well as all in. It should	1 2 3 4 5 6 7 8 9 10 11 12 13	A.	record, he can do that in closing arguments.  CHAIRMAN IGNATIUS: Well, I think it's a fair follow-up on Mr. Traum's statement that these are things that ought to be included in the Plan, suggesting that they're not now included. So And I can say, based on information say, for instance, the rebuttal testimony of Mr. Smagula and Ms. Tillotson it seemed to indicate for at least Least Cost Plan purposes, the Company is using a known and quantifiable measure for regulatory changes. Y MR. EATON: Do you have the PSNH Exhibit 1, the Least Cost
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Q.	(Witness reviews document.) You're referring to Page 16, Line 17. And I would agree that the planning process must be more robust in order to protect ratepayers. And what does that include? The planning process should incorporate reasonably anticipated regulatory change impacts on O & M costs and capital costs for PSNH's generating units. It should include things like forecasts of new installations of distributed generation, more rigorous forecasts of PSNH's generating costs, incremental as well as all in. It should include updated degree-day data, base case	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. BY	record, he can do that in closing arguments.  CHAIRMAN IGNATIUS: Well, I think it's a fair follow-up on Mr. Traum's statement that these are things that ought to be included in the Plan, suggesting that they're not now included. So And I can say, based on information say, for instance, the rebuttal testimony of Mr. Smagula and Ms. Tillotson it seemed to indicate for at least Least Cost Plan purposes, the Company is using a known and quantifiable measure for regulatory changes. Y MR. EATON:
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Q.	(Witness reviews document.) You're referring to Page 16, Line 17. And I would agree that the planning process must be more robust in order to protect ratepayers. And what does that include? The planning process should incorporate reasonably anticipated regulatory change impacts on O & M costs and capital costs for PSNH's generating units. It should include things like forecasts of new installations of distributed generation, more rigorous forecasts of PSNH's generating costs, incremental as well as all in. It should include updated degree-day data, base case migration case, incorporate targeted	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. BY Q. A.	record, he can do that in closing arguments.  CHAIRMAN IGNATIUS: Well, I think it's a fair follow-up on Mr. Traum's statement that these are things that ought to be included in the Plan, suggesting that they're not now included. So And I can say, based on information say, for instance, the rebuttal testimony of Mr. Smagula and Ms. Tillotson it seemed to indicate for at least Least Cost Plan purposes, the Company is using a known and quantifiable measure for regulatory changes. Y MR. EATON: Do you have the PSNH Exhibit 1, the Least Cost Plan, in front of you? I do now.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Q.	(Witness reviews document.) You're referring to Page 16, Line 17. And I would agree that the planning process must be more robust in order to protect ratepayers. And what does that include? The planning process should incorporate reasonably anticipated regulatory change impacts on O & M costs and capital costs for PSNH's generating units. It should include things like forecasts of new installations of distributed generation, more rigorous forecasts of PSNH's generating costs, incremental as well as all in. It should include updated degree-day data, base case migration case, incorporate targeted spending for system benefit charges. And	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. BY Q. A.	record, he can do that in closing arguments.  CHAIRMAN IGNATIUS: Well, I think it's a fair follow-up on Mr. Traum's statement that these are things that ought to be included in the Plan, suggesting that they're not now included. So And I can say, based on information say, for instance, the rebuttal testimony of Mr. Smagula and Ms. Tillotson it seemed to indicate for at least Least Cost Plan purposes, the Company is using a known and quantifiable measure for regulatory changes. Y MR. EATON: Do you have the PSNH Exhibit 1, the Least Cost Plan, in front of you?
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Q.	(Witness reviews document.) You're referring to Page 16, Line 17. And I would agree that the planning process must be more robust in order to protect ratepayers. And what does that include? The planning process should incorporate reasonably anticipated regulatory change impacts on O & M costs and capital costs for PSNH's generating units. It should include things like forecasts of new installations of distributed generation, more rigorous forecasts of PSNH's generating costs, incremental as well as all in. It should include updated degree-day data, base case migration case, incorporate targeted spending for system benefit charges. And also what I'm recommending for more robust	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. B. Q. A. Q. A.	record, he can do that in closing arguments.  CHAIRMAN IGNATIUS: Well, I think it's a fair follow-up on Mr. Traum's statement that these are things that ought to be included in the Plan, suggesting that they're not now included. So And I can say, based on information say, for instance, the rebuttal testimony of Mr. Smagula and Ms. Tillotson it seemed to indicate for at least Least Cost Plan purposes, the Company is using a known and quantifiable measure for regulatory changes. Y MR. EATON: Do you have the PSNH Exhibit 1, the Least Cost Plan, in front of you? I do now. You do have it? Yes.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. Q.	(Witness reviews document.) You're referring to Page 16, Line 17. And I would agree that the planning process must be more robust in order to protect ratepayers. And what does that include? The planning process should incorporate reasonably anticipated regulatory change impacts on O & M costs and capital costs for PSNH's generating units. It should include things like forecasts of new installations of distributed generation, more rigorous forecasts of PSNH's generating costs, incremental as well as all in. It should include updated degree-day data, base case migration case, incorporate targeted spending for system benefit charges. And also what I'm recommending for more robust is new CUO studies for Newington, Schiller	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. BY Q. A. Q. A. Q.	record, he can do that in closing arguments.  CHAIRMAN IGNATIUS: Well, I think it's a fair follow-up on Mr. Traum's statement that these are things that ought to be included in the Plan, suggesting that they're not now included. So And I can say, based on information say, for instance, the rebuttal testimony of Mr. Smagula and Ms. Tillotson it seemed to indicate for at least Least Cost Plan purposes, the Company is using a known and quantifiable measure for regulatory changes. Y MR. EATON: Do you have the PSNH Exhibit 1, the Least Cost Plan, in front of you? I do now. You do have it? Yes. Could you turn to Page 137.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Q.	(Witness reviews document.) You're referring to Page 16, Line 17. And I would agree that the planning process must be more robust in order to protect ratepayers. And what does that include? The planning process should incorporate reasonably anticipated regulatory change impacts on O & M costs and capital costs for PSNH's generating units. It should include things like forecasts of new installations of distributed generation, more rigorous forecasts of PSNH's generating costs, incremental as well as all in. It should include updated degree-day data, base case migration case, incorporate targeted spending for system benefit charges. And also what I'm recommending for more robust is new CUO studies for Newington, Schiller and Merrimack that would include things like	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A.  B. Q. A. Q. A. Q. A.	record, he can do that in closing arguments.  CHAIRMAN IGNATIUS: Well, I think it's a fair follow-up on Mr. Traum's statement that these are things that ought to be included in the Plan, suggesting that they're not now included. So And I can say, based on information say, for instance, the rebuttal testimony of Mr. Smagula and Ms. Tillotson it seemed to indicate for at least Least Cost Plan purposes, the Company is using a known and quantifiable measure for regulatory changes. Y MR. EATON: Do you have the PSNH Exhibit 1, the Least Cost Plan, in front of you? I do now. You do have it? Yes. Could you turn to Page 137. Yes, I'm there.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Q.	(Witness reviews document.) You're referring to Page 16, Line 17. And I would agree that the planning process must be more robust in order to protect ratepayers. And what does that include? The planning process should incorporate reasonably anticipated regulatory change impacts on O & M costs and capital costs for PSNH's generating units. It should include things like forecasts of new installations of distributed generation, more rigorous forecasts of PSNH's generating costs, incremental as well as all in. It should include updated degree-day data, base case migration case, incorporate targeted spending for system benefit charges. And also what I'm recommending for more robust is new CUO studies for Newington, Schiller and Merrimack that would include things like reasonably foreseeable regulatory changes in	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A.  B. Q. A. Q. A. Q. A.	record, he can do that in closing arguments.  CHAIRMAN IGNATIUS: Well, I think it's a fair follow-up on Mr. Traum's statement that these are things that ought to be included in the Plan, suggesting that they're not now included. So And I can say, based on information say, for instance, the rebuttal testimony of Mr. Smagula and Ms. Tillotson it seemed to indicate for at least Least Cost Plan purposes, the Company is using a known and quantifiable measure for regulatory changes. Y MR. EATON: Do you have the PSNH Exhibit 1, the Least Cost Plan, in front of you? I do now. You do have it? Yes. Could you turn to Page 137. Yes, I'm there. And the first sentence of the last paragraph
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Q.	(Witness reviews document.) You're referring to Page 16, Line 17. And I would agree that the planning process must be more robust in order to protect ratepayers. And what does that include? The planning process should incorporate reasonably anticipated regulatory change impacts on O & M costs and capital costs for PSNH's generating units. It should include things like forecasts of new installations of distributed generation, more rigorous forecasts of PSNH's generating costs, incremental as well as all in. It should include updated degree-day data, base case migration case, incorporate targeted spending for system benefit charges. And also what I'm recommending for more robust is new CUO studies for Newington, Schiller and Merrimack that would include things like reasonably foreseeable regulatory changes in different pricing scenarios and divestiture	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A.  B. Q. A. Q. A. Q. A.	record, he can do that in closing arguments.  CHAIRMAN IGNATIUS: Well, I think it's a fair follow-up on Mr. Traum's statement that these are things that ought to be included in the Plan, suggesting that they're not now included. So And I can say, based on information say, for instance, the rebuttal testimony of Mr. Smagula and Ms. Tillotson it seemed to indicate for at least Least Cost Plan purposes, the Company is using a known and quantifiable measure for regulatory changes. Y MR. EATON: Do you have the PSNH Exhibit 1, the Least Cost Plan, in front of you? I do now. You do have it? Yes. Could you turn to Page 137. Yes, I'm there. And the first sentence of the last paragraph says, "A subgroup of PSNH generation
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Q. A.	(Witness reviews document.) You're referring to Page 16, Line 17. And I would agree that the planning process must be more robust in order to protect ratepayers. And what does that include? The planning process should incorporate reasonably anticipated regulatory change impacts on O & M costs and capital costs for PSNH's generating units. It should include things like forecasts of new installations of distributed generation, more rigorous forecasts of PSNH's generating costs, incremental as well as all in. It should include updated degree-day data, base case migration case, incorporate targeted spending for system benefit charges. And also what I'm recommending for more robust is new CUO studies for Newington, Schiller and Merrimack that would include things like reasonably foreseeable regulatory changes in	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A.  BY Q. A. Q. A. Q. A. Q.	record, he can do that in closing arguments.  CHAIRMAN IGNATIUS: Well, I think it's a fair follow-up on Mr. Traum's statement that these are things that ought to be included in the Plan, suggesting that they're not now included. So And I can say, based on information say, for instance, the rebuttal testimony of Mr. Smagula and Ms. Tillotson it seemed to indicate for at least Least Cost Plan purposes, the Company is using a known and quantifiable measure for regulatory changes. Y MR. EATON: Do you have the PSNH Exhibit 1, the Least Cost Plan, in front of you? I do now. You do have it? Yes. Could you turn to Page 137. Yes, I'm there. And the first sentence of the last paragraph

	DAY 2 - AFTERNOON SES DE 10-261 PUBLIC SERVICE COMPANY (	SSION C OF N.H.	ONLY - April 5, 2012 Least Cost Integrated Resource Plan
[WITNES	SS: Traum] Page 25		SS: Traum] Page 27
1	set strategic direction for PSNH generation."	1 Q.	Doesn't the Company collect its generation
2	I've read that correctly?	2	costs through the energy service charge?
з А.	Yes.	з А.	Yes.
4 Q.	"Also during an additional 8 to 10 meetings	4 Q.	And is this a cost that is directly related to
5	throughout the year, an emissions management	5	energy service?
6	team formally discusses the systems and	6 A.	It certainly would be. It would and it
7	emission status, makes pro forma adjustments	7	overlaps the migration issue if PSNH is
8	[sic] with sensitivity analyses and makes	8	looking at what to do with its generation.
9	tactical decisions to achieve its goal of	9	It potentially impacts all customers. So,
10	complying with the emission regulations in a	10	should just energy service customers pay for
11	cost-effective manner." Have I read that	11	that, or should all customers pay for that?
12	correctly?	12	And I'm not offering an answer.
13	(Witness reviews document.)	13 Q.	If PSNH were to conduct a study of what it
14 A.	I believe so.	14	believed to be a potentially applicable
15 Q.	So, unless PSNH spent money on outside	15	regulation, or what they thought to be a
16	contractors to do what you say ought to be	16	reasonably foreseeable application of an
17	done, isn't it being done already?	17	environmental standard, and it turned out that
18 A.	Not necessarily. I believe there had	18	standard changed by the time it became final,
19	been and I'm searching my memory here	19	would the OCA take the position that that's a
20	some discovery and discussion in technical	20	proven expense?
21	sessions about this particular paragraph.	21	MS. HOLLENBERG: I'm going to
22	And the latter part about the	22	object because Mr. Traum is not retained for
23	additional 8 to 10 meetings throughout the	23	the purposes of opining on that question, as
24	year, I believe we're looking at short term,	24	well as it's a hypothetical question based on
[WITNES	SS: Traum] Page 26	[WITNES	SS: Traum] Page 28
1	within the year, how can PSNH comply with	1	hypothetical facts.
2	whatever the environmental mandates are.	2	MR. EATON: Mr. Traum's being
3	And as far as the first sentence, I	3	offered, I believe, as an expert, so
4	believe, again, that was more looking at	4	hypothetical questions are perfectly
5	shorter term issues, not the long term that	5	legitimate in cross-examination. And given
6	meet longer term, meaning more than a	6	his experience in representing the Office of
7	year or two.	7	Consumer Advocate, I think he could opine as
8 Q.	Would the cost of planning be a legitimate	8	to whether that would be an expense that the
9	cost that PSNH could include in its energy	9	office would or would not oppose.
10	service rates?	10	CHAIRMAN IGNATIUS: I think it's
11 A.	If you could explain what you mean by	11	legitimate if it's in the context of Mr.
12	"cost."	12	Traum's personal view based on his years of
13 Q.	If PSNH incurred incremental costs, such as	13	experience at the OCA. It may have no bearing
14	outside consultants to conduct an analysis of	14	on what the current or future consumer
15	potential compliance costs for reasonably	15	advocate might take as a position, but
16	foreseeable regulations, would the cost of	16	MS. HOLLENBERG: Yeah. I guess
17	that outside consultant be a legitimate	17	to clarify, I just want to make sure that I
18	expense to pass through the energy service	18	understand it's not for the purpose of making
19	charge?	19	a definitive statement that would be used
20 A.	If the Commission determined the costs were	20	against the OCA in a future docket, what Mr.

21

22

23

24

appropriate, then I'd assume that the

different mode, I do not know.

Company would be entitled to recover the

cost. Whether it was an energy service or a

Traum opines about today, because he's not

opportunity for us to even take a position on

discussed this with me. And there's no

that issue at this point in time.

21

22

23

24

DE 10-261 PUBLIC SERVICE COMP	ANY OF N.H. Least Cost Integrated Resource Plan	
[WITNESS: Traum]	ge 29 [WITNESS: Traum] Pag	ge 31
1 CHAIRMAN IGNATIUS: With th	t, 1 Q. All right. But our PSNH's plant is not	
2 Mr. Traum, you may answer.	2 inadequate because we didn't conduct a	
3 A. Sorry. I'm going to ask you to repeat the	3 Continued Unit Operations Study for plants	
4 question.	4 other than Newington.	
5 BY MR. EATON:	5 A. I believe we I would recommend that	
6 Q. Assuming PSNH conducted an engineering	6 Continued Unit Operation Studies be done for	or
7 analysis and incurred incremental costs to	7 all three plants by independent entities as	
8 study a potentially applicable environmenta	8 soon as possible. I would agree that, no,	
standard, and it turns out that the	you were not required to do Continuing Unit	
environmental standard was not connected,		
not the proposed rule did not become the	in here. But this is a Least Cost Plan.	
final rule, would the OCA based upon yo		
experience, would the OCA take the position	to determine what's in the best interest of	
that that cost should not be recovered from	your customers or your ratepayers, you	
15 customers?	should have done that.	
16 A. Okay. As Attorney Hollenberg indicated, I	<b>16</b> Q. So we're not required to, but we should have	
cannot say what the OCA would or would r	· · · · · · · · · · · · · · · · · · ·	
do. I'm not an employee of the OCA at this	18 A. I guess that's fair.	
19 point.	19 Q. Thank you. I have nothing further.	
In terms of what Ken Traum as an exper		•
witness, individual would say, first, okay,	Commissioner Harrington, questions?	
was it a prudent cost? But I would also	22 CMSR. HARRINGTON: Yeah, I h	ave
say, first, we need a Continuing Unit	a couple, and unfortunately added a couple	
Operations Study to give us a handle or	24 more.	
[WITNESS: Traum] Pr	ge 30 [WITNESS: Traum] Pag	ge 32
[WITNESS: Traum] Pagive everybody at the Commission a handle		
		N:
1 give everybody at the Commission a handle	1 INTERROGATORIES BY CMSR. HARRINGTO	N:
give everybody at the Commission a handle on whether it's cost-effective to even look	<ul> <li>INTERROGATORIES BY CMSR. HARRINGTO</li> <li>Q. Getting back to the Public Service Exhibit 1.</li> </ul>	N:
<ul> <li>give everybody at the Commission a handle</li> <li>on whether it's cost-effective to even look</li> <li>at capital costs as opposed to going a</li> </ul>	<ul> <li>INTERROGATORIES BY CMSR. HARRINGTO</li> <li>Q. Getting back to the Public Service Exhibit 1,</li> <li>Page 137 that was brought up in your last lir</li> <li>of questioning, Mr. Traum you have that?</li> </ul>	N:
give everybody at the Commission a handle on whether it's cost-effective to even look at capital costs as opposed to going a different route for the generating unit.	<ul> <li>INTERROGATORIES BY CMSR. HARRINGTO</li> <li>Q. Getting back to the Public Service Exhibit 1,</li> <li>Page 137 that was brought up in your last lir</li> <li>of questioning, Mr. Traum you have that?</li> </ul>	N: le
<ol> <li>give everybody at the Commission a handle</li> <li>on whether it's cost-effective to even look</li> <li>at capital costs as opposed to going a</li> <li>different route for the generating unit.</li> <li>Q. Mr. Traum, was a Continued Unit Operation</li> </ol>	<ul> <li>INTERROGATORIES BY CMSR. HARRINGTO</li> <li>Q. Getting back to the Public Service Exhibit 1,</li> <li>Page 137 that was brought up in your last lir</li> <li>of questioning, Mr. Traum you have that?</li> <li>A. Yes, I do.</li> <li>Q. That last paragraph there says, "A subgroup</li> <li>PSNH's generation management team meets</li> </ul>	oN: ne
give everybody at the Commission a handle on whether it's cost-effective to even look at capital costs as opposed to going a different route for the generating unit. Q. Mr. Traum, was a Continued Unit Operation Study for Merrimack an issue in the last proceeding?  MS. HOLLENBERG: Relevance?	<ul> <li>INTERROGATORIES BY CMSR. HARRINGTO</li> <li>Q. Getting back to the Public Service Exhibit 1.</li> <li>Page 137 that was brought up in your last lir</li> <li>of questioning, Mr. Traum you have that?</li> <li>A. Yes, I do.</li> <li>Q. That last paragraph there says, "A subgroup</li> <li>PSNH's generation management team meets</li> <li>least annually to comprehensively analyze</li> </ul>	oN: ne of at
give everybody at the Commission a handle on whether it's cost-effective to even look at capital costs as opposed to going a different route for the generating unit. Q. Mr. Traum, was a Continued Unit Operation Study for Merrimack an issue in the last proceeding?  MS. HOLLENBERG: Relevance? MR. EATON: Mr. Traum has	<ul> <li>INTERROGATORIES BY CMSR. HARRINGTO</li> <li>Q. Getting back to the Public Service Exhibit 1.</li> <li>Page 137 that was brought up in your last lir</li> <li>of questioning, Mr. Traum you have that?</li> <li>A. Yes, I do.</li> <li>Q. That last paragraph there says, "A subgroup</li> <li>PSNH's generation management team meets</li> <li>least annually to comprehensively analyze</li> <li>PSNH's position and to set strategic direction</li> </ul>	oN: ne of at
give everybody at the Commission a handle on whether it's cost-effective to even look at capital costs as opposed to going a different route for the generating unit. Q. Mr. Traum, was a Continued Unit Operation Study for Merrimack an issue in the last proceeding?  MS. HOLLENBERG: Relevance? MR. EATON: Mr. Traum has recommended that our plan is not adequate	1 INTERROGATORIES BY CMSR. HARRINGTO 2 Q. Getting back to the Public Service Exhibit 1, 3 Page 137 that was brought up in your last lir 4 of questioning, Mr. Traum you have that? 5 A. Yes, I do. 6 Q. That last paragraph there says, "A subgroup 7 PSNH's generation management team meets 8 least annually to comprehensively analyze 9 PSNH's position and to set strategic direction for PSNH generation."	oN: ne of at
give everybody at the Commission a handle on whether it's cost-effective to even look at capital costs as opposed to going a different route for the generating unit. Q. Mr. Traum, was a Continued Unit Operation Study for Merrimack an issue in the last proceeding?  MS. HOLLENBERG: Relevance? MR. EATON: Mr. Traum has recommended that our plan is not adequate that we should be doing Continued Unit	1 INTERROGATORIES BY CMSR. HARRINGTO 2 Q. Getting back to the Public Service Exhibit 1, 3 Page 137 that was brought up in your last lir 4 of questioning, Mr. Traum you have that? 5 A. Yes, I do. 6 Q. That last paragraph there says, "A subgroup 7 PSNH's generation management team meets 8 least annually to comprehensively analyze 9 PSNH's position and to set strategic direction for PSNH generation." 10 In your review of this plan, and maybe	oN: ne of at
give everybody at the Commission a handle on whether it's cost-effective to even look at capital costs as opposed to going a different route for the generating unit. Q. Mr. Traum, was a Continued Unit Operation Study for Merrimack an issue in the last proceeding?  MS. HOLLENBERG: Relevance? MR. EATON: Mr. Traum has recommended that our plan is not adequate that we should be doing Continued Unit Operations Studies. I'm asking him if it wa	1 INTERROGATORIES BY CMSR. HARRINGTO 2 Q. Getting back to the Public Service Exhibit 1, 3 Page 137 that was brought up in your last lir 4 of questioning, Mr. Traum you have that? 5 A. Yes, I do. 6 Q. That last paragraph there says, "A subgroup 7 PSNH's generation management team meets 8 least annually to comprehensively analyze 9 PSNH's position and to set strategic direction 10 for PSNH generation." 11 In your review of this plan, and maybe 12 in whatever other things you've done as	oN: ne of at
give everybody at the Commission a handle on whether it's cost-effective to even look at capital costs as opposed to going a different route for the generating unit.  Q. Mr. Traum, was a Continued Unit Operation Study for Merrimack an issue in the last proceeding?  MS. HOLLENBERG: Relevance? MR. EATON: Mr. Traum has recommended that our plan is not adequate that we should be doing Continued Unit Operations Studies. I'm asking him if it wa a requirement that we conduct a Continued	1 INTERROGATORIES BY CMSR. HARRINGTO 2 Q. Getting back to the Public Service Exhibit 1, 3 Page 137 that was brought up in your last lir 4 of questioning, Mr. Traum you have that? 5 A. Yes, I do. 6 Q. That last paragraph there says, "A subgroup 7 PSNH's generation management team meets 8 least annually to comprehensively analyze 9 PSNH's position and to set strategic direction 10 for PSNH generation." 11 In your review of this plan, and maybe 12 in whatever other things you've done as 13 in your former job at the Consumer	oN: ne of at
give everybody at the Commission a handle on whether it's cost-effective to even look at capital costs as opposed to going a different route for the generating unit.  Q. Mr. Traum, was a Continued Unit Operation Study for Merrimack an issue in the last proceeding?  MS. HOLLENBERG: Relevance? MR. EATON: Mr. Traum has recommended that our plan is not adequate that we should be doing Continued Unit Operations Studies. I'm asking him if it wa a requirement that we conduct a Continued Operations Study of any plant other than	1 INTERROGATORIES BY CMSR. HARRINGTO 2 Q. Getting back to the Public Service Exhibit 1, 3 Page 137 that was brought up in your last lir 4 of questioning, Mr. Traum you have that? 5 A. Yes, I do. 6 Q. That last paragraph there says, "A subgroup 7 PSNH's generation management team meets 8 least annually to comprehensively analyze 9 PSNH's position and to set strategic direction 10 for PSNH generation." 11 In your review of this plan, and maybe 12 in whatever other things you've done as 13 in your former job at the Consumer 14 Advocate's Office, have you been able to	oN: ne of at
give everybody at the Commission a handle on whether it's cost-effective to even look at capital costs as opposed to going a different route for the generating unit. Q. Mr. Traum, was a Continued Unit Operation Study for Merrimack an issue in the last proceeding?  MS. HOLLENBERG: Relevance? MR. EATON: Mr. Traum has recommended that our plan is not adequate that we should be doing Continued Unit Operations Studies. I'm asking him if it wa a requirement that we conduct a Continued Operations Study of any plant other than Newington for the purposes of this Least Co	1 INTERROGATORIES BY CMSR. HARRINGTO 2 Q. Getting back to the Public Service Exhibit 1, 3 Page 137 that was brought up in your last lir 4 of questioning, Mr. Traum you have that? 5 A. Yes, I do. 6 Q. That last paragraph there says, "A subgroup 7 PSNH's generation management team meets 8 least annually to comprehensively analyze 9 PSNH's position and to set strategic direction 10 for PSNH generation." 11 In your review of this plan, and maybe 12 in whatever other things you've done as 13 in your former job at the Consumer 14 Advocate's Office, have you been able to 15 determine what strategic direction was set	oN: ne of at
give everybody at the Commission a handle on whether it's cost-effective to even look at capital costs as opposed to going a different route for the generating unit. Q. Mr. Traum, was a Continued Unit Operation Study for Merrimack an issue in the last proceeding?  MS. HOLLENBERG: Relevance? MR. EATON: Mr. Traum has recommended that our plan is not adequate that we should be doing Continued Unit Operations Studies. I'm asking him if it wa a requirement that we conduct a Continued Operations Study of any plant other than Newington for the purposes of this Least Co Plan.	1 INTERROGATORIES BY CMSR. HARRINGTO 2 Q. Getting back to the Public Service Exhibit 1, 3 Page 137 that was brought up in your last lir 4 of questioning, Mr. Traum you have that? 5 A. Yes, I do. 6 Q. That last paragraph there says, "A subgroup 7 PSNH's generation management team meets 8 least annually to comprehensively analyze 9 PSNH's position and to set strategic direction 10 for PSNH generation." 11 In your review of this plan, and maybe 12 in whatever other things you've done as 13 in your former job at the Consumer 14 Advocate's Office, have you been able to 15 determine what strategic direction was set 16 in these meetings for PSNH's generation?	oN: ne of at
give everybody at the Commission a handle on whether it's cost-effective to even look at capital costs as opposed to going a different route for the generating unit.  Q. Mr. Traum, was a Continued Unit Operation Study for Merrimack an issue in the last proceeding?  MS. HOLLENBERG: Relevance? MR. EATON: Mr. Traum has recommended that our plan is not adequate that we should be doing Continued Unit Operations Studies. I'm asking him if it wa a requirement that we conduct a Continued Operations Study of any plant other than Newington for the purposes of this Least Co Plan.  CHAIRMAN IGNATIUS: I think	1 INTERROGATORIES BY CMSR. HARRINGTO 2 Q. Getting back to the Public Service Exhibit 1, 3 Page 137 that was brought up in your last lir 4 of questioning, Mr. Traum you have that? 5 A. Yes, I do. 6 Q. That last paragraph there says, "A subgroup 7 PSNH's generation management team meets 8 least annually to comprehensively analyze 9 PSNH's position and to set strategic direction 10 for PSNH generation." 11 In your review of this plan, and maybe 12 in whatever other things you've done as 13 in your former job at the Consumer 14 Advocate's Office, have you been able to 15 determine what strategic direction was set 16 in these meetings for PSNH's generation? 17 A. No.	on: ne of at
give everybody at the Commission a handle on whether it's cost-effective to even look at capital costs as opposed to going a different route for the generating unit. Q. Mr. Traum, was a Continued Unit Operation Study for Merrimack an issue in the last proceeding?  MS. HOLLENBERG: Relevance? MR. EATON: Mr. Traum has recommended that our plan is not adequate that we should be doing Continued Unit Operations Studies. I'm asking him if it wa a requirement that we conduct a Continued Operations Study of any plant other than Newington for the purposes of this Least Co Plan.  CHAIRMAN IGNATIUS: I think that's fair.	1 INTERROGATORIES BY CMSR. HARRINGTO 2 Q. Getting back to the Public Service Exhibit 1, 3 Page 137 that was brought up in your last lir 4 of questioning, Mr. Traum you have that? 5 A. Yes, I do. 6 Q. That last paragraph there says, "A subgroup 7 PSNH's generation management team meets 8 least annually to comprehensively analyze 9 PSNH's position and to set strategic direction 10 for PSNH generation." 11 In your review of this plan, and maybe 12 in whatever other things you've done as 13 in your former job at the Consumer 14 Advocate's Office, have you been able to 15 determine what strategic direction was set 16 in these meetings for PSNH's generation? 17 A. No. 18 Q. So they have these meetings, apparently, but	on: ne of at
give everybody at the Commission a handle on whether it's cost-effective to even look at capital costs as opposed to going a different route for the generating unit. Q. Mr. Traum, was a Continued Unit Operation Study for Merrimack an issue in the last proceeding?  MS. HOLLENBERG: Relevance? MR. EATON: Mr. Traum has recommended that our plan is not adequate that we should be doing Continued Unit Operations Studies. I'm asking him if it wa a requirement that we conduct a Continued Operations Study of any plant other than Newington for the purposes of this Least Co Plan.  CHAIRMAN IGNATIUS: I think that's fair.  And you get the answer you wanted: No, it	1 INTERROGATORIES BY CMSR. HARRINGTO 2 Q. Getting back to the Public Service Exhibit 1, 3 Page 137 that was brought up in your last lir 4 of questioning, Mr. Traum you have that? 5 A. Yes, I do. 6 Q. That last paragraph there says, "A subgroup 7 PSNH's generation management team meets 8 least annually to comprehensively analyze 9 PSNH's position and to set strategic direction 10 for PSNH generation." 11 In your review of this plan, and maybe 12 in whatever other things you've done as 13 in your former job at the Consumer 14 Advocate's Office, have you been able to 15 determine what strategic direction was set 16 in these meetings for PSNH's generation? 17 A. No. 18 Q. So they have these meetings, apparently, but 19 the results of this, or whatever strategic	N: ne of at
give everybody at the Commission a handle on whether it's cost-effective to even look at capital costs as opposed to going a different route for the generating unit. Q. Mr. Traum, was a Continued Unit Operation Study for Merrimack an issue in the last proceeding?  MS. HOLLENBERG: Relevance? MR. EATON: Mr. Traum has recommended that our plan is not adequate that we should be doing Continued Unit Operations Studies. I'm asking him if it wa a requirement that we conduct a Continued Operations Study of any plant other than Newington for the purposes of this Least Co Plan.  CHAIRMAN IGNATIUS: I think that's fair.  And you get the answer you wanted: No, it was not. But as I said, the world, in	INTERROGATORIES BY CMSR. HARRINGTO Q. Getting back to the Public Service Exhibit 1, Page 137 that was brought up in your last lir of questioning, Mr. Traum you have that?  A. Yes, I do. Q. That last paragraph there says, "A subgroup PSNH's generation management team meets least annually to comprehensively analyze PSNH's position and to set strategic direction for PSNH generation."  In your review of this plan, and maybe in whatever other things you've done as in your former job at the Consumer Advocate's Office, have you been able to determine what strategic direction was set in these meetings for PSNH's generation?  A. No.  So they have these meetings, apparently, but the results of this, or whatever strategic direction is determined, does not become par	N: ne of at
give everybody at the Commission a handle on whether it's cost-effective to even look at capital costs as opposed to going a different route for the generating unit. Q. Mr. Traum, was a Continued Unit Operation Study for Merrimack an issue in the last proceeding?  MS. HOLLENBERG: Relevance? MR. EATON: Mr. Traum has recommended that our plan is not adequate that we should be doing Continued Unit Operations Studies. I'm asking him if it wa a requirement that we conduct a Continued Operations Study of any plant other than Newington for the purposes of this Least Co Plan.  CHAIRMAN IGNATIUS: I think that's fair.  And you get the answer you wanted: No, it was not. But as I said, the world, in effect, has changed in terms of the cost of	1 INTERROGATORIES BY CMSR. HARRINGTO 2 Q. Getting back to the Public Service Exhibit 1, 3 Page 137 that was brought up in your last lir 4 of questioning, Mr. Traum you have that? 5 A. Yes, I do. 6 Q. That last paragraph there says, "A subgroup 7 PSNH's generation management team meets 8 least annually to comprehensively analyze 9 PSNH's position and to set strategic direction 10 for PSNH generation." 11 In your review of this plan, and maybe 12 in whatever other things you've done as 13 in your former job at the Consumer 14 Advocate's Office, have you been able to 15 determine what strategic direction was set 16 in these meetings for PSNH's generation? 17 A. No. 18 Q. So they have these meetings, apparently, but 19 the results of this, or whatever strategic 20 direction is determined, does not become page 21 of the Integrated Least Cost Plan?	N: ne of at
give everybody at the Commission a handle on whether it's cost-effective to even look at capital costs as opposed to going a different route for the generating unit.  Q. Mr. Traum, was a Continued Unit Operation Study for Merrimack an issue in the last proceeding?  MS. HOLLENBERG: Relevance? MR. EATON: Mr. Traum has recommended that our plan is not adequate that we should be doing Continued Unit Operations Studies. I'm asking him if it wa a requirement that we conduct a Continued Operations Study of any plant other than Newington for the purposes of this Least Co Plan.  CHAIRMAN IGNATIUS: I think that's fair.  A. And you get the answer you wanted: No, it was not. But as I said, the world, in effect, has changed in terms of the cost of generation because of natural gas. So it's	INTERROGATORIES BY CMSR. HARRINGTO Q. Getting back to the Public Service Exhibit 1, Page 137 that was brought up in your last line of questioning, Mr. Traum you have that? A. Yes, I do. Q. That last paragraph there says, "A subgroup PSNH's generation management team meets least annually to comprehensively analyze PSNH's position and to set strategic direction for PSNH generation." In your review of this plan, and maybe in whatever other things you've done as in your former job at the Consumer Advocate's Office, have you been able to determine what strategic direction was set in these meetings for PSNH's generation? A. No. RO. So they have these meetings, apparently, but the results of this, or whatever strategic direction is determined, does not become par of the Integrated Least Cost Plan? A. Beyond the sentence, that's correct.	on: ne of at
give everybody at the Commission a handle on whether it's cost-effective to even look at capital costs as opposed to going a different route for the generating unit.  Q. Mr. Traum, was a Continued Unit Operation Study for Merrimack an issue in the last proceeding?  MS. HOLLENBERG: Relevance? MR. EATON: Mr. Traum has recommended that our plan is not adequate that we should be doing Continued Unit Operations Studies. I'm asking him if it wa a requirement that we conduct a Continued Operations Study of any plant other than Newington for the purposes of this Least Co Plan.  CHAIRMAN IGNATIUS: I think that's fair.  A. And you get the answer you wanted: No, it was not. But as I said, the world, in effect, has changed in terms of the cost of	1 INTERROGATORIES BY CMSR. HARRINGTO 2 Q. Getting back to the Public Service Exhibit 1, 3 Page 137 that was brought up in your last lir 4 of questioning, Mr. Traum you have that? 5 A. Yes, I do. 6 Q. That last paragraph there says, "A subgroup 7 PSNH's generation management team meets 8 least annually to comprehensively analyze 9 PSNH's position and to set strategic direction 10 for PSNH generation." 11 In your review of this plan, and maybe 12 in whatever other things you've done as 13 in your former job at the Consumer 14 Advocate's Office, have you been able to 15 determine what strategic direction was set 16 in these meetings for PSNH's generation? 17 A. No. 18 Q. So they have these meetings, apparently, but 19 the results of this, or whatever strategic 20 direction is determined, does not become page 21 of the Integrated Least Cost Plan?	on:  ne  of  at  n

[WITNES	SS: Traum] Page 33	[WITNES	SS: Traum] Page 35
1	of?	1	account in any Least Cost Plan or any
2 A.	Certainly.	2	planning they're doing.
3 Q.	On Page 12	3 Q.	So if the engineering service rates could at
_	Yes, sir.	4	least propose would be proposed to go up,
5 Q.	there was some question on this single	5	would you think that that would increase the
6	supplier of natural gas. And without getting	6	rate of migration?
7	into specific, in your experience, is this		I'll say yes. And what I'm thinking is,
8	standard practice, that there's a sole source	8	what is the spread between what Public
9	purchase, or is it normally put out to bid?	9	Service's energy service rate would be
10 A.	It would certainly be very preferable	10	versus what a customer could get on the
11	putting it out to bid, just like the	11	market from a competitive supplier. If that
12 Q.	I understand why that would be preferable,	12	spread increases, then I would think more
13	because then you'd get competing bids. But is	13	customers would migrate. And I think the
14	it standard practice to do that in the utility	14	addition of scrubber costs will result in a
15	industry, as far as you're aware?	15	greater spread. So, yes, more migration.
16 A.	Yes, I believe it is.	16 Q.	And again, in your experience in the OCA's
17 Q.	On Page 15, here they're talking about	17	office, would you say you mentioned the
18	you're talking migration levels or	18	"death spiral," I think was the term, and I
19	potential migration levels.	19	think it kind of goes along with higher
20	In a totally different case, there was	20	engineering service rates causes more
21	a question that I had brought up on the	21	migration, which causes higher engineering
22	very, very low participation of people in a	22	service rates, which causes more migration, et
23	voluntary renewable energy program. I think	23	cetera, et cetera. Would you think that it
24	the numbers were somewhere in the vicinity	24	would have been prudent to include in this
	CC. Trouml Dogo 24	INVITAIL C	Co. Trouml Dogo 26
[WITNES	SS: Traum] Page 34	[WITNES	SS: Traum] Page 36
[WITNES	of 25 people out of 25 customers out of	[WITNES	plan at least some analysis of that and the
	of 25 people out of 25 customers out of 78,000 voluntarily were willing to pay		plan at least some analysis of that and the possible ramifications if it were to occur,
1	of 25 people out of 25 customers out of 78,000 voluntarily were willing to pay higher rates for renewable energy. The	1 2 3	plan at least some analysis of that and the possible ramifications if it were to occur, and let's say residential migration rates
1 2 3 4	of 25 people out of 25 customers out of 78,000 voluntarily were willing to pay higher rates for renewable energy. The reason I bring that up is because I asked	1 2 3 4	plan at least some analysis of that and the possible ramifications if it were to occur, and let's say residential migration rates didn't stop at .2 percent, but went to 10 or
1 2 3 4 5	of 25 people out of 25 customers out of 78,000 voluntarily were willing to pay higher rates for renewable energy. The reason I bring that up is because I asked why people thought that was the case, and	1 2 3 4 5	plan at least some analysis of that and the possible ramifications if it were to occur, and let's say residential migration rates didn't stop at .2 percent, but went to 10 or 12 or 15 percent?
1 2 3 4 5	of 25 people out of 25 customers out of 78,000 voluntarily were willing to pay higher rates for renewable energy. The reason I bring that up is because I asked why people thought that was the case, and their response was they just didn't think	1 2 3 4 5 6 A.	plan at least some analysis of that and the possible ramifications if it were to occur, and let's say residential migration rates didn't stop at .2 percent, but went to 10 or 12 or 15 percent?  I would be absolutely concerned if PSNH's
1 2 3 4 5 6 7	of 25 people out of 25 customers out of 78,000 voluntarily were willing to pay higher rates for renewable energy. The reason I bring that up is because I asked why people thought that was the case, and their response was they just didn't think people were willing to voluntarily pay	1 2 3 4 5 6 A.	plan at least some analysis of that and the possible ramifications if it were to occur, and let's say residential migration rates didn't stop at .2 percent, but went to 10 or 12 or 15 percent?  I would be absolutely concerned if PSNH's 40-percent high migration forecast had
1 2 3 4 5 6 7 8	of 25 people out of 25 customers out of 78,000 voluntarily were willing to pay higher rates for renewable energy. The reason I bring that up is because I asked why people thought that was the case, and their response was they just didn't think people were willing to voluntarily pay higher electric rates.	1 2 3 4 5 6 A. 7	plan at least some analysis of that and the possible ramifications if it were to occur, and let's say residential migration rates didn't stop at .2 percent, but went to 10 or 12 or 15 percent?  I would be absolutely concerned if PSNH's 40-percent high migration forecast had 0.2 percent as the residential migration
1 2 3 4 5 6 7 8	of 25 people out of 25 customers out of 78,000 voluntarily were willing to pay higher rates for renewable energy. The reason I bring that up is because I asked why people thought that was the case, and their response was they just didn't think people were willing to voluntarily pay higher electric rates.  So, in your experience as a consumer	1 2 3 4 5 6 A. 7 8	plan at least some analysis of that and the possible ramifications if it were to occur, and let's say residential migration rates didn't stop at .2 percent, but went to 10 or 12 or 15 percent?  I would be absolutely concerned if PSNH's 40-percent high migration forecast had 0.2 percent as the residential migration rate, and that's already exceeded that.
1 2 3 4 5 6 7 8 9	of 25 people out of 25 customers out of 78,000 voluntarily were willing to pay higher rates for renewable energy. The reason I bring that up is because I asked why people thought that was the case, and their response was they just didn't think people were willing to voluntarily pay higher electric rates.  So, in your experience as a consumer advocate, would you find that higher	1 2 3 4 5 6 A. 7 8 9	plan at least some analysis of that and the possible ramifications if it were to occur, and let's say residential migration rates didn't stop at .2 percent, but went to 10 or 12 or 15 percent?  I would be absolutely concerned if PSNH's 40-percent high migration forecast had 0.2 percent as the residential migration rate, and that's already exceeded that. So would it be correct to say what you're
1 2 3 4 5 6 7 8 9 10	of 25 people out of 25 customers out of 78,000 voluntarily were willing to pay higher rates for renewable energy. The reason I bring that up is because I asked why people thought that was the case, and their response was they just didn't think people were willing to voluntarily pay higher electric rates.  So, in your experience as a consumer advocate, would you find that higher electric rates would be something that	1 2 3 4 5 6 A. 7 8 9 10 Q.	plan at least some analysis of that and the possible ramifications if it were to occur, and let's say residential migration rates didn't stop at .2 percent, but went to 10 or 12 or 15 percent?  I would be absolutely concerned if PSNH's 40-percent high migration forecast had 0.2 percent as the residential migration rate, and that's already exceeded that. So would it be correct to say what you're saying, that the lack of analysis of that
1 2 3 4 5 6 7 8 9 10 11 12	of 25 people out of 25 customers out of 78,000 voluntarily were willing to pay higher rates for renewable energy. The reason I bring that up is because I asked why people thought that was the case, and their response was they just didn't think people were willing to voluntarily pay higher electric rates.  So, in your experience as a consumer advocate, would you find that higher electric rates would be something that people would try to avoid if they could?	1 2 3 4 5 6 A. 7 8 9 10 Q. 11	plan at least some analysis of that and the possible ramifications if it were to occur, and let's say residential migration rates didn't stop at .2 percent, but went to 10 or 12 or 15 percent?  I would be absolutely concerned if PSNH's 40-percent high migration forecast had 0.2 percent as the residential migration rate, and that's already exceeded that. So would it be correct to say what you're saying, that the lack of analysis of that potential shows a defect in the least cost
1 2 3 4 5 6 7 8 9 10 11 12 13 A.	of 25 people out of 25 customers out of 78,000 voluntarily were willing to pay higher rates for renewable energy. The reason I bring that up is because I asked why people thought that was the case, and their response was they just didn't think people were willing to voluntarily pay higher electric rates.  So, in your experience as a consumer advocate, would you find that higher electric rates would be something that people would try to avoid if they could? All other things being equal, absolutely.	1 2 3 4 5 6 A. 7 8 9 10 Q. 11 12	plan at least some analysis of that and the possible ramifications if it were to occur, and let's say residential migration rates didn't stop at .2 percent, but went to 10 or 12 or 15 percent?  I would be absolutely concerned if PSNH's 40-percent high migration forecast had 0.2 percent as the residential migration rate, and that's already exceeded that. So would it be correct to say what you're saying, that the lack of analysis of that potential shows a defect in the least cost planning document?
1 2 3 4 5 6 7 8 9 10 11 12	of 25 people out of 25 customers out of 78,000 voluntarily were willing to pay higher rates for renewable energy. The reason I bring that up is because I asked why people thought that was the case, and their response was they just didn't think people were willing to voluntarily pay higher electric rates.  So, in your experience as a consumer advocate, would you find that higher electric rates would be something that people would try to avoid if they could? All other things being equal, absolutely. So, if we had the situation we're starting to	1 2 3 4 5 6 A. 7 8 9 10 Q. 11 12 13 14 A.	plan at least some analysis of that and the possible ramifications if it were to occur, and let's say residential migration rates didn't stop at .2 percent, but went to 10 or 12 or 15 percent?  I would be absolutely concerned if PSNH's 40-percent high migration forecast had 0.2 percent as the residential migration rate, and that's already exceeded that. So would it be correct to say what you're saying, that the lack of analysis of that potential shows a defect in the least cost planning document?  It's one of them. It would, because if
1 2 3 4 5 6 7 8 9 10 11 12 13 A. 14 Q.	of 25 people out of 25 customers out of 78,000 voluntarily were willing to pay higher rates for renewable energy. The reason I bring that up is because I asked why people thought that was the case, and their response was they just didn't think people were willing to voluntarily pay higher electric rates.  So, in your experience as a consumer advocate, would you find that higher electric rates would be something that people would try to avoid if they could? All other things being equal, absolutely. So, if we had the situation we're starting to see now, where migration rates are going up,	1 2 3 4 5 6 A. 7 8 9 10 Q. 11 12 13 14 A. 15	plan at least some analysis of that and the possible ramifications if it were to occur, and let's say residential migration rates didn't stop at .2 percent, but went to 10 or 12 or 15 percent?  I would be absolutely concerned if PSNH's 40-percent high migration forecast had 0.2 percent as the residential migration rate, and that's already exceeded that. So would it be correct to say what you're saying, that the lack of analysis of that potential shows a defect in the least cost planning document?  It's one of them. It would, because if customers are seeing much higher prices, if
1 2 3 4 5 6 7 8 9 10 11 12 13 A. 14 Q.	of 25 people out of 25 customers out of 78,000 voluntarily were willing to pay higher rates for renewable energy. The reason I bring that up is because I asked why people thought that was the case, and their response was they just didn't think people were willing to voluntarily pay higher electric rates.  So, in your experience as a consumer advocate, would you find that higher electric rates would be something that people would try to avoid if they could? All other things being equal, absolutely. So, if we had the situation we're starting to see now, where migration rates are going up, which causes energy service rates to go up,	1 2 3 4 5 6 A. 7 8 9 10 Q. 11 12 13 14 A.	plan at least some analysis of that and the possible ramifications if it were to occur, and let's say residential migration rates didn't stop at .2 percent, but went to 10 or 12 or 15 percent?  I would be absolutely concerned if PSNH's 40-percent high migration forecast had 0.2 percent as the residential migration rate, and that's already exceeded that. So would it be correct to say what you're saying, that the lack of analysis of that potential shows a defect in the least cost planning document?  It's one of them. It would, because if customers are seeing much higher prices, if nothing else, there will be less demand. So
1 2 3 4 5 6 7 8 9 10 11 12 13 A. 14 Q. 15	of 25 people out of 25 customers out of 78,000 voluntarily were willing to pay higher rates for renewable energy. The reason I bring that up is because I asked why people thought that was the case, and their response was they just didn't think people were willing to voluntarily pay higher electric rates.  So, in your experience as a consumer advocate, would you find that higher electric rates would be something that people would try to avoid if they could? All other things being equal, absolutely. So, if we had the situation we're starting to see now, where migration rates are going up,	1 2 3 4 5 6 A. 7 8 9 10 Q. 11 12 13 14 A. 15 16	plan at least some analysis of that and the possible ramifications if it were to occur, and let's say residential migration rates didn't stop at .2 percent, but went to 10 or 12 or 15 percent?  I would be absolutely concerned if PSNH's 40-percent high migration forecast had 0.2 percent as the residential migration rate, and that's already exceeded that. So would it be correct to say what you're saying, that the lack of analysis of that potential shows a defect in the least cost planning document?  It's one of them. It would, because if customers are seeing much higher prices, if
1 2 3 4 5 6 7 8 9 10 11 12 13 A. 14 Q. 15 16 17	of 25 people out of 25 customers out of 78,000 voluntarily were willing to pay higher rates for renewable energy. The reason I bring that up is because I asked why people thought that was the case, and their response was they just didn't think people were willing to voluntarily pay higher electric rates.  So, in your experience as a consumer advocate, would you find that higher electric rates would be something that people would try to avoid if they could? All other things being equal, absolutely. So, if we had the situation we're starting to see now, where migration rates are going up, which causes energy service rates to go up, and looking ahead from 2010, would you	1 2 3 4 5 6 A. 7 8 9 10 Q. 11 12 13 14 A. 15 16 17	plan at least some analysis of that and the possible ramifications if it were to occur, and let's say residential migration rates didn't stop at .2 percent, but went to 10 or 12 or 15 percent?  I would be absolutely concerned if PSNH's 40-percent high migration forecast had 0.2 percent as the residential migration rate, and that's already exceeded that. So would it be correct to say what you're saying, that the lack of analysis of that potential shows a defect in the least cost planning document?  It's one of them. It would, because if customers are seeing much higher prices, if nothing else, there will be less demand. So the load analysis might be off.
1 2 3 4 5 6 7 8 9 10 11 12 13 A. 14 Q. 15 16 17	of 25 people out of 25 customers out of 78,000 voluntarily were willing to pay higher rates for renewable energy. The reason I bring that up is because I asked why people thought that was the case, and their response was they just didn't think people were willing to voluntarily pay higher electric rates.  So, in your experience as a consumer advocate, would you find that higher electric rates would be something that people would try to avoid if they could? All other things being equal, absolutely. So, if we had the situation we're starting to see now, where migration rates are going up, which causes energy service rates to go up, and looking ahead from 2010, would you consider it would have been prudent for Public	1 2 3 4 5 6 A. 7 8 9 10 Q. 11 12 13 14 A. 15 16 17 18 Q.	plan at least some analysis of that and the possible ramifications if it were to occur, and let's say residential migration rates didn't stop at .2 percent, but went to 10 or 12 or 15 percent?  I would be absolutely concerned if PSNH's 40-percent high migration forecast had 0.2 percent as the residential migration rate, and that's already exceeded that. So would it be correct to say what you're saying, that the lack of analysis of that potential shows a defect in the least cost planning document?  It's one of them. It would, because if customers are seeing much higher prices, if nothing else, there will be less demand. So the load analysis might be off.  All right. Thank you. That's all I have.
1 2 3 4 5 6 7 8 9 10 11 12 13 A. 14 Q. 15 16 17 18 19	of 25 people out of 25 customers out of 78,000 voluntarily were willing to pay higher rates for renewable energy. The reason I bring that up is because I asked why people thought that was the case, and their response was they just didn't think people were willing to voluntarily pay higher electric rates.  So, in your experience as a consumer advocate, would you find that higher electric rates would be something that people would try to avoid if they could? All other things being equal, absolutely. So, if we had the situation we're starting to see now, where migration rates are going up, which causes energy service rates to go up, and looking ahead from 2010, would you consider it would have been prudent for Public Service to look ahead and realize that they	1 2 3 4 5 6 A. 7 8 9 10 Q. 11 12 13 14 A. 15 16 17 18 Q. 19	plan at least some analysis of that and the possible ramifications if it were to occur, and let's say residential migration rates didn't stop at .2 percent, but went to 10 or 12 or 15 percent?  I would be absolutely concerned if PSNH's 40-percent high migration forecast had 0.2 percent as the residential migration rate, and that's already exceeded that. So would it be correct to say what you're saying, that the lack of analysis of that potential shows a defect in the least cost planning document?  It's one of them. It would, because if customers are seeing much higher prices, if nothing else, there will be less demand. So the load analysis might be off.  All right. Thank you. That's all I have. CHAIRMAN IGNATIUS: And
1 2 3 4 5 6 7 8 9 10 11 12 13 A. 14 Q. 15 16 17 18 19 20	of 25 people out of 25 customers out of 78,000 voluntarily were willing to pay higher rates for renewable energy. The reason I bring that up is because I asked why people thought that was the case, and their response was they just didn't think people were willing to voluntarily pay higher electric rates.  So, in your experience as a consumer advocate, would you find that higher electric rates would be something that people would try to avoid if they could? All other things being equal, absolutely. So, if we had the situation we're starting to see now, where migration rates are going up, which causes energy service rates to go up, and looking ahead from 2010, would you consider it would have been prudent for Public Service to look ahead and realize that they would be, in the next five years, at least	1 2 3 4 5 6 A. 7 8 9 10 Q. 11 12 13 14 A. 15 16 17 18 Q. 19 20	plan at least some analysis of that and the possible ramifications if it were to occur, and let's say residential migration rates didn't stop at .2 percent, but went to 10 or 12 or 15 percent?  I would be absolutely concerned if PSNH's 40-percent high migration forecast had 0.2 percent as the residential migration rate, and that's already exceeded that. So would it be correct to say what you're saying, that the lack of analysis of that potential shows a defect in the least cost planning document?  It's one of them. It would, because if customers are seeing much higher prices, if nothing else, there will be less demand. So the load analysis might be off.  All right. Thank you. That's all I have.  CHAIRMAN IGNATIUS: And Commissioner Scott.
1 2 3 4 5 6 7 8 9 10 11 12 13 A. 14 Q. 15 16 17 18 19 20 21	of 25 people out of 25 customers out of 78,000 voluntarily were willing to pay higher rates for renewable energy. The reason I bring that up is because I asked why people thought that was the case, and their response was they just didn't think people were willing to voluntarily pay higher electric rates.  So, in your experience as a consumer advocate, would you find that higher electric rates would be something that people would try to avoid if they could? All other things being equal, absolutely. So, if we had the situation we're starting to see now, where migration rates are going up, which causes energy service rates to go up, and looking ahead from 2010, would you consider it would have been prudent for Public Service to look ahead and realize that they would be, in the next five years, at least requesting the addition of substantial cost to	1 2 3 4 5 6 A. 7 8 9 10 Q. 11 12 13 14 A. 15 16 17 18 Q. 19 20 21	plan at least some analysis of that and the possible ramifications if it were to occur, and let's say residential migration rates didn't stop at .2 percent, but went to 10 or 12 or 15 percent?  I would be absolutely concerned if PSNH's 40-percent high migration forecast had 0.2 percent as the residential migration rate, and that's already exceeded that. So would it be correct to say what you're saying, that the lack of analysis of that potential shows a defect in the least cost planning document?  It's one of them. It would, because if customers are seeing much higher prices, if nothing else, there will be less demand. So the load analysis might be off.  All right. Thank you. That's all I have.  CHAIRMAN IGNATIUS: And Commissioner Scott.
1 2 3 4 5 6 7 8 9 10 11 12 13 A. 14 Q. 15 16 17 18 19 20 21 22	of 25 people out of 25 customers out of 78,000 voluntarily were willing to pay higher rates for renewable energy. The reason I bring that up is because I asked why people thought that was the case, and their response was they just didn't think people were willing to voluntarily pay higher electric rates.  So, in your experience as a consumer advocate, would you find that higher electric rates would be something that people would try to avoid if they could? All other things being equal, absolutely. So, if we had the situation we're starting to see now, where migration rates are going up, which causes energy service rates to go up, and looking ahead from 2010, would you consider it would have been prudent for Public Service to look ahead and realize that they would be, in the next five years, at least requesting the addition of substantial cost to their energy service rates due to the scrubber	1 2 3 4 5 6 A. 7 8 9 10 Q. 11 12 13 14 A. 15 16 17 18 Q. 19 20 21 22 23	plan at least some analysis of that and the possible ramifications if it were to occur, and let's say residential migration rates didn't stop at .2 percent, but went to 10 or 12 or 15 percent?  I would be absolutely concerned if PSNH's 40-percent high migration forecast had 0.2 percent as the residential migration rate, and that's already exceeded that. So would it be correct to say what you're saying, that the lack of analysis of that potential shows a defect in the least cost planning document?  It's one of them. It would, because if customers are seeing much higher prices, if nothing else, there will be less demand. So the load analysis might be off.  All right. Thank you. That's all I have.  CHAIRMAN IGNATIUS: And Commissioner Scott.

# DAY 2 - AFTERNOON SESSION ONLY - April 5, 2012

DE 10-261 PUBLIC SERVICE COMPANY OF N.H. Least Cost Integrated Resource Plan [WITNESS: Traum] Page 37 [WITNESS: Traum] Page 39 1 Q. Following the same -- pretty much the same 1 is no base case migration scenario. And line, on Page 14, where you talk about then it describes looking at migration level 2 3 migration in your testimony, you talk about a 3 assumptions for each customer class for each base case. Can you -- just to make sure I'm migration level and those reflected trends 4 4 thinking and what you're saying are the same seen for these classes in 2009 and 2010. 5 5 thing, what do you mean by a "base case"? What would you think should have been 6 6 7 A. What they actually expect to occur. done in addition to that? Is that -- that's 7 8 Q. Okay. So, their best projection -obviously some analysis of migration and 8 9 A. Correct. some attempt to project it. So what leads 9 10 O. -- based on the information at the time. you to conclude that there should have been 10 11 And on that same page, you have on 11 something more, and what might it have 12 Line 16, you say, "OCA considers such a looked like if there had been more? 12 13 scenario crucial for long-term planning." I 13 A. I used to have a graph on my office wall know you're not OCA, but you're a consultant showing what had happened with migration, 14 14 for OCA. What does that mean? Why? and it was like this (gesturing). And all 15 15 of a sudden, now PSNH is saying it's going 16 A. As migration occurs, the fixed costs of 16 their own -- PSNH's own generation, the to be leveling off at a maximum of 17 17 18 above-market costs, have to be recovered 40 percent. 18 19 from a smaller and smaller pool of energy 19 Q. So, for the sake of the record, you just made service customers, thus driving up the an upward slant and then it leveled off. All 20 20 21 price; so, as a for instance, the scrubber 21 right. Go ahead. results in a one-cent increase in energy Yes, a rapidly increasing rate of migration 22 22 A. was what was being shown historically. And 23 service rate. Initially, you know, it may 23 PSNH's range of forecast had it topped off 24 result in 10 percent more migration, so 24 [WITNESS: Traum] Page 38 [WITNESS: Traum] Page 40 that, again, a smaller pool of at 40 percent, which did not seem 1 1 residential -- of energy service customers 2 2 reasonable. would be responsible for paying for those 3 Q. And you know that the levels of migration and 3 trends as of the time of the 2010 plan varied costs. And that's what I view is, you know, 4 4 the death spiral or whatever. 5 among customer classes; correct? 6 O. Okay. Thank you. Very unfortunately, I was very aware of Α. 6 INTERROGATORIES BY CHAIRMAN IGNATIUS: that, because I was constantly arguing for 7 8 O. Welcome back, Mr. Traum -somehow or other to get -- that somehow we 8 could get a competitive supplier or **9** A. I'm not sure. 9 10 Q. -- back to the Commission. It's nice to see suppliers to provide residential customers 10 choice so they can take advantage of market 11 you. 11 opportunities, as opposed to being captive 12 The base case on migration, if I can 12 customers of a PSNH energy service rate that ask a few more questions about that, in your 13 13 testimony that's on Page 14, you noted we saw as growing higher and higher than 14 14 15 PSNH's response that they do not have a base 15 market prices. case migration scenario and cited the data Were there residential suppliers, suppliers 16 16 Q. response -- which, by the way, is extremely 17 interested in the residential market in 2010? 17 helpful. We don't usually see things put As far as I know, no. Again, to the best of 18 18 A. 19 together this way, and it's been interesting my knowledge, the first one to appear on the 19

to be able to flip back and forth and see

you when made the statements you did.

the information you were dealing with when

So if we look at that attachment, which

is on Page 145, the PSNH response says there

20

21

22

23

24

Min-U-Script®

scene was Resident Power, and I think

last three to six months.

they've only appeared on the scene in the

So how would you have thought PSNH would

factor in residential supply options if there

20

21

22

24

23 Q.

[WITNE	SS: Traum] Page 41	[WI	TNES	SS: Traum] Page 43
-	were no suppliers at the time?	1		what the potential generation from those
1 2 A.		2		options are, and had asked: Okay, is PSNH
3 A.	with migration and cost shifting. I believe	3		forecasting additional DG in the future,
	Mr. Baumann's testimony in, might have been			which would thus reduce their load? And
4	the migration case and some other cases, had	4		they never responded to that in the rebuttal
5		5		•
6	addressed that. And I'd agreed with him	6		and did not include it in any forecasted
7	that there was a real cost shifting problem.	7		growth.
8	In the migration docket, we were I believe in my testimony and others, it		Q.	So if they are making those assessments, it's not contained in the Plan.
9		9	A.	
10	proposed ways to maybe incense competitive		A.	That's correct. As far as I know, that's
11	suppliers to get into the residential	11	0	Correct.  The issue on the part page Page 14 shout
12	market. So there was certainly glimmers of		Q.	The issue on the next page, Page 14, about
13	hope on the horizon you know, maybe more	13		heating degree days and cooling degree days,
14	than glimmers. In PSNH's sister company,	14		what is your concern on those?
15	Connecticut Light & Power, subject to check,		A.	PSNH rightfully includes in developing their
16	something like 30 percent of their	16		forecast for load, they use the 30-year
17	residential load had gone to customer	17		average degree days. That's I agree.
18	choice.	18		You should do that. But why don't you use
19 Q.	In your testimony, you raise concerns about	19		the most recent 30-degree average. They
20	certain energy-efficiency investments. And	20		were not. They were using one that I
21	then today you said that, having heard the	21		believe went through 2006. And I think they
22	testimony yesterday from the Company, you were	22		should have been using one that went through
23	now satisfied that that issue was not one of	23		2009 or 2010, the most recent data. Whether
24	concern anymore; is that right?	24		or not, as PSNH indicated in response, it's
IWITNE	SS: Traum] Page 42	Γ\Λ/I	TNES	SS: Traum] Page 44
	Yes. My concern was that Public Service, by	1		only a small change, I still think that for
2	legislation, had been granted the authority	2		least cost planning purposes, they should
3	to use SBC funds for efficiency purposes to	3		use the most accurate data that would have
4	get around investments, capital investments	4		been available at that time.
5	due to load growth, and that they weren't	5	_	It occurs to me that a conversation yesterday
6	and my concern is they got this approval,	6		with, I think Mr. Large, about an installation
7	but they weren't taking advantage of it.	7		that may be the kind of distributed generation
8	And I base that on a particular data	8		that you're talking about may have come up.
9	response that I believe I incorporated in my	9		And I'm forgetting the details. Do you recall
10	testimony. Since then, in PSNH's rebuttal	10		conversations about putting in something to
11	testimony, they expanded upon that response	11		forestall certain upgrades to a substation?
12	and indicated that, apparently, yes, they		A.	Right. And yes, I do. And I don't believe
13	are they always look at if there's an	13		that related to DG as opposed to the use of
14	EE-type alternative. And to the extent that	14		SBC funds on a targeted basis. And I
15	that's correct, I applaud them for that.	15		believe he said, No, we don't We haven't
16 Q.	How about the distributed generation concerns	16		been using SBC funds on a targeted basis,
17	you raised on Page 13? Are you still do	17		but we're looking at it, and this is
18	you still have concerns that there's	18		something we did on this particular case as
19	inadequate planning for those, or is that	19		a way to address the issue.
20	resolved with the other issue?	20	Q.	But to the extent there are opportunities for
21 A.	No, that's an independent issue. And what	21		a targeted investment that forestalls
22	it was, was that I had received, for a	22		distribution upgrade, either through energy
23	number of years, what the new installations	23		efficiency or through some distributed
24	and cumulative installations of DG were and	24		generation, that presumably is something that
1		i .		

	DE 10-201 PUBLIC SERVICE COMPANY	JF N.H	I. Least Cost Integrated Resource Plan
[WITN	ESS: Traum] Page 45	[WITN	ESS: Traum] Page 47
1 2 A	you would support? It's certainly an option that should be	1 2	in the first full paragraph of that page.  And my understanding of the exchange with
3	looked at: What's the least cost. And for	3	Commissioner Harrington was basically that,
4	planning purposes, it should be something	4	you know, although PSNH may participate in
5	that's automatically looked at, is what is	5	this type of activity, the information
6	the least cost, before going to traditional	6	related to this activity is not provided
7	approaches.	7	within the context of the IRP. Is that a
8 Q		8	correct summary?
9	of the Least Cost Plan, is that there be those	9 A	•
10	sorts of opportunities, and analysis should be	10	sentence was included.
11	laid out in the Plan itself.	11	MS. HOLLENBERG: And may I
12 A		12	approach the witness, please?
13	for planning purposes.	13	CHAIRMAN IGNATIUS: Of course.
14 Q		14	MS. HOLLENBERG: Thank you.
15	CHAIRMAN IGNATIUS: We have no		BY MS. HOLLENBERG:
16	other questions from the Bench. Ms.	16 Q	
17	Hollenberg, any redirect?	10 Q 17	need it to be marked as an exhibit because
18	MS. HOLLENBERG: Just a few	18	it's a small document. It's Data Request CLF
19	questions, please. Thank you.	19	1-28 in Docket DE 10-261. Did I identify that
20	REDIRECT EXAMINATION	20	correctly?
	BY MS. HOLLENBERG:	21 A	•
	2. Mr. Traum, you were asked on cross by the	22	docket, dated February 25th, 2011.
23	Company about your commentary recommendations	23 Q	
24	related to PSNH's use of sole source contract	24	going to read the question and ask you to
	related to 1514115 abo of sole source contract		going to read the question and ask you to
[WITN]	ESS: Traum] Page 46	[WITNE	ESS: Traum] Page 48
[WITN	Page 46 process for its supply from Emera. Do you	[WITNE	ESS: Traum] Page 48 confirm that I read it correctly.
1 2	process for its supply from Emera. Do you	1	confirm that I read it correctly.
1 2	process for its supply from Emera. Do you recall those questions and answers?  Yes.	1 2	confirm that I read it correctly.  Page 137 of Exhibit it doesn't say
1 2 3 A	process for its supply from Emera. Do you recall those questions and answers?  Yes.	1 2 3 4	confirm that I read it correctly.  Page 137 of Exhibit it doesn't say this, but it's referring to Would you
1 2 3 A 4 Q	process for its supply from Emera. Do you recall those questions and answers?  Yes.  Would you agree that you're not saying that	1 2 3 4 5 A	confirm that I read it correctly.  Page 137 of Exhibit it doesn't say this, but it's referring to Would you agree it's referring to PSNH's IRP filing?
1 2 3 A 4 Q 5	process for its supply from Emera. Do you recall those questions and answers?  Yes.  Would you agree that you're not saying that PSNH should not contract with Emera; rather,	1 2 3 4 5 A	confirm that I read it correctly.  Page 137 of Exhibit it doesn't say this, but it's referring to Would you agree it's referring to PSNH's IRP filing?  Yes.
1 2 3 A 4 Q 5	process for its supply from Emera. Do you recall those questions and answers?  Yes.  Would you agree that you're not saying that PSNH should not contract with Emera; rather, you're saying PSNH should use a competitive	1 2 3 4 5 A 6 Q	confirm that I read it correctly.  Page 137 of Exhibit it doesn't say this, but it's referring to Would you agree it's referring to PSNH's IRP filing?  Yes.  Page 137 described a process involving 8 to 10
1 2 3 A 4 Q 5 6 7	process for its supply from Emera. Do you recall those questions and answers?  Yes.  Would you agree that you're not saying that PSNH should not contract with Emera; rather, you're saying PSNH should use a competitive bidding process in order to select a supplier for their supply?	1 2 3 4 5 A 6 Q	confirm that I read it correctly.  Page 137 of Exhibit it doesn't say this, but it's referring to Would you agree it's referring to PSNH's IRP filing?  Yes.  Page 137 described a process involving 8 to 10 meetings per year of an emissions management
1 2 3 A 4 Q 5 6 7 8	process for its supply from Emera. Do you recall those questions and answers?  Yes.  Would you agree that you're not saying that PSNH should not contract with Emera; rather, you're saying PSNH should use a competitive bidding process in order to select a supplier for their supply?	1 2 3 4 5 A 6 Q 7	confirm that I read it correctly.  Page 137 of Exhibit it doesn't say this, but it's referring to Would you agree it's referring to PSNH's IRP filing?  Yes.  Page 137 described a process involving 8 to 10 meetings per year of an emissions management team and decision-making with regard to the
1 2 3 A 4 Q 5 6 7 8 9 A	process for its supply from Emera. Do you recall those questions and answers?  Yes.  Would you agree that you're not saying that PSNH should not contract with Emera; rather, you're saying PSNH should use a competitive bidding process in order to select a supplier for their supply?  That's correct. As I read Mr. White's	1 2 3 4 5 A 6 Q 7 8	confirm that I read it correctly.  Page 137 of Exhibit it doesn't say this, but it's referring to Would you agree it's referring to PSNH's IRP filing?  Yes.  Page 137 described a process involving 8 to 10 meetings per year of an emissions management team and decision-making with regard to the goal of complying with the emissions
1 2 3 A 4 Q 5 6 7 8 9 A	process for its supply from Emera. Do you recall those questions and answers? Yes. Would you agree that you're not saying that PSNH should not contract with Emera; rather, you're saying PSNH should use a competitive bidding process in order to select a supplier for their supply? That's correct. As I read Mr. White's comments, it seems to me as though there's a	1 2 3 4 5 A 6 Q 7 8 9	confirm that I read it correctly.  Page 137 of Exhibit it doesn't say this, but it's referring to Would you agree it's referring to PSNH's IRP filing?  Yes.  Page 137 described a process involving 8 to 10 meetings per year of an emissions management team and decision-making with regard to the goal of complying with the emissions regulations in a cost-effective manner.
1 2 3 A 4 Q 5 6 7 8 9 A 10 11	process for its supply from Emera. Do you recall those questions and answers?  Yes.  Would you agree that you're not saying that PSNH should not contract with Emera; rather, you're saying PSNH should use a competitive bidding process in order to select a supplier for their supply?  That's correct. As I read Mr. White's comments, it seems to me as though there's a potential for other suppliers other than	1 2 3 4 5 A 6 Q 7 8 9 10	confirm that I read it correctly.  Page 137 of Exhibit it doesn't say this, but it's referring to Would you agree it's referring to PSNH's IRP filing?  Yes.  Page 137 described a process involving 8 to 10 meetings per year of an emissions management team and decision-making with regard to the goal of complying with the emissions regulations in a cost-effective manner.  "Please provide the records of these meetings
1 2 3 A 4 Q 5 6 7 8 9 A 10 11 12	process for its supply from Emera. Do you recall those questions and answers?  Yes.  Would you agree that you're not saying that PSNH should not contract with Emera; rather, you're saying PSNH should use a competitive bidding process in order to select a supplier for their supply?  That's correct. As I read Mr. White's comments, it seems to me as though there's a potential for other suppliers other than Emera. So, rather than just going to Emera,	1 2 3 4 5 A 6 Q 7 8 9 10 11 12	confirm that I read it correctly.  Page 137 of Exhibit it doesn't say this, but it's referring to Would you agree it's referring to PSNH's IRP filing?  Yes.  Page 137 described a process involving 8 to 10 meetings per year of an emissions management team and decision-making with regard to the goal of complying with the emissions regulations in a cost-effective manner.  "Please provide the records of these meetings over the last two years, and any documents or
1 2 3 A 4 Q 5 6 7 8 9 A 10 11 12 13	process for its supply from Emera. Do you recall those questions and answers?  Yes.  Would you agree that you're not saying that PSNH should not contract with Emera; rather, you're saying PSNH should use a competitive bidding process in order to select a supplier for their supply?  That's correct. As I read Mr. White's comments, it seems to me as though there's a potential for other suppliers other than Emera. So, rather than just going to Emera, put it out to bid and see if somebody can	1 2 3 4 5 A 6 Q 7 8 9 10 11 12 13	confirm that I read it correctly.  Page 137 of Exhibit it doesn't say this, but it's referring to Would you agree it's referring to PSNH's IRP filing?  Yes.  Page 137 described a process involving 8 to 10 meetings per year of an emissions management team and decision-making with regard to the goal of complying with the emissions regulations in a cost-effective manner.  "Please provide the records of these meetings over the last two years, and any documents or analysis prepared by or for or considered by
1 2 3 A 4 Q 5 6 7 8 9 A 10 11 12 13 14	process for its supply from Emera. Do you recall those questions and answers? Yes. Would you agree that you're not saying that PSNH should not contract with Emera; rather, you're saying PSNH should use a competitive bidding process in order to select a supplier for their supply? That's correct. As I read Mr. White's comments, it seems to me as though there's a potential for other suppliers other than Emera. So, rather than just going to Emera, put it out to bid and see if somebody can come in at a better price than Emera on behalf of ratepayers.	1 2 3 4 5 A 6 Q 7 8 9 10 11 12 13 14	confirm that I read it correctly.  Page 137 of Exhibit it doesn't say this, but it's referring to Would you agree it's referring to PSNH's IRP filing?  Yes.  Page 137 described a process involving 8 to 10 meetings per year of an emissions management team and decision-making with regard to the goal of complying with the emissions regulations in a cost-effective manner.  "Please provide the records of these meetings over the last two years, and any documents or analysis prepared by or for or considered by the emissions management team."  Did I read that question correctly?
1 2 3 A 4 Q 5 6 7 8 9 A 10 11 12 13 14 15	process for its supply from Emera. Do you recall those questions and answers?  Yes.  Would you agree that you're not saying that PSNH should not contract with Emera; rather, you're saying PSNH should use a competitive bidding process in order to select a supplier for their supply?  That's correct. As I read Mr. White's comments, it seems to me as though there's a potential for other suppliers other than Emera. So, rather than just going to Emera, put it out to bid and see if somebody can come in at a better price than Emera on behalf of ratepayers.	1 2 3 4 5 A 6 Q 7 8 9 10 11 12 13 14 15	confirm that I read it correctly.  Page 137 of Exhibit it doesn't say this, but it's referring to Would you agree it's referring to PSNH's IRP filing?  Yes.  Page 137 described a process involving 8 to 10 meetings per year of an emissions management team and decision-making with regard to the goal of complying with the emissions regulations in a cost-effective manner.  "Please provide the records of these meetings over the last two years, and any documents or analysis prepared by or for or considered by the emissions management team."  Did I read that question correctly?  Yes.
1 2 3 A 4 Q 5 6 7 8 9 A 10 11 12 13 14 15 16 Q 17	process for its supply from Emera. Do you recall those questions and answers?  Yes.  Would you agree that you're not saying that PSNH should not contract with Emera; rather, you're saying PSNH should use a competitive bidding process in order to select a supplier for their supply?  That's correct. As I read Mr. White's comments, it seems to me as though there's a potential for other suppliers other than Emera. So, rather than just going to Emera, put it out to bid and see if somebody can come in at a better price than Emera on behalf of ratepayers.  Because typically, competitive bidding results	1 2 3 4 5 A 6 Q 7 8 9 10 11 12 13 14 15 16 A	confirm that I read it correctly.  Page 137 of Exhibit it doesn't say this, but it's referring to Would you agree it's referring to PSNH's IRP filing?  Yes.  Page 137 described a process involving 8 to 10 meetings per year of an emissions management team and decision-making with regard to the goal of complying with the emissions regulations in a cost-effective manner.  "Please provide the records of these meetings over the last two years, and any documents or analysis prepared by or for or considered by the emissions management team."  Did I read that question correctly?  Yes.
1 2 3 A 4 Q 5 6 7 8 9 A 10 11 12 13 14 15 16 Q 17	process for its supply from Emera. Do you recall those questions and answers?  Yes.  Would you agree that you're not saying that PSNH should not contract with Emera; rather, you're saying PSNH should use a competitive bidding process in order to select a supplier for their supply?  That's correct. As I read Mr. White's comments, it seems to me as though there's a potential for other suppliers other than Emera. So, rather than just going to Emera, put it out to bid and see if somebody can come in at a better price than Emera on behalf of ratepayers.  Because typically, competitive bidding results in lower cost.  I'd say typically.	1 2 3 4 5 A 6 Q 7 8 9 10 11 12 13 14 15 16 A 17 Q	confirm that I read it correctly.  Page 137 of Exhibit it doesn't say this, but it's referring to Would you agree it's referring to PSNH's IRP filing?  Yes.  Page 137 described a process involving 8 to 10 meetings per year of an emissions management team and decision-making with regard to the goal of complying with the emissions regulations in a cost-effective manner.  "Please provide the records of these meetings over the last two years, and any documents or analysis prepared by or for or considered by the emissions management team."  Did I read that question correctly?  Yes.  And the response states, "The Content" and
1 2 3 A 4 Q 5 6 7 8 9 A 10 11 12 13 14 15 16 Q 17 18 A	process for its supply from Emera. Do you recall those questions and answers?  Yes.  Would you agree that you're not saying that PSNH should not contract with Emera; rather, you're saying PSNH should use a competitive bidding process in order to select a supplier for their supply?  That's correct. As I read Mr. White's comments, it seems to me as though there's a potential for other suppliers other than Emera. So, rather than just going to Emera, put it out to bid and see if somebody can come in at a better price than Emera on behalf of ratepayers.  Because typically, competitive bidding results in lower cost.  I'd say typically.	1 2 3 4 5 A 6 Q 7 8 9 10 11 12 13 14 15 16 A 17 Q 18	confirm that I read it correctly.  Page 137 of Exhibit it doesn't say this, but it's referring to Would you agree it's referring to PSNH's IRP filing?  Yes.  Page 137 described a process involving 8 to 10 meetings per year of an emissions management team and decision-making with regard to the goal of complying with the emissions regulations in a cost-effective manner.  "Please provide the records of these meetings over the last two years, and any documents or analysis prepared by or for or considered by the emissions management team."  Did I read that question correctly?  Yes.  And the response states, "The Content" and this is Mr. Smagula's response; is that correct?
1 2 3 A 4 Q 5 6 7 8 9 A 10 11 12 13 14 15 16 Q 17 18 A 19 Q	process for its supply from Emera. Do you recall those questions and answers?  Yes.  Would you agree that you're not saying that PSNH should not contract with Emera; rather, you're saying PSNH should use a competitive bidding process in order to select a supplier for their supply?  That's correct. As I read Mr. White's comments, it seems to me as though there's a potential for other suppliers other than Emera. So, rather than just going to Emera, put it out to bid and see if somebody can come in at a better price than Emera on behalf of ratepayers.  Because typically, competitive bidding results in lower cost.  I'd say typically.  Thank you.	1 2 3 4 5 A 6 Q 7 8 9 10 11 12 13 14 15 16 A 17 Q 18 19	confirm that I read it correctly.  Page 137 of Exhibit it doesn't say this, but it's referring to Would you agree it's referring to PSNH's IRP filing?  Yes.  Page 137 described a process involving 8 to 10 meetings per year of an emissions management team and decision-making with regard to the goal of complying with the emissions regulations in a cost-effective manner.  "Please provide the records of these meetings over the last two years, and any documents or analysis prepared by or for or considered by the emissions management team."  Did I read that question correctly?  Yes.  And the response states, "The Content" and this is Mr. Smagula's response; is that correct?  That's correct.
1 2 3 A 4 Q 5 6 7 8 9 A 10 11 12 13 14 15 16 Q 17 18 A 19 Q 20	process for its supply from Emera. Do you recall those questions and answers?  Yes.  Would you agree that you're not saying that PSNH should not contract with Emera; rather, you're saying PSNH should use a competitive bidding process in order to select a supplier for their supply?  That's correct. As I read Mr. White's comments, it seems to me as though there's a potential for other suppliers other than Emera. So, rather than just going to Emera, put it out to bid and see if somebody can come in at a better price than Emera on behalf of ratepayers.  Because typically, competitive bidding results in lower cost.  I'd say typically.  Thank you.  You were asked some questions about	1 2 3 4 5 A 6 Q 7 8 9 10 11 12 13 14 15 16 A 17 Q 18 19 20 A	confirm that I read it correctly.  Page 137 of Exhibit it doesn't say this, but it's referring to Would you agree it's referring to PSNH's IRP filing?  Yes.  Page 137 described a process involving 8 to 10 meetings per year of an emissions management team and decision-making with regard to the goal of complying with the emissions regulations in a cost-effective manner.  "Please provide the records of these meetings over the last two years, and any documents or analysis prepared by or for or considered by the emissions management team."  Did I read that question correctly?  Yes.  And the response states, "The Content" and this is Mr. Smagula's response; is that correct?  That's correct.
1 2 3 A 4 Q 5 6 7 8 9 A 10 11 12 13 14 15 16 Q 17 18 A 19 Q 20 21	process for its supply from Emera. Do you recall those questions and answers?  Yes.  Would you agree that you're not saying that PSNH should not contract with Emera; rather, you're saying PSNH should use a competitive bidding process in order to select a supplier for their supply?  That's correct. As I read Mr. White's comments, it seems to me as though there's a potential for other suppliers other than Emera. So, rather than just going to Emera, put it out to bid and see if somebody can come in at a better price than Emera on behalf of ratepayers.  Because typically, competitive bidding results in lower cost.  I'd say typically.  Thank you.  You were asked some questions about PSNH Exhibit 1, Page 137, by the Company's	1 2 3 4 5 A 6 Q 7 8 9 10 11 12 13 14 15 16 A 17 Q 18 19 20 A 21 Q	confirm that I read it correctly.  Page 137 of Exhibit it doesn't say this, but it's referring to Would you agree it's referring to PSNH's IRP filing?  Yes.  Page 137 described a process involving 8 to 10 meetings per year of an emissions management team and decision-making with regard to the goal of complying with the emissions regulations in a cost-effective manner.  "Please provide the records of these meetings over the last two years, and any documents or analysis prepared by or for or considered by the emissions management team."  Did I read that question correctly?  Yes.  And the response states, "The Content" and this is Mr. Smagula's response; is that correct?  That's correct.  "The content of internal business strategy
1 2 3 A 4 Q 5 6 7 8 9 A 10 11 12 13 14 15 16 Q 17 18 A 19 Q 20 21 22	process for its supply from Emera. Do you recall those questions and answers?  Yes.  Would you agree that you're not saying that PSNH should not contract with Emera; rather, you're saying PSNH should use a competitive bidding process in order to select a supplier for their supply?  That's correct. As I read Mr. White's comments, it seems to me as though there's a potential for other suppliers other than Emera. So, rather than just going to Emera, put it out to bid and see if somebody can come in at a better price than Emera on behalf of ratepayers.  Because typically, competitive bidding results in lower cost.  I'd say typically.  Thank you.  You were asked some questions about PSNH Exhibit 1, Page 137, by the Company's attorney, and you were also asked some	1 2 3 4 5 A 6 Q 7 8 9 10 11 12 13 14 15 16 A 17 Q 18 19 20 A 21 Q 22	confirm that I read it correctly.  Page 137 of Exhibit it doesn't say this, but it's referring to Would you agree it's referring to PSNH's IRP filing?  Yes.  Page 137 described a process involving 8 to 10 meetings per year of an emissions management team and decision-making with regard to the goal of complying with the emissions regulations in a cost-effective manner.  "Please provide the records of these meetings over the last two years, and any documents or analysis prepared by or for or considered by the emissions management team."  Did I read that question correctly?  Yes.  And the response states, "The Content" and this is Mr. Smagula's response; is that correct?  That's correct.  "The content of internal business strategy discussions constitutes confidential business

[WITNE	SS: Traum] Page 49	[WITNESS: McCluskey] Pa	ge 51
1	internal strategy meetings with an attorney		
2	present for the purpose of getting legal		4
3	advice and in anticipation of litigation. As	3 CHAIRMAN IGNATIUS: All righ	
4	a result of this litigious climate, no minutes	4 (WHEREUPON, GEORGE McCLUSKEY was/	were
5	were taken." Is that correct?	5 duly sworn and cautioned by the Court	
6 A.	You've read that correctly, yes.	6 Reporter.)	
7 Q.	So, not only was there no information provided	7 GEORGE McCLUSKEY, SWORN	
8	in the IRP about these discussions, but there	8 DIRECT EXAMINATION	
9	was no information about these discussions	9 BY MR. SPEIDEL:	40
10	provided in response to discovery; is that	10 Q. What is your name and place of employmen	
11	correct?	11 A. My name is George McCluskey, and I work	ior
12 A.	In response to that discovery, yes. I don't	the Public Utilities Commission.	
13	know if there was a I do not recall if	13 Q. What is your position at the Commission?	
14	there was a fight about confidentiality	14 A. I'm assigned to the Electric Division as an	
15	an issue about confidentiality brought up	analyst.	
16	after that.	16 Q. What do you consider to be your area of	
17 Q.	Okay. Mr. Traum, you were asked on	professional expertise?	
18	cross-examination by the Company witness [sic]	18 A. In the roughly 30 years that I've been	
19	about whether or not the OCA would oppose in	working in the utility-rated related	
20	the future some sort of cost incurred to study	activities in England and the United States,	
21	divestiture and/or retirement options for the	I've covered most aspects of economic	
22	PSNH generation plants. Do you recall that?	regulation at the Commission, but	
23 A.	· · · · · · · · · · · · · · · · · · ·	principally ratemaking, most types of	
24	for divestiture or retirement. I think it	pricing, integrated resource planning,	
[WITNE	SS: Traum] Page 50	[WITNESS: McCluskey]	ge 52
			ge 52
1	was asking about the cost with regards to	1 analysis of contracts, DSM analysis, and	ge 52
1 2	was asking about the cost with regards to specific potential capital additions driven	<ul> <li>analysis of contracts, DSM analysis, and</li> <li>various other activities.</li> </ul>	
1 2 3	was asking about the cost with regards to specific potential capital additions driven by regulatory changes that does not occur in	<ol> <li>analysis of contracts, DSM analysis, and</li> <li>various other activities.</li> <li>Q. Excellent. I'm going to distribute a docume</li> </ol>	nt
1 2 3 4	was asking about the cost with regards to specific potential capital additions driven by regulatory changes that does not occur in the future.	<ol> <li>analysis of contracts, DSM analysis, and</li> <li>various other activities.</li> <li>Q. Excellent. I'm going to distribute a docume</li> <li>and ask you to identify it in a moment. Tha</li> </ol>	nt
1 2 3 4 5 Q.	was asking about the cost with regards to specific potential capital additions driven by regulatory changes that does not occur in the future.  Thank you. It was whether or not the OCA	<ol> <li>analysis of contracts, DSM analysis, and</li> <li>various other activities.</li> <li>Q. Excellent. I'm going to distribute a docume</li> <li>and ask you to identify it in a moment. That would be two documents.</li> </ol>	nt t
1 2 3 4 5 Q.	was asking about the cost with regards to specific potential capital additions driven by regulatory changes that does not occur in the future.  Thank you. It was whether or not the OCA would support or oppose the cost of	<ol> <li>analysis of contracts, DSM analysis, and</li> <li>various other activities.</li> <li>Q. Excellent. I'm going to distribute a docume</li> <li>and ask you to identify it in a moment. Tha</li> <li>would be two documents.</li> <li>CHAIRMAN IGNATIUS: Mr. Special</li> </ol>	nt t
1 2 3 4 5 Q.	was asking about the cost with regards to specific potential capital additions driven by regulatory changes that does not occur in the future.  Thank you. It was whether or not the OCA	<ul> <li>analysis of contracts, DSM analysis, and</li> <li>various other activities.</li> <li>Q. Excellent. I'm going to distribute a docume</li> <li>and ask you to identify it in a moment. That</li> <li>would be two documents.</li> <li>CHAIRMAN IGNATIUS: Mr. Spet</li> <li>we have copies already. So if you need more</li> </ul>	nt t
1 2 3 4 5 Q. 6 7	was asking about the cost with regards to specific potential capital additions driven by regulatory changes that does not occur in the future.  Thank you. It was whether or not the OCA would support or oppose the cost of engineering analysis of future capital additions.	<ul> <li>analysis of contracts, DSM analysis, and</li> <li>various other activities.</li> <li>Q. Excellent. I'm going to distribute a docume</li> <li>and ask you to identify it in a moment. That would be two documents.</li> <li>CHAIRMAN IGNATIUS: Mr. Spetters we have copies already. So if you need most these are duplicates.</li> </ul>	nt t
1 2 3 4 5 Q. 6 7 8 9 A.	was asking about the cost with regards to specific potential capital additions driven by regulatory changes that does not occur in the future.  Thank you. It was whether or not the OCA would support or oppose the cost of engineering analysis of future capital additions.  That's basically, that's correct. And I	<ul> <li>analysis of contracts, DSM analysis, and</li> <li>various other activities.</li> <li>Q. Excellent. I'm going to distribute a docume</li> <li>and ask you to identify it in a moment. That would be two documents.</li> <li>CHAIRMAN IGNATIUS: Mr. Spetters we have copies already. So if you need most these are duplicates.</li> <li>MR. SPEIDEL: Thank you very</li> </ul>	nt t
1 2 3 4 5 Q. 6 7	was asking about the cost with regards to specific potential capital additions driven by regulatory changes that does not occur in the future.  Thank you. It was whether or not the OCA would support or oppose the cost of engineering analysis of future capital additions.	<ul> <li>analysis of contracts, DSM analysis, and</li> <li>various other activities.</li> <li>Q. Excellent. I'm going to distribute a docume</li> <li>and ask you to identify it in a moment. That</li> <li>would be two documents.</li> <li>CHAIRMAN IGNATIUS: Mr. Spet</li> <li>we have copies already. So if you need most</li> <li>these are duplicates.</li> <li>MR. SPEIDEL: Thank you very</li> <li>much. I think I should be all set for the</li> </ul>	nt t
1 2 3 4 5 Q. 6 7 8 9 A. 10	was asking about the cost with regards to specific potential capital additions driven by regulatory changes that does not occur in the future.  Thank you. It was whether or not the OCA would support or oppose the cost of engineering analysis of future capital additions.  That's basically, that's correct. And I indicated that I can speak for myself, not for OCA.	<ul> <li>analysis of contracts, DSM analysis, and</li> <li>various other activities.</li> <li>Q. Excellent. I'm going to distribute a docume</li> <li>and ask you to identify it in a moment. That would be two documents.</li> <li>CHAIRMAN IGNATIUS: Mr. Spet</li> <li>we have copies already. So if you need most these are duplicates.</li> <li>MR. SPEIDEL: Thank you very</li> <li>much. I think I should be all set for the time being.</li> </ul>	nt t
1 2 3 4 5 Q. 6 7 8 9 A.	was asking about the cost with regards to specific potential capital additions driven by regulatory changes that does not occur in the future.  Thank you. It was whether or not the OCA would support or oppose the cost of engineering analysis of future capital additions.  That's basically, that's correct. And I indicated that I can speak for myself, not for OCA.  And in your experience with the Office of	<ul> <li>analysis of contracts, DSM analysis, and various other activities.</li> <li>Q. Excellent. I'm going to distribute a docume and ask you to identify it in a moment. That would be two documents.</li> <li>CHAIRMAN IGNATIUS: Mr. Spet we have copies already. So if you need most these are duplicates.</li> <li>MR. SPEIDEL: Thank you very much. I think I should be all set for the time being.</li> <li>BY MR. SPEIDEL:</li> </ul>	nt t idel, re,
1 2 3 4 5 Q. 6 7 8 9 A. 10 11 12 Q.	was asking about the cost with regards to specific potential capital additions driven by regulatory changes that does not occur in the future.  Thank you. It was whether or not the OCA would support or oppose the cost of engineering analysis of future capital additions.  That's basically, that's correct. And I indicated that I can speak for myself, not for OCA.  And in your experience with the Office of Consumer Advocate and I think you were with	<ul> <li>analysis of contracts, DSM analysis, and</li> <li>various other activities.</li> <li>Q. Excellent. I'm going to distribute a docume</li> <li>and ask you to identify it in a moment. That</li> <li>would be two documents.</li> <li>CHAIRMAN IGNATIUS: Mr. Special We have copies already. So if you need more these are duplicates.</li> <li>MR. SPEIDEL: Thank you very</li> <li>much. I think I should be all set for the</li> <li>time being.</li> <li>BY MR. SPEIDEL:</li> <li>Q. All rightie. Now, Mr. McCluskey, I'm goin</li> </ul>	nt t idel, re,
1 2 3 4 5 Q. 6 7 8 9 A. 10 11 12 Q. 13	was asking about the cost with regards to specific potential capital additions driven by regulatory changes that does not occur in the future.  Thank you. It was whether or not the OCA would support or oppose the cost of engineering analysis of future capital additions.  That's basically, that's correct. And I indicated that I can speak for myself, not for OCA.  And in your experience with the Office of Consumer Advocate and I think you were with us for maybe more than 19 years, if not 20	<ul> <li>analysis of contracts, DSM analysis, and</li> <li>various other activities.</li> <li>Q. Excellent. I'm going to distribute a docume</li> <li>and ask you to identify it in a moment. That</li> <li>would be two documents.</li> <li>CHAIRMAN IGNATIUS: Mr. Spet</li> <li>we have copies already. So if you need most</li> <li>these are duplicates.</li> <li>MR. SPEIDEL: Thank you very</li> <li>much. I think I should be all set for the</li> <li>time being.</li> <li>BY MR. SPEIDEL:</li> <li>Q. All rightie. Now, Mr. McCluskey, I'm going</li> </ul>	nt t idel, re,
1 2 3 4 5 Q. 6 7 8 9 A. 10 11 12 Q. 13 14	was asking about the cost with regards to specific potential capital additions driven by regulatory changes that does not occur in the future.  Thank you. It was whether or not the OCA would support or oppose the cost of engineering analysis of future capital additions.  That's basically, that's correct. And I indicated that I can speak for myself, not for OCA.  And in your experience with the Office of Consumer Advocate and I think you were with us for maybe more than 19 years, if not 20 did the OCA ever oppose the recovery of	<ul> <li>analysis of contracts, DSM analysis, and various other activities.</li> <li>Q. Excellent. I'm going to distribute a docume and ask you to identify it in a moment. That would be two documents.</li> <li>CHAIRMAN IGNATIUS: Mr. Spet we have copies already. So if you need most these are duplicates.</li> <li>MR. SPEIDEL: Thank you very much. I think I should be all set for the time being.</li> <li>BY MR. SPEIDEL:</li> <li>Q. All rightie. Now, Mr. McCluskey, I'm goin bring these documents to your own personal attention.</li> </ul>	nt t idel, re,
1 2 3 4 5 Q. 6 7 8 9 A. 10 11 12 Q. 13 14 15	was asking about the cost with regards to specific potential capital additions driven by regulatory changes that does not occur in the future.  Thank you. It was whether or not the OCA would support or oppose the cost of engineering analysis of future capital additions.  That's basically, that's correct. And I indicated that I can speak for myself, not for OCA.  And in your experience with the Office of Consumer Advocate and I think you were with us for maybe more than 19 years, if not 20	<ul> <li>analysis of contracts, DSM analysis, and various other activities.</li> <li>Q. Excellent. I'm going to distribute a docume and ask you to identify it in a moment. That would be two documents.</li> <li>CHAIRMAN IGNATIUS: Mr. Special We have copies already. So if you need more these are duplicates.</li> <li>MR. SPEIDEL: Thank you very much. I think I should be all set for the time being.</li> <li>BY MR. SPEIDEL:</li> <li>Q. All rightie. Now, Mr. McCluskey, I'm goin bring these documents to your own personal attention.</li> <li>Mr. McCluskey, do you recognize the</li> </ul>	nt t idel, re,
1 2 3 4 5 Q. 6 7 8 9 A. 10 11 12 Q. 13 14 15 16	was asking about the cost with regards to specific potential capital additions driven by regulatory changes that does not occur in the future.  Thank you. It was whether or not the OCA would support or oppose the cost of engineering analysis of future capital additions.  That's basically, that's correct. And I indicated that I can speak for myself, not for OCA.  And in your experience with the Office of Consumer Advocate and I think you were with us for maybe more than 19 years, if not 20 did the OCA ever oppose the recovery of prudently incurred costs by a utility in	<ul> <li>analysis of contracts, DSM analysis, and</li> <li>various other activities.</li> <li>Q. Excellent. I'm going to distribute a docume</li> <li>and ask you to identify it in a moment. That</li> <li>would be two documents.</li> <li>CHAIRMAN IGNATIUS: Mr. Special We have copies already. So if you need more these are duplicates.</li> <li>MR. SPEIDEL: Thank you very</li> <li>much. I think I should be all set for the</li> <li>time being.</li> <li>BY MR. SPEIDEL:</li> <li>Q. All rightie. Now, Mr. McCluskey, I'm goin</li> <li>bring these documents to your own personal attention.</li> <li>Mr. McCluskey, do you recognize the</li> <li>document that has been styled "Staff"</li> </ul>	nt t idel, re,
1 2 3 4 5 Q. 6 7 8 9 A. 10 11 12 Q. 13 14 15 16 17 18 A.	was asking about the cost with regards to specific potential capital additions driven by regulatory changes that does not occur in the future.  Thank you. It was whether or not the OCA would support or oppose the cost of engineering analysis of future capital additions.  That's basically, that's correct. And I indicated that I can speak for myself, not for OCA.  And in your experience with the Office of Consumer Advocate and I think you were with us for maybe more than 19 years, if not 20 did the OCA ever oppose the recovery of prudently incurred costs by a utility in service to customers?  Of course not.	analysis of contracts, DSM analysis, and various other activities.  Q. Excellent. I'm going to distribute a docume and ask you to identify it in a moment. That would be two documents.  CHAIRMAN IGNATIUS: Mr. Spet we have copies already. So if you need more these are duplicates.  MR. SPEIDEL: Thank you very much. I think I should be all set for the time being.  BY MR. SPEIDEL:  All rightie. Now, Mr. McCluskey, I'm goin bring these documents to your own personal attention.  Mr. McCluskey, do you recognize the document that has been styled "Staff Exhibit 1?	nt t idel, re,
1 2 3 4 5 Q. 6 7 8 9 A. 10 11 12 Q. 13 14 15 16 17	was asking about the cost with regards to specific potential capital additions driven by regulatory changes that does not occur in the future.  Thank you. It was whether or not the OCA would support or oppose the cost of engineering analysis of future capital additions.  That's basically, that's correct. And I indicated that I can speak for myself, not for OCA.  And in your experience with the Office of Consumer Advocate and I think you were with us for maybe more than 19 years, if not 20 did the OCA ever oppose the recovery of prudently incurred costs by a utility in service to customers?  Of course not.  Thank you.	analysis of contracts, DSM analysis, and various other activities.  Q. Excellent. I'm going to distribute a docume and ask you to identify it in a moment. That would be two documents.  CHAIRMAN IGNATIUS: Mr. Spet we have copies already. So if you need more these are duplicates.  MR. SPEIDEL: Thank you very much. I think I should be all set for the time being.  BY MR. SPEIDEL:  Q. All rightie. Now, Mr. McCluskey, I'm goin bring these documents to your own personal attention.  Mr. McCluskey, do you recognize the document that has been styled "Staff Exhibit 1?  A. Yes, I do.	nt t idel, re,
1 2 3 4 5 Q. 6 7 8 9 A. 10 11 12 Q. 13 14 15 16 17 18 A. 19 Q. 20	was asking about the cost with regards to specific potential capital additions driven by regulatory changes that does not occur in the future.  Thank you. It was whether or not the OCA would support or oppose the cost of engineering analysis of future capital additions.  That's basically, that's correct. And I indicated that I can speak for myself, not for OCA.  And in your experience with the Office of Consumer Advocate and I think you were with us for maybe more than 19 years, if not 20 did the OCA ever oppose the recovery of prudently incurred costs by a utility in service to customers?  Of course not.  Thank you.  MS. HOLLENBERG: No other	analysis of contracts, DSM analysis, and various other activities.  Q. Excellent. I'm going to distribute a docume and ask you to identify it in a moment. That would be two documents.  CHAIRMAN IGNATIUS: Mr. Spet we have copies already. So if you need most these are duplicates.  MR. SPEIDEL: Thank you very much. I think I should be all set for the time being.  BY MR. SPEIDEL:  Q. All rightie. Now, Mr. McCluskey, I'm goin bring these documents to your own personal attention.  Mr. McCluskey, do you recognize the document that has been styled "Staff Exhibit 1?  A. Yes, I do.  What is that document?	nt t idel, re,
1 2 3 4 5 Q. 6 7 8 9 A. 10 11 12 Q. 13 14 15 16 17 18 A. 19 Q. 20 21	was asking about the cost with regards to specific potential capital additions driven by regulatory changes that does not occur in the future.  Thank you. It was whether or not the OCA would support or oppose the cost of engineering analysis of future capital additions.  That's basically, that's correct. And I indicated that I can speak for myself, not for OCA.  And in your experience with the Office of Consumer Advocate and I think you were with us for maybe more than 19 years, if not 20 did the OCA ever oppose the recovery of prudently incurred costs by a utility in service to customers?  Of course not.  Thank you.  MS. HOLLENBERG: No other questions.	analysis of contracts, DSM analysis, and various other activities.  Q. Excellent. I'm going to distribute a docume and ask you to identify it in a moment. That would be two documents.  CHAIRMAN IGNATIUS: Mr. Spet we have copies already. So if you need more these are duplicates.  MR. SPEIDEL: Thank you very much. I think I should be all set for the time being.  BY MR. SPEIDEL:  Q. All rightie. Now, Mr. McCluskey, I'm goin bring these documents to your own personal attention.  Mr. McCluskey, do you recognize the document that has been styled "Staff Exhibit 1?  MY A. Yes, I do.  Q. What is that document?  A. That is the direct testimony of myself and	nt t idel, re,
1 2 3 4 5 Q. 6 7 8 9 A. 10 11 12 Q. 13 14 15 16 17 18 A. 19 Q. 20 21 22	was asking about the cost with regards to specific potential capital additions driven by regulatory changes that does not occur in the future.  Thank you. It was whether or not the OCA would support or oppose the cost of engineering analysis of future capital additions.  That's basically, that's correct. And I indicated that I can speak for myself, not for OCA.  And in your experience with the Office of Consumer Advocate and I think you were with us for maybe more than 19 years, if not 20 did the OCA ever oppose the recovery of prudently incurred costs by a utility in service to customers?  Of course not.  Thank you.  MS. HOLLENBERG: No other questions.  CHAIRMAN IGNATIUS: Then, Mr.	analysis of contracts, DSM analysis, and various other activities.  Q. Excellent. I'm going to distribute a docume and ask you to identify it in a moment. That would be two documents.  CHAIRMAN IGNATIUS: Mr. Spet we have copies already. So if you need more these are duplicates.  MR. SPEIDEL: Thank you very much. I think I should be all set for the time being.  BY MR. SPEIDEL:  Q. All rightie. Now, Mr. McCluskey, I'm goin bring these documents to your own personal attention.  Mr. McCluskey, do you recognize the document that has been styled "Staff Exhibit 1?  Mr. Yes, I do.  Q. What is that document?  A. That is the direct testimony of myself and Edward Arnold for Jacobs Consultants.	nt t idel, re,
1 2 3 4 5 Q. 6 7 8 9 A. 10 11 12 Q. 13 14 15 16 17 18 A. 19 Q. 20 21	was asking about the cost with regards to specific potential capital additions driven by regulatory changes that does not occur in the future.  Thank you. It was whether or not the OCA would support or oppose the cost of engineering analysis of future capital additions.  That's basically, that's correct. And I indicated that I can speak for myself, not for OCA.  And in your experience with the Office of Consumer Advocate and I think you were with us for maybe more than 19 years, if not 20 did the OCA ever oppose the recovery of prudently incurred costs by a utility in service to customers?  Of course not.  Thank you.  MS. HOLLENBERG: No other questions.	analysis of contracts, DSM analysis, and various other activities.  Q. Excellent. I'm going to distribute a docume and ask you to identify it in a moment. That would be two documents.  CHAIRMAN IGNATIUS: Mr. Spet we have copies already. So if you need more these are duplicates.  MR. SPEIDEL: Thank you very much. I think I should be all set for the time being.  BY MR. SPEIDEL:  Q. All rightie. Now, Mr. McCluskey, I'm goin bring these documents to your own personal attention.  Mr. McCluskey, do you recognize the document that has been styled "Staff Exhibit 1?  MY A. Yes, I do.  Q. What is that document?  A. That is the direct testimony of myself and	nt t idel, re,

			1	. Least Cost Integrated Resource Plan
[WIT	TNES	SS: McCluskey] Page 53	[WITNE	SS: McCluskey] Page 55
1		Exhibit 2"?	1	Commissioners.
2	A.	Yes. This is supplemental testimony that	2 B	BY MR. SPEIDEL:
3		was submitted in this case, again, authored	3 Q.	Now, Mr. McCluskey, what issues do you address
4		by myself and Edward Arnold.	4	in your testimony, aside from the Newington
5	Q.	Were both the documents styled as "Staff	5	Continued Unit Operations Study?
6		Exhibit 1" and "Staff Exhibit 2," were those	6 A.	Exhibit 1?
7		documents prepared under your control and		Yes, that's correct.
8		supervision?	8 A.	
	A.	They were. That's correct.	9	One is related to the general Integrated
	Q.	Thank you.	10	Resource Plan and also to the Newington
11		MR. SPEIDEL: Commissioners, I	11	Continued Unit Operations Study. The
12		would ask that these two documents be marked	12	IRP-related issue has to do with PSNH's DSM
13		as Staff Exhibit 1 and 2, respectively.	13	assessment, and I address certain aspects of
14		CHAIRMAN IGNATIUS: Before we	14	that assessment.
15		mark them for identification, I think there's	15 Q.	
16		a little confusion about different versions of	16	discussed within this testimony to be within
17		things.	17	your area of professional expertise?
18		CMSR. HARRINGTON: Yeah. We	18 A.	· ·
19		have I have a copy of your testimony dated	19 Q.	Yes.
20		July 27th, which is identified as "Pretrial	20 A.	Yes, I do. As I indicated before, I've got
21		Testimony of George McCluskey" and so forth.	21	extensive experience in integrated resource
22		Then I have another document that's dated	22	planning and also with regard to
23		September 8th, and this says "Pretrial	23	energy-efficiency economic analysis.
24		Testimony," and it says, "With Updated Format	24 Q.	Mr. McCluskey, do you have any corrections or
[WIT	ΓNES	SS: McCluskey] Page 54	[WITNE	ESS: McCluskey] Page 56
[WIT	ΓNES	SS: McCluskey] Page 54 with Indicated Redactions. Is the information	[WITNE	SS: McCluskey] Page 56 other line edits to make to your non-Newington
	ΓNES	with Indicated Redactions. Is the information in each exactly the same, other than that		
1	ΓNES	with Indicated Redactions. Is the information in each exactly the same, other than that updated format?	1 2	other line edits to make to your non-Newington
1 2	ΓNES	with Indicated Redactions. Is the information in each exactly the same, other than that updated format?  MR. SPEIDEL: That is correct,	1 2	other line edits to make to your non-Newington testimony presented as Staff Exhibit 1? I've got two minor corrections/changes to make.
1 2 3	ΓNES	with Indicated Redactions. Is the information in each exactly the same, other than that updated format?  MR. SPEIDEL: That is correct, Commissioner Harrington, but for one element.	1 2 3 A.	other line edits to make to your non-Newington testimony presented as Staff Exhibit 1? I've got two minor corrections/changes to make.  On Page 31, Line 18, you'll see the
1 2 3 4	ΓNES	with Indicated Redactions. Is the information in each exactly the same, other than that updated format?  MR. SPEIDEL: That is correct, Commissioner Harrington, but for one element. The redaction format was updated in this	1 2 3 A.	other line edits to make to your non-Newington testimony presented as Staff Exhibit 1? I've got two minor corrections/changes to make.  On Page 31, Line 18, you'll see the word "prepared" in parentheses. I'm not
1 2 3 4 5	ΓNES	with Indicated Redactions. Is the information in each exactly the same, other than that updated format?  MR. SPEIDEL: That is correct, Commissioner Harrington, but for one element. The redaction format was updated in this version. That's why I distributed it as such.	1 2 3 A. 4 5	other line edits to make to your non-Newington testimony presented as Staff Exhibit 1? I've got two minor corrections/changes to make.  On Page 31, Line 18, you'll see the word "prepared" in parentheses. I'm not sure how that got in there. It's intended
1 2 3 4 5	ΓNES	with Indicated Redactions. Is the information in each exactly the same, other than that updated format?  MR. SPEIDEL: That is correct, Commissioner Harrington, but for one element. The redaction format was updated in this version. That's why I distributed it as such. And also, Staff had inadvertently omitted	1 2 3 A. 4 5 6 7 8	other line edits to make to your non-Newington testimony presented as Staff Exhibit 1? I've got two minor corrections/changes to make.  On Page 31, Line 18, you'll see the word "prepared" in parentheses. I'm not sure how that got in there. It's intended to be a quote. And so if we could strike
1 2 3 4 5 6 7 8	ΓNES	with Indicated Redactions. Is the information in each exactly the same, other than that updated format?  MR. SPEIDEL: That is correct, Commissioner Harrington, but for one element. The redaction format was updated in this version. That's why I distributed it as such. And also, Staff had inadvertently omitted Staff Exhibit 15 at the time of the July	1 2 3 A. 4 5 6 7 8	other line edits to make to your non-Newington testimony presented as Staff Exhibit 1? I've got two minor corrections/changes to make.  On Page 31, Line 18, you'll see the word "prepared" in parentheses. I'm not sure how that got in there. It's intended to be a quote. And so if we could strike the word "prepared" from that line.
1 2 3 4 5 6 7 8 9	ΓNES	with Indicated Redactions. Is the information in each exactly the same, other than that updated format?  MR. SPEIDEL: That is correct, Commissioner Harrington, but for one element. The redaction format was updated in this version. That's why I distributed it as such. And also, Staff had inadvertently omitted Staff Exhibit 15 at the time of the July filing. So this is including all Staff	1 2 3 A. 4 5 6 7 8 9 10 Q.	other line edits to make to your non-Newington testimony presented as Staff Exhibit 1? I've got two minor corrections/changes to make.  On Page 31, Line 18, you'll see the word "prepared" in parentheses. I'm not sure how that got in there. It's intended to be a quote. And so if we could strike the word "prepared" from that line. Any others?
1 2 3 4 5 6 7 8 9 10	ΓNES	with Indicated Redactions. Is the information in each exactly the same, other than that updated format?  MR. SPEIDEL: That is correct, Commissioner Harrington, but for one element. The redaction format was updated in this version. That's why I distributed it as such. And also, Staff had inadvertently omitted Staff Exhibit 15 at the time of the July filing. So this is including all Staff exhibits. But the information is	1 2 3 A. 4 5 6 7 8 9 10 Q. 11 A.	other line edits to make to your non-Newington testimony presented as Staff Exhibit 1? I've got two minor corrections/changes to make.  On Page 31, Line 18, you'll see the word "prepared" in parentheses. I'm not sure how that got in there. It's intended to be a quote. And so if we could strike the word "prepared" from that line. Any others?  Yes. On just give me one moment. It's
1 2 3 4 5 6 7 8 9 10 11 12	ΓNES	with Indicated Redactions. Is the information in each exactly the same, other than that updated format?  MR. SPEIDEL: That is correct, Commissioner Harrington, but for one element. The redaction format was updated in this version. That's why I distributed it as such. And also, Staff had inadvertently omitted Staff Exhibit 15 at the time of the July filing. So this is including all Staff exhibits. But the information is substantively the same. And I've included	1 2 3 A. 4 5 6 7 8 9 10 Q. 11 A. 12	other line edits to make to your non-Newington testimony presented as Staff Exhibit 1? I've got two minor corrections/changes to make.  On Page 31, Line 18, you'll see the word "prepared" in parentheses. I'm not sure how that got in there. It's intended to be a quote. And so if we could strike the word "prepared" from that line. Any others?  Yes. On just give me one moment. It's on Page 38, Line 11. It reads, "close this
1 2 3 4 5 6 7 8 9 10 11 12 13	ΓNES	with Indicated Redactions. Is the information in each exactly the same, other than that updated format?  MR. SPEIDEL: That is correct, Commissioner Harrington, but for one element. The redaction format was updated in this version. That's why I distributed it as such. And also, Staff had inadvertently omitted Staff Exhibit 15 at the time of the July filing. So this is including all Staff exhibits. But the information is substantively the same. And I've included Staff Exhibit 2 now just for administrative	1 2 3 A. 4 5 6 7 8 9 10 Q. 11 A. 12 13	other line edits to make to your non-Newington testimony presented as Staff Exhibit 1? I've got two minor corrections/changes to make.  On Page 31, Line 18, you'll see the word "prepared" in parentheses. I'm not sure how that got in there. It's intended to be a quote. And so if we could strike the word "prepared" from that line. Any others?  Yes. On just give me one moment. It's on Page 38, Line 11. It reads, "close this gap." I'd just like to insert the word
1 2 3 4 5 6 7 8 9 10 11 12 13 14	ΓNES	with Indicated Redactions. Is the information in each exactly the same, other than that updated format?  MR. SPEIDEL: That is correct, Commissioner Harrington, but for one element. The redaction format was updated in this version. That's why I distributed it as such. And also, Staff had inadvertently omitted Staff Exhibit 15 at the time of the July filing. So this is including all Staff exhibits. But the information is substantively the same. And I've included Staff Exhibit 2 now just for administrative efficiency. Even though it relates to	1 2 3 A. 4 5 6 7 8 9 10 Q. 11 A. 12 13 14	other line edits to make to your non-Newington testimony presented as Staff Exhibit 1? I've got two minor corrections/changes to make.  On Page 31, Line 18, you'll see the word "prepared" in parentheses. I'm not sure how that got in there. It's intended to be a quote. And so if we could strike the word "prepared" from that line. Any others?  Yes. On just give me one moment. It's on Page 38, Line 11. It reads, "close this gap." I'd just like to insert the word "information" before the word "gap." It
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	ΓNES	with Indicated Redactions. Is the information in each exactly the same, other than that updated format?  MR. SPEIDEL: That is correct, Commissioner Harrington, but for one element. The redaction format was updated in this version. That's why I distributed it as such. And also, Staff had inadvertently omitted Staff Exhibit 15 at the time of the July filing. So this is including all Staff exhibits. But the information is substantively the same. And I've included Staff Exhibit 2 now just for administrative efficiency. Even though it relates to Newington, we'll just have it marked it for	1 2 3 A. 4 5 6 7 8 9 10 Q. 11 A. 12 13 14 15	other line edits to make to your non-Newington testimony presented as Staff Exhibit 1? I've got two minor corrections/changes to make.  On Page 31, Line 18, you'll see the word "prepared" in parentheses. I'm not sure how that got in there. It's intended to be a quote. And so if we could strike the word "prepared" from that line. Any others?  Yes. On just give me one moment. It's on Page 38, Line 11. It reads, "close this gap." I'd just like to insert the word "information" before the word "gap." It should read "close this information gap."
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	ΓΝES	with Indicated Redactions. Is the information in each exactly the same, other than that updated format?  MR. SPEIDEL: That is correct, Commissioner Harrington, but for one element. The redaction format was updated in this version. That's why I distributed it as such. And also, Staff had inadvertently omitted Staff Exhibit 15 at the time of the July filing. So this is including all Staff exhibits. But the information is substantively the same. And I've included Staff Exhibit 2 now just for administrative efficiency. Even though it relates to Newington, we'll just have it marked it for now. It won't be referred to in this portion	1 2 3 A. 4 5 6 7 8 9 10 Q. 11 A. 12 13 14 15 16	other line edits to make to your non-Newington testimony presented as Staff Exhibit 1?  I've got two minor corrections/changes to make.  On Page 31, Line 18, you'll see the word "prepared" in parentheses. I'm not sure how that got in there. It's intended to be a quote. And so if we could strike the word "prepared" from that line.  Any others?  Yes. On just give me one moment. It's on Page 38, Line 11. It reads, "close this gap." I'd just like to insert the word "information" before the word "gap." It should read "close this information gap."  And those are the two changes that I wanted
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	ΓΝES	with Indicated Redactions. Is the information in each exactly the same, other than that updated format?  MR. SPEIDEL: That is correct, Commissioner Harrington, but for one element. The redaction format was updated in this version. That's why I distributed it as such. And also, Staff had inadvertently omitted Staff Exhibit 15 at the time of the July filing. So this is including all Staff exhibits. But the information is substantively the same. And I've included Staff Exhibit 2 now just for administrative efficiency. Even though it relates to Newington, we'll just have it marked it for now. It won't be referred to in this portion of the testimony.	1 2 3 A. 4 5 6 7 8 9 10 Q. 11 A. 12 13 14 15 16 17	other line edits to make to your non-Newington testimony presented as Staff Exhibit 1? I've got two minor corrections/changes to make.  On Page 31, Line 18, you'll see the word "prepared" in parentheses. I'm not sure how that got in there. It's intended to be a quote. And so if we could strike the word "prepared" from that line.  Any others?  Yes. On just give me one moment. It's on Page 38, Line 11. It reads, "close this gap." I'd just like to insert the word "information" before the word "gap." It should read "close this information gap."  And those are the two changes that I wanted to make.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	ΓΝΕS	with Indicated Redactions. Is the information in each exactly the same, other than that updated format?  MR. SPEIDEL: That is correct, Commissioner Harrington, but for one element. The redaction format was updated in this version. That's why I distributed it as such. And also, Staff had inadvertently omitted Staff Exhibit 15 at the time of the July filing. So this is including all Staff exhibits. But the information is substantively the same. And I've included Staff Exhibit 2 now just for administrative efficiency. Even though it relates to Newington, we'll just have it marked it for now. It won't be referred to in this portion of the testimony.  CHAIRMAN IGNATIUS: All right.	1 2 3 A. 4 5 6 7 8 9 10 Q. 11 A. 12 13 14 15 16 17 18 Q.	other line edits to make to your non-Newington testimony presented as Staff Exhibit 1?  I've got two minor corrections/changes to make.  On Page 31, Line 18, you'll see the word "prepared" in parentheses. I'm not sure how that got in there. It's intended to be a quote. And so if we could strike the word "prepared" from that line.  Any others?  Yes. On just give me one moment. It's on Page 38, Line 11. It reads, "close this gap." I'd just like to insert the word "information" before the word "gap." It should read "close this information gap."  And those are the two changes that I wanted to make.  Thank you very much.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	rnes	with Indicated Redactions. Is the information in each exactly the same, other than that updated format?  MR. SPEIDEL: That is correct, Commissioner Harrington, but for one element. The redaction format was updated in this version. That's why I distributed it as such. And also, Staff had inadvertently omitted Staff Exhibit 15 at the time of the July filing. So this is including all Staff exhibits. But the information is substantively the same. And I've included Staff Exhibit 2 now just for administrative efficiency. Even though it relates to Newington, we'll just have it marked it for now. It won't be referred to in this portion of the testimony.  CHAIRMAN IGNATIUS: All right. With that, we'll mark for identification Staff	1 2 3 A. 4 5 6 7 8 9 10 Q. 11 A. 12 13 14 15 16 17 18 Q. 19	other line edits to make to your non-Newington testimony presented as Staff Exhibit 1?  I've got two minor corrections/changes to make.  On Page 31, Line 18, you'll see the word "prepared" in parentheses. I'm not sure how that got in there. It's intended to be a quote. And so if we could strike the word "prepared" from that line.  Any others?  Yes. On just give me one moment. It's on Page 38, Line 11. It reads, "close this gap." I'd just like to insert the word "information" before the word "gap." It should read "close this information gap."  And those are the two changes that I wanted to make.  Thank you very much.  Since we are on Page 38 of your
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	ΓΝΕS	with Indicated Redactions. Is the information in each exactly the same, other than that updated format?  MR. SPEIDEL: That is correct, Commissioner Harrington, but for one element. The redaction format was updated in this version. That's why I distributed it as such. And also, Staff had inadvertently omitted Staff Exhibit 15 at the time of the July filing. So this is including all Staff exhibits. But the information is substantively the same. And I've included Staff Exhibit 2 now just for administrative efficiency. Even though it relates to Newington, we'll just have it marked it for now. It won't be referred to in this portion of the testimony.  CHAIRMAN IGNATIUS: All right. With that, we'll mark for identification Staff Exhibit 1, the September 8, 2011 filing; and	1 2 3 A. 4 5 6 7 8 9 10 Q. 11 A. 12 13 14 15 16 17 18 Q. 19 20	other line edits to make to your non-Newington testimony presented as Staff Exhibit 1?  I've got two minor corrections/changes to make.  On Page 31, Line 18, you'll see the word "prepared" in parentheses. I'm not sure how that got in there. It's intended to be a quote. And so if we could strike the word "prepared" from that line.  Any others?  Yes. On just give me one moment. It's on Page 38, Line 11. It reads, "close this gap." I'd just like to insert the word "information" before the word "gap." It should read "close this information gap."  And those are the two changes that I wanted to make.  Thank you very much.  Since we are on Page 38 of your testimony, Mr. McCluskey, can we draw
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	ΓΝΕS	with Indicated Redactions. Is the information in each exactly the same, other than that updated format?  MR. SPEIDEL: That is correct, Commissioner Harrington, but for one element. The redaction format was updated in this version. That's why I distributed it as such. And also, Staff had inadvertently omitted Staff Exhibit 15 at the time of the July filing. So this is including all Staff exhibits. But the information is substantively the same. And I've included Staff Exhibit 2 now just for administrative efficiency. Even though it relates to Newington, we'll just have it marked it for now. It won't be referred to in this portion of the testimony.  CHAIRMAN IGNATIUS: All right. With that, we'll mark for identification Staff Exhibit 1, the September 8, 2011 filing; and Staff Exhibit 2, the October 12, 2011 filing.	1 2 3 A. 4 5 6 7 8 9 10 Q. 11 A. 12 13 14 15 16 17 18 Q. 19 20 21	other line edits to make to your non-Newington testimony presented as Staff Exhibit 1?  I've got two minor corrections/changes to make.  On Page 31, Line 18, you'll see the word "prepared" in parentheses. I'm not sure how that got in there. It's intended to be a quote. And so if we could strike the word "prepared" from that line.  Any others?  Yes. On just give me one moment. It's on Page 38, Line 11. It reads, "close this gap." I'd just like to insert the word "information" before the word "gap." It should read "close this information gap."  And those are the two changes that I wanted to make.  Thank you very much.  Since we are on Page 38 of your testimony, Mr. McCluskey, can we draw attention to Lines 5 through 11?
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	ΓΝΕS	with Indicated Redactions. Is the information in each exactly the same, other than that updated format?  MR. SPEIDEL: That is correct, Commissioner Harrington, but for one element. The redaction format was updated in this version. That's why I distributed it as such. And also, Staff had inadvertently omitted Staff Exhibit 15 at the time of the July filing. So this is including all Staff exhibits. But the information is substantively the same. And I've included Staff Exhibit 2 now just for administrative efficiency. Even though it relates to Newington, we'll just have it marked it for now. It won't be referred to in this portion of the testimony.  CHAIRMAN IGNATIUS: All right. With that, we'll mark for identification Staff Exhibit 1, the September 8, 2011 filing; and Staff Exhibit 2, the October 12, 2011 filing.  (Staff Exhibits 1 and 2 marked for	1 2 3 A. 4 5 6 7 8 9 10 Q. 11 A. 12 13 14 15 16 17 18 Q. 19 20 21 22 A.	other line edits to make to your non-Newington testimony presented as Staff Exhibit 1?  I've got two minor corrections/changes to make.  On Page 31, Line 18, you'll see the word "prepared" in parentheses. I'm not sure how that got in there. It's intended to be a quote. And so if we could strike the word "prepared" from that line.  Any others?  Yes. On just give me one moment. It's on Page 38, Line 11. It reads, "close this gap." I'd just like to insert the word "information" before the word "gap." It should read "close this information gap."  And those are the two changes that I wanted to make.  Thank you very much.  Since we are on Page 38 of your testimony, Mr. McCluskey, can we draw attention to Lines 5 through 11?  Okay. Yes.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	ΓNES	with Indicated Redactions. Is the information in each exactly the same, other than that updated format?  MR. SPEIDEL: That is correct, Commissioner Harrington, but for one element. The redaction format was updated in this version. That's why I distributed it as such. And also, Staff had inadvertently omitted Staff Exhibit 15 at the time of the July filing. So this is including all Staff exhibits. But the information is substantively the same. And I've included Staff Exhibit 2 now just for administrative efficiency. Even though it relates to Newington, we'll just have it marked it for now. It won't be referred to in this portion of the testimony.  CHAIRMAN IGNATIUS: All right. With that, we'll mark for identification Staff Exhibit 1, the September 8, 2011 filing; and Staff Exhibit 2, the October 12, 2011 filing.	1 2 3 A. 4 5 6 7 8 9 10 Q. 11 A. 12 13 14 15 16 17 18 Q. 19 20 21	other line edits to make to your non-Newington testimony presented as Staff Exhibit 1?  I've got two minor corrections/changes to make.  On Page 31, Line 18, you'll see the word "prepared" in parentheses. I'm not sure how that got in there. It's intended to be a quote. And so if we could strike the word "prepared" from that line.  Any others?  Yes. On just give me one moment. It's on Page 38, Line 11. It reads, "close this gap." I'd just like to insert the word "information" before the word "gap." It should read "close this information gap."  And those are the two changes that I wanted to make.  Thank you very much.  Since we are on Page 38 of your testimony, Mr. McCluskey, can we draw attention to Lines 5 through 11?  Okay. Yes.

[WITNE:	DE 10-261 PUBLIC SERVICE COMPANY ( SS: McCluskey] Page 57	_	SS: McCluskey] Page 59
[******			
1	achieve a declining savings potential is the	1	this particular exhibit breaks down into the
2	inclusion of fuel-blind programs in the	2	residential and C & I classes information
3	Company's calculations. Now, we're talking	3	that is in the Exhibit IV-7, just above.
4	about energy-saving programs; correct?	4	And in particular what I'm focusing on is
5 A.		5	the first column, the Residential Program
6 Q.	•	6	Expenditures, and the associated savings
7 A.	Yes, I was. The Company submitted a	7	that result from those expenditures which
8	response to a Staff discovery request. I	8	are shown in the third column. And in my
9	believe it was the response is actually	9	testimony I'm talking about the increasing
10	dated December of 2011, which is several	10	cost of programs and the expenditures and
11	months after the filing of the testimony.	11	the declining savings. So in my testimony I
12	So I believe the question was issued	12	was speculating as to what was the cause of
13	subsequent to the Company filing its	13	this significant difference in these two
14	rebuttal testimony.	14	trends.
15 Q.	Very good. So do you mind if I were to	15	In the response that we received
16	distribute this?	16	from I'd requested them to break down the
	Please.	17	program expenditures into electric program
18 Q.	Excellent.	18	expenditures and what they refer to as
19	CHAIRMAN IGNATIUS: So this is a	19	"non-electric program expenditures," and
20	three-page exhibit, a cover letter and then	20	which this first response does.
21	two data responses; is that correct?	21	And so I think the primary reasons for
22	MR. SPEIDEL: That is correct.	22	this difference is that, while the first
23	I would like to have these exhibits marked	23	column of expenditures includes the costs of
24	collectively as Staff Exhibit 3.	24	non-electric programs, the savings does not.
[WITNE:	SS: McCluskey] Page 58	[WITNES	SS: McCluskey] Page 60
1	CHAIRMAN IGNATIUS: So marked	1	So we're showing that apples-to-oranges
	CHAIRMAN IGNATIUS: So marked for identification.	1 2	So we're showing that apples-to-oranges comparison. And the reason it does not is
1 2 3	CHAIRMAN IGNATIUS: So marked for identification. (Staff 3 marked for identification.)	1 2 3	So we're showing that apples-to-oranges comparison. And the reason it does not is because the savings that are produced by
1 2 3 4 Q.	CHAIRMAN IGNATIUS: So marked for identification. (Staff 3 marked for identification.) All right. Mr. McCluskey, are you ready to	1 2 3 4	So we're showing that apples-to-oranges comparison. And the reason it does not is because the savings that are produced by those non-electric programs are not electric
1 2 3 4 Q.	CHAIRMAN IGNATIUS: So marked for identification. (Staff 3 marked for identification.) All right. Mr. McCluskey, are you ready to discuss these matters?	1 2 3 4 5	So we're showing that apples-to-oranges comparison. And the reason it does not is because the savings that are produced by those non-electric programs are not electric savings. That's what the purpose of this
1 2 3 4 Q. 5 6 A.	CHAIRMAN IGNATIUS: So marked for identification.  (Staff 3 marked for identification.) All right. Mr. McCluskey, are you ready to discuss these matters?  Yes. Now, this part of my testimony, you'll	1 2 3 4 5 6	So we're showing that apples-to-oranges comparison. And the reason it does not is because the savings that are produced by those non-electric programs are not electric savings. That's what the purpose of this filing is, is to do with the impacts of
1 2 3 4 Q. 5 6 A.	CHAIRMAN IGNATIUS: So marked for identification.  (Staff 3 marked for identification.)  All right. Mr. McCluskey, are you ready to discuss these matters?  Yes. Now, this part of my testimony, you'll see actually, if you turn the page back	1 2 3 4 5 6 7	So we're showing that apples-to-oranges comparison. And the reason it does not is because the savings that are produced by those non-electric programs are not electric savings. That's what the purpose of this filing is, is to do with the impacts of programs on the electric utility. The
1 2 3 4 Q. 5 6 A. 7	CHAIRMAN IGNATIUS: So marked for identification.  (Staff 3 marked for identification.)  All right. Mr. McCluskey, are you ready to discuss these matters?  Yes. Now, this part of my testimony, you'll see actually, if you turn the page back to 37, you'll see that I'm discussing	1 2 3 4 5 6 7 8	So we're showing that apples-to-oranges comparison. And the reason it does not is because the savings that are produced by those non-electric programs are not electric savings. That's what the purpose of this filing is, is to do with the impacts of programs on the electric utility. The actual savings could relate to natural gas,
1 2 3 4 Q. 5 6 A. 7 8	CHAIRMAN IGNATIUS: So marked for identification.  (Staff 3 marked for identification.) All right. Mr. McCluskey, are you ready to discuss these matters?  Yes. Now, this part of my testimony, you'll see actually, if you turn the page back to 37, you'll see that I'm discussing Exhibit IV-8 of the Company's filing, which	1 2 3 4 5 6 7 8	So we're showing that apples-to-oranges comparison. And the reason it does not is because the savings that are produced by those non-electric programs are not electric savings. That's what the purpose of this filing is, is to do with the impacts of programs on the electric utility. The actual savings could relate to natural gas, or more likely fuel oil that the
1 2 3 4 Q. 5 6 A. 7 8 9	CHAIRMAN IGNATIUS: So marked for identification.  (Staff 3 marked for identification.) All right. Mr. McCluskey, are you ready to discuss these matters? Yes. Now, this part of my testimony, you'll see actually, if you turn the page back to 37, you'll see that I'm discussing Exhibit IV-8 of the Company's filing, which was on Page 55 of their filing.	1 2 3 4 5 6 7 8 9	So we're showing that apples-to-oranges comparison. And the reason it does not is because the savings that are produced by those non-electric programs are not electric savings. That's what the purpose of this filing is, is to do with the impacts of programs on the electric utility. The actual savings could relate to natural gas, or more likely fuel oil that the consumers that the participants in these
1 2 3 4 Q. 5 6 A. 7 8 9 10 11 Q.	CHAIRMAN IGNATIUS: So marked for identification.  (Staff 3 marked for identification.) All right. Mr. McCluskey, are you ready to discuss these matters? Yes. Now, this part of my testimony, you'll see actually, if you turn the page back to 37, you'll see that I'm discussing Exhibit IV-8 of the Company's filing, which was on Page 55 of their filing. So, shall we turn to that?	1 2 3 4 5 6 7 8 9 10	So we're showing that apples-to-oranges comparison. And the reason it does not is because the savings that are produced by those non-electric programs are not electric savings. That's what the purpose of this filing is, is to do with the impacts of programs on the electric utility. The actual savings could relate to natural gas, or more likely fuel oil that the consumers that the participants in these non-electric programs would actually
1 2 3 4 Q. 5 6 A. 7 8 9 10 11 Q. 12 A.	CHAIRMAN IGNATIUS: So marked for identification.  (Staff 3 marked for identification.)  All right. Mr. McCluskey, are you ready to discuss these matters?  Yes. Now, this part of my testimony, you'll see actually, if you turn the page back to 37, you'll see that I'm discussing  Exhibit IV-8 of the Company's filing, which was on Page 55 of their filing.  So, shall we turn to that?  Yes, I've got it. Mr. Speidel, did I get a	1 2 3 4 5 6 7 8 9 10 11 12	So we're showing that apples-to-oranges comparison. And the reason it does not is because the savings that are produced by those non-electric programs are not electric savings. That's what the purpose of this filing is, is to do with the impacts of programs on the electric utility. The actual savings could relate to natural gas, or more likely fuel oil that the consumers that the participants in these non-electric programs would actually consume, more than likely heating their
1 2 3 4 Q. 5 6 A. 7 8 9 10 11 Q. 12 A. 13	CHAIRMAN IGNATIUS: So marked for identification.  (Staff 3 marked for identification.) All right. Mr. McCluskey, are you ready to discuss these matters? Yes. Now, this part of my testimony, you'll see actually, if you turn the page back to 37, you'll see that I'm discussing Exhibit IV-8 of the Company's filing, which was on Page 55 of their filing. So, shall we turn to that? Yes, I've got it. Mr. Speidel, did I get a copy of the	1 2 3 4 5 6 7 8 9 10 11 12	So we're showing that apples-to-oranges comparison. And the reason it does not is because the savings that are produced by those non-electric programs are not electric savings. That's what the purpose of this filing is, is to do with the impacts of programs on the electric utility. The actual savings could relate to natural gas, or more likely fuel oil that the consumers that the participants in these non-electric programs would actually consume, more than likely heating their homes.
1 2 3 4 Q. 5 6 A. 7 8 9 10 11 Q. 12 A. 13 14 Q.	CHAIRMAN IGNATIUS: So marked for identification.  (Staff 3 marked for identification.) All right. Mr. McCluskey, are you ready to discuss these matters? Yes. Now, this part of my testimony, you'll see actually, if you turn the page back to 37, you'll see that I'm discussing Exhibit IV-8 of the Company's filing, which was on Page 55 of their filing. So, shall we turn to that? Yes, I've got it. Mr. Speidel, did I get a copy of the Of the filing itself?	1 2 3 4 5 6 7 8 9 10 11 12 13 14	So we're showing that apples-to-oranges comparison. And the reason it does not is because the savings that are produced by those non-electric programs are not electric savings. That's what the purpose of this filing is, is to do with the impacts of programs on the electric utility. The actual savings could relate to natural gas, or more likely fuel oil that the consumers that the participants in these non-electric programs would actually consume, more than likely heating their homes.  So this response clarifies that the
1 2 3 4 Q. 5 6 A. 7 8 9 10 11 Q. 12 A. 13 14 Q. 15 A.	CHAIRMAN IGNATIUS: So marked for identification.  (Staff 3 marked for identification.) All right. Mr. McCluskey, are you ready to discuss these matters? Yes. Now, this part of my testimony, you'll see actually, if you turn the page back to 37, you'll see that I'm discussing Exhibit IV-8 of the Company's filing, which was on Page 55 of their filing. So, shall we turn to that? Yes, I've got it. Mr. Speidel, did I get a copy of the Of the filing itself? No, of the discovery responses.	1 2 3 4 5 6 7 8 9 10 11 12 13 14	So we're showing that apples-to-oranges comparison. And the reason it does not is because the savings that are produced by those non-electric programs are not electric savings. That's what the purpose of this filing is, is to do with the impacts of programs on the electric utility. The actual savings could relate to natural gas, or more likely fuel oil that the consumers that the participants in these non-electric programs would actually consume, more than likely heating their homes.  So this response clarifies that the expenditures actually include non-electric
1 2 3 4 Q. 5 6 A. 7 8 9 10 11 Q. 12 A. 13 14 Q. 15 A. 16 Q.	CHAIRMAN IGNATIUS: So marked for identification.  (Staff 3 marked for identification.) All right. Mr. McCluskey, are you ready to discuss these matters? Yes. Now, this part of my testimony, you'll see actually, if you turn the page back to 37, you'll see that I'm discussing Exhibit IV-8 of the Company's filing, which was on Page 55 of their filing. So, shall we turn to that? Yes, I've got it. Mr. Speidel, did I get a copy of the Of the filing itself? No, of the discovery responses. Just one moment, please.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	So we're showing that apples-to-oranges comparison. And the reason it does not is because the savings that are produced by those non-electric programs are not electric savings. That's what the purpose of this filing is, is to do with the impacts of programs on the electric utility. The actual savings could relate to natural gas, or more likely fuel oil that the consumers that the participants in these non-electric programs would actually consume, more than likely heating their homes.  So this response clarifies that the expenditures actually include non-electric expenditures. And Mr. Large confirmed, I
1 2 3 4 Q. 5 6 A. 7 8 9 10 11 Q. 12 A. 13 14 Q. 15 A. 16 Q. 17 A.	CHAIRMAN IGNATIUS: So marked for identification.  (Staff 3 marked for identification.) All right. Mr. McCluskey, are you ready to discuss these matters? Yes. Now, this part of my testimony, you'll see actually, if you turn the page back to 37, you'll see that I'm discussing Exhibit IV-8 of the Company's filing, which was on Page 55 of their filing. So, shall we turn to that? Yes, I've got it. Mr. Speidel, did I get a copy of the Of the filing itself? No, of the discovery responses. Just one moment, please. Okay.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	So we're showing that apples-to-oranges comparison. And the reason it does not is because the savings that are produced by those non-electric programs are not electric savings. That's what the purpose of this filing is, is to do with the impacts of programs on the electric utility. The actual savings could relate to natural gas, or more likely fuel oil that the consumers that the participants in these non-electric programs would actually consume, more than likely heating their homes.  So this response clarifies that the expenditures actually include non-electric expenditures. And Mr. Large confirmed, I believe it was yesterday, that Column 3 does
1 2 3 4 Q. 5 6 A. 7 8 9 10 11 Q. 12 A. 13 14 Q. 15 A. 16 Q. 17 A. 18	CHAIRMAN IGNATIUS: So marked for identification.  (Staff 3 marked for identification.) All right. Mr. McCluskey, are you ready to discuss these matters? Yes. Now, this part of my testimony, you'll see actually, if you turn the page back to 37, you'll see that I'm discussing Exhibit IV-8 of the Company's filing, which was on Page 55 of their filing. So, shall we turn to that? Yes, I've got it. Mr. Speidel, did I get a copy of the Of the filing itself? No, of the discovery responses. Just one moment, please. Okay.  MR. McCLUSKEY: Commissioners,	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	So we're showing that apples-to-oranges comparison. And the reason it does not is because the savings that are produced by those non-electric programs are not electric savings. That's what the purpose of this filing is, is to do with the impacts of programs on the electric utility. The actual savings could relate to natural gas, or more likely fuel oil that the consumers that the participants in these non-electric programs would actually consume, more than likely heating their homes.  So this response clarifies that the expenditures actually include non-electric expenditures. And Mr. Large confirmed, I believe it was yesterday, that Column 3 does not include any savings from the
1 2 3 4 Q. 5 6 A. 7 8 9 10 11 Q. 12 A. 13 14 Q. 15 A. 16 Q. 17 A. 18 19	CHAIRMAN IGNATIUS: So marked for identification.  (Staff 3 marked for identification.) All right. Mr. McCluskey, are you ready to discuss these matters? Yes. Now, this part of my testimony, you'll see actually, if you turn the page back to 37, you'll see that I'm discussing Exhibit IV-8 of the Company's filing, which was on Page 55 of their filing. So, shall we turn to that? Yes, I've got it. Mr. Speidel, did I get a copy of the Of the filing itself? No, of the discovery responses. Just one moment, please. Okay.  MR. McCLUSKEY: Commissioners, if you're looking at this exhibit, IV-8	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	So we're showing that apples-to-oranges comparison. And the reason it does not is because the savings that are produced by those non-electric programs are not electric savings. That's what the purpose of this filing is, is to do with the impacts of programs on the electric utility. The actual savings could relate to natural gas, or more likely fuel oil that the consumers that the participants in these non-electric programs would actually consume, more than likely heating their homes.  So this response clarifies that the expenditures actually include non-electric expenditures. And Mr. Large confirmed, I believe it was yesterday, that Column 3 does not include any savings from the non-electric programs.
1 2 3 4 Q. 5 6 A. 7 8 9 10 11 Q. 12 A. 13 14 Q. 15 A. 16 Q. 17 A. 18 19 20	CHAIRMAN IGNATIUS: So marked for identification.  (Staff 3 marked for identification.) All right. Mr. McCluskey, are you ready to discuss these matters? Yes. Now, this part of my testimony, you'll see actually, if you turn the page back to 37, you'll see that I'm discussing Exhibit IV-8 of the Company's filing, which was on Page 55 of their filing. So, shall we turn to that? Yes, I've got it. Mr. Speidel, did I get a copy of the Of the filing itself? No, of the discovery responses. Just one moment, please. Okay.  MR. McCLUSKEY: Commissioners, if you're looking at this exhibit, IV-8 CMSR. HARRINGTON: What page	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	So we're showing that apples-to-oranges comparison. And the reason it does not is because the savings that are produced by those non-electric programs are not electric savings. That's what the purpose of this filing is, is to do with the impacts of programs on the electric utility. The actual savings could relate to natural gas, or more likely fuel oil that the consumers that the participants in these non-electric programs would actually consume, more than likely heating their homes.  So this response clarifies that the expenditures actually include non-electric expenditures. And Mr. Large confirmed, I believe it was yesterday, that Column 3 does not include any savings from the non-electric programs.  CMSR. HARRINGTON: Excuse me.
1 2 3 4 Q. 5 6 A. 7 8 9 10 11 Q. 12 A. 13 14 Q. 15 A. 16 Q. 17 A. 18 19 20 21	CHAIRMAN IGNATIUS: So marked for identification.  (Staff 3 marked for identification.) All right. Mr. McCluskey, are you ready to discuss these matters? Yes. Now, this part of my testimony, you'll see actually, if you turn the page back to 37, you'll see that I'm discussing Exhibit IV-8 of the Company's filing, which was on Page 55 of their filing. So, shall we turn to that? Yes, I've got it. Mr. Speidel, did I get a copy of the Of the filing itself? No, of the discovery responses. Just one moment, please. Okay.  MR. McCLUSKEY: Commissioners, if you're looking at this exhibit, IV-8 CMSR. HARRINGTON: What page again?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	So we're showing that apples-to-oranges comparison. And the reason it does not is because the savings that are produced by those non-electric programs are not electric savings. That's what the purpose of this filing is, is to do with the impacts of programs on the electric utility. The actual savings could relate to natural gas, or more likely fuel oil that the consumers that the participants in these non-electric programs would actually consume, more than likely heating their homes.  So this response clarifies that the expenditures actually include non-electric expenditures. And Mr. Large confirmed, I believe it was yesterday, that Column 3 does not include any savings from the non-electric programs.  CMSR. HARRINGTON: Excuse me. When you say "Column 3," could you be clear as
1 2 3 4 Q. 5 6 A. 7 8 9 10 11 Q. 12 A. 13 14 Q. 15 A. 16 Q. 17 A. 18 19 20 21 22	CHAIRMAN IGNATIUS: So marked for identification.  (Staff 3 marked for identification.) All right. Mr. McCluskey, are you ready to discuss these matters? Yes. Now, this part of my testimony, you'll see actually, if you turn the page back to 37, you'll see that I'm discussing Exhibit IV-8 of the Company's filing, which was on Page 55 of their filing. So, shall we turn to that? Yes, I've got it. Mr. Speidel, did I get a copy of the Of the filing itself? No, of the discovery responses. Just one moment, please. Okay.  MR. McCLUSKEY: Commissioners, if you're looking at this exhibit, IV-8 CMSR. HARRINGTON: What page again? MR. McCLUSKEY: Page 55 of the	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	So we're showing that apples-to-oranges comparison. And the reason it does not is because the savings that are produced by those non-electric programs are not electric savings. That's what the purpose of this filing is, is to do with the impacts of programs on the electric utility. The actual savings could relate to natural gas, or more likely fuel oil that the consumers that the participants in these non-electric programs would actually consume, more than likely heating their homes.  So this response clarifies that the expenditures actually include non-electric expenditures. And Mr. Large confirmed, I believe it was yesterday, that Column 3 does not include any savings from the non-electric programs.  CMSR. HARRINGTON: Excuse me. When you say "Column 3," could you be clear as to which chart you're referring to?
1 2 3 4 Q. 5 6 A. 7 8 9 10 11 Q. 12 A. 13 14 Q. 15 A. 16 Q. 17 A. 18 19 20 21	CHAIRMAN IGNATIUS: So marked for identification.  (Staff 3 marked for identification.) All right. Mr. McCluskey, are you ready to discuss these matters? Yes. Now, this part of my testimony, you'll see actually, if you turn the page back to 37, you'll see that I'm discussing Exhibit IV-8 of the Company's filing, which was on Page 55 of their filing. So, shall we turn to that? Yes, I've got it. Mr. Speidel, did I get a copy of the Of the filing itself? No, of the discovery responses. Just one moment, please. Okay.  MR. McCLUSKEY: Commissioners, if you're looking at this exhibit, IV-8 CMSR. HARRINGTON: What page again?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	So we're showing that apples-to-oranges comparison. And the reason it does not is because the savings that are produced by those non-electric programs are not electric savings. That's what the purpose of this filing is, is to do with the impacts of programs on the electric utility. The actual savings could relate to natural gas, or more likely fuel oil that the consumers that the participants in these non-electric programs would actually consume, more than likely heating their homes.  So this response clarifies that the expenditures actually include non-electric expenditures. And Mr. Large confirmed, I believe it was yesterday, that Column 3 does not include any savings from the non-electric programs.  CMSR. HARRINGTON: Excuse me. When you say "Column 3," could you be clear as

DA (1775)	DE 10-261 PUBLIC SERVICE COMPANY		
[WITNE	SS: McCluskey] Page 61	WITNES	SS: McCluskey] Page 63
1	Exhibit IV-8. And the third column is headed	1	not are increasing rapidly is not in
2	"Residential Annualized Savings" in megawatt	2	itself a major concern; it's the issue of
3	hours. Okay?	3	the non-fuel savings. Those programs
4 A.	So the if I could kind of step back a	4	MR. McCLUSKEY: Yes,
5	little bit. And this exhibit is headed	5	Commissioner?
6	"Market Potential By Customer Sector." So,	6	CHAIRMAN IGNATIUS: I just want
7	what is the market potential? The prior	7	to remind you, let's not get into a
8	exhibit referred to a market potential	8	re-statement of all of your testimony that's
9	scenario. What is so what does that	9	prefiled. It's only the items in rebuttal
10	market potential scenario mean? Is this the	10	testimony that came up yesterday or earlier
11	Company's plan for de-modified management?	11	today that you need to speak to. Otherwise,
12	Is this a guide? It doesn't actually say.	12	we're not having everyone restate everything.
13	It refers to a scenario. It's in a Least	13	MR. McCLUSKEY: Okay.
14	Cost Plan document. Are we to understand	14	CHAIRMAN IGNATIUS: So I
15	that this is where the Company would want to	15	understand this exhibit was in response to the
16	go? If so, the rising expenditures, which	16	rebuttal, but the general principles I think
17	are significant from for the residential	17	you do go into in your prefiled testimony.
18	class only, from just over \$6 million to	18	MR. McCLUSKEY: Yes. And it's
19	\$18 million is a significant increase. So,	19	what is done with the non-electric savings
20	if it is intended to be a plan or a guide to	20	which is my primary concern, and it goes to
21	where they would want to go, then obviously	21	the heart of least cost planning.
22	they would need to find a way to fund that	22 A.	Least cost planning is generally regarded as
23	larger expenditure that is going to produce	23	a plan to minimize costs for that specific
24	a declining electric energy savings, but	24	utility for the benefit of the consumers of
[WITNE	SS: McCluskey] Page 62	[WITNES	SS: McCluskey] Page 64
[WITNE		[WITNES	
	also these additional non-electric savings as well.		that utility. If dollars are being expended
1	also these additional non-electric savings	1	
1 2	also these additional non-electric savings as well.	1 2	that utility. If dollars are being expended on programs for customers that are not
1 2 3	also these additional non-electric savings as well.  So it's not totally clear to me what	1 2 3	that utility. If dollars are being expended on programs for customers that are not customers of the utility itself, then it
1 2 3 4	also these additional non-electric savings as well.  So it's not totally clear to me what this scenario is. But I simply wanted to	1 2 3 4	that utility. If dollars are being expended on programs for customers that are not customers of the utility itself, then it would seem inappropriate to include the
1 2 3 4 5	also these additional non-electric savings as well.  So it's not totally clear to me what this scenario is. But I simply wanted to point out to the Commission that, one, the	1 2 3 4 5	that utility. If dollars are being expended on programs for customers that are not customers of the utility itself, then it would seem inappropriate to include the value of those non-electric savings in any
1 2 3 4 5	also these additional non-electric savings as well.  So it's not totally clear to me what this scenario is. But I simply wanted to point out to the Commission that, one, the rising expenditures level is really	1 2 3 4 5 6	that utility. If dollars are being expended on programs for customers that are not customers of the utility itself, then it would seem inappropriate to include the value of those non-electric savings in any test to determine whether this plan or
1 2 3 4 5 6 7	also these additional non-electric savings as well.  So it's not totally clear to me what this scenario is. But I simply wanted to point out to the Commission that, one, the rising expenditures level is really significant; and, two, it doesn't include	1 2 3 4 5 6	that utility. If dollars are being expended on programs for customers that are not customers of the utility itself, then it would seem inappropriate to include the value of those non-electric savings in any test to determine whether this plan or guideline is cost-effective for consumers.
1 2 3 4 5 6 7 8	also these additional non-electric savings as well.  So it's not totally clear to me what this scenario is. But I simply wanted to point out to the Commission that, one, the rising expenditures level is really significant; and, two, it doesn't include these other savings. And that's the next	1 2 3 4 5 6 7 8	that utility. If dollars are being expended on programs for customers that are not customers of the utility itself, then it would seem inappropriate to include the value of those non-electric savings in any test to determine whether this plan or guideline is cost-effective for consumers.  And, again, we heard from Mr. Large
1 2 3 4 5 6 7 8	also these additional non-electric savings as well.  So it's not totally clear to me what this scenario is. But I simply wanted to point out to the Commission that, one, the rising expenditures level is really significant; and, two, it doesn't include these other savings. And that's the next and the fact that it doesn't include the	1 2 3 4 5 6 7 8	that utility. If dollars are being expended on programs for customers that are not customers of the utility itself, then it would seem inappropriate to include the value of those non-electric savings in any test to determine whether this plan or guideline is cost-effective for consumers.  And, again, we heard from Mr. Large yesterday that, when the Company calculated what's called a "total resource cost ratio," which is the standard test that is used to
1 2 3 4 5 6 7 8 9	also these additional non-electric savings as well.  So it's not totally clear to me what this scenario is. But I simply wanted to point out to the Commission that, one, the rising expenditures level is really significant; and, two, it doesn't include these other savings. And that's the next and the fact that it doesn't include the non-electric savings that I want to talk about later.  If we just assume that this is a plan	1 2 3 4 5 6 7 8 9	that utility. If dollars are being expended on programs for customers that are not customers of the utility itself, then it would seem inappropriate to include the value of those non-electric savings in any test to determine whether this plan or guideline is cost-effective for consumers.  And, again, we heard from Mr. Large yesterday that, when the Company calculated what's called a "total resource cost ratio," which is the standard test that is used to determine whether a set of programs are
1 2 3 4 5 6 7 8 9 10	also these additional non-electric savings as well.  So it's not totally clear to me what this scenario is. But I simply wanted to point out to the Commission that, one, the rising expenditures level is really significant; and, two, it doesn't include these other savings. And that's the next—and the fact that it doesn't include the non-electric savings that I want to talk about later.  If we just assume that this is a plan where the Company would like to go, or at	1 2 3 4 5 6 7 8 9 10	that utility. If dollars are being expended on programs for customers that are not customers of the utility itself, then it would seem inappropriate to include the value of those non-electric savings in any test to determine whether this plan or guideline is cost-effective for consumers.  And, again, we heard from Mr. Large yesterday that, when the Company calculated what's called a "total resource cost ratio," which is the standard test that is used to determine whether a set of programs are cost-effective, they used, on the benefit
1 2 3 4 5 6 7 8 9 10 11	also these additional non-electric savings as well.  So it's not totally clear to me what this scenario is. But I simply wanted to point out to the Commission that, one, the rising expenditures level is really significant; and, two, it doesn't include these other savings. And that's the next and the fact that it doesn't include the non-electric savings that I want to talk about later.  If we just assume that this is a plan where the Company would like to go, or at least it's guidance for regulators as to	1 2 3 4 5 6 7 8 9 10 11 12 13	that utility. If dollars are being expended on programs for customers that are not customers of the utility itself, then it would seem inappropriate to include the value of those non-electric savings in any test to determine whether this plan or guideline is cost-effective for consumers.  And, again, we heard from Mr. Large yesterday that, when the Company calculated what's called a "total resource cost ratio," which is the standard test that is used to determine whether a set of programs are cost-effective, they used, on the benefit side, not just the value of the electric
1 2 3 4 5 6 7 8 9 10 11 12	also these additional non-electric savings as well.  So it's not totally clear to me what this scenario is. But I simply wanted to point out to the Commission that, one, the rising expenditures level is really significant; and, two, it doesn't include these other savings. And that's the next and the fact that it doesn't include the non-electric savings that I want to talk about later.  If we just assume that this is a plan where the Company would like to go, or at least it's guidance for regulators as to what they perhaps would like to consider,	1 2 3 4 5 6 7 8 9 10 11 12 13 14	that utility. If dollars are being expended on programs for customers that are not customers of the utility itself, then it would seem inappropriate to include the value of those non-electric savings in any test to determine whether this plan or guideline is cost-effective for consumers.  And, again, we heard from Mr. Large yesterday that, when the Company calculated what's called a "total resource cost ratio," which is the standard test that is used to determine whether a set of programs are cost-effective, they used, on the benefit side, not just the value of the electric savings consistent with this exhibit, but
1 2 3 4 5 6 7 8 9 10 11 12 13	also these additional non-electric savings as well.  So it's not totally clear to me what this scenario is. But I simply wanted to point out to the Commission that, one, the rising expenditures level is really significant; and, two, it doesn't include these other savings. And that's the next—and the fact that it doesn't include the non-electric savings that I want to talk about later.  If we just assume that this is a plan where the Company would like to go, or at least it's guidance for regulators as to what they perhaps would like to consider, the fact that the dollars are increasing	1 2 3 4 5 6 7 8 9 10 11 12 13	that utility. If dollars are being expended on programs for customers that are not customers of the utility itself, then it would seem inappropriate to include the value of those non-electric savings in any test to determine whether this plan or guideline is cost-effective for consumers.  And, again, we heard from Mr. Large yesterday that, when the Company calculated what's called a "total resource cost ratio," which is the standard test that is used to determine whether a set of programs are cost-effective, they used, on the benefit side, not just the value of the electric savings consistent with this exhibit, but also the value of the non-electric savings,
1 2 3 4 5 6 7 8 9 10 11 12 13 14	also these additional non-electric savings as well.  So it's not totally clear to me what this scenario is. But I simply wanted to point out to the Commission that, one, the rising expenditures level is really significant; and, two, it doesn't include these other savings. And that's the next and the fact that it doesn't include the non-electric savings that I want to talk about later.  If we just assume that this is a plan where the Company would like to go, or at least it's guidance for regulators as to what they perhaps would like to consider, the fact that the dollars are increasing significantly, in my mind, should not be a	1 2 3 4 5 6 7 8 9 10 11 12 13 14	that utility. If dollars are being expended on programs for customers that are not customers of the utility itself, then it would seem inappropriate to include the value of those non-electric savings in any test to determine whether this plan or guideline is cost-effective for consumers.  And, again, we heard from Mr. Large yesterday that, when the Company calculated what's called a "total resource cost ratio," which is the standard test that is used to determine whether a set of programs are cost-effective, they used, on the benefit side, not just the value of the electric savings consistent with this exhibit, but also the value of the non-electric savings, which would provide no benefits to the
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	also these additional non-electric savings as well.  So it's not totally clear to me what this scenario is. But I simply wanted to point out to the Commission that, one, the rising expenditures level is really significant; and, two, it doesn't include these other savings. And that's the next and the fact that it doesn't include the non-electric savings that I want to talk about later.  If we just assume that this is a plan where the Company would like to go, or at least it's guidance for regulators as to what they perhaps would like to consider, the fact that the dollars are increasing significantly, in my mind, should not be a concern if the programs themselves are	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	that utility. If dollars are being expended on programs for customers that are not customers of the utility itself, then it would seem inappropriate to include the value of those non-electric savings in any test to determine whether this plan or guideline is cost-effective for consumers.  And, again, we heard from Mr. Large yesterday that, when the Company calculated what's called a "total resource cost ratio," which is the standard test that is used to determine whether a set of programs are cost-effective, they used, on the benefit side, not just the value of the electric savings consistent with this exhibit, but also the value of the non-electric savings, which would provide no benefits to the electric customers.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	also these additional non-electric savings as well.  So it's not totally clear to me what this scenario is. But I simply wanted to point out to the Commission that, one, the rising expenditures level is really significant; and, two, it doesn't include these other savings. And that's the next and the fact that it doesn't include the non-electric savings that I want to talk about later.  If we just assume that this is a plan where the Company would like to go, or at least it's guidance for regulators as to what they perhaps would like to consider, the fact that the dollars are increasing significantly, in my mind, should not be a concern if the programs themselves are cost-effective. Because if they are	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	that utility. If dollars are being expended on programs for customers that are not customers of the utility itself, then it would seem inappropriate to include the value of those non-electric savings in any test to determine whether this plan or guideline is cost-effective for consumers.  And, again, we heard from Mr. Large yesterday that, when the Company calculated what's called a "total resource cost ratio," which is the standard test that is used to determine whether a set of programs are cost-effective, they used, on the benefit side, not just the value of the electric savings consistent with this exhibit, but also the value of the non-electric savings, which would provide no benefits to the electric customers.  So it's that after realizing the
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	also these additional non-electric savings as well.  So it's not totally clear to me what this scenario is. But I simply wanted to point out to the Commission that, one, the rising expenditures level is really significant; and, two, it doesn't include these other savings. And that's the next—and the fact that it doesn't include the non-electric savings that I want to talk about later.  If we just assume that this is a plan where the Company would like to go, or at least it's guidance for regulators as to what they perhaps would like to consider, the fact that the dollars are increasing significantly, in my mind, should not be a concern if the programs themselves are cost-effective. Because if they are cost-effective, it's essentially saying,	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	that utility. If dollars are being expended on programs for customers that are not customers of the utility itself, then it would seem inappropriate to include the value of those non-electric savings in any test to determine whether this plan or guideline is cost-effective for consumers.  And, again, we heard from Mr. Large yesterday that, when the Company calculated what's called a "total resource cost ratio," which is the standard test that is used to determine whether a set of programs are cost-effective, they used, on the benefit side, not just the value of the electric savings consistent with this exhibit, but also the value of the non-electric savings, which would provide no benefits to the electric customers.  So it's that after realizing the magnitude of the non-electric component of
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	also these additional non-electric savings as well.  So it's not totally clear to me what this scenario is. But I simply wanted to point out to the Commission that, one, the rising expenditures level is really significant; and, two, it doesn't include these other savings. And that's the next and the fact that it doesn't include the non-electric savings that I want to talk about later.  If we just assume that this is a plan where the Company would like to go, or at least it's guidance for regulators as to what they perhaps would like to consider, the fact that the dollars are increasing significantly, in my mind, should not be a concern if the programs themselves are cost-effective. Because if they are cost-effective, it's essentially saying, well, we think we could substantially expand	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	that utility. If dollars are being expended on programs for customers that are not customers of the utility itself, then it would seem inappropriate to include the value of those non-electric savings in any test to determine whether this plan or guideline is cost-effective for consumers.  And, again, we heard from Mr. Large yesterday that, when the Company calculated what's called a "total resource cost ratio," which is the standard test that is used to determine whether a set of programs are cost-effective, they used, on the benefit side, not just the value of the electric savings consistent with this exhibit, but also the value of the non-electric savings, which would provide no benefits to the electric customers.  So it's that after realizing the magnitude of the non-electric component of this plan or guideline, that's what raised
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	also these additional non-electric savings as well.  So it's not totally clear to me what this scenario is. But I simply wanted to point out to the Commission that, one, the rising expenditures level is really significant; and, two, it doesn't include these other savings. And that's the next and the fact that it doesn't include the non-electric savings that I want to talk about later.  If we just assume that this is a plan where the Company would like to go, or at least it's guidance for regulators as to what they perhaps would like to consider, the fact that the dollars are increasing significantly, in my mind, should not be a concern if the programs themselves are cost-effective. Because if they are cost-effective, it's essentially saying, well, we think we could substantially expand our programs at some significant cost, but	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	that utility. If dollars are being expended on programs for customers that are not customers of the utility itself, then it would seem inappropriate to include the value of those non-electric savings in any test to determine whether this plan or guideline is cost-effective for consumers.  And, again, we heard from Mr. Large yesterday that, when the Company calculated what's called a "total resource cost ratio," which is the standard test that is used to determine whether a set of programs are cost-effective, they used, on the benefit side, not just the value of the electric savings consistent with this exhibit, but also the value of the non-electric savings, which would provide no benefits to the electric customers.  So it's that after realizing the magnitude of the non-electric component of this plan or guideline, that's what raised the concern for me that the significant
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	also these additional non-electric savings as well.  So it's not totally clear to me what this scenario is. But I simply wanted to point out to the Commission that, one, the rising expenditures level is really significant; and, two, it doesn't include these other savings. And that's the next and the fact that it doesn't include the non-electric savings that I want to talk about later.  If we just assume that this is a plan where the Company would like to go, or at least it's guidance for regulators as to what they perhaps would like to consider, the fact that the dollars are increasing significantly, in my mind, should not be a concern if the programs themselves are cost-effective. Because if they are cost-effective, it's essentially saying, well, we think we could substantially expand our programs at some significant cost, but the savings to consumers would be worth	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	that utility. If dollars are being expended on programs for customers that are not customers of the utility itself, then it would seem inappropriate to include the value of those non-electric savings in any test to determine whether this plan or guideline is cost-effective for consumers.  And, again, we heard from Mr. Large yesterday that, when the Company calculated what's called a "total resource cost ratio," which is the standard test that is used to determine whether a set of programs are cost-effective, they used, on the benefit side, not just the value of the electric savings consistent with this exhibit, but also the value of the non-electric savings, which would provide no benefits to the electric customers.  So it's that after realizing the magnitude of the non-electric component of this plan or guideline, that's what raised the concern for me that the significant component of these expenditures are on
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	also these additional non-electric savings as well.  So it's not totally clear to me what this scenario is. But I simply wanted to point out to the Commission that, one, the rising expenditures level is really significant; and, two, it doesn't include these other savings. And that's the next and the fact that it doesn't include the non-electric savings that I want to talk about later.  If we just assume that this is a plan where the Company would like to go, or at least it's guidance for regulators as to what they perhaps would like to consider, the fact that the dollars are increasing significantly, in my mind, should not be a concern if the programs themselves are cost-effective. Because if they are cost-effective, it's essentially saying, well, we think we could substantially expand our programs at some significant cost, but	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	that utility. If dollars are being expended on programs for customers that are not customers of the utility itself, then it would seem inappropriate to include the value of those non-electric savings in any test to determine whether this plan or guideline is cost-effective for consumers.  And, again, we heard from Mr. Large yesterday that, when the Company calculated what's called a "total resource cost ratio," which is the standard test that is used to determine whether a set of programs are cost-effective, they used, on the benefit side, not just the value of the electric savings consistent with this exhibit, but also the value of the non-electric savings, which would provide no benefits to the electric customers.  So it's that after realizing the magnitude of the non-electric component of this plan or guideline, that's what raised the concern for me that the significant

[WITNESS: McCluskey] Page	65 [WITNESS: McCluskey] Page 67
1 calculated that approximately 50 percent of	1 rate change shall be approved or ordered with
the savings come from the non-electric	respect to any utility that does not have on
3 programs, which, if you take it out of the	3 file with the Commission a plan that has been
4 total resource test, you are going to have a	4 filed and reviewed in accordance with the
5 significant impact on that ratio; perhaps	5 provisions of R.S.A. 378:38 and 378:39." Are
6 bring it down to a level where the electric	6 you familiar with that provision?
<ul><li>programs overall are not cost-effective.</li><li>So I think it's the use of those</li></ul>	7 A. I am, yes. I haven't reviewed that for
1	<ul><li>quite some time, but I am familiar with it.</li><li>Q. And you're familiar with R.S.A. 378:41, which</li></ul>
think is not consistent with the standard practice for least cost planning.	is titled "Conformity of Plans," which basically says that any proceeding before the
12 BY MR. SPEIDEL:	12 Commission, initiated by a utility, shall
13 Q. Does that summarize your testimony to your	include within the context of the hearing and
14 satisfaction?	decision reference to conformity of the
15 A. It does.	decision with the Least Cost Integrated
16 Q. Thank you, Mr. McCluskey.	16 Resource Plan most recently filed and found
17 MR. SPEIDEL: I invite	adequate by the Commission. Are you familiar
18 cross-examination.	with that provision?
19 CHAIRMAN IGNATIUS: Thank you	•
Let's keep the order we've been working with.	20 Q. So, in terms of the viability of the Plan, I
21 Mr. Patch.	guess I didn't hear anybody on the PSNH panel
22 CROSS-EXAMINATION	yesterday cite to either of these statutes and
23 BY MR. PATCH:	the fact that the Plan might have some
24 Q. Good afternoon, Mr. McCluskey.	usefulness and, in fact, would have to meet
[WITNESS: McCluskey] Page	66 [WITNESS: McCluskey] Page 68
[WITNESS: McCluskey] Page  1 A. Good afternoon.	66 [WITNESS: McCluskey] Page 68  1 these requirements of the statute, or that it
1 A. Good afternoon.	these requirements of the statute, or that it
<ul><li>1 A. Good afternoon.</li><li>2 Q. You were here for the testimony yesterday, I</li></ul>	<ul> <li>these requirements of the statute, or that it</li> <li>provided a basis for being able to fulfill the</li> </ul>
<ul> <li>1 A. Good afternoon.</li> <li>2 Q. You were here for the testimony yesterday, I</li> <li>3 believe; correct?</li> </ul>	<ul> <li>these requirements of the statute, or that it</li> <li>provided a basis for being able to fulfill the</li> <li>requirements of these statutes. I don't</li> <li>recall hearing that. Do you recall hearing</li> </ul>
<ol> <li>A. Good afternoon.</li> <li>Q. You were here for the testimony yesterday, I</li> <li>believe; correct?</li> <li>A. Yes.</li> <li>Q. And you heard the questions and the responses with regard to sort of the, I guess I would</li> </ol>	<ul> <li>these requirements of the statute, or that it</li> <li>provided a basis for being able to fulfill the</li> <li>requirements of these statutes. I don't</li> <li>recall hearing that. Do you recall hearing</li> <li>any discussion of that yesterday?</li> <li>A. No, I don't.</li> </ul>
<ol> <li>A. Good afternoon.</li> <li>Q. You were here for the testimony yesterday, I</li> <li>believe; correct?</li> <li>A. Yes.</li> <li>Q. And you heard the questions and the responses with regard to sort of the, I guess I would</li> <li>call it the viability or the usefulness of the</li> </ol>	<ul> <li>these requirements of the statute, or that it</li> <li>provided a basis for being able to fulfill the</li> <li>requirements of these statutes. I don't</li> <li>recall hearing that. Do you recall hearing</li> <li>any discussion of that yesterday?</li> </ul>
<ol> <li>A. Good afternoon.</li> <li>Q. You were here for the testimony yesterday, I believe; correct?</li> <li>A. Yes.</li> <li>Q. And you heard the questions and the responses with regard to sort of the, I guess I would call it the viability or the usefulness of the Plan, including Mr. Large's statement that it,</li> </ol>	<ol> <li>these requirements of the statute, or that it</li> <li>provided a basis for being able to fulfill the</li> <li>requirements of these statutes. I don't</li> <li>recall hearing that. Do you recall hearing</li> <li>any discussion of that yesterday?</li> <li>A. No, I don't.</li> <li>Q. Thank you. That's all the questions I have.</li> <li>A. Thank you.</li> </ol>
<ol> <li>A. Good afternoon.</li> <li>Q. You were here for the testimony yesterday, I believe; correct?</li> <li>A. Yes.</li> <li>Q. And you heard the questions and the responses with regard to sort of the, I guess I would call it the viability or the usefulness of the Plan, including Mr. Large's statement that it, sadly, has very limited value. Do you recall</li> </ol>	<ol> <li>these requirements of the statute, or that it</li> <li>provided a basis for being able to fulfill the</li> <li>requirements of these statutes. I don't</li> <li>recall hearing that. Do you recall hearing</li> <li>any discussion of that yesterday?</li> <li>A. No, I don't.</li> <li>Q. Thank you. That's all the questions I have.</li> <li>A. Thank you.</li> <li>CHAIRMAN IGNATIUS: Mr. Moffatt.</li> </ol>
<ol> <li>A. Good afternoon.</li> <li>Q. You were here for the testimony yesterday, I believe; correct?</li> <li>A. Yes.</li> <li>Q. And you heard the questions and the responses with regard to sort of the, I guess I would call it the viability or the usefulness of the Plan, including Mr. Large's statement that it, sadly, has very limited value. Do you recall that?</li> </ol>	<ol> <li>these requirements of the statute, or that it</li> <li>provided a basis for being able to fulfill the</li> <li>requirements of these statutes. I don't</li> <li>recall hearing that. Do you recall hearing</li> <li>any discussion of that yesterday?</li> <li>A. No, I don't.</li> <li>Q. Thank you. That's all the questions I have.</li> <li>A. Thank you.</li> <li>CHAIRMAN IGNATIUS: Mr. Moffatt.</li> <li>MR. MOFFATT: No questions.</li> </ol>
<ol> <li>A. Good afternoon.</li> <li>Q. You were here for the testimony yesterday, I believe; correct?</li> <li>A. Yes.</li> <li>Q. And you heard the questions and the responses with regard to sort of the, I guess I would call it the viability or the usefulness of the Plan, including Mr. Large's statement that it, sadly, has very limited value. Do you recall that?</li> <li>A. I don't recall Mr. Large saying that, but I</li> </ol>	<ol> <li>these requirements of the statute, or that it</li> <li>provided a basis for being able to fulfill the</li> <li>requirements of these statutes. I don't</li> <li>recall hearing that. Do you recall hearing</li> <li>any discussion of that yesterday?</li> <li>A. No, I don't.</li> <li>Q. Thank you. That's all the questions I have.</li> <li>A. Thank you.</li> <li>CHAIRMAN IGNATIUS: Mr. Moffatt.</li> <li>MR. MOFFATT: No questions.</li> <li>Thank you.</li> </ol>
<ol> <li>A. Good afternoon.</li> <li>Q. You were here for the testimony yesterday, I believe; correct?</li> <li>A. Yes.</li> <li>Q. And you heard the questions and the responses with regard to sort of the, I guess I would call it the viability or the usefulness of the Plan, including Mr. Large's statement that it, sadly, has very limited value. Do you recall that?</li> <li>A. I don't recall Mr. Large saying that, but I know there was a lot of discussion on the</li> </ol>	<ol> <li>these requirements of the statute, or that it</li> <li>provided a basis for being able to fulfill the</li> <li>requirements of these statutes. I don't</li> <li>recall hearing that. Do you recall hearing</li> <li>any discussion of that yesterday?</li> <li>A. No, I don't.</li> <li>Q. Thank you. That's all the questions I have.</li> <li>A. Thank you.</li> <li>CHAIRMAN IGNATIUS: Mr. Moffatt.</li> <li>MR. MOFFATT: No questions.</li> <li>Thank you.</li> <li>CHAIRMAN IGNATIUS: Mr.</li> </ol>
<ol> <li>A. Good afternoon.</li> <li>Q. You were here for the testimony yesterday, I believe; correct?</li> <li>A. Yes.</li> <li>Q. And you heard the questions and the responses with regard to sort of the, I guess I would call it the viability or the usefulness of the Plan, including Mr. Large's statement that it, sadly, has very limited value. Do you recall that?</li> <li>A. I don't recall Mr. Large saying that, but I know there was a lot of discussion on the value of the Plan, whether it was a static</li> </ol>	<ol> <li>these requirements of the statute, or that it</li> <li>provided a basis for being able to fulfill the</li> <li>requirements of these statutes. I don't</li> <li>recall hearing that. Do you recall hearing</li> <li>any discussion of that yesterday?</li> <li>A. No, I don't.</li> <li>Q. Thank you. That's all the questions I have.</li> <li>A. Thank you.</li> <li>CHAIRMAN IGNATIUS: Mr. Moffatt.</li> <li>MR. MOFFATT: No questions.</li> <li>Thank you.</li> <li>CHAIRMAN IGNATIUS: Mr.</li> <li>CHAIRMAN IGNATIUS: Mr.</li> </ol>
<ol> <li>A. Good afternoon.</li> <li>Q. You were here for the testimony yesterday, I believe; correct?</li> <li>A. Yes.</li> <li>Q. And you heard the questions and the responses with regard to sort of the, I guess I would call it the viability or the usefulness of the Plan, including Mr. Large's statement that it, sadly, has very limited value. Do you recall that?</li> <li>A. I don't recall Mr. Large saying that, but I know there was a lot of discussion on the value of the Plan, whether it was a static or a live document. But I don't recall</li> </ol>	<ol> <li>these requirements of the statute, or that it</li> <li>provided a basis for being able to fulfill the</li> <li>requirements of these statutes. I don't</li> <li>recall hearing that. Do you recall hearing</li> <li>any discussion of that yesterday?</li> <li>A. No, I don't.</li> <li>Q. Thank you. That's all the questions I have.</li> <li>A. Thank you.</li> <li>CHAIRMAN IGNATIUS: Mr. Moffatt.</li> <li>MR. MOFFATT: No questions.</li> <li>Thank you.</li> <li>CHAIRMAN IGNATIUS: Mr.</li> <li>CUNNINGHAM: No questions.</li> </ol>
<ol> <li>A. Good afternoon.</li> <li>Q. You were here for the testimony yesterday, I believe; correct?</li> <li>A. Yes.</li> <li>Q. And you heard the questions and the responses with regard to sort of the, I guess I would call it the viability or the usefulness of the Plan, including Mr. Large's statement that it, sadly, has very limited value. Do you recall that?</li> <li>A. I don't recall Mr. Large saying that, but I know there was a lot of discussion on the value of the Plan, whether it was a static or a live document. But I don't recall Mr. Large saying that.</li> </ol>	<ol> <li>these requirements of the statute, or that it</li> <li>provided a basis for being able to fulfill the</li> <li>requirements of these statutes. I don't</li> <li>recall hearing that. Do you recall hearing</li> <li>any discussion of that yesterday?</li> <li>A. No, I don't.</li> <li>Q. Thank you. That's all the questions I have.</li> <li>A. Thank you.</li> <li>CHAIRMAN IGNATIUS: Mr. Moffatt.</li> <li>MR. MOFFATT: No questions.</li> <li>Thank you.</li> <li>CHAIRMAN IGNATIUS: Mr.</li> <li>CUNNINGHAM: No questions.</li> <li>Thank you very much.</li> </ol>
<ol> <li>A. Good afternoon.</li> <li>Q. You were here for the testimony yesterday, I believe; correct?</li> <li>A. Yes.</li> <li>Q. And you heard the questions and the responses with regard to sort of the, I guess I would call it the viability or the usefulness of the Plan, including Mr. Large's statement that it, sadly, has very limited value. Do you recall that?</li> <li>A. I don't recall Mr. Large saying that, but I know there was a lot of discussion on the value of the Plan, whether it was a static or a live document. But I don't recall Mr. Large saying that.</li> <li>Mr. Large saying that.</li> <li>And you've been involved in prior review of</li> </ol>	<ol> <li>these requirements of the statute, or that it</li> <li>provided a basis for being able to fulfill the</li> <li>requirements of these statutes. I don't</li> <li>recall hearing that. Do you recall hearing</li> <li>any discussion of that yesterday?</li> <li>A. No, I don't.</li> <li>Q. Thank you. That's all the questions I have.</li> <li>A. Thank you.</li> <li>CHAIRMAN IGNATIUS: Mr. Moffatt.</li> <li>MR. MOFFATT: No questions.</li> <li>Thank you.</li> <li>CHAIRMAN IGNATIUS: Mr.</li> <li>Cunningham.</li> <li>MR. CUNNINGHAM: No questions.</li> <li>Thank you very much.</li> <li>CHAIRMAN IGNATIUS: Mr. Steltzer.</li> </ol>
<ol> <li>A. Good afternoon.</li> <li>Q. You were here for the testimony yesterday, I believe; correct?</li> <li>A. Yes.</li> <li>Q. And you heard the questions and the responses with regard to sort of the, I guess I would call it the viability or the usefulness of the Plan, including Mr. Large's statement that it, sadly, has very limited value. Do you recall that?</li> <li>A. I don't recall Mr. Large saying that, but I know there was a lot of discussion on the value of the Plan, whether it was a static or a live document. But I don't recall Mr. Large saying that.</li> <li>Q. And you've been involved in prior review of Least Cost Integrated Resource Plans; is that</li> </ol>	these requirements of the statute, or that it provided a basis for being able to fulfill the requirements of these statutes. I don't recall hearing that. Do you recall hearing any discussion of that yesterday?  A. No, I don't. Q. Thank you. That's all the questions I have. A. Thank you. CHAIRMAN IGNATIUS: Mr. Moffatt. MR. MOFFATT: No questions. Thank you. CHAIRMAN IGNATIUS: Mr. CUNNINGHAM: No questions. MR. CUNNINGHAM: No questions. Thank you very much. CHAIRMAN IGNATIUS: Mr. Steltzer. MR. STELTZER: Yes, just a
<ol> <li>A. Good afternoon.</li> <li>Q. You were here for the testimony yesterday, I believe; correct?</li> <li>A. Yes.</li> <li>Q. And you heard the questions and the responses with regard to sort of the, I guess I would call it the viability or the usefulness of the Plan, including Mr. Large's statement that it, sadly, has very limited value. Do you recall that?</li> <li>A. I don't recall Mr. Large saying that, but I know there was a lot of discussion on the value of the Plan, whether it was a static or a live document. But I don't recall Mr. Large saying that.</li> <li>Q. And you've been involved in prior review of Least Cost Integrated Resource Plans; is that correct?</li> </ol>	these requirements of the statute, or that it provided a basis for being able to fulfill the requirements of these statutes. I don't recall hearing that. Do you recall hearing any discussion of that yesterday?  A. No, I don't. Q. Thank you. That's all the questions I have. A. Thank you.  CHAIRMAN IGNATIUS: Mr. Moffatt. MR. MOFFATT: No questions.  Thank you.  CHAIRMAN IGNATIUS: Mr.  CUNNINGHAM: No questions.  Thank you very much. CHAIRMAN IGNATIUS: Mr. Steltzer. MR. STELTZER: Yes, just a couple.
<ol> <li>A. Good afternoon.</li> <li>Q. You were here for the testimony yesterday, I believe; correct?</li> <li>A. Yes.</li> <li>Q. And you heard the questions and the responses with regard to sort of the, I guess I would call it the viability or the usefulness of the Plan, including Mr. Large's statement that it, sadly, has very limited value. Do you recall that?</li> <li>A. I don't recall Mr. Large saying that, but I know there was a lot of discussion on the value of the Plan, whether it was a static or a live document. But I don't recall Mr. Large saying that.</li> <li>Q. And you've been involved in prior review of Least Cost Integrated Resource Plans; is that correct?</li> <li>Yes, for all of the electric utilities and</li> </ol>	<ul> <li>these requirements of the statute, or that it</li> <li>provided a basis for being able to fulfill the</li> <li>requirements of these statutes. I don't</li> <li>recall hearing that. Do you recall hearing</li> <li>any discussion of that yesterday?</li> <li>A. No, I don't.</li> <li>Q. Thank you. That's all the questions I have.</li> <li>A. Thank you.</li> <li>CHAIRMAN IGNATIUS: Mr. Moffatt.</li> <li>MR. MOFFATT: No questions.</li> <li>Thank you.</li> <li>CHAIRMAN IGNATIUS: Mr.</li> <li>Cunningham.</li> <li>MR. CUNNINGHAM: No questions.</li> <li>Thank you very much.</li> <li>CHAIRMAN IGNATIUS: Mr. Steltzer.</li> <li>MR. STELTZER: Yes, just a</li> <li>couple.</li> <li>CROSS-EXAMINATION</li> </ul>
<ol> <li>A. Good afternoon.</li> <li>Q. You were here for the testimony yesterday, I believe; correct?</li> <li>A. Yes.</li> <li>Q. And you heard the questions and the responses with regard to sort of the, I guess I would call it the viability or the usefulness of the Plan, including Mr. Large's statement that it, sadly, has very limited value. Do you recall that?</li> <li>A. I don't recall Mr. Large saying that, but I know there was a lot of discussion on the value of the Plan, whether it was a static or a live document. But I don't recall Mr. Large saying that.</li> <li>Q. And you've been involved in prior review of Least Cost Integrated Resource Plans; is that correct?</li> <li>A. Yes, for all of the electric utilities and for the two gas companies in the state.</li> </ol>	these requirements of the statute, or that it provided a basis for being able to fulfill the requirements of these statutes. I don't recall hearing that. Do you recall hearing any discussion of that yesterday?  A. No, I don't.  Q. Thank you. That's all the questions I have. A. Thank you.  CHAIRMAN IGNATIUS: Mr. Moffatt. MR. MOFFATT: No questions.  Thank you.  CHAIRMAN IGNATIUS: Mr.  CUNNINGHAM: No questions.  Thank you very much.  CHAIRMAN IGNATIUS: Mr. Steltzer.  MR. STELTZER: Yes, just a couple.  CROSS-EXAMINATION  BY MR. STELTZER:
<ol> <li>A. Good afternoon.</li> <li>Q. You were here for the testimony yesterday, I believe; correct?</li> <li>A. Yes.</li> <li>Q. And you heard the questions and the responses with regard to sort of the, I guess I would call it the viability or the usefulness of the Plan, including Mr. Large's statement that it, sadly, has very limited value. Do you recall that?</li> <li>A. I don't recall Mr. Large saying that, but I know there was a lot of discussion on the value of the Plan, whether it was a static or a live document. But I don't recall Mr. Large saying that.</li> <li>Q. And you've been involved in prior review of Least Cost Integrated Resource Plans; is that correct?</li> <li>A. Yes, for all of the electric utilities and for the two gas companies in the state.</li> <li>Q. And I believe you're familiar with the</li> </ol>	these requirements of the statute, or that it provided a basis for being able to fulfill the requirements of these statutes. I don't recall hearing that. Do you recall hearing any discussion of that yesterday?  6 A. No, I don't.  7 Q. Thank you. That's all the questions I have.  8 A. Thank you.  9 CHAIRMAN IGNATIUS: Mr. Moffatt.  10 MR. MOFFATT: No questions.  11 Thank you.  12 CHAIRMAN IGNATIUS: Mr.  13 Cunningham.  14 MR. CUNNINGHAM: No questions.  15 Thank you very much.  16 CHAIRMAN IGNATIUS: Mr. Steltzer.  17 MR. STELTZER: Yes, just a couple.  19 CROSS-EXAMINATION  20 BY MR. STELTZER:
<ol> <li>A. Good afternoon.</li> <li>Q. You were here for the testimony yesterday, I believe; correct?</li> <li>A. Yes.</li> <li>Q. And you heard the questions and the responses with regard to sort of the, I guess I would call it the viability or the usefulness of the Plan, including Mr. Large's statement that it, sadly, has very limited value. Do you recall that?</li> <li>A. I don't recall Mr. Large saying that, but I know there was a lot of discussion on the value of the Plan, whether it was a static or a live document. But I don't recall Mr. Large saying that.</li> <li>Q. And you've been involved in prior review of Least Cost Integrated Resource Plans; is that correct?</li> <li>A. Yes, for all of the electric utilities and for the two gas companies in the state.</li> <li>Q. And I believe you're familiar with the statutes that relate to this</li> </ol>	these requirements of the statute, or that it provided a basis for being able to fulfill the requirements of these statutes. I don't recall hearing that. Do you recall hearing any discussion of that yesterday?  A. No, I don't.  Q. Thank you. That's all the questions I have. A. Thank you.  CHAIRMAN IGNATIUS: Mr. Moffatt. MR. MOFFATT: No questions.  Thank you.  CHAIRMAN IGNATIUS: Mr.  CUNNINGHAM: No questions.  MR. CUNNINGHAM: No questions.  Thank you very much.  CHAIRMAN IGNATIUS: Mr. Steltzer.  MR. STELTZER: Yes, just a couple.  CROSS-EXAMINATION  BY MR. STELTZER:  Q. Do you happen to know how many customers PSNH is serving?
<ol> <li>A. Good afternoon.</li> <li>Q. You were here for the testimony yesterday, I believe; correct?</li> <li>A. Yes.</li> <li>Q. And you heard the questions and the responses with regard to sort of the, I guess I would call it the viability or the usefulness of the Plan, including Mr. Large's statement that it, sadly, has very limited value. Do you recall that?</li> <li>A. I don't recall Mr. Large saying that, but I know there was a lot of discussion on the value of the Plan, whether it was a static or a live document. But I don't recall Mr. Large saying that.</li> <li>Q. And you've been involved in prior review of Least Cost Integrated Resource Plans; is that correct?</li> <li>A. Yes, for all of the electric utilities and for the two gas companies in the state.</li> <li>Q. And I believe you're familiar with the</li> </ol>	these requirements of the statute, or that it provided a basis for being able to fulfill the requirements of these statutes. I don't recall hearing that. Do you recall hearing any discussion of that yesterday?  6 A. No, I don't.  7 Q. Thank you. That's all the questions I have.  8 A. Thank you.  9 CHAIRMAN IGNATIUS: Mr. Moffatt.  10 MR. MOFFATT: No questions.  11 Thank you.  12 CHAIRMAN IGNATIUS: Mr.  13 Cunningham.  14 MR. CUNNINGHAM: No questions.  15 Thank you very much.  16 CHAIRMAN IGNATIUS: Mr. Steltzer.  17 MR. STELTZER: Yes, just a couple.  19 CROSS-EXAMINATION  20 BY MR. STELTZER:

[WITNE	SS: McCluskey] Page 69			SS: McCluskey] Page 71
1	number.	1		file least cost plans conducts fully adequate
	Would it be fair to say that it's somewhere	2		planning.
3	around 420,000 customers, subject to check?		Α	I wouldn't say that. I've certainly my
	I agree, subject to check.	4	11.	job is to review Integrated Resource Plans.
5 Q.		5		And my testimony has addressed aspects of
6 G	approximately 11,500 customers out of PSNH	6		those plans that I consider to be not
7	that heat their homes with electric heat,	7		adequate, and I've recommended changes to
8	subject to check?	8		them.
9 A.		9	$\circ$	Can I direct your attention to your Staff
10 Q.	3	10	Q.	Exhibit 3?
_	customers who heat their homes with a fossil		۸	Okay.
11				•
12	fuel other than electricity are also PSNH	12	Ų.	And I believe one of your criticisms of the
13	ratepayers?	13		residential projection are that costs are
14 A.		14		going up but savings are going down, as far as
15	electricity for lighting. But it would	15		what the Company filed.
16	appear that the majority of fuel consumption		A.	Yes. I said the electric savings are going
17	for that home would be fossil fuel.	17		down, which is what is shown on
18 Q.	•	18	_	Exhibit IV-8.
19	MR. STELTZER: No further		Q.	Right. And Exhibit 3 shows the residential
20	questions.	20		program expenditures broken down into electric
21	CHAIRMAN IGNATIUS: Mr. Peress.	21		expenditures and non-electric expenditures;
22	MR. PERESS: No questions, Madam	22		correct?
23	Chair.		A.	That's correct.
24	CHAIRMAN IGNATIUS: Ms.	24	Q.	And the residential non-electric savings do go
[WITNE	SS: McCluskey] Page 70	[WI	TNES	SS: McCluskey] Page 72
[WITNE		[WI <sup>-</sup>	TNES	
	Hollenberg.		TNES	up from 2010 to 2015 in the far right-hand
1	Hollenberg. MS. HOLLENBERG: No questions.	1 2		up from 2010 to 2015 in the far right-hand column; correct?
1 2	Hollenberg.	1 2 3	A.	up from 2010 to 2015 in the far right-hand column; correct? Yes, they run up substantially.
1 2 3	Hollenberg. MS. HOLLENBERG: No questions. Thank you. CHAIRMAN IGNATIUS: Mr. Eaton.	1 2 3	A.	up from 2010 to 2015 in the far right-hand column; correct? Yes, they run up substantially. But there's no depiction of electric savings
1 2 3 4 5	Hollenberg. MS. HOLLENBERG: No questions. Thank you. CHAIRMAN IGNATIUS: Mr. Eaton. MR. EATON: Thank you.	1 2 3 4 5	A. Q.	up from 2010 to 2015 in the far right-hand column; correct? Yes, they run up substantially. But there's no depiction of electric savings in that Exhibit 3.
1 2 3 4 5	Hollenberg. MS. HOLLENBERG: No questions. Thank you. CHAIRMAN IGNATIUS: Mr. Eaton. MR. EATON: Thank you. CROSS-EXAMINATION	1 2 3 4 5	A. Q.	up from 2010 to 2015 in the far right-hand column; correct? Yes, they run up substantially. But there's no depiction of electric savings in that Exhibit 3. That's correct. The savings that we see
1 2 3 4 5 6 7 B	Hollenberg. MS. HOLLENBERG: No questions. Thank you. CHAIRMAN IGNATIUS: Mr. Eaton. MR. EATON: Thank you. CROSS-EXAMINATION SY MR. EATON:	1 2 3 4 5 6 7	A. Q.	up from 2010 to 2015 in the far right-hand column; correct? Yes, they run up substantially. But there's no depiction of electric savings in that Exhibit 3. That's correct. The savings that we see from the non-electric are also in a
1 2 3 4 5	Hollenberg.  MS. HOLLENBERG: No questions.  Thank you.  CHAIRMAN IGNATIUS: Mr. Eaton.  MR. EATON: Thank you.  CROSS-EXAMINATION  Y MR. EATON:  Mr. McCluskey, how long have you been	1 2 3 4 5	A. Q.	up from 2010 to 2015 in the far right-hand column; correct? Yes, they run up substantially. But there's no depiction of electric savings in that Exhibit 3. That's correct. The savings that we see from the non-electric are also in a different unit from the units used on
1 2 3 4 5 6 7 B 8 Q.	Hollenberg. MS. HOLLENBERG: No questions. Thank you. CHAIRMAN IGNATIUS: Mr. Eaton. MR. EATON: Thank you. CROSS-EXAMINATION SY MR. EATON:	1 2 3 4 5 6 7 8	A. Q.	up from 2010 to 2015 in the far right-hand column; correct? Yes, they run up substantially. But there's no depiction of electric savings in that Exhibit 3. That's correct. The savings that we see from the non-electric are also in a different unit from the units used on Exhibit IV-8; one is dealing with megawatt
1 2 3 4 5 6 7 B 8 Q. 9	Hollenberg. MS. HOLLENBERG: No questions. Thank you. CHAIRMAN IGNATIUS: Mr. Eaton. MR. EATON: Thank you. CROSS-EXAMINATION SY MR. EATON: Mr. McCluskey, how long have you been evaluating least cost plans for the Commission?	1 2 3 4 5 6 7 8	A. Q.	up from 2010 to 2015 in the far right-hand column; correct? Yes, they run up substantially. But there's no depiction of electric savings in that Exhibit 3. That's correct. The savings that we see from the non-electric are also in a different unit from the units used on Exhibit IV-8; one is dealing with megawatt hours, the other one is dealing with MMBtu.
1 2 3 4 5 6 7 B 8 Q. 9	Hollenberg.  MS. HOLLENBERG: No questions. Thank you.  CHAIRMAN IGNATIUS: Mr. Eaton.  MR. EATON: Thank you.  CROSS-EXAMINATION BY MR. EATON:  Mr. McCluskey, how long have you been evaluating least cost plans for the Commission? I couldn't put a figure on it. But this is	1 2 3 4 5 6 7 8 9 10	A. Q.	up from 2010 to 2015 in the far right-hand column; correct? Yes, they run up substantially. But there's no depiction of electric savings in that Exhibit 3. That's correct. The savings that we see from the non-electric are also in a different unit from the units used on Exhibit IV-8; one is dealing with megawatt hours, the other one is dealing with MMBtu. So, really, what we should have is a
1 2 3 4 5 6 7 B 8 Q. 9 10 11 A. 12	Hollenberg.  MS. HOLLENBERG: No questions.  Thank you.  CHAIRMAN IGNATIUS: Mr. Eaton.  MR. EATON: Thank you.  CROSS-EXAMINATION  Y MR. EATON:  Mr. McCluskey, how long have you been evaluating least cost plans for the Commission?  I couldn't put a figure on it. But this is my second time around working for the	1 2 3 4 5 6 7 8 9 10 11	A. Q. A.	up from 2010 to 2015 in the far right-hand column; correct? Yes, they run up substantially. But there's no depiction of electric savings in that Exhibit 3. That's correct. The savings that we see from the non-electric are also in a different unit from the units used on Exhibit IV-8; one is dealing with megawatt hours, the other one is dealing with MMBtu. So, really, what we should have is a comparison of the two and the same units.
1 2 3 4 5 6 7 B 8 Q. 9 10 11 A. 12 13	Hollenberg.  MS. HOLLENBERG: No questions.  Thank you.  CHAIRMAN IGNATIUS: Mr. Eaton.  MR. EATON: Thank you.  CROSS-EXAMINATION  SY MR. EATON:  Mr. McCluskey, how long have you been evaluating least cost plans for the Commission?  I couldn't put a figure on it. But this is my second time around working for the Commission, and I was evaluating plans my	1 2 3 4 5 6 7 8 9 10 11 12 13	A. Q. A.	up from 2010 to 2015 in the far right-hand column; correct? Yes, they run up substantially. But there's no depiction of electric savings in that Exhibit 3. That's correct. The savings that we see from the non-electric are also in a different unit from the units used on Exhibit IV-8; one is dealing with megawatt hours, the other one is dealing with MMBtu. So, really, what we should have is a comparison of the two and the same units. And what can you tell me about changes that
1 2 3 4 5 6 7 B 8 Q. 9 10 11 A. 12 13 14	Hollenberg.  MS. HOLLENBERG: No questions.  Thank you.  CHAIRMAN IGNATIUS: Mr. Eaton.  MR. EATON: Thank you.  CROSS-EXAMINATION  BY MR. EATON:  Mr. McCluskey, how long have you been evaluating least cost plans for the Commission?  I couldn't put a figure on it. But this is my second time around working for the Commission, and I was evaluating plans my first time, which was maybe 15 years ago.	1 2 3 4 5 6 7 8 9 10 11 12 13 14	A. Q. A.	up from 2010 to 2015 in the far right-hand column; correct? Yes, they run up substantially. But there's no depiction of electric savings in that Exhibit 3. That's correct. The savings that we see from the non-electric are also in a different unit from the units used on Exhibit IV-8; one is dealing with megawatt hours, the other one is dealing with MMBtu. So, really, what we should have is a comparison of the two and the same units. And what can you tell me about changes that are going to happen in standards for electric
1 2 3 4 5 6 7 B 8 Q. 9 10 11 A. 12 13 14 15 Q.	Hollenberg.  MS. HOLLENBERG: No questions.  Thank you.  CHAIRMAN IGNATIUS: Mr. Eaton.  MR. EATON: Thank you.  CROSS-EXAMINATION  Y MR. EATON:  Mr. McCluskey, how long have you been evaluating least cost plans for the Commission?  I couldn't put a figure on it. But this is my second time around working for the Commission, and I was evaluating plans my first time, which was maybe 15 years ago.  How many plans that have been submitted by the	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Q. A. Q.	up from 2010 to 2015 in the far right-hand column; correct? Yes, they run up substantially. But there's no depiction of electric savings in that Exhibit 3. That's correct. The savings that we see from the non-electric are also in a different unit from the units used on Exhibit IV-8; one is dealing with megawatt hours, the other one is dealing with MMBtu. So, really, what we should have is a comparison of the two and the same units. And what can you tell me about changes that are going to happen in standards for electric lighting for residential customers?
1 2 3 4 5 6 7 B 8 Q. 9 10 11 A. 12 13 14 15 Q. 16	Hollenberg.  MS. HOLLENBERG: No questions.  Thank you.  CHAIRMAN IGNATIUS: Mr. Eaton.  MR. EATON: Thank you.  CROSS-EXAMINATION  Y MR. EATON:  Mr. McCluskey, how long have you been evaluating least cost plans for the Commission?  I couldn't put a figure on it. But this is my second time around working for the Commission, and I was evaluating plans my first time, which was maybe 15 years ago.  How many plans that have been submitted by the utilities have you testified that were	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Q. A. Q.	up from 2010 to 2015 in the far right-hand column; correct? Yes, they run up substantially. But there's no depiction of electric savings in that Exhibit 3. That's correct. The savings that we see from the non-electric are also in a different unit from the units used on Exhibit IV-8; one is dealing with megawatt hours, the other one is dealing with MMBtu. So, really, what we should have is a comparison of the two and the same units. And what can you tell me about changes that are going to happen in standards for electric lighting for residential customers? You're referring to a particular part of my
1 2 3 4 5 6 7 B 8 Q. 9 10 11 A. 12 13 14 15 Q. 16 17	Hollenberg.  MS. HOLLENBERG: No questions.  Thank you.  CHAIRMAN IGNATIUS: Mr. Eaton.  MR. EATON: Thank you.  CROSS-EXAMINATION  SY MR. EATON:  Mr. McCluskey, how long have you been evaluating least cost plans for the Commission?  I couldn't put a figure on it. But this is my second time around working for the Commission, and I was evaluating plans my first time, which was maybe 15 years ago.  How many plans that have been submitted by the utilities have you testified that were adequate?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Q. A. Q.	up from 2010 to 2015 in the far right-hand column; correct? Yes, they run up substantially. But there's no depiction of electric savings in that Exhibit 3. That's correct. The savings that we see from the non-electric are also in a different unit from the units used on Exhibit IV-8; one is dealing with megawatt hours, the other one is dealing with MMBtu. So, really, what we should have is a comparison of the two and the same units. And what can you tell me about changes that are going to happen in standards for electric lighting for residential customers? You're referring to a particular part of my testimony or
1 2 3 4 5 6 7 B 8 Q. 9 10 11 A. 12 13 14 15 Q. 16 17 18 A.	Hollenberg.  MS. HOLLENBERG: No questions.  Thank you.  CHAIRMAN IGNATIUS: Mr. Eaton.  MR. EATON: Thank you.  CROSS-EXAMINATION  Y MR. EATON:  Mr. McCluskey, how long have you been evaluating least cost plans for the Commission?  I couldn't put a figure on it. But this is my second time around working for the Commission, and I was evaluating plans my first time, which was maybe 15 years ago.  How many plans that have been submitted by the utilities have you testified that were adequate?  The complete plan was adequate?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Q. A. Q. Q.	up from 2010 to 2015 in the far right-hand column; correct? Yes, they run up substantially. But there's no depiction of electric savings in that Exhibit 3. That's correct. The savings that we see from the non-electric are also in a different unit from the units used on Exhibit IV-8; one is dealing with megawatt hours, the other one is dealing with MMBtu. So, really, what we should have is a comparison of the two and the same units. And what can you tell me about changes that are going to happen in standards for electric lighting for residential customers? You're referring to a particular part of my testimony or Yes, your DSM testimony.
1 2 3 4 5 6 7 B 8 Q. 9 10 11 A. 12 13 14 15 Q. 16 17 18 A. 19 Q.	Hollenberg.  MS. HOLLENBERG: No questions. Thank you.  CHAIRMAN IGNATIUS: Mr. Eaton.  MR. EATON: Thank you.  CROSS-EXAMINATION  Y MR. EATON:  Mr. McCluskey, how long have you been evaluating least cost plans for the Commission?  I couldn't put a figure on it. But this is my second time around working for the Commission, and I was evaluating plans my first time, which was maybe 15 years ago.  How many plans that have been submitted by the utilities have you testified that were adequate?  The complete plan was adequate?  Yes.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Q. A. Q. A.	up from 2010 to 2015 in the far right-hand column; correct? Yes, they run up substantially. But there's no depiction of electric savings in that Exhibit 3. That's correct. The savings that we see from the non-electric are also in a different unit from the units used on Exhibit IV-8; one is dealing with megawatt hours, the other one is dealing with MMBtu. So, really, what we should have is a comparison of the two and the same units. And what can you tell me about changes that are going to happen in standards for electric lighting for residential customers? You're referring to a particular part of my testimony or Yes, your DSM testimony. Okay. Any particular page?
1 2 3 4 5 6 7 B 8 Q. 9 10 11 A. 12 13 14 15 Q. 16 17 18 A. 19 Q. 20 A.	Hollenberg.  MS. HOLLENBERG: No questions. Thank you.  CHAIRMAN IGNATIUS: Mr. Eaton.  MR. EATON: Thank you.  CROSS-EXAMINATION  Y MR. EATON:  Mr. McCluskey, how long have you been evaluating least cost plans for the Commission?  I couldn't put a figure on it. But this is my second time around working for the Commission, and I was evaluating plans my first time, which was maybe 15 years ago.  How many plans that have been submitted by the utilities have you testified that were adequate?  The complete plan was adequate?  Yes.  I don't recall filing any testimony which	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Q. A. Q. Q.	up from 2010 to 2015 in the far right-hand column; correct? Yes, they run up substantially. But there's no depiction of electric savings in that Exhibit 3. That's correct. The savings that we see from the non-electric are also in a different unit from the units used on Exhibit IV-8; one is dealing with megawatt hours, the other one is dealing with MMBtu. So, really, what we should have is a comparison of the two and the same units. And what can you tell me about changes that are going to happen in standards for electric lighting for residential customers? You're referring to a particular part of my testimony or Yes, your DSM testimony. Okay. Any particular page? Yes. Page 35 to 36, I believe.
1 2 3 4 5 6 7 B 8 Q. 9 10 11 A. 12 13 14 15 Q. 16 17 18 A. 19 Q. 20 A. 21	Hollenberg.  MS. HOLLENBERG: No questions. Thank you.  CHAIRMAN IGNATIUS: Mr. Eaton.  MR. EATON: Thank you.  CROSS-EXAMINATION  YMR. EATON:  Mr. McCluskey, how long have you been evaluating least cost plans for the Commission?  I couldn't put a figure on it. But this is my second time around working for the Commission, and I was evaluating plans my first time, which was maybe 15 years ago.  How many plans that have been submitted by the utilities have you testified that were adequate?  The complete plan was adequate?  Yes.  I don't recall filing any testimony which found every element of the companies' IRPs	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Q. A. Q. A.	up from 2010 to 2015 in the far right-hand column; correct? Yes, they run up substantially. But there's no depiction of electric savings in that Exhibit 3. That's correct. The savings that we see from the non-electric are also in a different unit from the units used on Exhibit IV-8; one is dealing with megawatt hours, the other one is dealing with MMBtu. So, really, what we should have is a comparison of the two and the same units. And what can you tell me about changes that are going to happen in standards for electric lighting for residential customers? You're referring to a particular part of my testimony or Yes, your DSM testimony. Okay. Any particular page? Yes. Page 35 to 36, I believe. CHAIRMAN IGNATIUS: In which
1 2 3 4 5 6 7 B 8 Q. 9 10 11 A. 12 13 14 15 Q. 16 17 18 A. 19 Q. 20 A. 21 22	Hollenberg.  MS. HOLLENBERG: No questions. Thank you.  CHAIRMAN IGNATIUS: Mr. Eaton.  MR. EATON: Thank you.  CROSS-EXAMINATION  Y MR. EATON:  Mr. McCluskey, how long have you been evaluating least cost plans for the Commission?  I couldn't put a figure on it. But this is my second time around working for the Commission, and I was evaluating plans my first time, which was maybe 15 years ago.  How many plans that have been submitted by the utilities have you testified that were adequate?  The complete plan was adequate?  Yes.  I don't recall filing any testimony which found every element of the companies' IRPs were adequate.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Q. A. Q. A.	up from 2010 to 2015 in the far right-hand column; correct? Yes, they run up substantially. But there's no depiction of electric savings in that Exhibit 3. That's correct. The savings that we see from the non-electric are also in a different unit from the units used on Exhibit IV-8; one is dealing with megawatt hours, the other one is dealing with MMBtu. So, really, what we should have is a comparison of the two and the same units. And what can you tell me about changes that are going to happen in standards for electric lighting for residential customers? You're referring to a particular part of my testimony or Yes, your DSM testimony. Okay. Any particular page? Yes. Page 35 to 36, I believe. CHAIRMAN IGNATIUS: In which exhibit, Mr. Eaton?
1 2 3 4 5 6 7 B 8 Q. 9 10 11 A. 12 13 14 15 Q. 16 17 18 A. 19 Q. 20 A. 21	Hollenberg.  MS. HOLLENBERG: No questions. Thank you.  CHAIRMAN IGNATIUS: Mr. Eaton.  MR. EATON: Thank you.  CROSS-EXAMINATION  Y MR. EATON:  Mr. McCluskey, how long have you been evaluating least cost plans for the Commission?  I couldn't put a figure on it. But this is my second time around working for the Commission, and I was evaluating plans my first time, which was maybe 15 years ago.  How many plans that have been submitted by the utilities have you testified that were adequate?  The complete plan was adequate?  Yes. I don't recall filing any testimony which found every element of the companies' IRPs were adequate.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Q. A. Q. A.	up from 2010 to 2015 in the far right-hand column; correct? Yes, they run up substantially. But there's no depiction of electric savings in that Exhibit 3. That's correct. The savings that we see from the non-electric are also in a different unit from the units used on Exhibit IV-8; one is dealing with megawatt hours, the other one is dealing with MMBtu. So, really, what we should have is a comparison of the two and the same units. And what can you tell me about changes that are going to happen in standards for electric lighting for residential customers? You're referring to a particular part of my testimony or Yes, your DSM testimony. Okay. Any particular page? Yes. Page 35 to 36, I believe. CHAIRMAN IGNATIUS: In which

DAY 2 - AFTERNOON SESSION ONLY - April 5, 2012 DE 10-261 PUBLIC SERVICE COMPANY OF N.H. Least Cost Integrated Resource Plan [WITNESS: McCluskey] Page 73 [WITNESS: McCluskey] Page 75 1 A. Yes. Page 35 is referring to the -- had closer in price? relation to lighting and the Energy Based on the responses to discovery that we Independence and Security Act of 2007. Is 3 received from the Company, that is indeed that what your question is getting to? the case. 4 4 5 O. Yes. O. So, would a rebate program be appropriate when 5 6 A. Okay. And what's your question? the price is very close? 6 7 Q. What is going to happen as a result of the Since I'm not involved in the CORE programs, 7 passage of the Energy Independence and I don't feel as though I'm sufficiently up 8 Security Act of 2007 regarding lighting to speed to respond to that question whether 9 9 performance standards? there should be a rebate or whether there 10 10 11 A. That particular act is going to impact 11 should be something else. But in this 12 incandescent bulbs. It's going to -- it's proceeding, I've heard the Company's 12 requiring higher standards of those bulbs, 13 13 arguments that the incremental costs for increasing the efficiency of them. And from CFLs would be too small to not justify the 14 14 the standpoint of this particular rebate, and I'm just accepting that at face 15 15 proceeding, the efficiency of incandescent 16 value. 16 bulbs was the standard that the Company 17 Q. Okay. Do you understand how savings are 17 would measure the savings from CFLs. So, if attributed to DSM programs? 18 18 19 this Act changes the efficiency standards 19 A. The calculation of the savings? for incandescents, improves the standards, 20 O. Yes. 20 21 then the amount of savings relative to 21 A. The avoided costs? Is that what you're referring to? incandescents that you get from CFLs would 22 fall, and that would have an impact on the 23 Q. Yes. 23 24 potential energy savings that could be 24 A. Yes, I've got experience in that. [WITNESS: McCluskey] Page 74 [WITNESS: McCluskey] Page 76 gotten from lighting programs in the future. Okay. So when a dollar is rebated for a CFL 2 Q. And would you agree that, to date, much of the 2 lightbulb currently, we can assume it's savings for the residential sector have come replacing an inefficient current lightbulb of 3 3 from the promotion of CFLs compared to the the same wattage, and we can calculate what 4 4 current incandescent bulbs before the standard 5 the savings will be. That's my assumption as to what the savings is changed? 6 6 **7** A. That's my understanding. are. That's correct. 7 8 O. And so if that's what the residential sector Q. And if it's perhaps more appropriate to simply has depended on in the past, it's reasonable stimulate the sales of CFLs after the 9 9 to say that savings from that large portion of standards change, because they are more 10 10 the residential program will go down, efficient, through a marketing program, can 11 11 depending when the standard changes. PSNH take credit for the savings from having 12 12 13 A. That's correct. And I believe I say this in 13 spent X-number of dollars on a marketing my testimony. And I say that the Company program? 14 14 15 appropriately reflected that change in the 15 A. If the Company determines that it's more law in its determination of the potential effective or efficient to use a marketing 16 16 savings for the residential class. program compared with a rebate program, and 17 17

savings for the residential class.

Results of the residential class.

And traditionally, the Company has promoted CFLs with what measures of incentives? Not the dollar level, but what are the incentives?

A. I understand they've had rebates to promote the use of that product.

23 Q. And will incandescents and compact24 fluorescence, under the new standard, be

spent X-number of dollars on a marketing program?

15 A. If the Company determines that it's more effective or efficient to use a marketing program compared with a rebate program, and that achieves the results that it's seeking, then I would expect the Company would propose that change to the participants in the CORE programs and have them discuss it. But the method does not seem unreasonable to me that you just described.

24 Q. But if -- through that marketing program, how

	DE 10-261 PUBLIC SERVICE COMPANY	Or 1	N.H.	Least Cost Integrated Resource Plan
[WITNE	SS: McCluskey] Page 77			SS: McCluskey] Page 79
1	can you tell how much savings were created or	1		non-electric efficiency measures.
2	achieved by the marketing program?		A.	That may be the case. I don't have the
3 A.	It may not be as obvious as a rebate program	3		study in front of me.
4	where you can determine how many customers	4	_	So, whether we use a rebate program or whether
5	availed themselves of the rebate program,	5	_	we use a marketing approach to residential
6	but I think it's reasonable to say that the	6		lighting is a matter of choice when we come to
7	Company has good enough minds who can make	7		the point of proposing programs in future
8	estimates as to the likely response of the	8		years under the CORE programs' dockets;
9	marketing program. In fact, I would expect	9		correct?
10	that they would do that if they did switch		A.	
11	the approach from rebates to marketing. I		Q.	Yeah, but back to the
12	would expect that one of the elements of		A.	Back to lighting.
13	that change would be to monitor the		Q.	Yes.
14	effectiveness of that program compared with		A.	So your question is it's the Company's
15	rebates and determine whether the dollars	15		decision whether to go with a rebate or a
16	spent on marketing have been spent wisely.	16		marketing program to incentivize purchases
17 Q.		17		of CFLs; is that correct?
18	describe a study called "Opportunities for	18	Q.	Yes.
19	Energy Efficiency in New Hampshire" that was	19	À.	I think it's the Company's decision
20	prepared by GDS?	20		initially. My understanding as to how the
21 A.	Yes, I'm familiar that.	21		CORE program works is that the Company's
22 Q.	And were was the Company required to	22		decisions get debated, and eventually
23	analyze that report and also base some of its	23		something gets sent to the Commission for
24	projections on similar types of analysis that	24		approval. So it would be the start of the
DAUTAIE	00 McOlystavi	F) A //	TNIC	22 McOlysland
[VVIINE	SS: McCluskey] Page 78	[VVI	INES	SS: McCluskey] Page 80
1	were in the GDS report?	1		process, I would think, what the Company
2 A.		2		decides.
3	order saying "similar type of analysis."	3	Q.	So the choice of approaches in this proceeding
4	The Commission said that you should use the	4		is not really a measure of whether the Plan is
5	GDS results, as they applied to PSNH, as the	5		
6				or conservation in the residential sector is
	basis of your planning for DSM.	6		appropriate or not.
7 Q.	And did GDS incorporate in its analysis the		A.	appropriate or not.  No. The issue of the rebate or marketing
8	And did GDS incorporate in its analysis the change in the lighting standards?	7 8	A.	appropriate or not.  No. The issue of the rebate or marketing program to incentivize CFLs has to do with
8 9 A.	And did GDS incorporate in its analysis the change in the lighting standards?  No, it didn't. And I comment on that in my	7 8 9	A.	appropriate or not.  No. The issue of the rebate or marketing program to incentivize CFLs has to do with the potential that the Company is reporting
8 9 A. 10	And did GDS incorporate in its analysis the change in the lighting standards?  No, it didn't. And I comment on that in my testimony. And I've already said that I	7 8 9 10	A.	appropriate or not.  No. The issue of the rebate or marketing program to incentivize CFLs has to do with the potential that the Company is reporting for the residential class in the IRP.
8 9 A. 10 11	And did GDS incorporate in its analysis the change in the lighting standards?  No, it didn't. And I comment on that in my testimony. And I've already said that I thought that change made by the Company was	7 8 9 10	A.	appropriate or not.  No. The issue of the rebate or marketing program to incentivize CFLs has to do with the potential that the Company is reporting for the residential class in the IRP.  That's how it gets into the Integrated
8 9 A. 10 11 12	And did GDS incorporate in its analysis the change in the lighting standards?  No, it didn't. And I comment on that in my testimony. And I've already said that I thought that change made by the Company was an appropriate one.	7 8 9 10 11	A.	appropriate or not.  No. The issue of the rebate or marketing program to incentivize CFLs has to do with the potential that the Company is reporting for the residential class in the IRP.  That's how it gets into the Integrated Resource Plan. I recognize there is also a
8 9 A. 10 11 12 13 Q.	And did GDS incorporate in its analysis the change in the lighting standards?  No, it didn't. And I comment on that in my testimony. And I've already said that I thought that change made by the Company was an appropriate one.  And would you agree, subject to check, that	7 8 9 10 11 12	A.	appropriate or not.  No. The issue of the rebate or marketing program to incentivize CFLs has to do with the potential that the Company is reporting for the residential class in the IRP.  That's how it gets into the Integrated Resource Plan. I recognize there is also a CORE element to that decision. But what
8 9 A. 10 11 12 13 Q. 14	And did GDS incorporate in its analysis the change in the lighting standards?  No, it didn't. And I comment on that in my testimony. And I've already said that I thought that change made by the Company was an appropriate one.  And would you agree, subject to check, that the GDS study finds that the technical	7 8 9 10 11 12 13	A.	appropriate or not.  No. The issue of the rebate or marketing program to incentivize CFLs has to do with the potential that the Company is reporting for the residential class in the IRP.  That's how it gets into the Integrated Resource Plan. I recognize there is also a CORE element to that decision. But what we're discussing here is the impact on the
8 9 A. 10 11 12 13 Q. 14 15	And did GDS incorporate in its analysis the change in the lighting standards?  No, it didn't. And I comment on that in my testimony. And I've already said that I thought that change made by the Company was an appropriate one.  And would you agree, subject to check, that the GDS study finds that the technical potential savings for electric energy is over	7 8 9 10 11 12 13 14 15	A.	appropriate or not.  No. The issue of the rebate or marketing program to incentivize CFLs has to do with the potential that the Company is reporting for the residential class in the IRP.  That's how it gets into the Integrated Resource Plan. I recognize there is also a CORE element to that decision. But what we're discussing here is the impact on the potential, the savings potential. So it
8 9 A. 10 11 12 13 Q. 14 15	And did GDS incorporate in its analysis the change in the lighting standards? No, it didn't. And I comment on that in my testimony. And I've already said that I thought that change made by the Company was an appropriate one. And would you agree, subject to check, that the GDS study finds that the technical potential savings for electric energy is over 27 percent?	7 8 9 10 11 12 13 14 15 16	A.	appropriate or not.  No. The issue of the rebate or marketing program to incentivize CFLs has to do with the potential that the Company is reporting for the residential class in the IRP.  That's how it gets into the Integrated Resource Plan. I recognize there is also a CORE element to that decision. But what we're discussing here is the impact on the potential, the savings potential. So it really is an IRP issue that I've raised in
8 9 A. 10 11 12 13 Q. 14 15 16 17 A.	And did GDS incorporate in its analysis the change in the lighting standards?  No, it didn't. And I comment on that in my testimony. And I've already said that I thought that change made by the Company was an appropriate one.  And would you agree, subject to check, that the GDS study finds that the technical potential savings for electric energy is over 27 percent?  What is the 27 percent?	7 8 9 10 11 12 13 14 15 16	A.	appropriate or not.  No. The issue of the rebate or marketing program to incentivize CFLs has to do with the potential that the Company is reporting for the residential class in the IRP.  That's how it gets into the Integrated Resource Plan. I recognize there is also a CORE element to that decision. But what we're discussing here is the impact on the potential, the savings potential. So it really is an IRP issue that I've raised in my testimony.
8 9 A. 10 11 12 13 Q. 14 15 16 17 A. 18 Q.	And did GDS incorporate in its analysis the change in the lighting standards?  No, it didn't. And I comment on that in my testimony. And I've already said that I thought that change made by the Company was an appropriate one.  And would you agree, subject to check, that the GDS study finds that the technical potential savings for electric energy is over 27 percent?  What is the 27 percent?  The technical potential savings for electric	7 8 9 10 11 12 13 14 15 16 17	A. Q.	appropriate or not.  No. The issue of the rebate or marketing program to incentivize CFLs has to do with the potential that the Company is reporting for the residential class in the IRP.  That's how it gets into the Integrated Resource Plan. I recognize there is also a CORE element to that decision. But what we're discussing here is the impact on the potential, the savings potential. So it really is an IRP issue that I've raised in my testimony.  Do you know if, to date, any marketing
8 9 A. 10 11 12 13 Q. 14 15 16 17 A. 18 Q. 19	And did GDS incorporate in its analysis the change in the lighting standards?  No, it didn't. And I comment on that in my testimony. And I've already said that I thought that change made by the Company was an appropriate one.  And would you agree, subject to check, that the GDS study finds that the technical potential savings for electric energy is over 27 percent?  What is the 27 percent?  The technical potential savings for electric energy is over 27 percent.	7 8 9 10 11 12 13 14 15 16 17 18	A. Q.	appropriate or not.  No. The issue of the rebate or marketing program to incentivize CFLs has to do with the potential that the Company is reporting for the residential class in the IRP.  That's how it gets into the Integrated Resource Plan. I recognize there is also a CORE element to that decision. But what we're discussing here is the impact on the potential, the savings potential. So it really is an IRP issue that I've raised in my testimony.  Do you know if, to date, any marketing programs approved in the CORE proceedings have
8 9 A. 10 11 12 13 Q. 14 15 16 17 A. 18 Q. 19 20 A.	And did GDS incorporate in its analysis the change in the lighting standards?  No, it didn't. And I comment on that in my testimony. And I've already said that I thought that change made by the Company was an appropriate one.  And would you agree, subject to check, that the GDS study finds that the technical potential savings for electric energy is over 27 percent?  What is the 27 percent?  The technical potential savings for electric energy is over 27 percent.  Of what?	7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Q.	appropriate or not.  No. The issue of the rebate or marketing program to incentivize CFLs has to do with the potential that the Company is reporting for the residential class in the IRP.  That's how it gets into the Integrated Resource Plan. I recognize there is also a CORE element to that decision. But what we're discussing here is the impact on the potential, the savings potential. So it really is an IRP issue that I've raised in my testimony.  Do you know if, to date, any marketing programs approved in the CORE proceedings have definitely been attributed with calculated
8 9 A. 10 11 12 13 Q. 14 15 16 17 A. 18 Q. 19 20 A. 21 Q.	And did GDS incorporate in its analysis the change in the lighting standards?  No, it didn't. And I comment on that in my testimony. And I've already said that I thought that change made by the Company was an appropriate one.  And would you agree, subject to check, that the GDS study finds that the technical potential savings for electric energy is over 27 percent?  What is the 27 percent?  The technical potential savings for electric energy is over 27 percent.  Of what?  Of projected 2018 sales.	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Q.	appropriate or not.  No. The issue of the rebate or marketing program to incentivize CFLs has to do with the potential that the Company is reporting for the residential class in the IRP.  That's how it gets into the Integrated Resource Plan. I recognize there is also a CORE element to that decision. But what we're discussing here is the impact on the potential, the savings potential. So it really is an IRP issue that I've raised in my testimony.  Do you know if, to date, any marketing programs approved in the CORE proceedings have definitely been attributed with calculated savings in electricity?
8 9 A. 10 11 12 13 Q. 14 15 16 17 A. 18 Q. 19 20 A.	And did GDS incorporate in its analysis the change in the lighting standards?  No, it didn't. And I comment on that in my testimony. And I've already said that I thought that change made by the Company was an appropriate one.  And would you agree, subject to check, that the GDS study finds that the technical potential savings for electric energy is over 27 percent?  What is the 27 percent?  The technical potential savings for electric energy is over 27 percent.  Of what?  Of projected 2018 sales.	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Q.	appropriate or not.  No. The issue of the rebate or marketing program to incentivize CFLs has to do with the potential that the Company is reporting for the residential class in the IRP.  That's how it gets into the Integrated Resource Plan. I recognize there is also a CORE element to that decision. But what we're discussing here is the impact on the potential, the savings potential. So it really is an IRP issue that I've raised in my testimony.  Do you know if, to date, any marketing programs approved in the CORE proceedings have definitely been attributed with calculated

24 Q. And that it also is over 27 percent for

just been discussing whether the Company is

24

[WITNE	SS: McCluskey] Page 81		SS: McCluskey] Page 83
1	going to use a rebate or a marketing program	1	could be accessed by the Company's programs.
2	with regard to the CFLs.	2 Q.	Thank you.
3	In discovery, I asked the Company, "If	3	MR. EATON: I have nothing
4	you think a marketing program is more	4	further.
5	effective, are you proposing to switch from	5	CHAIRMAN IGNATIUS: Thank you.
6	a rebate to a marketing program?" And you	6 IN	Commissioner Harrington. VTERROGATORIES BY CMSR. HARRINGTON:
7	said you were not intending to do that. So		
8	the question you've just asked has surprised	8 Q.	Just on your Staff Exhibit 3 there, Page 2, you have all those different expenditures and
9	me because you indicated you weren't going	9	•
10	to make that switch, even though you argued that it was more effective to have a	10	so forth in savings. These are the expenditures from the Plan that are proposed
11		11 12	•
12	program, which seems contrary. If it's more effective, why are you not going to switch	12 13 A.	expenditures by Public Service? Well, Commissioner, that's really one of the
13	from rebates to marketing?	13 A.	issues that I was getting into. I don't
14 15 Q.	But to date I think you answered my	15	really know what the significance of the
_	question initially as "no," that to date there	16	expenditure dollars are in this Exhibit
16 17	has not been a way to compute the energy	17	IV-8. Is it something they'd like to do?
18	savings that are projected or realized from a	18	Is it something they intend to do? Or is it
19	marketing program.	19	just intended as guidance, that if they were
20 A.	That was not my response to your question.	20	to develop programs that achieved the
21	You asked me was I aware of whether	21	electric and non-electric savings underlying
22	marketing programs in the CORE had a certain	22	these expenditures, this is what they would
23	effect. My answer is no. Why? Because I	23	have to spend?
24	don't participate in the CORE proceedings.	24 Q.	And along with that, there's nothing that you
	don't participate in the corta proceedings.		This thong with that, there's houring that you
	SS: McCluskey] Page 82	[WITNES	SS: McCluskey] Page 84
[WITNE	SS: McCluskey] Page 82	[WITNES	
[WITNE	SS: McCluskey] Page 82 That's why I don't know.	1	could find that tells where the source of this
[WITNE	SS: McCluskey] Page 82  That's why I don't know. Okay. Are appliance standards going to change	1 2	could find that tells where the source of this money is going to come from. I mean, we have
[WITNE 1 2 Q. 3	SS: McCluskey] Page 82  That's why I don't know.  Okay. Are appliance standards going to change in the planning period in this docket?	1	could find that tells where the source of this money is going to come from. I mean, we have a huge increase from 2010 to 2015 that's
[WITNE 1 2 Q. 3	SS: McCluskey] Page 82  That's why I don't know. Okay. Are appliance standards going to change in the planning period in this docket? Which appliance standards?	1 2 3	could find that tells where the source of this money is going to come from. I mean, we have a huge increase from 2010 to 2015 that's almost three times as much. Is there anything
[WITNE 1 2 Q. 3 4 A.	SS: McCluskey] Page 82  That's why I don't know.  Okay. Are appliance standards going to change in the planning period in this docket?	1 2 3 4	could find that tells where the source of this money is going to come from. I mean, we have a huge increase from 2010 to 2015 that's
[WITNE 1 2 Q. 3 4 A. 5 Q.	SS: McCluskey] Page 82  That's why I don't know. Okay. Are appliance standards going to change in the planning period in this docket? Which appliance standards? Energy-efficiency appliance standards that the industry developed. Do you know if there's	1 2 3 4 5	could find that tells where the source of this money is going to come from. I mean, we have a huge increase from 2010 to 2015 that's almost three times as much. Is there anything in the Plan that says where these additional
[WITNE 1 2 Q. 3 4 A. 5 Q. 6	That's why I don't know. Okay. Are appliance standards going to change in the planning period in this docket? Which appliance standards? Energy-efficiency appliance standards that the	1 2 3 4 5	could find that tells where the source of this money is going to come from. I mean, we have a huge increase from 2010 to 2015 that's almost three times as much. Is there anything in the Plan that says where these additional revenues are coming from?
[WITNE 1 2 Q. 3 4 A. 5 Q. 6 7	That's why I don't know. Okay. Are appliance standards going to change in the planning period in this docket? Which appliance standards? Energy-efficiency appliance standards that the industry developed. Do you know if there's going to be any change to those standards,	1 2 3 4 5 6 7 A.	could find that tells where the source of this money is going to come from. I mean, we have a huge increase from 2010 to 2015 that's almost three times as much. Is there anything in the Plan that says where these additional revenues are coming from?  There is not. I believe we might have
[WITNE 1 2 Q. 3 4 A. 5 Q. 6 7	That's why I don't know. Okay. Are appliance standards going to change in the planning period in this docket? Which appliance standards? Energy-efficiency appliance standards that the industry developed. Do you know if there's going to be any change to those standards, similar to the change in the lighting that I talked about?	1 2 3 4 5 6 7 A.	could find that tells where the source of this money is going to come from. I mean, we have a huge increase from 2010 to 2015 that's almost three times as much. Is there anything in the Plan that says where these additional revenues are coming from?  There is not. I believe we might have touched on that issue in discovery. But it
[WITNE 1 2 Q. 3 4 A. 5 Q. 6 7 8 9	That's why I don't know. Okay. Are appliance standards going to change in the planning period in this docket? Which appliance standards? Energy-efficiency appliance standards that the industry developed. Do you know if there's going to be any change to those standards, similar to the change in the lighting that I talked about?	1 2 3 4 5 6 7 A. 8	could find that tells where the source of this money is going to come from. I mean, we have a huge increase from 2010 to 2015 that's almost three times as much. Is there anything in the Plan that says where these additional revenues are coming from?  There is not. I believe we might have touched on that issue in discovery. But it was such a long time ago, I don't recall
[WITNE 1 2 Q. 3 4 A. 5 Q. 6 7 8 9 10 A.	That's why I don't know. Okay. Are appliance standards going to change in the planning period in this docket? Which appliance standards? Energy-efficiency appliance standards that the industry developed. Do you know if there's going to be any change to those standards, similar to the change in the lighting that I talked about? I have no specific knowledge with regard to any appliance standards, whether it relates to lighting or other appliances. So I think	1 2 3 4 5 6 7 A. 8 9	could find that tells where the source of this money is going to come from. I mean, we have a huge increase from 2010 to 2015 that's almost three times as much. Is there anything in the Plan that says where these additional revenues are coming from?  There is not. I believe we might have touched on that issue in discovery. But it was such a long time ago, I don't recall what the response was. But I think the
[WITNE 1 2 Q 3 4 A 5 Q 6 7 8 9 10 A 11	That's why I don't know. Okay. Are appliance standards going to change in the planning period in this docket? Which appliance standards? Energy-efficiency appliance standards that the industry developed. Do you know if there's going to be any change to those standards, similar to the change in the lighting that I talked about? I have no specific knowledge with regard to any appliance standards, whether it relates to lighting or other appliances. So I think that's a direct response to your question.	1 2 3 4 5 6 7 A. 8 9	could find that tells where the source of this money is going to come from. I mean, we have a huge increase from 2010 to 2015 that's almost three times as much. Is there anything in the Plan that says where these additional revenues are coming from?  There is not. I believe we might have touched on that issue in discovery. But it was such a long time ago, I don't recall what the response was. But I think the Company indicated that they obviously, they would have the Company seek approval of anything of this magnitude.
[WITNE 1 2 Q. 3 4 A. 5 Q. 6 7 8 9 10 A. 11 12	That's why I don't know. Okay. Are appliance standards going to change in the planning period in this docket? Which appliance standards? Energy-efficiency appliance standards that the industry developed. Do you know if there's going to be any change to those standards, similar to the change in the lighting that I talked about? I have no specific knowledge with regard to any appliance standards, whether it relates to lighting or other appliances. So I think that's a direct response to your question. But if there was a if there was a change	1 2 3 4 5 6 7 A. 8 9 10 11	could find that tells where the source of this money is going to come from. I mean, we have a huge increase from 2010 to 2015 that's almost three times as much. Is there anything in the Plan that says where these additional revenues are coming from?  There is not. I believe we might have touched on that issue in discovery. But it was such a long time ago, I don't recall what the response was. But I think the Company indicated that they obviously, they would have the Company seek approval of anything of this magnitude.  And just so I'm clear on this, in your
[WITNE 1 2 Q. 3 4 A. 5 Q. 6 7 8 9 10 A. 11 12 13	That's why I don't know. Okay. Are appliance standards going to change in the planning period in this docket? Which appliance standards? Energy-efficiency appliance standards that the industry developed. Do you know if there's going to be any change to those standards, similar to the change in the lighting that I talked about? I have no specific knowledge with regard to any appliance standards, whether it relates to lighting or other appliances. So I think that's a direct response to your question. But if there was a if there was a change that raised efficiency, a change in standards	1 2 3 4 5 6 7 A. 8 9 10 11 12 13	could find that tells where the source of this money is going to come from. I mean, we have a huge increase from 2010 to 2015 that's almost three times as much. Is there anything in the Plan that says where these additional revenues are coming from?  There is not. I believe we might have touched on that issue in discovery. But it was such a long time ago, I don't recall what the response was. But I think the Company indicated that they obviously, they would have the Company seek approval of anything of this magnitude.  And just so I'm clear on this, in your Exhibit 3, Page 2, what it's saying is that,
[WITNE 1 2 Q. 3 4 A. 5 Q. 6 7 8 9 10 A. 11 12 13 14 Q.	That's why I don't know. Okay. Are appliance standards going to change in the planning period in this docket? Which appliance standards? Energy-efficiency appliance standards that the industry developed. Do you know if there's going to be any change to those standards, similar to the change in the lighting that I talked about? I have no specific knowledge with regard to any appliance standards, whether it relates to lighting or other appliances. So I think that's a direct response to your question. But if there was a if there was a change that raised efficiency, a change in standards that raised efficiency in the manufacturing of	1 2 3 4 5 6 7 A. 8 9 10 11 12 13 14 Q. 15 16	could find that tells where the source of this money is going to come from. I mean, we have a huge increase from 2010 to 2015 that's almost three times as much. Is there anything in the Plan that says where these additional revenues are coming from?  There is not. I believe we might have touched on that issue in discovery. But it was such a long time ago, I don't recall what the response was. But I think the Company indicated that they obviously, they would have the Company seek approval of anything of this magnitude.  And just so I'm clear on this, in your Exhibit 3, Page 2, what it's saying is that, getting out to the year 2015, the Company is
[WITNE 1 2 Q. 3 4 A. 5 Q. 6 7 8 9 10 A. 11 12 13 14 Q. 15	That's why I don't know. Okay. Are appliance standards going to change in the planning period in this docket? Which appliance standards? Energy-efficiency appliance standards that the industry developed. Do you know if there's going to be any change to those standards, similar to the change in the lighting that I talked about? I have no specific knowledge with regard to any appliance standards, whether it relates to lighting or other appliances. So I think that's a direct response to your question. But if there was a if there was a change that raised efficiency, a change in standards that raised efficiency in the manufacturing of appliances, so that all appliances would be	1 2 3 4 5 6 7 A. 8 9 10 11 12 13 14 Q.	could find that tells where the source of this money is going to come from. I mean, we have a huge increase from 2010 to 2015 that's almost three times as much. Is there anything in the Plan that says where these additional revenues are coming from?  There is not. I believe we might have touched on that issue in discovery. But it was such a long time ago, I don't recall what the response was. But I think the Company indicated that they obviously, they would have the Company seek approval of anything of this magnitude.  And just so I'm clear on this, in your Exhibit 3, Page 2, what it's saying is that, getting out to the year 2015, the Company is proposing to spend significantly more on
[WITNE 1 2 Q. 3 4 A. 5 Q. 6 7 8 9 10 A. 11 12 13 14 Q. 15	That's why I don't know. Okay. Are appliance standards going to change in the planning period in this docket? Which appliance standards? Energy-efficiency appliance standards that the industry developed. Do you know if there's going to be any change to those standards, similar to the change in the lighting that I talked about? I have no specific knowledge with regard to any appliance standards, whether it relates to lighting or other appliances. So I think that's a direct response to your question. But if there was a if there was a change that raised efficiency, a change in standards that raised efficiency in the manufacturing of appliances, so that all appliances would be more efficient than previous ones, would that	1 2 3 4 5 6 7 A. 8 9 10 11 12 13 14 Q. 15 16 17 18	could find that tells where the source of this money is going to come from. I mean, we have a huge increase from 2010 to 2015 that's almost three times as much. Is there anything in the Plan that says where these additional revenues are coming from?  There is not. I believe we might have touched on that issue in discovery. But it was such a long time ago, I don't recall what the response was. But I think the Company indicated that they obviously, they would have the Company seek approval of anything of this magnitude.  And just so I'm clear on this, in your Exhibit 3, Page 2, what it's saying is that, getting out to the year 2015, the Company is proposing to spend significantly more on non-electric expenditures than on electric; is
[WITNE 1 2 Q. 3 4 A. 5 Q. 6 7 8 9 10 A. 11 12 13 14 Q. 15 16 17 18 19	That's why I don't know. Okay. Are appliance standards going to change in the planning period in this docket? Which appliance standards? Energy-efficiency appliance standards that the industry developed. Do you know if there's going to be any change to those standards, similar to the change in the lighting that I talked about? I have no specific knowledge with regard to any appliance standards, whether it relates to lighting or other appliances. So I think that's a direct response to your question. But if there was a if there was a change that raised efficiency, a change in standards that raised efficiency in the manufacturing of appliances, so that all appliances would be more efficient than previous ones, would that have an effect upon the savings that you could	1 2 3 4 5 6 7 A. 8 9 10 11 12 13 14 Q. 15 16 17 18 19	could find that tells where the source of this money is going to come from. I mean, we have a huge increase from 2010 to 2015 that's almost three times as much. Is there anything in the Plan that says where these additional revenues are coming from?  There is not. I believe we might have touched on that issue in discovery. But it was such a long time ago, I don't recall what the response was. But I think the Company indicated that they obviously, they would have the Company seek approval of anything of this magnitude.  And just so I'm clear on this, in your Exhibit 3, Page 2, what it's saying is that, getting out to the year 2015, the Company is proposing to spend significantly more on non-electric expenditures than on electric; is that correct?
[WITNE 1 2 Q. 3 4 A. 5 Q. 6 7 8 9 10 A. 11 12 13 14 Q. 15 16 17 18 19 20	That's why I don't know. Okay. Are appliance standards going to change in the planning period in this docket? Which appliance standards? Energy-efficiency appliance standards that the industry developed. Do you know if there's going to be any change to those standards, similar to the change in the lighting that I talked about? I have no specific knowledge with regard to any appliance standards, whether it relates to lighting or other appliances. So I think that's a direct response to your question. But if there was a if there was a change that raised efficiency, a change in standards that raised efficiency in the manufacturing of appliances, so that all appliances would be more efficient than previous ones, would that have an effect upon the savings that you could project in the future?	1 2 3 4 5 6 7 A. 8 9 10 11 12 13 14 Q. 15 16 17 18 19 20 A.	could find that tells where the source of this money is going to come from. I mean, we have a huge increase from 2010 to 2015 that's almost three times as much. Is there anything in the Plan that says where these additional revenues are coming from?  There is not. I believe we might have touched on that issue in discovery. But it was such a long time ago, I don't recall what the response was. But I think the Company indicated that they obviously, they would have the Company seek approval of anything of this magnitude.  And just so I'm clear on this, in your Exhibit 3, Page 2, what it's saying is that, getting out to the year 2015, the Company is proposing to spend significantly more on non-electric expenditures than on electric; is that correct?  Well, yes. Two things it's showing: One is
[WITNE 1 2 Q. 3 4 A. 5 Q. 6 7 8 9 10 A. 11 12 13 14 Q. 15 16 17 18 19 20 21 A.	That's why I don't know. Okay. Are appliance standards going to change in the planning period in this docket? Which appliance standards? Energy-efficiency appliance standards that the industry developed. Do you know if there's going to be any change to those standards, similar to the change in the lighting that I talked about? I have no specific knowledge with regard to any appliance standards, whether it relates to lighting or other appliances. So I think that's a direct response to your question. But if there was a if there was a change that raised efficiency, a change in standards that raised efficiency in the manufacturing of appliances, so that all appliances would be more efficient than previous ones, would that have an effect upon the savings that you could project in the future? Yes. If you had knowledge of appliance	1 2 3 4 5 6 7 A. 8 9 10 11 12 13 14 Q. 15 16 17 18 19 20 A. 21	could find that tells where the source of this money is going to come from. I mean, we have a huge increase from 2010 to 2015 that's almost three times as much. Is there anything in the Plan that says where these additional revenues are coming from?  There is not. I believe we might have touched on that issue in discovery. But it was such a long time ago, I don't recall what the response was. But I think the Company indicated that they obviously, they would have the Company seek approval of anything of this magnitude.  And just so I'm clear on this, in your Exhibit 3, Page 2, what it's saying is that, getting out to the year 2015, the Company is proposing to spend significantly more on non-electric expenditures than on electric; is that correct?  Well, yes. Two things it's showing: One is that the expenditures on electric
[WITNE 1 2 Q. 3 4 A. 5 Q. 6 7 8 9 10 A. 11 12 13 14 Q. 15 16 17 18 19 20 21 A. 22	That's why I don't know. Okay. Are appliance standards going to change in the planning period in this docket? Which appliance standards? Energy-efficiency appliance standards that the industry developed. Do you know if there's going to be any change to those standards, similar to the change in the lighting that I talked about? I have no specific knowledge with regard to any appliance standards, whether it relates to lighting or other appliances. So I think that's a direct response to your question. But if there was a if there was a change that raised efficiency, a change in standards that raised efficiency in the manufacturing of appliances, so that all appliances would be more efficient than previous ones, would that have an effect upon the savings that you could project in the future? Yes. If you had knowledge of appliance standards to change in the future, I would	1 2 3 4 5 6 7 A. 8 9 10 11 12 13 14 Q. 15 16 17 18 19 20 A. 21 22	could find that tells where the source of this money is going to come from. I mean, we have a huge increase from 2010 to 2015 that's almost three times as much. Is there anything in the Plan that says where these additional revenues are coming from?  There is not. I believe we might have touched on that issue in discovery. But it was such a long time ago, I don't recall what the response was. But I think the Company indicated that they obviously, they would have the Company seek approval of anything of this magnitude.  And just so I'm clear on this, in your Exhibit 3, Page 2, what it's saying is that, getting out to the year 2015, the Company is proposing to spend significantly more on non-electric expenditures than on electric; is that correct?  Well, yes. Two things it's showing: One is that the expenditures on electric non-electric outstrip those on electric;
[WITNE 1 2 Q. 3 4 A. 5 Q. 6 7 8 9 10 A. 11 12 13 14 Q. 15 16 17 18 19 20 21 A.	That's why I don't know. Okay. Are appliance standards going to change in the planning period in this docket? Which appliance standards? Energy-efficiency appliance standards that the industry developed. Do you know if there's going to be any change to those standards, similar to the change in the lighting that I talked about? I have no specific knowledge with regard to any appliance standards, whether it relates to lighting or other appliances. So I think that's a direct response to your question. But if there was a if there was a change that raised efficiency, a change in standards that raised efficiency in the manufacturing of appliances, so that all appliances would be more efficient than previous ones, would that have an effect upon the savings that you could project in the future? Yes. If you had knowledge of appliance	1 2 3 4 5 6 7 A. 8 9 10 11 12 13 14 Q. 15 16 17 18 19 20 A. 21	could find that tells where the source of this money is going to come from. I mean, we have a huge increase from 2010 to 2015 that's almost three times as much. Is there anything in the Plan that says where these additional revenues are coming from?  There is not. I believe we might have touched on that issue in discovery. But it was such a long time ago, I don't recall what the response was. But I think the Company indicated that they obviously, they would have the Company seek approval of anything of this magnitude.  And just so I'm clear on this, in your Exhibit 3, Page 2, what it's saying is that, getting out to the year 2015, the Company is proposing to spend significantly more on non-electric expenditures than on electric; is that correct?  Well, yes. Two things it's showing: One is that the expenditures on electric

[WITNE	SS: McCluskey] Page 85	1	SS: McCluskey] Page 87
1	over that five-year period. My	1	come up with a set of programs that produce
2	understanding is that it would be affecting	2	these dollars.
3	two programs: The Home Performance Program	3	And I think you said doing this even
4	and the program that addresses new	4	before they got a funding source.
5	construction for residential. I forget what	5	Personally, I think doing it the way they're
6	that one is called now. Energy Star Homes?	6	doing it is correct. You analyze the
7	PSNH witnesses are not helping me at all.	7	potential benefits that they can receive
8	So I think it's those two which would be	8	from these programs, and if you think they
9	targeted in achieving this kind of growth.	9	are cost-effective, very cost-effective,
10 Q.	And we've had a lot of discussion on you've	10	then you propose them, and then you seek
11	heard over the last couple days here on	11	permission from the regulator or from the
12	environmental regulations proposed and whether	12	legislature to allow the kind of level of
13	the Company should be planning in accordance	13	expenditure. What you need to do is you
14	with a regulation that hasn't been finalized	14	need to make the case that, even though
15	yet. And you've heard different opinions on	15	these are significant dollars, that they are
16	whether that's a good idea or a bad idea and	16	well worth doing it. And all I'm raising is
17	so forth.	17	the fact that a significant component of the
18	Having basically the Company's position	18	dollars relates to non-electric programs.
19	that they shouldn't be spending any money or	19	And so I'm questioning how can they benefit
20	doing any analysis to determine the cost of	20	the electric customers. They simply can't.
21	implementing environmental regulations that	21	There is no avoided costs associated with
22	have not become yet mandatory, in this	22	these programs that the electric customer
23	case and I'm looking for some guidance	23	would benefit from.
24	here from your review of this it appears	24 Q.	Okay. Thank you.
[WITNE	SS: McCluskey] Page 86	[WITNE	SS: McCluskey] Page 88
1	they spent a lot of time developing numbers	1	CMSR. HARRINGTON: That's all I
1 2	they spent a lot of time developing numbers out to an exact dollar. When we're talking	1 2	CMSR. HARRINGTON: That's all I have.
1 2 3	they spent a lot of time developing numbers out to an exact dollar. When we're talking 18 million, it's not just "around	1 2 3	CMSR. HARRINGTON: That's all I have. CHAIRMAN IGNATIUS: A few
1 2 3 4	they spent a lot of time developing numbers out to an exact dollar. When we're talking 18 million, it's not just "around 18 million." It's \$18,001,673. So I'm	1 2 3 4	CMSR. HARRINGTON: That's all I have.  CHAIRMAN IGNATIUS: A few questions, Mr. McCluskey.
1 2 3 4 5	they spent a lot of time developing numbers out to an exact dollar. When we're talking 18 million, it's not just "around 18 million." It's \$18,001,673. So I'm assuming they spent a lot of time in	1 2 3 4 5 IN	CMSR. HARRINGTON: That's all I have. CHAIRMAN IGNATIUS: A few questions, Mr. McCluskey. NTERROGATORIES BY CHAIRMAN IGNATIUS:
1 2 3 4 5 6	they spent a lot of time developing numbers out to an exact dollar. When we're talking 18 million, it's not just "around 18 million." It's \$18,001,673. So I'm assuming they spent a lot of time in analysis on developing figures that you say	1 2 3 4 5 IN 6 Q.	CMSR. HARRINGTON: That's all I have.  CHAIRMAN IGNATIUS: A few questions, Mr. McCluskey.  NTERROGATORIES BY CHAIRMAN IGNATIUS: The issue of whether the CORE programs
1 2 3 4 5 6 7	they spent a lot of time developing numbers out to an exact dollar. When we're talking 18 million, it's not just "around 18 million." It's \$18,001,673. So I'm assuming they spent a lot of time in analysis on developing figures that you say they haven't even determined a funding	1 2 3 4 5 IN 6 Q.	CMSR. HARRINGTON: That's all I have.  CHAIRMAN IGNATIUS: A few questions, Mr. McCluskey.  NTERROGATORIES BY CHAIRMAN IGNATIUS: The issue of whether the CORE programs should by the electric company should
1 2 3 4 5 6 7 8	they spent a lot of time developing numbers out to an exact dollar. When we're talking 18 million, it's not just "around 18 million." It's \$18,001,673. So I'm assuming they spent a lot of time in analysis on developing figures that you say they haven't even determined a funding mechanism for, let alone how they broke it	1 2 3 4 5 IN 6 Q. 7	CMSR. HARRINGTON: That's all I have.  CHAIRMAN IGNATIUS: A few questions, Mr. McCluskey.  NTERROGATORIES BY CHAIRMAN IGNATIUS: The issue of whether the CORE programs should by the electric company should involve services that don't necessarily bring
1 2 3 4 5 6 7 8	they spent a lot of time developing numbers out to an exact dollar. When we're talking 18 million, it's not just "around 18 million." It's \$18,001,673. So I'm assuming they spent a lot of time in analysis on developing figures that you say they haven't even determined a funding mechanism for, let alone how they broke it down into non-electric and electric	1 2 3 4 5 IN 6 Q. 7 8	CMSR. HARRINGTON: That's all I have.  CHAIRMAN IGNATIUS: A few questions, Mr. McCluskey.  NTERROGATORIES BY CHAIRMAN IGNATIUS: The issue of whether the CORE programs should by the electric company should involve services that don't necessarily bring them electrical usage is something that's
1 2 3 4 5 6 7 8 9	they spent a lot of time developing numbers out to an exact dollar. When we're talking 18 million, it's not just "around 18 million." It's \$18,001,673. So I'm assuming they spent a lot of time in analysis on developing figures that you say they haven't even determined a funding mechanism for, let alone how they broke it down into non-electric and electric expenditures, which I assume there must be	1 2 3 4 5 IN 6 Q. 7 8 9	CMSR. HARRINGTON: That's all I have.  CHAIRMAN IGNATIUS: A few questions, Mr. McCluskey.  NTERROGATORIES BY CHAIRMAN IGNATIUS: The issue of whether the CORE programs should by the electric company should involve services that don't necessarily bring them electrical usage is something that's pending in the CORE docket; isn't that right?
1 2 3 4 5 6 7 8 9 10	they spent a lot of time developing numbers out to an exact dollar. When we're talking 18 million, it's not just "around 18 million." It's \$18,001,673. So I'm assuming they spent a lot of time in analysis on developing figures that you say they haven't even determined a funding mechanism for, let alone how they broke it down into non-electric and electric expenditures, which I assume there must be analysis there on what type of programs it	1 2 3 4 5 IN 6 Q. 7 8 9 10 11 A.	CMSR. HARRINGTON: That's all I have.  CHAIRMAN IGNATIUS: A few questions, Mr. McCluskey.  NTERROGATORIES BY CHAIRMAN IGNATIUS: The issue of whether the CORE programs should by the electric company should involve services that don't necessarily bring them electrical usage is something that's pending in the CORE docket; isn't that right? It is, yes.
1 2 3 4 5 6 7 8 9 10 11	they spent a lot of time developing numbers out to an exact dollar. When we're talking 18 million, it's not just "around 18 million." It's \$18,001,673. So I'm assuming they spent a lot of time in analysis on developing figures that you say they haven't even determined a funding mechanism for, let alone how they broke it down into non-electric and electric expenditures, which I assume there must be analysis there on what type of programs it can be spent on and how much return on that	1 2 3 4 5 IN 6 Q. 7 8 9 10 11 A. 12 Q.	CMSR. HARRINGTON: That's all I have.  CHAIRMAN IGNATIUS: A few questions, Mr. McCluskey.  NTERROGATORIES BY CHAIRMAN IGNATIUS: The issue of whether the CORE programs should by the electric company should involve services that don't necessarily bring them electrical usage is something that's pending in the CORE docket; isn't that right? It is, yes.  So, how do you see the relationship between a
1 2 3 4 5 6 7 8 9 10 11 12	they spent a lot of time developing numbers out to an exact dollar. When we're talking 18 million, it's not just "around 18 million." It's \$18,001,673. So I'm assuming they spent a lot of time in analysis on developing figures that you say they haven't even determined a funding mechanism for, let alone how they broke it down into non-electric and electric expenditures, which I assume there must be analysis there on what type of programs it can be spent on and how much return on that dollar would be. That seems like a lot of	1 2 3 4 5 IN 6 Q. 7 8 9 10 11 A. 12 Q. 13	CMSR. HARRINGTON: That's all I have.  CHAIRMAN IGNATIUS: A few questions, Mr. McCluskey.  NTERROGATORIES BY CHAIRMAN IGNATIUS: The issue of whether the CORE programs should by the electric company should involve services that don't necessarily bring them electrical usage is something that's pending in the CORE docket; isn't that right? It is, yes.  So, how do you see the relationship between a planning docket and a specific docket on those
1 2 3 4 5 6 7 8 9 10 11 12 13 14	they spent a lot of time developing numbers out to an exact dollar. When we're talking 18 million, it's not just "around 18 million." It's \$18,001,673. So I'm assuming they spent a lot of time in analysis on developing figures that you say they haven't even determined a funding mechanism for, let alone how they broke it down into non-electric and electric expenditures, which I assume there must be analysis there on what type of programs it can be spent on and how much return on that dollar would be. That seems like a lot of electrical I mean a lot of engineering	1 2 3 4 5 IN 6 Q. 7 8 9 10 11 A. 12 Q. 13 14	CMSR. HARRINGTON: That's all I have.  CHAIRMAN IGNATIUS: A few questions, Mr. McCluskey.  NTERROGATORIES BY CHAIRMAN IGNATIUS: The issue of whether the CORE programs should by the electric company should involve services that don't necessarily bring them electrical usage is something that's pending in the CORE docket; isn't that right? It is, yes.  So, how do you see the relationship between a planning docket and a specific docket on those kinds of program expenditures?
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	they spent a lot of time developing numbers out to an exact dollar. When we're talking 18 million, it's not just "around 18 million." It's \$18,001,673. So I'm assuming they spent a lot of time in analysis on developing figures that you say they haven't even determined a funding mechanism for, let alone how they broke it down into non-electric and electric expenditures, which I assume there must be analysis there on what type of programs it can be spent on and how much return on that dollar would be. That seems like a lot of electrical I mean a lot of engineering analysis. Am I missing something, or is	1 2 3 4 5 IN 6 Q. 7 8 9 10 11 A. 12 Q. 13 14 15 A.	CMSR. HARRINGTON: That's all I have.  CHAIRMAN IGNATIUS: A few questions, Mr. McCluskey.  NTERROGATORIES BY CHAIRMAN IGNATIUS: The issue of whether the CORE programs should by the electric company should involve services that don't necessarily bring them electrical usage is something that's pending in the CORE docket; isn't that right? It is, yes.  So, how do you see the relationship between a planning docket and a specific docket on those kinds of program expenditures? The relationship comes through the
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	they spent a lot of time developing numbers out to an exact dollar. When we're talking 18 million, it's not just "around 18 million." It's \$18,001,673. So I'm assuming they spent a lot of time in analysis on developing figures that you say they haven't even determined a funding mechanism for, let alone how they broke it down into non-electric and electric expenditures, which I assume there must be analysis there on what type of programs it can be spent on and how much return on that dollar would be. That seems like a lot of electrical I mean a lot of engineering analysis. Am I missing something, or is that	1 2 3 4 5 IN 6 Q. 7 8 9 10 11 A. 12 Q. 13 14 15 A. 16	CMSR. HARRINGTON: That's all I have.  CHAIRMAN IGNATIUS: A few questions, Mr. McCluskey.  NTERROGATORIES BY CHAIRMAN IGNATIUS: The issue of whether the CORE programs should by the electric company should involve services that don't necessarily bring them electrical usage is something that's pending in the CORE docket; isn't that right? It is, yes.  So, how do you see the relationship between a planning docket and a specific docket on those kinds of program expenditures?  The relationship comes through the cost-effectiveness standard, the TRC ratio.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 A.	they spent a lot of time developing numbers out to an exact dollar. When we're talking 18 million, it's not just "around 18 million." It's \$18,001,673. So I'm assuming they spent a lot of time in analysis on developing figures that you say they haven't even determined a funding mechanism for, let alone how they broke it down into non-electric and electric expenditures, which I assume there must be analysis there on what type of programs it can be spent on and how much return on that dollar would be. That seems like a lot of electrical I mean a lot of engineering analysis. Am I missing something, or is that	1 2 3 4 5 IN 6 Q. 7 8 9 10 11 A. 12 Q. 13 14 15 A. 16 17	CMSR. HARRINGTON: That's all I have.  CHAIRMAN IGNATIUS: A few questions, Mr. McCluskey.  NTERROGATORIES BY CHAIRMAN IGNATIUS: The issue of whether the CORE programs should by the electric company should involve services that don't necessarily bring them electrical usage is something that's pending in the CORE docket; isn't that right? It is, yes.  So, how do you see the relationship between a planning docket and a specific docket on those kinds of program expenditures? The relationship comes through the cost-effectiveness standard, the TRC ratio.  My understanding is, as I've said, that
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 A. 18	they spent a lot of time developing numbers out to an exact dollar. When we're talking 18 million, it's not just "around 18 million." It's \$18,001,673. So I'm assuming they spent a lot of time in analysis on developing figures that you say they haven't even determined a funding mechanism for, let alone how they broke it down into non-electric and electric expenditures, which I assume there must be analysis there on what type of programs it can be spent on and how much return on that dollar would be. That seems like a lot of electrical I mean a lot of engineering analysis. Am I missing something, or is that  There's obviously some analysis behind it. I personally do not think it would require	1 2 3 4 5 IN 6 Q. 7 8 9 10 11 A. 12 Q. 13 14 15 A. 16 17 18	CMSR. HARRINGTON: That's all I have.  CHAIRMAN IGNATIUS: A few questions, Mr. McCluskey.  NTERROGATORIES BY CHAIRMAN IGNATIUS: The issue of whether the CORE programs should by the electric company should involve services that don't necessarily bring them electrical usage is something that's pending in the CORE docket; isn't that right? It is, yes.  So, how do you see the relationship between a planning docket and a specific docket on those kinds of program expenditures? The relationship comes through the cost-effectiveness standard, the TRC ratio.  My understanding is, as I've said, that the utilities should be selecting supply- or
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 A. 18 19	they spent a lot of time developing numbers out to an exact dollar. When we're talking 18 million, it's not just "around 18 million." It's \$18,001,673. So I'm assuming they spent a lot of time in analysis on developing figures that you say they haven't even determined a funding mechanism for, let alone how they broke it down into non-electric and electric expenditures, which I assume there must be analysis there on what type of programs it can be spent on and how much return on that dollar would be. That seems like a lot of electrical I mean a lot of engineering analysis. Am I missing something, or is that There's obviously some analysis behind it. I personally do not think it would require extensive analysis. The Company has all the	1 2 3 4 5 IN 6 Q. 7 8 9 10 11 A. 12 Q. 13 14 15 A. 16 17 18 19	CMSR. HARRINGTON: That's all I have.  CHAIRMAN IGNATIUS: A few questions, Mr. McCluskey.  NTERROGATORIES BY CHAIRMAN IGNATIUS: The issue of whether the CORE programs should by the electric company should involve services that don't necessarily bring them electrical usage is something that's pending in the CORE docket; isn't that right? It is, yes.  So, how do you see the relationship between a planning docket and a specific docket on those kinds of program expenditures? The relationship comes through the cost-effectiveness standard, the TRC ratio.  My understanding is, as I've said, that the utilities should be selecting supply- or demand-side programs, or a combination of
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 A. 18 19 20	they spent a lot of time developing numbers out to an exact dollar. When we're talking 18 million, it's not just "around 18 million." It's \$18,001,673. So I'm assuming they spent a lot of time in analysis on developing figures that you say they haven't even determined a funding mechanism for, let alone how they broke it down into non-electric and electric expenditures, which I assume there must be analysis there on what type of programs it can be spent on and how much return on that dollar would be. That seems like a lot of electrical I mean a lot of engineering analysis. Am I missing something, or is that  There's obviously some analysis behind it. I personally do not think it would require extensive analysis. The Company has all the details about the savings from various	1 2 3 4 5 IN 6 Q. 7 8 9 10 11 A. 12 Q. 13 14 15 A. 16 17 18 19 20	CMSR. HARRINGTON: That's all I have.  CHAIRMAN IGNATIUS: A few questions, Mr. McCluskey.  NTERROGATORIES BY CHAIRMAN IGNATIUS: The issue of whether the CORE programs should by the electric company should involve services that don't necessarily bring them electrical usage is something that's pending in the CORE docket; isn't that right? It is, yes.  So, how do you see the relationship between a planning docket and a specific docket on those kinds of program expenditures?  The relationship comes through the cost-effectiveness standard, the TRC ratio.  My understanding is, as I've said, that the utilities should be selecting supply- or demand-side programs, or a combination of the two, in a way that reduces the cost to
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 A. 18 19 20 21	they spent a lot of time developing numbers out to an exact dollar. When we're talking 18 million, it's not just "around 18 million." It's \$18,001,673. So I'm assuming they spent a lot of time in analysis on developing figures that you say they haven't even determined a funding mechanism for, let alone how they broke it down into non-electric and electric expenditures, which I assume there must be analysis there on what type of programs it can be spent on and how much return on that dollar would be. That seems like a lot of electrical I mean a lot of engineering analysis. Am I missing something, or is that  There's obviously some analysis behind it. I personally do not think it would require extensive analysis. The Company has all the details about the savings from various programs and what kind of participation you	1 2 3 4 5 IN 6 Q. 7 8 9 10 11 A. 12 Q. 13 14 15 A. 16 17 18 19 20 21	CMSR. HARRINGTON: That's all I have.  CHAIRMAN IGNATIUS: A few questions, Mr. McCluskey.  NTERROGATORIES BY CHAIRMAN IGNATIUS: The issue of whether the CORE programs should by the electric company should involve services that don't necessarily bring them electrical usage is something that's pending in the CORE docket; isn't that right? It is, yes.  So, how do you see the relationship between a planning docket and a specific docket on those kinds of program expenditures? The relationship comes through the cost-effectiveness standard, the TRC ratio.  My understanding is, as I've said, that the utilities should be selecting supply- or demand-side programs, or a combination of the two, in a way that reduces the cost to electric customers overall. And so if the
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 A. 18 19 20 21 22	they spent a lot of time developing numbers out to an exact dollar. When we're talking 18 million, it's not just "around 18 million." It's \$18,001,673. So I'm assuming they spent a lot of time in analysis on developing figures that you say they haven't even determined a funding mechanism for, let alone how they broke it down into non-electric and electric expenditures, which I assume there must be analysis there on what type of programs it can be spent on and how much return on that dollar would be. That seems like a lot of electrical I mean a lot of engineering analysis. Am I missing something, or is that  There's obviously some analysis behind it. I personally do not think it would require extensive analysis. The Company has all the details about the savings from various programs and what kind of participation you might be able to expect and what they could	1 2 3 4 5 IN 6 Q. 7 8 9 10 11 A. 12 Q. 13 14 15 A. 16 17 18 19 20 21 22	CMSR. HARRINGTON: That's all I have.  CHAIRMAN IGNATIUS: A few questions, Mr. McCluskey.  NTERROGATORIES BY CHAIRMAN IGNATIUS: The issue of whether the CORE programs should by the electric company should involve services that don't necessarily bring them electrical usage is something that's pending in the CORE docket; isn't that right? It is, yes.  So, how do you see the relationship between a planning docket and a specific docket on those kinds of program expenditures? The relationship comes through the cost-effectiveness standard, the TRC ratio.  My understanding is, as I've said, that the utilities should be selecting supply- or demand-side programs, or a combination of the two, in a way that reduces the cost to electric customers overall. And so if the Company is including non-electric savings in
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 A. 18 19 20 21	they spent a lot of time developing numbers out to an exact dollar. When we're talking 18 million, it's not just "around 18 million." It's \$18,001,673. So I'm assuming they spent a lot of time in analysis on developing figures that you say they haven't even determined a funding mechanism for, let alone how they broke it down into non-electric and electric expenditures, which I assume there must be analysis there on what type of programs it can be spent on and how much return on that dollar would be. That seems like a lot of electrical I mean a lot of engineering analysis. Am I missing something, or is that  There's obviously some analysis behind it. I personally do not think it would require extensive analysis. The Company has all the details about the savings from various programs and what kind of participation you	1 2 3 4 5 IN 6 Q. 7 8 9 10 11 A. 12 Q. 13 14 15 A. 16 17 18 19 20 21	CMSR. HARRINGTON: That's all I have.  CHAIRMAN IGNATIUS: A few questions, Mr. McCluskey. NTERROGATORIES BY CHAIRMAN IGNATIUS: The issue of whether the CORE programs should by the electric company should involve services that don't necessarily bring them electrical usage is something that's pending in the CORE docket; isn't that right? It is, yes.  So, how do you see the relationship between a planning docket and a specific docket on those kinds of program expenditures? The relationship comes through the cost-effectiveness standard, the TRC ratio.  My understanding is, as I've said, that the utilities should be selecting supply- or demand-side programs, or a combination of the two, in a way that reduces the cost to electric customers overall. And so if the

[WITNE	ESS: McCluskey] Page 89		SS: McCluskey] Page 91
1	cost-effective, then that's working against	1	fairly rapid increase in these programs
2	the whole idea of least cost planning.	2	programs that, one, benefit the non-electric
3	Least cost planning is about electric	3	customers but are paid for by the electric
4	utility planning. It's not about all the	4	customers. But if the Commission decides
5	fuel industries within the state. It's	5	that's that appropriate, and these level of
6	about the benefits for electric customers of	6	expenditures on those programs is
7	this particular utility. And so including	7	appropriate, then that's the end of the
8	those non-electric savings in there is	8	story. We know what to do in the next IRP.
9	distorting the picture of cost-effectiveness	9	The decision's already made. But my
10	that we're receiving through this filing.	10	understanding is that certainly this level
11 Q	But if the utilities are being encouraged	11	of expenditures has not been approved by the
12	through Commission orders in the CORE	12	Commission at this point; hence, that's why
13	proceedings to explore some of these	13	I'm raising it in this proceeding.
14	fuel-neutral programs, then isn't it a little	14 Q.	All right. That's fair.
15	unfair for the criticism, then, for the	15	In your review of least cost planning
16	that they discuss those in a plan? Aren't	16	over the years, have you seen other periods
17	they being sort of caught in the middle?	17	of time where there was a lot of uncertainty
18 A	<u> </u>	18	on the part of the utility on significant
19	policy decision that it is okay for the	19	capital expenditures that might be required
20	electric utilities to develop programs for	20	because of changing market conditions or
21	non-electric customers, then, fine, that's	21	changing regulatory standards?
22	the end of the decision. But now we've got	22 A.	You're referring to environmental
23	to go back, when we talk about least cost	23	regulations?
24	planning, we have to change the definition	24 Q.	Or whatever. Is PSNH's situation of having a
[WITNE	ESS: McCluskey] Page 90	[WITNES	SS: McCluskey] Page 92
[WITNE	ess: McCluskey] Page 90 of what we mean by "least cost planning,"	[WITNES	SS: McCluskey] Page 92  lot of unknowns that it has to contend with an
1	of what we mean by "least cost planning,"	1 2	lot of unknowns that it has to contend with an
1 2	of what we mean by "least cost planning," because they are now including savings from non-electric sources in there. And so we've now changed the standard test that we've	1 2	lot of unknowns that it has to contend with an isolated situation? I don't think it's isolated. I think this is kind of a new issue. Integrated resource
1 2 3	of what we mean by "least cost planning," because they are now including savings from non-electric sources in there. And so we've now changed the standard test that we've been using for the last 20 years. And it's	1 2 3 A.	lot of unknowns that it has to contend with an isolated situation? I don't think it's isolated. I think this is kind of a new issue. Integrated resource planning addresses there's new issues
1 2 3 4	of what we mean by "least cost planning," because they are now including savings from non-electric sources in there. And so we've now changed the standard test that we've been using for the last 20 years. And it's been that long since we've been doing least	1 2 3 A.	lot of unknowns that it has to contend with an isolated situation? I don't think it's isolated. I think this is kind of a new issue. Integrated resource planning addresses there's new issues bubbling to the surface all the time. And
1 2 3 4 5 6	of what we mean by "least cost planning," because they are now including savings from non-electric sources in there. And so we've now changed the standard test that we've been using for the last 20 years. And it's been that long since we've been doing least cost planning.	1 2 3 A. 4 5	lot of unknowns that it has to contend with an isolated situation? I don't think it's isolated. I think this is kind of a new issue. Integrated resource planning addresses there's new issues bubbling to the surface all the time. And the issues change. We just happen to be in
1 2 3 4 5	of what we mean by "least cost planning," because they are now including savings from non-electric sources in there. And so we've now changed the standard test that we've been using for the last 20 years. And it's been that long since we've been doing least cost planning.  Is it fair that your concern here isn't so	1 2 3 A. 4 5 6 7 8	lot of unknowns that it has to contend with an isolated situation?  I don't think it's isolated. I think this is kind of a new issue. Integrated resource planning addresses there's new issues bubbling to the surface all the time. And the issues change. We just happen to be in a phase of utility regulation, both state
1 2 3 4 5 6 7 8 Q	of what we mean by "least cost planning," because they are now including savings from non-electric sources in there. And so we've now changed the standard test that we've been using for the last 20 years. And it's been that long since we've been doing least cost planning.  Is it fair that your concern here isn't so much how PSNH developed the materials and	1 2 3 A. 4 5 6 7 8	lot of unknowns that it has to contend with an isolated situation? I don't think it's isolated. I think this is kind of a new issue. Integrated resource planning addresses there's new issues bubbling to the surface all the time. And the issues change. We just happen to be in a phase of utility regulation, both state and federal, where environmental regulations
1 2 3 4 5 6 7 8 Q 9	of what we mean by "least cost planning," because they are now including savings from non-electric sources in there. And so we've now changed the standard test that we've been using for the last 20 years. And it's been that long since we've been doing least cost planning.  Is it fair that your concern here isn't so much how PSNH developed the materials and in the course of discovery it's become more	1 2 3 A. 4 5 6 7 8 9	lot of unknowns that it has to contend with an isolated situation? I don't think it's isolated. I think this is kind of a new issue. Integrated resource planning addresses there's new issues bubbling to the surface all the time. And the issues change. We just happen to be in a phase of utility regulation, both state and federal, where environmental regulations is really a big deal. And since PSNH
1 2 3 4 5 6 7 8 Q 9	of what we mean by "least cost planning," because they are now including savings from non-electric sources in there. And so we've now changed the standard test that we've been using for the last 20 years. And it's been that long since we've been doing least cost planning.  Is it fair that your concern here isn't so much how PSNH developed the materials and in the course of discovery it's become more refined and clearer but your concern really	1 2 3 A. 4 5 6 7 8 9 10	lot of unknowns that it has to contend with an isolated situation?  I don't think it's isolated. I think this is kind of a new issue. Integrated resource planning addresses there's new issues bubbling to the surface all the time. And the issues change. We just happen to be in a phase of utility regulation, both state and federal, where environmental regulations is really a big deal. And since PSNH happens to own continues to own and
1 2 3 4 5 6 7 8 Q 9 10 11 12	of what we mean by "least cost planning," because they are now including savings from non-electric sources in there. And so we've now changed the standard test that we've been using for the last 20 years. And it's been that long since we've been doing least cost planning.  Is it fair that your concern here isn't so much how PSNH developed the materials and in the course of discovery it's become more refined and clearer but your concern really has more to do with the policy direction of	1 2 3 A. 4 5 6 7 8 9 10 11 12	lot of unknowns that it has to contend with an isolated situation?  I don't think it's isolated. I think this is kind of a new issue. Integrated resource planning addresses there's new issues bubbling to the surface all the time. And the issues change. We just happen to be in a phase of utility regulation, both state and federal, where environmental regulations is really a big deal. And since PSNH happens to own continues to own and operate generating plants that could be
1 2 3 4 5 6 7 8 Q 9 10 11 12 13	of what we mean by "least cost planning," because they are now including savings from non-electric sources in there. And so we've now changed the standard test that we've been using for the last 20 years. And it's been that long since we've been doing least cost planning.  Is it fair that your concern here isn't so much how PSNH developed the materials and in the course of discovery it's become more refined and clearer but your concern really has more to do with the policy direction of the Commission encouraging or authorizing, at	1 2 3 A. 4 5 6 7 8 9 10 11 12 13	lot of unknowns that it has to contend with an isolated situation?  I don't think it's isolated. I think this is kind of a new issue. Integrated resource planning addresses there's new issues bubbling to the surface all the time. And the issues change. We just happen to be in a phase of utility regulation, both state and federal, where environmental regulations is really a big deal. And since PSNH happens to own continues to own and operate generating plants that could be impacted by those regulations, then not
1 2 3 4 5 6 7 8 Q 9 10 11 12 13 14	of what we mean by "least cost planning," because they are now including savings from non-electric sources in there. And so we've now changed the standard test that we've been using for the last 20 years. And it's been that long since we've been doing least cost planning.  Is it fair that your concern here isn't so much how PSNH developed the materials and in the course of discovery it's become more refined and clearer but your concern really has more to do with the policy direction of the Commission encouraging or authorizing, at least on a pilot basis, the fuel-neutral	1 2 3 A. 4 5 6 7 8 9 10 11 12 13 14	lot of unknowns that it has to contend with an isolated situation?  I don't think it's isolated. I think this is kind of a new issue. Integrated resource planning addresses there's new issues bubbling to the surface all the time. And the issues change. We just happen to be in a phase of utility regulation, both state and federal, where environmental regulations is really a big deal. And since PSNH happens to own continues to own and operate generating plants that could be impacted by those regulations, then not surprisingly it's going to be an issue in an
1 2 3 4 5 6 7 8 Q 9 10 11 12 13 14 15	of what we mean by "least cost planning," because they are now including savings from non-electric sources in there. And so we've now changed the standard test that we've been using for the last 20 years. And it's been that long since we've been doing least cost planning.  Is it fair that your concern here isn't so much how PSNH developed the materials and in the course of discovery it's become more refined and clearer but your concern really has more to do with the policy direction of the Commission encouraging or authorizing, at least on a pilot basis, the fuel-neutral programs?	1 2 3 A. 4 5 6 7 8 9 10 11 12 13 14 15	lot of unknowns that it has to contend with an isolated situation?  I don't think it's isolated. I think this is kind of a new issue. Integrated resource planning addresses there's new issues bubbling to the surface all the time. And the issues change. We just happen to be in a phase of utility regulation, both state and federal, where environmental regulations is really a big deal. And since PSNH happens to own continues to own and operate generating plants that could be impacted by those regulations, then not surprisingly it's going to be an issue in an IRP. It should be an issue. It should be
1 2 3 4 5 6 7 8 Q 9 10 11 12 13 14 15 16 A	of what we mean by "least cost planning," because they are now including savings from non-electric sources in there. And so we've now changed the standard test that we've been using for the last 20 years. And it's been that long since we've been doing least cost planning.  Is it fair that your concern here isn't so much how PSNH developed the materials and in the course of discovery it's become more refined and clearer but your concern really has more to do with the policy direction of the Commission encouraging or authorizing, at least on a pilot basis, the fuel-neutral programs?  I think that's fair. Obviously, I believe	1 2 3 A. 4 5 6 7 8 9 10 11 12 13 14 15 16	lot of unknowns that it has to contend with an isolated situation?  I don't think it's isolated. I think this is kind of a new issue. Integrated resource planning addresses there's new issues bubbling to the surface all the time. And the issues change. We just happen to be in a phase of utility regulation, both state and federal, where environmental regulations is really a big deal. And since PSNH happens to own continues to own and operate generating plants that could be impacted by those regulations, then not surprisingly it's going to be an issue in an IRP. It should be an issue. It should be expected to anticipate what's coming down
1 2 3 4 5 6 7 8 Q 9 10 11 12 13 14 15 16 A	of what we mean by "least cost planning," because they are now including savings from non-electric sources in there. And so we've now changed the standard test that we've been using for the last 20 years. And it's been that long since we've been doing least cost planning.  Is it fair that your concern here isn't so much how PSNH developed the materials and in the course of discovery it's become more refined and clearer but your concern really has more to do with the policy direction of the Commission encouraging or authorizing, at least on a pilot basis, the fuel-neutral programs?  I think that's fair. Obviously, I believe in least cost planning. I wouldn't be	1 2 3 A. 4 5 6 7 8 9 10 11 12 13 14 15 16	lot of unknowns that it has to contend with an isolated situation?  I don't think it's isolated. I think this is kind of a new issue. Integrated resource planning addresses there's new issues bubbling to the surface all the time. And the issues change. We just happen to be in a phase of utility regulation, both state and federal, where environmental regulations is really a big deal. And since PSNH happens to own continues to own and operate generating plants that could be impacted by those regulations, then not surprisingly it's going to be an issue in an IRP. It should be an issue. It should be expected to anticipate what's coming down the pipe [sic] and include both the benefits
1 2 3 4 5 6 7 8 Q 9 10 11 12 13 14 15 16 A 17	of what we mean by "least cost planning," because they are now including savings from non-electric sources in there. And so we've now changed the standard test that we've been using for the last 20 years. And it's been that long since we've been doing least cost planning.  Is it fair that your concern here isn't so much how PSNH developed the materials and in the course of discovery it's become more refined and clearer but your concern really has more to do with the policy direction of the Commission encouraging or authorizing, at least on a pilot basis, the fuel-neutral programs?  I think that's fair. Obviously, I believe in least cost planning. I wouldn't be working on Integrated Resource Plans if I	1 2 3 A. 4 5 6 7 8 9 10 11 12 13 14 15 16 17	lot of unknowns that it has to contend with an isolated situation?  I don't think it's isolated. I think this is kind of a new issue. Integrated resource planning addresses there's new issues bubbling to the surface all the time. And the issues change. We just happen to be in a phase of utility regulation, both state and federal, where environmental regulations is really a big deal. And since PSNH happens to own continues to own and operate generating plants that could be impacted by those regulations, then not surprisingly it's going to be an issue in an IRP. It should be an issue. It should be expected to anticipate what's coming down the pipe [sic] and include both the benefits and the costs of those regulations in its
1 2 3 4 5 6 7 8 Q 9 10 11 12 13 14 15 16 A	of what we mean by "least cost planning," because they are now including savings from non-electric sources in there. And so we've now changed the standard test that we've been using for the last 20 years. And it's been that long since we've been doing least cost planning.  Is it fair that your concern here isn't so much how PSNH developed the materials and in the course of discovery it's become more refined and clearer but your concern really has more to do with the policy direction of the Commission encouraging or authorizing, at least on a pilot basis, the fuel-neutral programs?  I think that's fair. Obviously, I believe in least cost planning. I wouldn't be	1 2 3 A. 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	lot of unknowns that it has to contend with an isolated situation?  I don't think it's isolated. I think this is kind of a new issue. Integrated resource planning addresses there's new issues bubbling to the surface all the time. And the issues change. We just happen to be in a phase of utility regulation, both state and federal, where environmental regulations is really a big deal. And since PSNH happens to own continues to own and operate generating plants that could be impacted by those regulations, then not surprisingly it's going to be an issue in an IRP. It should be an issue. It should be expected to anticipate what's coming down the pipe [sic] and include both the benefits and the costs of those regulations in its planning. And at the moment, the I'm not
1 2 3 4 5 6 7 8 Q 9 10 11 12 13 14 15 16 A 17 18	of what we mean by "least cost planning," because they are now including savings from non-electric sources in there. And so we've now changed the standard test that we've been using for the last 20 years. And it's been that long since we've been doing least cost planning.  Is it fair that your concern here isn't so much how PSNH developed the materials and in the course of discovery it's become more refined and clearer but your concern really has more to do with the policy direction of the Commission encouraging or authorizing, at least on a pilot basis, the fuel-neutral programs?  I think that's fair. Obviously, I believe in least cost planning. I wouldn't be working on Integrated Resource Plans if I were not. And I truly think that we should be focused on the electric customer and	1 2 3 A. 4 5 6 7 8 9 10 11 12 13 14 15 16 17	lot of unknowns that it has to contend with an isolated situation?  I don't think it's isolated. I think this is kind of a new issue. Integrated resource planning addresses there's new issues bubbling to the surface all the time. And the issues change. We just happen to be in a phase of utility regulation, both state and federal, where environmental regulations is really a big deal. And since PSNH happens to own continues to own and operate generating plants that could be impacted by those regulations, then not surprisingly it's going to be an issue in an IRP. It should be an issue. It should be expected to anticipate what's coming down the pipe [sic] and include both the benefits and the costs of those regulations in its
1 2 3 4 5 6 7 8 Q 9 10 11 12 13 14 15 16 A 17 18 19 20	of what we mean by "least cost planning," because they are now including savings from non-electric sources in there. And so we've now changed the standard test that we've been using for the last 20 years. And it's been that long since we've been doing least cost planning.  Is it fair that your concern here isn't so much how PSNH developed the materials and in the course of discovery it's become more refined and clearer but your concern really has more to do with the policy direction of the Commission encouraging or authorizing, at least on a pilot basis, the fuel-neutral programs?  I think that's fair. Obviously, I believe in least cost planning. I wouldn't be working on Integrated Resource Plans if I were not. And I truly think that we should	1 2 3 A. 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	lot of unknowns that it has to contend with an isolated situation?  I don't think it's isolated. I think this is kind of a new issue. Integrated resource planning addresses there's new issues bubbling to the surface all the time. And the issues change. We just happen to be in a phase of utility regulation, both state and federal, where environmental regulations is really a big deal. And since PSNH happens to own continues to own and operate generating plants that could be impacted by those regulations, then not surprisingly it's going to be an issue in an IRP. It should be an issue. It should be expected to anticipate what's coming down the pipe [sic] and include both the benefits and the costs of those regulations in its planning. And at the moment, the I'm not seeing that happening. I think the
1 2 3 4 5 6 7 8 Q 9 10 11 12 13 14 15 16 A 17 18 19 20 21	of what we mean by "least cost planning," because they are now including savings from non-electric sources in there. And so we've now changed the standard test that we've been using for the last 20 years. And it's been that long since we've been doing least cost planning.  Is it fair that your concern here isn't so much how PSNH developed the materials and in the course of discovery it's become more refined and clearer but your concern really has more to do with the policy direction of the Commission encouraging or authorizing, at least on a pilot basis, the fuel-neutral programs?  I think that's fair. Obviously, I believe in least cost planning. I wouldn't be working on Integrated Resource Plans if I were not. And I truly think that we should be focused on the electric customer and reducing rates as much as we can. So I	1 2 3 A. 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	lot of unknowns that it has to contend with an isolated situation?  I don't think it's isolated. I think this is kind of a new issue. Integrated resource planning addresses there's new issues bubbling to the surface all the time. And the issues change. We just happen to be in a phase of utility regulation, both state and federal, where environmental regulations is really a big deal. And since PSNH happens to own continues to own and operate generating plants that could be impacted by those regulations, then not surprisingly it's going to be an issue in an IRP. It should be an issue. It should be expected to anticipate what's coming down the pipe [sic] and include both the benefits and the costs of those regulations in its planning. And at the moment, the I'm not seeing that happening. I think the discussions that we see on environmental
1 2 3 4 5 6 7 8 Q 9 10 11 12 13 14 15 16 A 17 18 19 20 21 22	of what we mean by "least cost planning," because they are now including savings from non-electric sources in there. And so we've now changed the standard test that we've been using for the last 20 years. And it's been that long since we've been doing least cost planning.  Is it fair that your concern here isn't so much how PSNH developed the materials and in the course of discovery it's become more refined and clearer but your concern really has more to do with the policy direction of the Commission encouraging or authorizing, at least on a pilot basis, the fuel-neutral programs?  I think that's fair. Obviously, I believe in least cost planning. I wouldn't be working on Integrated Resource Plans if I were not. And I truly think that we should be focused on the electric customer and reducing rates as much as we can. So I don't think, from a policy standpoint, it's	1 2 3 A. 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	lot of unknowns that it has to contend with an isolated situation?  I don't think it's isolated. I think this is kind of a new issue. Integrated resource planning addresses there's new issues bubbling to the surface all the time. And the issues change. We just happen to be in a phase of utility regulation, both state and federal, where environmental regulations is really a big deal. And since PSNH happens to own continues to own and operate generating plants that could be impacted by those regulations, then not surprisingly it's going to be an issue in an IRP. It should be an issue. It should be expected to anticipate what's coming down the pipe [sic] and include both the benefits and the costs of those regulations in its planning. And at the moment, the I'm not seeing that happening. I think the discussions that we see on environmental regulations are minimal, and certainly no

[WITNESS: McCluskey] Page 93 [WITNESS: McCluskey] Page 95 1 Q. You heard the discussions about a concern that raising questions about the value and profitability of those power plants. ratepayers may be forced to foot the bill for 2 3 studies that turn out not to have been 3 O. So, given that dynamic, my long-term concern necessary because regulations might not have is, if natural gas is the cheapest fuel, 4 4 passed as initially proposed. And I know from ultimately that drives only natural gas plants 5 5 your other comments that you share a real to exist. And that creates some risk also. 6 6 concern about not letting rates rise higher Is it your opinion that, in planning towards 7 7 than they should and always be looking for the the future, there would -- it's supposed to be 8 8 least cost way to deliver service. least cost planning. I understand that. But 9 9 So, do you share the concern that these there's also a risk element if you have all 10 10 your fuel in one basket, so to speak. Do you 11 might be unnecessary costs imposed on 11 ratepayers, to spend more time evaluating 12 follow? 12 potential regulatory changes before they've 13 13 A. Yes. That kind of scenario would impact become final? PSNH. Of course, they don't have 14 14 15 A. No. The Company, if it does spend dollars significant resources to use natural gas, 15 on analyzing the impacts of regulations, and other than Newington. Both use very, very 16 16 it turns out to be a wasted effort, then I little. It turns out that a lot of new 17 17 consider that to be prudent. I think the natural gas facilities were developed and 18 18 19 Company -- we can't have it both ways. We 19 inserted into the regional portfolio, and can't, on the one hand, ask them to then the prices turned around, resulting in 20 20 21 anticipate impacts of these regulations and 21 much higher wholesale power prices than we then turn around and penalize them if the projected. PSNH would incur that additional 22 22 regulations turn out to be different than cost through the purchases it makes from the 23 23 what we initially thought. To me, analyzing market, and those purchases can be 24 24 [WITNESS: McCluskey] Page 94 [WITNESS: McCluskey] Page 96 the regulations and their effects is a significant if existing resources are so 1 1 prudent activity, and any cost associated competitive that they're not being used or 2 2 with that should be recoverable. they've been retired or sold. 3 3 So, PSNH -- or PSNH's customers are not 4 Q. Thank you. 4 **CHAIRMAN IGNATIUS:** Commissioner exposed -- are not -- are exposed -- are 5 5 exposed to that risk just like every other Scott. 6 6 INTERROGATORIES BY CMSR. SCOTT: utility customer in the region. Does that 7 Q. If you're not the right one to answer this, respond to your concerns? 8 that's fine, too. I think so. Would that be -- going with that, 9 9 So, looking forward, I think we've 10 that would be a good reason to project gas 10 prices in the future, or make an attempt? ascertained, if I understood right from some 11 11 of the testimony, that there was no --Certainly more than five years. Just 12 12 A. because we have a five-year plan, that there's not a particular deliberative look 13 13 at projecting natural gas prices, if I should not mean you cut off your analysis at 14 14 15 understood right. The balance, obviously, 15 five years. You should be doing some is that it would appear that, to the extent long-term forecasting, or hiring consultants 16 16 that the existing plants are challenged, to do that for you and look at the risks. 17 17 it's because of the price of natural gas on PSNH really didn't have control of 18 18 19 the market. Is that -this. This is a regional decision. Is the 19 region going to allow this to happen? If it 20 A. The falling price of natural gas is 20 producing wholesale power prices. That's does, then all the region's utilities and 21 21 making it very difficult for PSNH's their customers could be impacted by that 22 22 23 portfolio to be dispatched, or be dispatched 23 risk -the way it used to be dispatched. So that's 24 Q. That's helpful. Thank you. 24

	DE 10-261 PUBLIC SERVICE COMPANY (		Least Cost integrated Resource Flan
[WITN	ESS: McCluskey] Page 97	[WITNES	SS: McCluskey] Page 99
1 A	which is a much bigger issue than what we	1	fuel purchases over the life of the Plan? If
2	address in this proceeding.	2	you don't know how much your plant is going to
3	CHAIRMAN IGNATIUS: Commissioner	3	run, how can you make any judgments in your
4	Harrington had another question.	4	five-year plan as to how much fuel you're
5	INTERROGATORIES BY CMSR. HARRINGTON:	5	going to have to buy?
6 Q	. Just as quick follow-up on that same issue, we	6 A.	Well oh, fuel for your
7	heard earlier from Public Service, as part of	7 Q.	For your plants. If you don't know how much
8	this plan, that they're not projecting future	8	they're going to run, how do you make a
9	gas prices at all, not just out for five	9	decision on the amount of fuel you purchase?
10	years. They're not projecting as part of the	10 A.	Well, you can't make a very accurate one, I
11	Plan from day one.	11	think as one of the witnesses indicated.
12	Would you agree that, in order to make	12	You just buy a lot and put it in storage,
13	a projection of the future capacity factors	13	and you'll have sufficient to cover
14	of the plant i.e., how much these plants	14	whatever, however it runs, which is not a
15	will run during the time frame of the	15	very sophisticated fuel-purchasing strategy
16	Plan that you'd have to make some	16	I would think.
17	assumptions on the price of natural gas?	17 Q.	Would you say that that doesn't go along with
18 A		18	Least Cost Plans?
19	projections itself. Most people purchase	19 A.	Not knowing the costs of purchasing fuel and
20	natural gas price projections. There's lots	20	storing it and comparing it with shorter
21	of consultants, firms out there that are	21	term purchases when taking advantage of the
22	publishing this data for a price. And so	22	change in the markets, I couldn't say one
23	and I'm sure most utilities purchase this	23	way or the other. But that's the kind of
24	kind of information. And PSNH we're not	24	analysis that you would do to determine
[WITN	ESS: McCluskey] Page 98	[WITNES	SS: McCluskey] Page 100
1	suggesting that it should have a team that	1	what's cost-effective.
2	would work on where the market is going.	2 Q.	And given your experience in the utility
3	It's easy to purchase that information. And	3	regulation business, what you've seen here,
4	they should use this as the basis of studies	4	what's in the Plan, would you think that there
5	of how their plants are going to operate.	5	would have to be much more going on that's not
6	Are they going to be cost-effective? And if	6	in the Plan, as far as strategy being
7	not, what do you do with them?	7	performed by Public Service with regards to
8 Q	•	8	things as future gas prices, migration of its
9	fact that in this Plan it doesn't contain	9	customers, the effect on future energy service
10	anything about the future prices of natural	10	rates, capacity factors of its plants, et
1	• •	1	,
11	gas, and it also doesn't it makes an	11	cetera, so they could make a realistic
11 12	gas, and it also doesn't it makes an assumption that the plants are going continue	11 12	
			cetera, so they could make a realistic assessment of where they're financially going to stand over a five-year period?
12	assumption that the plants are going continue to be baseline run meaning, they'll run whenever there's not a maintenance outage.	12	cetera, so they could make a realistic assessment of where they're financially going to stand over a five-year period?  Absolutely. I believe what's in the Plan
12 13	assumption that the plants are going continue to be baseline run meaning, they'll run whenever there's not a maintenance outage.  So, my question would be, then, how can	12 13	cetera, so they could make a realistic assessment of where they're financially going to stand over a five-year period?
12 13 14	assumption that the plants are going continue to be baseline run meaning, they'll run whenever there's not a maintenance outage.  So, my question would be, then, how can you make an assumption on the capacity	12 13 14 A.	cetera, so they could make a realistic assessment of where they're financially going to stand over a five-year period?  Absolutely. I believe what's in the Plan does not reflect the actual planning for the Company.
12 13 14 15	assumption that the plants are going continue to be baseline run meaning, they'll run whenever there's not a maintenance outage.  So, my question would be, then, how can you make an assumption on the capacity factors without in the Plan, without	12 13 14 A. 15	cetera, so they could make a realistic assessment of where they're financially going to stand over a five-year period?  Absolutely. I believe what's in the Plan does not reflect the actual planning for the Company.  CMSR. HARRINGTON: Thank you.
12 13 14 15 16	assumption that the plants are going continue to be baseline run meaning, they'll run whenever there's not a maintenance outage.  So, my question would be, then, how can you make an assumption on the capacity factors without in the Plan, without having in the Plan an assumption on natural	12 13 14 A. 15 16	cetera, so they could make a realistic assessment of where they're financially going to stand over a five-year period?  Absolutely. I believe what's in the Plan does not reflect the actual planning for the Company.  CMSR. HARRINGTON: Thank you.  That's all I have.
12 13 14 15 16 17 18	assumption that the plants are going continue to be baseline run meaning, they'll run whenever there's not a maintenance outage.  So, my question would be, then, how can you make an assumption on the capacity factors without in the Plan, without having in the Plan an assumption on natural gas prices?	12 13 14 A. 15 16 17 18	cetera, so they could make a realistic assessment of where they're financially going to stand over a five-year period?  Absolutely. I believe what's in the Plan does not reflect the actual planning for the Company.  CMSR. HARRINGTON: Thank you.  That's all I have.  CHAIRMAN IGNATIUS: Mr. Speidel,
12 13 14 15 16 17 18 19 20 A	assumption that the plants are going continue to be baseline run meaning, they'll run whenever there's not a maintenance outage.  So, my question would be, then, how can you make an assumption on the capacity factors without in the Plan, without having in the Plan an assumption on natural gas prices?  Well, I'm just saying if you don't do the	12 13 14 A. 15 16 17 18 19	cetera, so they could make a realistic assessment of where they're financially going to stand over a five-year period?  Absolutely. I believe what's in the Plan does not reflect the actual planning for the Company.  CMSR. HARRINGTON: Thank you.  That's all I have.  CHAIRMAN IGNATIUS: Mr. Speidel, opportunity for redirect. And before you do,
12 13 14 15 16 17 18 19 20 A	assumption that the plants are going continue to be baseline run meaning, they'll run whenever there's not a maintenance outage.  So, my question would be, then, how can you make an assumption on the capacity factors without in the Plan, without having in the Plan an assumption on natural gas prices?  Well, I'm just saying if you don't do the analysis, you can't make any reasonable	12 13 14 A. 15 16 17 18 19 20 21	cetera, so they could make a realistic assessment of where they're financially going to stand over a five-year period? Absolutely. I believe what's in the Plan does not reflect the actual planning for the Company.  CMSR. HARRINGTON: Thank you. That's all I have.  CHAIRMAN IGNATIUS: Mr. Speidel, opportunity for redirect. And before you do, I want to ask you a question. We have also
12 13 14 15 16 17 18 19 20 A 21 22	assumption that the plants are going continue to be baseline run meaning, they'll run whenever there's not a maintenance outage.  So, my question would be, then, how can you make an assumption on the capacity factors without in the Plan, without having in the Plan an assumption on natural gas prices?  Well, I'm just saying if you don't do the analysis, you can't make any reasonable assumption of how they're going to operate.	12 13 14 A. 15 16 17 18 19 20 21 22	cetera, so they could make a realistic assessment of where they're financially going to stand over a five-year period? Absolutely. I believe what's in the Plan does not reflect the actual planning for the Company.  CMSR. HARRINGTON: Thank you. That's all I have.  CHAIRMAN IGNATIUS: Mr. Speidel, opportunity for redirect. And before you do, I want to ask you a question. We have also confidential versions certainly of the
12 13 14 15 16 17 18 19 20 A 21 22 23 Q	assumption that the plants are going continue to be baseline run meaning, they'll run whenever there's not a maintenance outage.  So, my question would be, then, how can you make an assumption on the capacity factors without in the Plan, without having in the Plan an assumption on natural gas prices?  Well, I'm just saying if you don't do the analysis, you can't make any reasonable assumption of how they're going to operate.  And if you don't have a reasonable assumption	12 13 14 A. 15 16 17 18 19 20 21 22 23	cetera, so they could make a realistic assessment of where they're financially going to stand over a five-year period? Absolutely. I believe what's in the Plan does not reflect the actual planning for the Company.  CMSR. HARRINGTON: Thank you. That's all I have.  CHAIRMAN IGNATIUS: Mr. Speidel, opportunity for redirect. And before you do, I want to ask you a question. We have also confidential versions certainly of the September 8th testimony. Are you marking that
12 13 14 15 16 17 18 19 20 A 21 22	assumption that the plants are going continue to be baseline run meaning, they'll run whenever there's not a maintenance outage.  So, my question would be, then, how can you make an assumption on the capacity factors without in the Plan, without having in the Plan an assumption on natural gas prices?  Well, I'm just saying if you don't do the analysis, you can't make any reasonable assumption of how they're going to operate.	12 13 14 A. 15 16 17 18 19 20 21 22	cetera, so they could make a realistic assessment of where they're financially going to stand over a five-year period?  Absolutely. I believe what's in the Plan does not reflect the actual planning for the Company.  CMSR. HARRINGTON: Thank you.  That's all I have.  CHAIRMAN IGNATIUS: Mr. Speidel, opportunity for redirect. And before you do, I want to ask you a question. We have also confidential versions certainly of the

	DAY 2 - AFTERNOON SES DE 10-261 PUBLIC SERVICE COMPANY	SSION OF N.H	ONLY - April 5, 2012 I. Least Cost Integrated Resource Plan
[WITN	ESS: McCluskey] Page 101		Page 103
1	MR. SPEIDEL: As a matter of	1	everyone's attention. It's been two long and
2	fact, I am not, Commissioner, for the reason	2	complicated days. So we will see you on the
3	that it would be a little bit clunky to have	3	8th.
4	that distributed in the context of Mr.	4	CHAIRMAN IGNATIUS: Oh, I'm
5	McCluskey's general, non-Continuing Unit	5	sorry. Mr. Eaton, you have something?
6	Operations Study testimony. Not only that,	6	MR. EATON: Yeah.
7	but it's a little bit ambiguous as to whether	7	CHAIRMAN IGNATIUS: I'm sorry.
8	the material that's discussed in the	8	We stopped, and we need to give people a
9	confidential segment is still confidential.	9	chance to respond to a few things.
10	I'm keeping it away from public inspection	10	MR. EATON: Madam Chairman, you
11	from an abundance of caution at this point,	11	mentioned at the close of the proceeding, if
12	but little bits and pieces of the information	12	anyone that we could make a request to put
13	have been disclosed by the Company in	13	on our panel again to rebut some of the
14	subsequent discovery. But out of courtesy to	14	measures that were spoken about this morning.
15	the Company, I've decided not to enter that	15	And I would like to put on our panel for the
16	into evidence at the present time.	16	sole purpose of responding to the testimony
17	CHAIRMAN IGNATIUS: All right.	17	this morning that the testimony of Mr. Smagula
18	We can take that up when the second issue is	18	and Ms. Tillotson is inconsistent, that one
19	addressed?	19	witness is saying one thing and one witness is
20	MR. SPEIDEL: Yes. Perhaps at	20	saying the other and that they're inconsistent
21	the tail end of Staff's presentation of the	21	and can't be reconciled.
22	case I'd like to maybe have that confidential	22	PSNH, under Rule PUC 203.25,
23	testimony marked separately and assign it a	23	has the burden of proof in this proceeding.
24	number at that time.	24	And under 203.26, in hearings on petitions
[WITN]	ESS: McCluskey] Page 102		Page 104
1	CHAIRMAN IGNATIUS: All right.	1	"The petitioner shall have the opportunity
2	That's fine. So do you have any redirect?	2	to open and close any part of the
3	MR. SPEIDEL: As a matter of	3	presentation." So I would request that we
4	fact, I do not.	4	be able, either today or beginning on May
5	CHAIRMAN IGNATIUS: All right.	5	8th, to put them back on and to address that
6	Then I think, Mr. McCluskey, you are excused.	6	one issue of whether their testimony is
7	Thank you.	7	inconsistent.
8	Let's go off the record for a	8	CHAIRMAN IGNATIUS: Well, Mr.
9	moment.	9	Eaton, their testimony is what it was. And
10	(Discussion off the record)	10	that was one witness's interpretation of their
11	CHAIRMAN IGNATIUS: We've been	11	testimony. And you'll have an opportunity in
12	looking at the scheduling opportunities to	12	closing to argue how you evaluate their
13	finish the case. I need to make absolutely	13	testimony. I don't understand why there's
14	certain with the Commission calendar, but it	14	need for further evidence.
15	appears that May 8th and 9th are available to	15	MR. EATON: Would be to respond
16	continue. And if there's any conflict with	16	to what was brought up for the first time
17	that, we'll obviously let you know. We'll	17	today, why they're to explain that their
18	send a letter confirming the next date and	18	testimonies are consistent and do and are
19	time, but ask you to hold the 8th and 9th, and	19	appropriate.
20	possibly the 11th. Just hold those for now	20	CHAIRMAN IGNATIUS: I don't
21	until you hear from us. And beginning at 9:00	21	understand why that's evidence. Their

would be appropriate. So, until May 8th,

it, we will stand adjourned. I appreciate

assuming that that works, and we will confirm

22

23

24

evidence is what they testified to, and your argument is how it should be evaluated by the

Commission. So I don't see the need for

22

23

24

Page 105 further evidence on their views. You may 1 disagree with the witness's interpretation of 2 3 their testimony, and that's fair. And you can argue that. But to have them come back and 4 explain some more of what their positions 5 were, we could do that all day with everybody. 6 I'm not seeing it. 7 8 I guess, why don't we -- we'll take it under advisement. We'll discuss it. 9 But I'm afraid that opens the door to a lot 10 11 of people wanting to restate their positions and explain again why what they said made a 12 lot of sense. So we'll take it under 13 advisement and report back at the start of 14 15 the next proceeding. Thank you. (WHEREUPON, DAY 2 AFTERNOON SESSION 16 was adjourned at 4:05 p.m.) 17 18 19 20 21 22 23 24 Page 106 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 these proceedings taken at the 8 place and on the date hereinbefore set 9 forth, to the best of my skill and ability 10 under the conditions present at the time. 11 I further certify that I am neither 12 attorney or counsel for, nor related to or 13 employed by any of the parties to the 14 action; and further, that I am not a relative or employee of any attorney or 16 counsel employed in this case, nor am I 17 financially interested in this action. 18 19 Susan J. Robidas, LCR/RPR 20 Licensed Shorthand Court Reporter Registered Professional Reporter 21 N.H. LCR No. 44 (RSA 310-A:173) 22 23 24

	56:5;86:3,4	12:6;20:15	8 (4)	addition (4)
<b>\$</b>	19 (1)	30-year (1)	25:4,23;48:6;54:20	34:21;35:14;39:7;
Ψ	50:14	43:16	8th (7)	48:23
<b>\$18</b> (1)	1990 (2)	31 (1)	53:23;100:23;102:15,	additional (7)
61:19	8:5,8	56:5	19,22;103:3;104:5	19:8;25:4,23;43:3;
\$18,001,673 (1)	1st (1)	35 (3)		62:1;84:5;95:22
86:4	6:16	15:8;72:20;73:1	9	additions (2)
\$6 (1)		36 (1)		50:2,8
61:18	2	72:20	9:00 (1)	address (7)
01.10		369-B3 (1)	102:21	5:8;44:19;55:3,8,13;
[	2 (11)	11:19	9th (2)	97:2;104:5
L	20:4;36:4;53:1,6,13;	369-B3-a (1)	102:15,19	addressed (4)
[sic] (4)	54:13,21,22;83:8;84:15;	11:19	,	14:3;41:6;71:5;101:19
25:8;31:10;49:18;	105:16	37 (1)	$\mathbf{A}$	addresses (2)
92:17	20 (2)	58:8		85:4;92:5
92.17	50:14;90:5	374:30 (1)	able (8)	addressing (1)
0	2006 (2)	12:4	16:12,15;32:14;38:20;	58:24
	12:6;43:21	378 (1)	57:6;68:2;86:22;104:4	adequacy (1)
0.2 (1)	2007 (2)	7:15	above (1)	10:20
0.2 (1)	73:3,9	378:38 (2)	59:3	adequate (7)
36:8	2009 (2)	7:24;67:5	above-market (1)	30:10;67:17;70:17,18,
1	39:5;43:23	378:39 (1)	37:18	22;71:1,7
1	2010 (9)	67:5	absolutely (4)	adjourned (2)
4 (42)	8:21;20:15;34:17;	378:40 (1)	34:13;36:6;100:14;	102:24;105:17
1 (13)	39:5;40:4,17;43:23;	66:24	102:13	adjustments (1)
24:14;32:2;46:21;	72:1;84:3	378:41 (1)	abundance (1)	25:7
47:21;52:18;53:6,13;	2011 (5)	67:9	101:11	administrative (1)
54:20,22;55:6,8;56:2;	18:12;47:22;54:20,21;	38 (2)	accepting (1)	54:13
72:24	57:10	56:12,19	75:15	advantage (3)
10 (5)	2015 (3)	30.12,19	accessed (1)	40:11;42:7;99:21
25:4,23;36:4;37:24;	72:1;84:3,16	4	83:1	advice (1)
48:6		4		49:3
10-257 (1)	<b>2018 (1)</b> 78:21	4 (3)	accommodate (1) 6:24	advisement (2)
18:12		` '		105:9,14
10-261 (1)	203.25 (1)	15:13;16:6;21:3	accord (1)	Advocate (5)
47:19	103:22	4:05 (1)	14:19	
11 (2)	203.26 (1)	105:17	accordance (2)	18:14;28:7,15;34:10;
56:12,21	103:24	40 (2)	67:4;85:13	50:13 Advocate's (1)
11,500 (1)	23rd (4)	39:18;40:1	account (2)	
69:6	6:3,11,14;18:12	40-percent (1)	5:18;35:1	32:14
11th (1)	25 (2)	36:7	accurate (2)	affecting (1)
102:20	34:1,1	420,000 (1)	44:3;99:10	85:2
12 (3)	250-percent (1)	69:3	achieve (2)	afraid (1)
33:3;36:5;54:21	84:24	48 (1)	25:9;57:1	105:10
1-28 (1)	25th (1)	18:12	achieved (2)	afternoon (4)
47:19	47:22	49 (2)	77:2;83:20	7:5;65:24;66:1;105:16
12th (2)	27 (4)	18:13;20:7	achieves (1)	again (10)
5:14;6:3	78:16,17,19,24		76:18	20:20;26:4;35:16;
13 (1)	27th (1)	5	achieving (1)	38:1;40:18;53:3;58:21
42:17	53:20	- (4)	85:9	64:8;103:13;105:12
137 (5)	28 (2)	5 (2)	Act (8)	against (2)
24:19;32:3;46:21;	8:21;47:21	21:6;56:21	7:17,18;8:5,7;73:3,9,	28:20;89:1
48:2,6	2	50 (1)	11,19	ago (2)
14 (3)	3	65:1	activities (2)	70:14;84:9
37:2;38:14;43:12	2 (40)	55 (3)	51:20;52:2	agree (15)
145 (1)	3 (10)	58:10,22;60:24	activity (3)	14:10;17:13,15;21:22
38:24	20:6;57:24;58:3;	_	47:5,6;94:2	22:3;23:5;31:8;43:17;
15 (4)	60:17,21;71:10,19;72:5;	7	actual (2)	46:4;47:23;48:4;69:4;
33:17;36:5;54:9;70:14	83:8;84:15		60:8;100:15	74:2;78:13;97:12
16 (3)	30 (2)	<b>78,000</b> (1)	actually (7)	agreed (1)
21:24;22:2;37:12	41:16;51:18	34:2	6:19;37:7;57:9;58:7;	41:6
17 (1)	<b>30-degree</b> (1)		60:11,15;61:12	ahead (3)
	10.10	8	added (1)	34:17,19;39:21
22:2	43:19 <b>30th (2)</b>	o	added (1) 31:23	Air (4)

	ZOTT CEETC SERVICE C	JOINT HILL OF THE ECUS	Tool integrated Hestalia	
7:17,18;8:4,7	40:19;69:16;94:16	94:11	75:21;87:21	best (6)
allow (2)	appeared (1)	aside (1)	aware (4)	13:4;14:22;17:13;
87:12;96:20	40:21	55:4	33:15;40:6;41:2;81:21	31:13;37:8;40:18
allowed (1)	appears (6)	aspects (3)	away (2)	better (1)
14:7	8:9;23:6;46:24;85:24;	51:21;55:13;71:5	6:12;101:10	46:14
almost (1)	92:24;102:15	assess (1)	awfully (1)	Beyond (1)
84:4	applaud (1)	8:6	6:17	32:22
alone (1)	42:15	assessment (4)	<b>.</b>	bid (5)
86:8	apples-to-oranges (1)	8:3;55:13,14;100:12	В	18:2,2;33:9,11;46:13
along (3)	60:1	assessments (2)	h l- (12)	bidding (2)
35:19;83:24;99:17 alternative (3)	<b>appliance (5)</b> 82:2,4,5,11,21	23:14;43:8 assets (1)	back (13)	46:7,16 <b>bids</b> (1)
13:3,3;42:14	appliances (3)	12:7	5:3;32:2;38:8,10,20; 58:7;61:4;79:11,12;	33:13
alternatives (1)	82:12,17,17	assign (1)	89:23;104:5;105:4,14	big (2)
13:1	applicable (3)	101:23	bad (1)	90:24;92:10
although (1)	14:5;27:14;29:8	assigned (1)	85:16	bigger (1)
47:4	application (1)	51:14	balance (1)	97:1
always (2)	27:16	associated (3)	94:15	bill (1)
42:13;93:8	applied (1)	59:6;87:21;94:2	ballpark (1)	93:2
ambiguous (1)	78:5	assume (7)	23:9	bit (3)
101:7	applies (2)	16:24;19:23;26:21;	base (8)	61:5;101:3,7
amendments (1)	11:12;20:23	32:24;62:12;76:2;86:10	22:15;37:4,6;38:12,	bits (1)
8:5	apply (2)	Assuming (3)	15;39:1;42:8;77:23	101:12
among (1)	7:13;20:24	29:6;86:5;102:23	Based (8)	boost (1)
40:5	appreciate (2)	assumption (6)	9:15;23:24;24:7;	88:23
amount (2)	12:2;102:24	76:6;98:12,16,18,22,	27:24;28:12;29:12;	Boston (1)
73:21;99:9	approach (3)	23	37:10;75:2	17:19
analyses (1) 25:8	47:12;77:11;79:5 approaches (2)	assumptions (2) 39:3;97:17	<b>baseline (1)</b> 98:13	<b>both (6)</b> 17:8;53:5;92:8,17;
analysis (26)	45:7;80:3	attachment (8)	basically (4)	93:19;95:16
13:10;26:14;29:7;	appropriate (10)	15:7,18,23;16:4,6,19;	47:3;50:9;67:11;85:18	<b>bottom</b> (1)
36:1,11,17;39:8;45:10;	26:21;75:5;76:8;	20:4;38:23	basis (8)	21:2
48:13;50:7;52:1,1;	78:12;80:6;90:23;91:5,	attachments (2)	10:19;18:20;44:14,16;	break (3)
55:23;77:24;78:3,7;	7;102:22;104:19	15:9;20:7	68:2;78:6;90:14;98:4	6:21;7:6;59:16
85:20;86:6,11,15,17,19;	appropriately (1)	attempt (2)	basket (1)	breaks (1)
92:23;96:14;98:21;	74:15	39:9;96:11	95:11	59:1
99:24	approval (3)	attention (5)	Bates (1)	bring (4)
analyst (1)	42:6;79:24;84:12	21:8;52:15;56:21;	15:8	34:4;52:14;65:6;88:8
51:15	approved (3)	71:9;103:1	Baumann's (1)	broke (1)
analyze (5) 10:22;24:24;32:8;	67:1;80:19;91:11	attorney (6) 7:21;18:15;23:20;	41:4	86:8 <b>broken (1)</b>
77:23;87:6	approximately (2) 65:1;69:6	29:16;46:22;49:1	bearing (1) 28:13	71:20
analyzing (2)	April (5)	attributed (2)	became (1)	brought (6)
93:16,24	5:14;6:3,3,11;12:6	75:18;80:20	27:18	12:13;21:7;32:3;
and/or (1)	area (5)	attributes (1)	become (8)	33:21;49:15;104:16
49:21	17:19;20:1;21:10;	17:9	10:14;29:11;30:23,23;	bubbling (1)
Annualized (1)	51:16;55:17	authored (1)	32:20;85:22;90:10;	92:6
61:2	argue (2)	53:3	93:14	bulbs (4)
annually (2)	104:12;105:4	authority (5)	begin (1)	73:12,13,17;74:5
24:23;32:8	argued (1)	13:8,11,21;14:13;42:2	5:7	burden (1)
answered (1)	81:10	authorizing (1)	beginning (2)	103:23
81:15	arguing (1)	90:13	102:21;104:4	business (3)
anticipate (2)	40:7	automatically (1)	behalf (2)	48:21,22;100:3
92:16;93:21 anticipated (1)	argument (2) 23:24;104:23	45:5 available (3)	19:19;46:15 <b>behind (1)</b>	<b>buy (2)</b> 99:5,12
22:8	arguments (2)	23:14;44:4;102:15	86:17	buyer (2)
anticipation (1)	24:1;75:13	availed (1)	Bench (1)	19:17,21
49:3	Arnold (3)	77:5	45:16	17.11,41
anymore (1)	6:19;52:22;53:4	average (2)	benefit (7)	C
41:24	around (6)	43:17,19	12:21;22:17;63:24;	_
apparently (2)	42:4;69:3;70:12;86:3;	avoid (1)	64:13;87:19,23;91:2	calculate (1)
32:18;42:12	93:22;95:20	34:12	benefits (4)	76:4
appear (3)	ascertained (1)	avoided (2)	64:17;87:7;89:6;92:17	calculated (3)

	2011 CBEIC BERVICE	SOM MINT OF THE ECUS	t cost integrated Resour	ee T iun
64:9;65:1;80:20	73:18,22;74:4,19;	cite (3)	51:12,13,22;62:5;67:3,	41:24;42:1,6;43:14;
calculation (1)	75:14;76:9;79:17;80:8;	12:14;21:21;67:22	12,17;70:10,13;78:4;	62:18;63:2,20;64:22;
75:19	81:2	cited (1)	79:23;89:12,18;90:13;	90:8,11;93:1,7,10;95:3
calculations (1)	Chair (2)	38:16	91:4,12;102:14;104:24	concerned (2)
57:3	6:1;69:23	clarification (1)	Commissioner (12)	20:22;36:6
calendar (1)	CHAIRMAN (50)	13:16	9:20;31:21;36:20;	concerning (2)
102:14	5:2,23;6:4,10,15,20;	clarifies (1)	46:23;47:3;54:5;63:5;	8:11;23:1
call (1)	14:9;15:11,15;24:2;	60:14	83:6,13;94:5;97:3;101:2	concerns (4)
66:7	28:10;29:1;30:17;31:20;	clarify (1)	Commissioners (3)	41:19;42:16,18;96:8
<b>called (4)</b> 16:18;64:10;77:18;	36:19;38:7;45:15;47:13; 50:22;51:3;52:6;53:14;	28:17 class (4)	53:11;55:1;58:18 Commission's (6)	<b>conclude (1)</b> 39:10
85:6	54:18;57:19;58:1;63:6,	39:3;61:18;74:17;	8:10;13:11,21;14:12;	conditions (1)
came (1)	14;65:19;68:9,12,16;	80:10	21:7;78:2	91:20
63:10	69:21,24;70:4;72:21;	classes (3)	compact (1)	conduct (4)
can (33)	83:5;88:3,5;94:5;97:3;	39:5;40:5;59:2	74:23	26:14;27:13;30:13;
5:21;6:6,23;11:5;	100:19;101:17;102:1,5,	Clean (4)	companies (1)	31:2
14:19;18:3;21:23;24:1,	11;103:4,7,10;104:8,20	7:17,18;8:4,7	66:20	conducted (1)
7;26:1;37:4;38:12;	challenged (1)	clear (3)	companies' (1)	29:6
40:11;46:13;50:10;	94:17	60:21;62:3;84:14	70:21	conducting (1)
56:20;71:9;72:13;76:2,	challenges (1)	clearer (1)	Company (40)	22:24
4,11;77:1,4,7;86:12;	48:24	90:11	8:6;24:11;26:22;27:1;	conducts (2)
87:7,19;90:21;95:24;	chance (1) 103:9	CLF (2)	41:14,22;45:23;49:18; 57:7,13;61:15;62:13;	48:24;71:1 <b>confidential (5)</b>
98:15;99:3;101:18; 105:3	change (18)	47:18,21 climate (1)	64:9;71:15;73:17;74:14,	48:22;100:22;101:9,9,
capacity (4)	22:8;44:1;67:1;74:15;	49:4	18;75:3;76:15,19;77:7,	22
97:13;98:16,24;	76:10,20;77:13;78:8,11;	close (5)	22;78:11;80:1,9,24;	confidentiality (2)
100:10	82:2,7,8,14,15,22;89:24;	56:12,15;75:6;103:11;	81:3;84:11,12,16;85:13;	49:14,15
capital (7)	92:7;99:22	104:2	86:19;88:7,22;92:23;	confirm (3)
12:24;22:9;30:3;42:4;	changed (5)	closer (1)	93:15,19;100:16;101:13,	48:1;57:6;102:23
50:2,7;91:19	10:15;27:18;30:21;	75:1	15	confirmed (1)
captive (1)	74:6;90:4	closing (2)	Company's (11)	60:16
40:12 <b>case (19)</b>	changes (12)	24:1;104:12	23:20;46:21;57:3;	confirming (1) 102:18
22:15,16;33:20;34:5;	9:9,14;22:21;23:2; 24:12;50:3;56:16;71:7;	clunky (1) 101:3	58:9;61:11;75:12;79:14, 19,21;83:1;85:18	conflict (1)
37:4,6;38:12,16;39:1;	72:13;73:19;74:12;	CMSR (15)	compared (3)	102:16
41:5;44:18;53:3;75:4;	93:13	6:6;16:3,10;31:22;	74:4;76:17;77:14	Conformity (2)
79:2;85:23;87:14;88:24;	changing (2)	32:1;36:21,24;53:18;	comparing (1)	67:10,14
101:22;102:13	91:20,21	58:20;60:20;83:7;88:1;	99:20	confusion (1)
cases (2)	Chapter (1)	94:7;97:5;100:17	comparison (2)	53:16
9:17;41:5	7:15	collect (1)	60:2;72:12	connected (1)
caught (1)	characterization (1)	27:1	competing (1)	29:10
89:17	21:22	collectively (1)	33:13 <b>competitive (6)</b>	Connecticut (1)
cause (1) 59:12	charge (2) 26:19;27:2	57:24 <b>column (7)</b>	35:11;40:9;41:10;	41:15 conservation (1)
causes (4)	charges (1)	59:5,8,23;60:17,21;	46:6,16;96:2	80:5
34:16;35:20,21,22	22:17	61:1;72:2	complete (1)	consider (7)
caution (1)	charging (1)	combination (1)	70:18	9:8;34:18;51:16;
101:11	14:24	88:19	compliance (8)	55:15;62:15;71:6;93:18
cautioned (1)	chart (1)	combined (1)	7:16;8:4,7,13,24;9:2;	considered (1)
51:5	60:22	18:23	10:7;26:15	48:13
certain (6)	cheapest (1)	coming (3)	complicated (1)	considers (1)
20:11;41:20;44:11;	95:4	5:3;84:6;92:16	103:2	37:12
55:13;81:22;102:14	check (7) 41:15;69:3,4,8,9;	comment (1) 78:9	comply (1) 26:1	consistent (3)
Certainly (13) 7:14;10:23;27:6;33:2,	78:13,22	commentary (1)	complying (4)	64:15;65:10;104:18 <b>constantly (1)</b>
10;34:24;41:12;45:2;	1	45:23	9:11,13;25:10;48:9	40:7
	checked (1)		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	checked (1) 5:13		component (3)	constitutes (1)
71:3;91:10;92:22;96:12; 100:22	checked (1) 5:13 choice (4)	comments (2) 46:10;93:6	component (3) 64:20,23;87:17	constitutes (1) 48:22
71:3;91:10;92:22;96:12; 100:22 cetera (4)	5:13	comments (2)		
71:3;91:10;92:22;96:12; 100:22 cetera (4) 9:9;35:23,23;100:11	5:13 choice (4) 40:11;41:18;79:6;80:3 circumstances (1)	comments (2) 46:10;93:6 Commission (37) 8:20;9:6,16;10:24;	64:20,23;87:17 <b>comprehensively (2)</b> 24:24;32:8	48:22 <b>construction (1)</b> 85:5
71:3;91:10;92:22;96:12; 100:22 cetera (4) 9:9;35:23,23;100:11 CFL (1)	5:13 <b>choice (4)</b> 40:11;41:18;79:6;80:3 <b>circumstances (1)</b> 14:5	comments (2) 46:10;93:6 Commission (37) 8:20;9:6,16;10:24; 11:3;12:7,12,13,18;13:8,	64:20,23;87:17 comprehensively (2) 24:24;32:8 compute (1)	48:22 construction (1) 85:5 consultant (2)
71:3;91:10;92:22;96:12; 100:22 cetera (4) 9:9;35:23,23;100:11	5:13 choice (4) 40:11;41:18;79:6;80:3 circumstances (1)	comments (2) 46:10;93:6 Commission (37) 8:20;9:6,16;10:24;	64:20,23;87:17 <b>comprehensively (2)</b> 24:24;32:8	48:22 <b>construction (1)</b> 85:5

-				
26:14;52:22;96:16;	correctly (7)	22;68:19;70:6	decided (1)	12:22;31:13;32:15;
97:21	17:23;25:2,12;47:20;	crucial (1)	101:15	64:6,12;77:4,15;85:20;
consume (1)	48:1,15:49:6	37:13	decides (2)	99:24
60:12	cost (67)	cumulative (1)	80:2;91:4	determined (4)
Consumer (6)	7:11,15;9:4;10:3,7,12,	42:24	decision (9)	14:21;26:20;32:20;
18:14;28:7,14;32:13;	18;12:10,16,19,20;13:6;	Cunningham (2)	67:14,15;79:15,19;	86:7
34:9;50:13	15:1;24:10,14;26:8,9,12,	68:13,14	80:13;89:19,22;96:19;	determines (1)
consumers (4)	16,23;27:4;29:14,22;	CUO (1)	99:9	76:15
60:10;62:23;63:24;	30:15,21;31:11,12;	22:19	decision-making (1)	develop (3)
64:7			48:8	
	32:21;34:21;35:1;36:12;	current (3)		23:8;83:20;89:20
consumption (1)	41:3,7;44:2;45:3,6,9;	28:14;74:5;76:3	decisions (2)	developed (3)
69:16	46:17;49:20,23;50:1,6;	currently (1)	25:9;79:22	82:6;90:9;95:18
contain (1)	59:10;61:14;62:22;	76:2	decision's (1)	developing (4)
98:9	63:21,22;64:10;65:11;	customer (8)	91:9	43:15;82:24;86:1,6
contained (1)	66:17;67:15;70:9;71:1;	35:10;39:3;40:5;	declining (3)	DG (3)
43:9	85:20;88:20;89:2,3,23;	41:17;61:6;87:22;90:20;	57:1;59:11;61:24	42:24;43:3;44:13
contend (1)	90:1,7,17;91:15;93:9;	96:7	dedicated (1)	difference (2)
92:1	94:2;95:9,23;99:18	customers (35)	17:18	59:13,22
Content (2)	cost-effective (13)	9:22;12:9,21;17:18;	defect (1)	different (11)
48:17,21	25:11;30:2;48:10;	27:9,10,11;29:15;31:14;	36:12	11:2;22:22;23:9;
context (5)	62:19,20;64:7,13;65:7;	34:1;35:13;36:15;37:20;	defer (1)	26:24;30:4;33:20;53:16;
28:11;45:8;47:7;	87:9,9;89:1;98:6;100:1	38:2;40:10,13;50:17;	23:19	72:8;83:9;85:15;93:23
67:13;101:4	cost-effectiveness (2)	64:2,3,18;68:21;69:3,6,	definitely (1)	difficult (2)
continue (3)	88:16;89:9	11;72:15;77:4;87:20;	80:20	86:24;94:22
14:24;98:12;102:16	costs (26)	88:21;89:6,21;91:3,4;	definition (1)	direct (5)
Continued (7)	12:24;15:2;22:9,9,13;	96:4,22;100:9	89:24	21:21;51:8;52:21;
30:5,11,13;31:3,6;	26:13,15,20;27:2;29:7;	cut (1)	definitive (1)	71:9;82:13
55:5,11	30:3;35:14;37:16,18;	96:14	28:19	direction (5)
continues (1)	38:4;50:16;56:24;59:23;	cycle (1)	degree (3)	25:1;32:9,15,20;90:12
92:11	63:23;71:13;75:13,21;	18:23	43:13,13,17	directly (1)
Continuing (2)	87:21;92:18;93:11;		degree-day (1)	27:4
29:23;31:9	99:19	D	22:15	disagree (1)
contract (2)	counsel (2)		deliberative (1)	105:2
45:24;46:5	11:8;12:1	data (9)	94:13	disallow (1)
contractors (1)	couple (4)	22:15;38:16;42:8;	deliver (2)	15:2
25:16	31:23,23;68:18;85:11	43:23;44:3;47:18,21;	86:23;93:9	disclosed (1)
contracts (1)	course (4)	57:21;97:22	delivered (1)	101:13
52:1	47:13;50:18;90:10;	date (9)	19:6	discovery (10)
contradiction (1)	95:14	6:11,17;9:3;20:19;	demand (1)	25:20;49:10,12;57:8;
18:9	Court (1)	74:2;80:18;81:15,16;	36:16	58:15;75:2;81:3;84:8;
contrary (1)	51:5	102:18	demand-side (1)	90:10;101:14
81:12	courtesy (1)	dated (4)	88:19	discuss (4)
control (2)	101:14	47:22;53:19,22;57:10	de-modified (1)	58:5;76:21;89:16;
53:7;96:18	cover (2)	dates (6)	61:11	105:9
conversation (1)	57:20;99:13	5:12,13;6:23;20:11,	dependable (1)	discussed (3)
44:5			17:8	
conversations (1)	covered (2) 7:1;51:21	12,14 day (5)	depended (1)	28:22;55:16;101:8 <b>discusses (1)</b>
	*			
44:10	created (1)	19:1,1;97:11;105:6,16	74:9	25:6
cooling (1)	77:1	days (5)	depending (1)	discussing (4)
43:13	creates (1)	43:13,13,17;85:11;	74:12	12:15;58:8;80:14,24
copies (1)	95:6	103:2	depiction (1)	discussion (5)
52:7		DT (A)		
copy (4)	credit (1)	DE (2)	72:4	25:20;66:12;68:5;
	credit (1) 76:12	18:11;47:19	describe (1)	85:10;102:10
15:4;32:24;53:19;	credit (1) 76:12 critical (2)	18:11;47:19 <b>deal (1)</b>	<b>describe</b> (1) 77:18	85:10;102:10 discussions (5)
58:13	credit (1) 76:12 critical (2) 30:23,24	18:11;47:19 deal (1) 92:10	describe (1) 77:18 described (2)	85:10;102:10 discussions (5) 48:22;49:8,9;92:21;
58:13 CORE (11)	credit (1) 76:12 critical (2) 30:23,24 criticism (1)	18:11;47:19 deal (1) 92:10 Dealing (4)	describe (1) 77:18 described (2) 48:6;76:23	85:10;102:10 <b>discussions (5)</b> 48:22;49:8,9;92:21; 93:1
58:13 <b>CORE (11)</b> 75:7;76:21;79:8,21;	credit (1) 76:12 critical (2) 30:23,24 criticism (1) 89:15	18:11;47:19 deal (1) 92:10	describe (1) 77:18 described (2) 48:6;76:23 describes (1)	85:10;102:10 <b>discussions (5)</b> 48:22;49:8,9;92:21; 93:1 <b>dispatch (1)</b>
58:13 <b>CORE</b> (11) 75:7;76:21;79:8,21; 80:13,19;81:22,24;88:6,	credit (1) 76:12 critical (2) 30:23,24 criticism (1)	18:11;47:19 deal (1) 92:10 Dealing (4)	describe (1) 77:18 described (2) 48:6;76:23	85:10;102:10 <b>discussions (5)</b> 48:22;49:8,9;92:21; 93:1
58:13 <b>CORE (11)</b> 75:7;76:21;79:8,21;	credit (1) 76:12 critical (2) 30:23,24 criticism (1) 89:15	18:11;47:19 deal (1) 92:10 Dealing (4) 32:23;38:21;72:9,10	describe (1) 77:18 described (2) 48:6;76:23 describes (1)	85:10;102:10 <b>discussions (5)</b> 48:22;49:8,9;92:21; 93:1 <b>dispatch (1)</b>
58:13 <b>CORE</b> (11) 75:7;76:21;79:8,21; 80:13,19;81:22,24;88:6,	credit (1) 76:12 critical (2) 30:23,24 criticism (1) 89:15 criticisms (1)	18:11;47:19 deal (1) 92:10 Dealing (4) 32:23;38:21;72:9,10 death (2)	describe (1) 77:18 described (2) 48:6;76:23 describes (1) 39:2	85:10;102:10 <b>discussions (5)</b> 48:22;49:8,9;92:21; 93:1 <b>dispatch (1)</b> 9:23
58:13 <b>CORE</b> (11) 75:7;76:21;79:8,21; 80:13,19;81:22,24;88:6, 10;89:12	credit (1) 76:12 critical (2) 30:23,24 criticism (1) 89:15 criticisms (1) 71:12	18:11;47:19 deal (1) 92:10 Dealing (4) 32:23;38:21;72:9,10 death (2) 35:18;38:5	describe (1) 77:18 described (2) 48:6;76:23 describes (1) 39:2 details (2)	85:10;102:10 discussions (5) 48:22;49:8,9;92:21; 93:1 dispatch (1) 9:23 dispatched (3)
58:13 CORE (11) 75:7;76:21;79:8,21; 80:13,19;81:22,24;88:6, 10;89:12 corrections (1)	credit (1) 76:12 critical (2) 30:23,24 criticism (1) 89:15 criticisms (1) 71:12 cross (1)	18:11;47:19 deal (1) 92:10 Dealing (4) 32:23;38:21;72:9,10 death (2) 35:18;38:5 debated (1)	describe (1) 77:18 described (2) 48:6;76:23 describes (1) 39:2 details (2) 44:9;86:20	85:10;102:10 discussions (5) 48:22;49:8,9;92:21; 93:1 dispatch (1) 9:23 dispatched (3) 94:23,23,24
58:13 CORE (11) 75:7;76:21;79:8,21; 80:13,19;81:22,24;88:6, 10;89:12 corrections (1) 55:24	credit (1) 76:12 critical (2) 30:23,24 criticism (1) 89:15 criticisms (1) 71:12 cross (1) 45:22	18:11;47:19 deal (1) 92:10 Dealing (4) 32:23;38:21;72:9,10 death (2) 35:18;38:5 debated (1) 79:22	describe (1) 77:18 described (2) 48:6;76:23 describes (1) 39:2 details (2) 44:9;86:20 determination (1)	85:10;102:10 discussions (5) 48:22;49:8,9;92:21; 93:1 dispatch (1) 9:23 dispatched (3) 94:23,23,24 distorting (1)

DE 10-	-261 PUBLIC SERVICE (		a Cost integrated Kesouro	LE FIAH
52:3;57:16	duplicates (1)	54:5;70:21;80:13;	evaluate (1)	expended (1)
distributed (6)	52:8	95:10	104:12	64:1
22:12;42:16;44:7,23;	during (2)	elements (1)	evaluated (1)	expenditure (3)
54:7;101:4	25:4;97:15	77:12	104:23	61:23;83:16;87:13
distribution (1)	dynamic (1)	else (4)	evaluating (3)	Expenditures (27)
44:22	95:3	5:8,20;36:16;75:11	70:9,13;93:12	59:6,7,10,17,18,19,23;
divest (2)		Emera (6)	even (8)	60:15,16;61:16;62:6,24;
12:7;14:23	$\mathbf{E}$	17:7;46:1,5,12,12,14	10:21;28:23;30:2;	64:23;71:20,21,21;83:9,
divestiture (18)		emission (2)	54:14;81:10;86:7;87:3,	11,12,22;84:18,21;
10:9,14,22;11:1,13;	earlier (3)	25:7,10	14	86:10;88:14;91:6,11,19
12:10,12,15;13:3,9,21;	21:10;63:10;97:7	emissions (4)	eventually (1)	expense (3)
14:4,13,20,22;22:22;	easy (1)	25:5;48:7,9,14	79:22	26:18;27:20;28:8
49:21,24	98:3	employee (2)	everybody (3)	experience (12)
Division (1)	Eaton (31)	17:4;29:18	6:22;30:1;105:6	9:15;28:6,13;29:13;
51:14	5:5;7:9;11:5,7,14,18;	employment (1)	everyone (5)	33:7;34:9;35:16;50:12
Docket (9)	12:3;13:19;15:3,14,16;	51:10	5:3,20;6:24;7:4;63:12	55:21;70:23;75:24;
18:11;28:20;41:8;	16:6,11;21:17,20;23:23;	encouraged (1)	everyone's (1)	100:2
47:19,22;82:3;88:10,13,	24:13;28:2;29:5;30:9;	89:11	103:1	expert (4)
13	70:4,5,7;72:22,23;83:3;	encouraging (1)	evidence (5)	21:4,9;28:3;29:20
dockets (2)	103:5,6,10;104:9,15	90:13	101:16;104:14,21,22;	expertise (2)
10:3;79:8	economic (3)	end (3)	105:1	51:17;55:17
document (17)	12:8;51:21;55:23	89:22;91:7;101:21	exact (3)	experts (1)
7:20;8:18;16:7,20;	economical (1)	energy (30)	16:16;21:15;86:2	21:10
20:16;22:1;25:13;36:13;	9:24	9:16,18,22;10:16;	exactly (1)	explain (4)
47:16,18;52:3,17,20,24;	edits (1)	26:9,18,23;27:2,5,10;	54:2	26:11;104:17;105:5,
53:22;61:14;66:14	56:1	33:23;34:3,16,22;35:9;	<b>EXAMINATION (2)</b>	12
documents (6)	Edward (2)	37:19,22;38:2;40:13;	45:20;51:8	explanation (1)
48:12;52:5,14;53:5,7,	52:22;53:4	44:22;61:24;73:2,8,24;	exceeded (1)	56:24
12	EE-type (1)	77:19;78:15,19;81:17;	36:9	explore (1)
dollar (4)	42:14	85:6;100:9	Excellent (2)	89:13
74:20;76:1;86:2,13	effect (4)	energy-efficiency (3)	52:3;57:18	exposed (3)
dollars (10)	30:21;81:23;82:19;	41:20;55:23;82:5	exchange (1)	96:5,5,6
23:10;62:16;64:1;	100:9	energy-saving (1)	47:2	extended (1)
76:13;77:15;83:16;87:2,	effective (4)	57:4	Excuse (6)	5:19
15,18;93:15	76:16;81:5,11,13	engineering (8)	8:14;11:4;16:3;23:4,	extensive (3)
domain (1)	effectiveness (1)	22:24;23:11;29:6;	17;60:20	23:10;55:21;86:19
23:7	77:14	35:3,20,21;50:7;86:14	excused (2)	extent (6)
done (8)	effects (1)	England (1)	50:23;102:6	10:4;14:6;23:23;
17:13;25:17,17;31:6,	94:1	51:20	Exhibit (41)	42:14;44:20;94:16
15;32:12;39:7;63:19	efficiency (10)	enough (1)	8:19;15:13;24:14;	extremely (1)
door (1)	42:3;44:23;54:14;	77:7	32:2;46:21;47:17;48:2;	38:17
105:10	73:14,16,19;77:19;79:1;	enter (1)	52:18;53:1,6,6,13;54:9,	$\mathbf{F}$
down (10)	82:15,16	101:15	13,20,21;55:6,8;56:2;	Г
21:1;59:1,16;65:6;	efficient (3)	entities (1)	57:20,24;58:9,19;59:1,3;	P (1)
71:14,17,20;74:11;86:9;	76:11,16;82:18	31:7	61:1,5,8;63:15;64:15;	face (1)
92:16 Dr. (1)	<b>effort (1)</b> 93:17	entitled (1) 26:22	71:10,18,19;72:5,9,22,	75:15
Dr (1)			24;83:8,16;84:15;	facilities (1)
23:3 draw (1)	Either (4)	environmental (13)	100:24 exhibits (3)	95:18
draw (1) 56:20	11:24;44:22;67:22;	9:2,12;21:5,13;26:2;		facility (1)
56:20 driven (1)	104:4 electric (32)	27:17;29:8,10;85:12,21; 91:22;92:9,21	54:11,22;57:23	17:17
50:2	34:8,11;51:14;59:17;	91:22;92:9,21 equal (1)	exist (1) 95:6	<b>fact (11)</b> 62:9,16,24;64:24;
		34:13		
<b>drives (1)</b> 95:5	60:4,7;61:24;64:14,18;		existing (2)	67:23,24;77:9;87:17;
95:5 driving (1)	65:6;66:19;69:7;71:16, 20;72:4,14;78:15,18;	essentially (1) 62:20	94:17;96:1 <b>expand (1)</b>	98:9;101:2;102:4 factor (1)
37:20		established (1)	62:21	40:24
DSM (5)	83:21;84:18,21,22;86:9; 87:20,22;88:7,21;89:3,6,	9:3	expanded (1)	40:24 factors (4)
52:1;55:12;72:18;	87:20,22;88:7,21;89:3,6, 20;90:20;91:3	estimates (2)	42:11	97:13;98:17,24;
75:18;78:6	20;90:20;91:3 electrical (2)	23:9;77:8	expect (6)	100:10
due (2)	86:14;88:9	et (4)	37:7;76:19;77:9,12;	facts (1)
34:22;42:5	80:14;88:9 electricity (3)	9:9;35:22,23;100:10	82:23;86:22	28:1
duly (1)	69:12,15;80:21	9.9,53.22,23,100.10 Europe (1)	expected (1)	fair (11)
51:5	element (4)	17:20	92:16	17:22;24:3;30:18;
J1.J	Cicincii (7)	17.20	72.10	17.44,44.3,30.10,

-		1	]	Τ
31:18;69:2,5,10;90:8,16;	6:8	forward (1)	22:10,13;30:4;92:12	happening (1)
91:14;105:3	five (5)	94:10	generation (16)	92:20
fairly (1)	20:17;34:20;96:12,15;	fossil (2)	18:24;22:12;24:22;	happens (1)
91:1	97:9	69:11,17	25:1;27:1,8;30:22;32:7,	92:11
fall (1)	five-year (4)	found (2)	10,16;37:17;42:16;43:1;	happy (1)
73:23	85:1;96:13;99:4;	67:16;70:21	44:7,24;49:22	5:10
falling (1)	100:13	frame (1)	GEORGE (4)	HARRINGTON (19)
94:20	fixed (1)	97:15	51:4,7,11;53:21	6:6;9:20;16:3,10;
familiar (7)	37:16	front (4)	gesturing (1)	31:21,22;32:1;46:24;
17:1;66:21;67:6,8,9,	flexible (1)	8:15,23;24:15;79:3	39:15	47:3;53:18;54:5;58:20;
17:77:21	17:8	fuel (15)	gets (3)	60:20;83:6,7;88:1;97:4,
far (10)	flip (1)	17:4;19:17,21;60:9;	6:16;79:23;80:11	5;100:17
10:20;20:18,21;26:3;	38:20	69:12,16,17;89:5;95:4,	gist (1)	Hatfield (1)
	fluorescence (1)		16:14	18:15
33:15;40:18;43:10;	74:24	11;99:1,4,6,9,19		
71:14;72:1;100:6		fuel-blind (1)	given (3)	headed (2)
farther (1)	focused (1)	57:2	28:5;95:3;100:2	61:1,5
6:23	90:20	fuel-neutral (2)	glimmers (2)	hear (2)
February (1)	focusing (1)	89:14;90:14	41:12,14	67:21;102:21
47:22	59:4	fuel-purchasing (1)	goal (2)	heard (10)
federal (1)	follow (2)	99:15	25:9;48:9	21:10;23:3;41:21;
92:9	11:3;95:12	fulfill (1)	goes (3)	64:8;66:5;75:12;85:11,
feel (2)	following (2)	68:2	9:5;35:19;63:20	15;93:1;97:7
13:5;75:8	8:2;37:1	full (1)	good (6)	hearing (4)
few (6)	follow-up (2)	47:1	57:15;65:24;66:1;	5:19;67:13;68:4,4
17:18;32:23;38:13;	24:3;97:6	fully (1)	77:7;85:16;96:10	hearings (1)
45:18;88:3;103:9	<b>foot</b> (1)	71:1	grant (1)	103:24
fight (1)	93:2	fund (1)	19:15	heart (1)
49:14	forced (1)	61:22	granted (1)	63:21
figure (1)	93:2	funding (2)	42:2	heat (3)
70:11	forecast (3)	86:7;87:4	graph (1)	69:7,7,11
figures (1)	36:7;39:24;43:16	funds (3)	39:13	heating (2)
86:6	forecasted (1)	42:3;44:14,16	greater (1)	43:13;60:12
file (2)	43:6	further (6)	35:15	helpful (3)
67:3;71:1	forecasting (2)	16:4;31:19;69:19;	growing (1)	11:21;38:18;96:24
filed (4)	43:3;96:16	83:4;104:14;105:1	40:14	helping (1)
10:21;67:4,16;71:15	forecasts (2)	future (18)	growth (3)	85:7
filing (15)	22:11,13	23:16;28:14,20;43:3;	42:5;43:7;85:9	hence (1)
9:5;48:4;54:10,20,21;	foreseeable (8)	49:20;50:4,7;74:1;79:7;	guess (8)	91:12
57:11,13;58:9,10,14,23;	8:12;9:8,11,14;22:21;	82:20,22;95:8;96:11;	21:1;23:18;28:16;	here's (1)
60:6,24;70:20;89:10	23:1;26:16;27:16	97:8,13;98:10;100:8,9	31:18;66:6;67:21;98:8;	21:1
final (4)	forestall (1)	77.0,13,70.10,100.0,7	105:8	high (1)
20:12;27:18;29:12;	44:11	G	guidance (3)	36:7
93:14	forestalls (1)	O .	62:14;83:19;85:23	higher (11)
finalized (1)	44:21	gap (3)	guide (2)	34:3,8,10;35:19,21;
85:14	forget (1)	56:13,14,15	61:12,20	36:15;40:14,14;73:13;
financially (1)	85:5	gas (28)	guideline (2)	93:7;95:21
100:12	forgetting (1)	10:17;17:11,21;18:1,	64:7,21	highly (1)
find (3)	44:9	7,16,18,19,23;19:6;	04.7,21	17:7
34:10;61:22;84:1	Form (1)	30:22;33:6;60:8;66:20;	Н	hiring (1)
finds (2)	16:21	94:14,18,20;95:4,5,15,		96:16
12:8;78:14	forma (1)	18;96:10;97:9,17,20;	Hampshire (3)	historically (1)
Fine (4)	25:7	98:11,19;100:8	20:23;70:24;77:19	39:23
9:15;89:21;94:9;102:2	formally (1)	gas-fired (1)		hold (2)
	25:6	18:24	hand (1) 93:20	102:19,20
finish (3)				
5:10,11;102:13 <b>firms (1)</b>	Format (3) 53:24;54:3,6	GDS (5)	handed (1) 15:22	HOLLENBERG (23) 5:17;8:14;11:4,9,15,
		77:20;78:1,5,7,14		
97:21	former (1)	general (4)	handle (2)	20;13:14,24;21:16;
<b>first (13)</b> 16:7;20:19;24:21;	32:13 <b>forth (4)</b>	9:6;55:9;63:16;101:5	29:24;30:1	23:17;27:21;28:16;
In: /: /II: I 9: //I: / I :	10CID (41)	generally (1)	happen (5)	29:16;30:8;45:17,18,21;
		(2.22	60 01 70 14 70 7	47 11 14 15 50 00 70 1
26:3;29:21,23;40:19;	38:20;53:21;83:10;	63:22	68:21;72:14;73:7;	47:11,14,15;50:20;70:1,
26:3;29:21,23;40:19; 47:1;59:5,20,22;70:14;	38:20;53:21;83:10; 85:17	generated (1)	92:7;96:20	2
26:3;29:21,23;40:19;	38:20;53:21;83:10;			

	2011 02210 2211 102 1	T	Took minder took in	
homes (4)	incense (1)	information (17)	44:21	
60:13;69:7,11;85:6	41:10	23:6,13;24:7;37:10;	investments (4)	K
hope (1)	incentives (2)	38:21;47:5;48:23;49:7,	13:1;41:20;42:4,4	N
41:13	74:19,20	9;54:1,11;56:14,15;	invite (1)	1 (1)
horizon (1)	incentivize (2)	59:2;97:24;98:3;101:12	65:17	keep (1)
41:13	79:16;80:8	initial (1)	involve (1)	65:20
hours (2)	include (15)	9:4	88:8	keeping (1)
61:3;72:10	8:1;22:6,10,15,20;	Initially (5)	involved (3)	101:10
huge (1)	26:9;35:24;43:6;60:15,	37:23;79:20;81:16;	10:2;66:16;75:7	Ken (1)
84:3	18;62:7,9;64:4;67:13;	93:5,24	involving (1)	29:20
hypothetical (3)	92:17	initiated (1)	48:6	kind (10)
27:24;28:1,4	included (5)	67:12	IRP (8)	35:19;44:7;61:4;85:9;
27:21,20:1,1	13:6;24:5,6;47:10;	insert (1)	47:7;48:4;49:8;80:10,	86:21;87:12;92:4;95:13; 97:24;99:23
I	54:12	56:13	16;91:8;92:15,24	
	includes (2)	inserted (1)	IRP-related (1)	kinds (1) 88:14
idea (3)	43:15;59:23	95:19	55:12	
85:16,16;89:2	including (7)	inspection (1)	IRPs (1)	knowing (1) 99:19
identification (5)	12:24;54:10;66:8,24;	101:10	70:21	
53:15;54:19,23;58:2,3	88:22;89:7;90:2	installation (1)	ISO (1)	knowledge (4)
identified (2)	inclusion (1)	44:6	9:24	40:19;82:10,21,23
16:22;53:20	57:2	installations (3)	isolated (2)	known (1)
identify (3)	inconsistent (3)	22:11;42:23,24	92:2,3	24:11
16:4;47:19;52:4	103:18,20;104:7	instance (2)	issue (29)	L
ie (1)	incorporate (3)	24:8;37:21	9:19;10:11,14;12:18;	L
97:14	22:7,16;78:7	Integrated (11)	21:2;27:7;28:24;30:6,	labeled (2)
IGNATIUS (49)	incorporated (1)	9:4;32:21;51:24;55:9,	23,24;41:23;42:20,21;	labeled (2)
5:2,23;6:4,10,15,20;	42:9	21;66:17;67:15;71:4;	43:12;44:19;49:15;	16:8,20
14:9;15:11,15;24:2;	increase (6)	80:11;90:18;92:4	55:12;63:2;80:7,16;	lack (1) 36:11
28:10;29:1;30:17;31:20;	35:5;37:22;61:19;	integration (1)	84:8;88:6;92:4,14,15;	laid (1)
36:19;38:7;45:15;47:13;	84:3,24;91:1	8:3	97:1,6;101:18;104:6	45:11
50:22;51:3;52:6;53:14;	increases (1)	intend (1)	issued (1)	Lakes (1)
54:18;57:19;58:1;63:6,	35:12	83:18	57:12	5:19
14;65:19;68:9,12,16;	increasing (6)	intended (3)	issues (7)	language (3)
69:21,24;70:4;72:21;	39:22;56:24;59:9;	56:7;61:20;83:19	26:5;41:2;55:3,8;	8:11;17:14;46:24
83:5;88:3,5;94:5;97:3;	62:16;63:1;73:14	intending (1)	83:14;92:5,7	Large (10)
100:19;101:17;102:1,5,	incremental (4)	81:7	items (1)	10:5;17:17;18:24;
11;103:4,7;104:8,20	22:14;26:13;29:7;	interact (1)	63:9	19:9;44:6;60:16;64:8;
impact (6)	75:13	19:4	IV-7 (1)	66:11,15;74:10
8:4;65:5;73:11,23;	incur (1)	interest (3)	59:3	larger (1)
80:14;95:13	95:22	12:8;18:1;31:13	IV-8 (6)	61:23
impacted (2)	incurred (4)	interested (1)	58:9,19;61:1;71:18;	Large's (1)
92:13;96:22	26:13;29:7;49:20;	40:17	72:9;83:17	66:8
impacts (5)	50:16	interesting (1)	_	last (12)
22:9;27:9;60:6;93:16,	indeed (1)	38:19	J	10:11;15:7,18;23:4;
21	75:3	interests (1)		24:21;30:6;32:3,6;
implementing (1)	Independence (2)	14:23	Jacobs (1)	40:22;48:12;85:11;90:5
85:21	73:3,8	intermittent (3)	52:22	late (1)
important (1)	independent (2)	17:12;18:18,21	job (2)	6:17
17:8	31:7;42:21	internal (2)	32:13;71:4	later (1)
imposed (2)	indicate (2)	48:21;49:1	Jody (1)	62:11
9:3;93:11	8:9;24:10	interpretation (2)	16:24	latter (1)
improves (1)	indicated (9)	104:10;105:2	Johnsbury (1)	25:22
73:20	29:16;42:12;43:24;	INTERROGATORIES (7)	17:17	law (1)
inadequate (2)	50:10;54:1;55:20;81:9;	32:1;36:24;38:7;83:7;	judgments (1)	74:16
31:2;42:19	84:11;99:11	88:5;94:7;97:5	99:3	leads (1)
inadvertently (1)	individual (1)	interruptible (1)	July (2)	39:9
54:8	29:21	18:20	53:20;54:9	least (49)
inappropriate (1)	industries (1)	into (16)	June (1)	7:11,15;9:4;10:2,7,12;
64:4	89:5	6:16,24;33:7;34:24;	18:12	12:16,19,20;13:6;23:8;
incandescent (3)	industry (2)	41:11;59:1,17;63:7,17;	Justification (1)	24:10,10,14,23;30:15;
73:12,16;74:5	33:15;82:6	71:20;80:11;83:14;86:9;	16:21	31:11,12;32:8,21;34:20;
incandescents (3)	inefficient (1)	90:24;95:19;101:16	justify (1)	35:1,4;36:1,12;44:2;
73:20,22;74:23	76:3	investment (1)	75:14	45:3,6,9;61:13;62:14;
		1	I .	<u> </u>

DE 10				
63:21,22;65:11;66:17;	17:17,19	manufacturing (1)	26:6;67:24	40:22;57:11
67:15;70:9;71:1;89:2,3,	1	82:16	meetings (7)	more (40)
23;90:1,6,14,17;91:15;	18:19;36:17;41:17;	many (4)	25:4,23;32:16,18;	10:18,18;17:21;19:8,
93:9;95:9;99:18	42:5;43:4,16	20:14;68:21;70:15;	48:7,11;49:1	13;21:13;22:4,12,18;
leave (1)	long (7)	77:4	meets (2)	26:4,6;30:23;31:24;
6:21	12:24;13:5;26:5;70:8;	mark (2)	24:23;32:7	35:12,15,20,22;37:24;
leaving (1)	84:9;90:6;103:1	53:15;54:19	megawatt (2)	38:13;39:11,12;41:13;
6:2	longer (1)	marked (8)	61:2;72:9	50:14;52:7;60:9,12;
legal (4)	26:6	47:17;53:12;54:15,22;	memory (1)	76:8,10,15;81:4,11,12;
13:10,23;14:18;49:2	long-term (4)	57:23;58:1,3;101:23	25:19	82:18;84:17;90:10,12;
legislation (1)	12:20;37:13;95:3;	market (17)	mentioned (3)	93:12;96:12;100:5;
42:2	96:16	10:1,17;15:2;17:21;	18:17;35:17;103:11	105:5
legislature (1)	look (14)	35:11;40:11,15,17;	Merrimack (4)	morning (4)
87:12	6:23;7:16;11:22,24;	41:12;61:6,7,8,10;91:20;	22:20;30:6;31:10;	5:14;23:5;103:14,17
legitimate (4)	12:20,23;15:7;23:13;	94:19;95:24;98:2	34:23	most (10)
26:8,17;28:5,11	30:2;34:19;38:23;42:13;	marketing (18)	method (1)	10:8;17:19;43:19,23;
less (1)	94:13;96:17	76:11,13,16,24;77:2,9,	76:22	44:3;51:21,23;67:16;
36:16	looked (3)	11,16;79:5,16;80:7,18;	middle (2)	97:19,23
letter (5)	39:12;45:3,5	81:1,4,6,14,19,22	17:6;89:17	mostly (1)
8:10,15,20;57:20;	looking (14)	markets (1)	might (10)	17:12
102:18	11:18;23:8;25:24;	99:22	28:15;36:17;39:11;	much (18)
letting (1)	26:4;27:8;34:17;39:2;	marking (1)	41:4;67:23;84:7;86:22;	36:15;37:1;52:10;
93:7	44:17;58:19;85:23;93:8;	100:23	91:19;93:4,11	56:18;68:15;74:2;77:1;
level (8)	94:10;98:8;102:12	material (1)	migrate (1)	84:4;86:12;90:9,21;
39:2,4;62:6;65:6;	lot (13)	101:8	35:13	95:21;97:1,14;99:2,4,7;
74:20;87:12;91:5,10	18:23;66:12;85:10;	materials (1)	migration (28)	100:5
leveled (1)		90:9	22:16;27:7;33:18,19;	must (2)
39:20	86:1,5,13,14;91:17;92:1;	matter (4)		22:3;86:10
	95:17;99:12;105:10,13	9:7;79:6;101:1;102:3	34:15;35:6,15,21,22;	myself (3)
<b>leveling (1)</b> 39:17	lots (1) 97:20		36:3,7,8;37:3,16,24;	50:10;52:21;53:4
levels (3)		matters (3) 21:13;55:15;58:5	38:12,16;39:1,2,4,8,14,	30:10;32:21;33:4
33:18,19;40:3	loud (1) 12:2	maximum (1)	22;40:3;41:3,5,8;100:8	N
			million (4)	11
life (1)	low (1)	39:17	61:18,19;86:3,4	
<b>life (1)</b> 99:1	low (1) 33:22	39:17 <b>May (19)</b>	61:18,19;86:3,4 mind (2)	name (3)
life (1) 99:1 Light (1)	low (1) 33:22 lower (1)	39:17 <b>May (19)</b> 6:16,24;12:6;14:15;	61:18,19;86:3,4 mind (2) 57:15;62:17	name (3) 23:4;51:10,11
life (1) 99:1 Light (1) 41:15	low (1) 33:22	39:17 <b>May (19)</b> 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7,	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1)	name (3) 23:4;51:10,11 natural (17)
life (1) 99:1 Light (1) 41:15 lightbulb (2)	low (1) 33:22 lower (1) 46:17	39:17 <b>May (19)</b> 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2;	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16;
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3	low (1) 33:22 lower (1)	39:17 <b>May (19)</b> 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22;	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1)	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14,
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3 lighting (11)	low (1) 33:22 lower (1) 46:17	39:17 <b>May (19)</b> 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22; 104:4;105:1	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1) 92:22	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14, 18,20;95:4,5,15,18;
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3 lighting (11) 69:15;72:15;73:2,9;	low (1) 33:22 lower (1) 46:17 M Madam (3)	39:17 May (19) 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22; 104:4;105:1 maybe (6)	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1) 92:22 minimize (1)	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14, 18,20;95:4,5,15,18; 97:17,20;98:10,18
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3 lighting (11) 69:15;72:15;73:2,9; 74:1;78:8;79:6,10,12;	low (1) 33:22 lower (1) 46:17 M Madam (3) 6:1;69:22;103:10	39:17 May (19) 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22; 104:4;105:1 maybe (6) 32:11;41:10,13;50:14;	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1) 92:22 minimize (1) 63:23	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14, 18,20;95:4,5,15,18; 97:17,20;98:10,18 NB (1)
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3 lighting (11) 69:15;72:15;73:2,9; 74:1;78:8;79:6,10,12; 82:8,12	low (1) 33:22 lower (1) 46:17 M Madam (3) 6:1;69:22;103:10 magnitude (2)	39:17 May (19) 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22; 104:4;105:1 maybe (6) 32:11;41:10,13;50:14; 70:14;101:22	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1) 92:22 minimize (1) 63:23 minimum (1)	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14, 18,20;95:4,5,15,18; 97:17,20;98:10,18 NB (1) 17:17
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3 lighting (11) 69:15;72:15;73:2,9; 74:1;78:8;79:6,10,12; 82:8,12 likely (3)	low (1) 33:22 lower (1) 46:17 M Madam (3) 6:1;69:22;103:10 magnitude (2) 64:20;84:13	39:17 May (19) 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22; 104:4;105:1 maybe (6) 32:11;41:10,13;50:14; 70:14;101:22 McCluskey (22)	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1) 92:22 minimize (1) 63:23 minimum (1) 7:22	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14, 18,20;95:4,5,15,18; 97:17,20;98:10,18 NB (1) 17:17 necessarily (2)
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3 lighting (11) 69:15;72:15;73:2,9; 74:1;78:8;79:6,10,12; 82:8,12 likely (3) 60:9,12;77:8	low (1) 33:22 lower (1) 46:17 M  Madam (3) 6:1;69:22;103:10 magnitude (2) 64:20;84:13 maintenance (1)	39:17 May (19) 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22; 104:4;105:1 maybe (6) 32:11;41:10,13;50:14; 70:14;101:22 McCluskey (22) 50:24;51:4,7,11;	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1) 92:22 minimize (1) 63:23 minimum (1) 7:22 minor (1)	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14, 18,20;95:4,5,15,18; 97:17,20;98:10,18 NB (1) 17:17 necessarily (2) 25:18;88:8
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3 lighting (11) 69:15;72:15;73:2,9; 74:1;78:8;79:6,10,12; 82:8,12 likely (3) 60:9,12;77:8 limited (2)	low (1) 33:22 lower (1) 46:17 M  Madam (3) 6:1;69:22;103:10 magnitude (2) 64:20;84:13 maintenance (1) 98:14	39:17 May (19) 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22; 104:4;105:1 maybe (6) 32:11;41:10,13;50:14; 70:14;101:22 McCluskey (22) 50:24;51:4,7,11; 52:13,16;53:21;55:3,24;	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1) 92:22 minimize (1) 63:23 minimum (1) 7:22 minor (1) 56:3	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14, 18,20;95:4,5,15,18; 97:17,20;98:10,18 NB (1) 17:17 necessarily (2) 25:18;88:8 necessary (1)
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3 lighting (11) 69:15;72:15;73:2,9; 74:1;78:8;79:6,10,12; 82:8,12 likely (3) 60:9,12;77:8 limited (2) 8:1;66:9	low (1) 33:22 lower (1) 46:17 M  Madam (3) 6:1;69:22;103:10 magnitude (2) 64:20;84:13 maintenance (1) 98:14 major (1)	39:17 May (19) 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22; 104:4;105:1 maybe (6) 32:11;41:10,13;50:14; 70:14;101:22 McCluskey (22) 50:24;51:4,7,11; 52:13,16;53:21;55:3,24; 56:20;58:4,18,22;60:23;	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1) 92:22 minimize (1) 63:23 minimum (1) 7:22 minor (1) 56:3 minutes (1)	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14, 18,20;95:4,5,15,18; 97:17,20;98:10,18 NB (1) 17:17 necessarily (2) 25:18;88:8 necessary (1) 93:4
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3 lighting (11) 69:15;72:15;73:2,9; 74:1;78:8;79:6,10,12; 82:8,12 likely (3) 60:9,12;77:8 limited (2) 8:1;66:9 Line (8)	low (1) 33:22 lower (1) 46:17  M  Madam (3) 6:1;69:22;103:10 magnitude (2) 64:20;84:13 maintenance (1) 98:14 major (1) 63:2	39:17 May (19) 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22; 104:4;105:1 maybe (6) 32:11;41:10,13;50:14; 70:14;101:22 McCluskey (22) 50:24;51:4,7,11; 52:13,16;53:21;55:3,24; 56:20;58:4,18,22;60:23; 63:4,13,18;65:16,24;	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1) 92:22 minimize (1) 63:23 minimum (1) 7:22 minor (1) 56:3 minutes (1) 49:4	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14, 18,20;95:4,5,15,18; 97:17,20;98:10,18 NB (1) 17:17 necessarily (2) 25:18;88:8 necessary (1) 93:4 need (12)
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3 lighting (11) 69:15;72:15;73:2,9; 74:1;78:8;79:6,10,12; 82:8,12 likely (3) 60:9,12;77:8 limited (2) 8:1;66:9 Line (8) 22:2;32:3;37:2,12;	low (1) 33:22 lower (1) 46:17  M  Madam (3) 6:1;69:22;103:10 magnitude (2) 64:20;84:13 maintenance (1) 98:14 major (1) 63:2 majority (1)	39:17 May (19) 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22; 104:4;105:1 maybe (6) 32:11;41:10,13;50:14; 70:14;101:22 McCluskey (22) 50:24;51:4,7,11; 52:13,16;53:21;55:3,24; 56:20;58:4,18,22;60:23; 63:4,13,18;65:16,24; 70:8;88:4;102:6	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1) 92:22 minimize (1) 63:23 minimum (1) 7:22 minor (1) 56:3 minutes (1) 49:4 missing (1)	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14, 18,20;95:4,5,15,18; 97:17,20;98:10,18 NB (1) 17:17 necessarily (2) 25:18;88:8 necessary (1) 93:4 need (12) 7:4;29:23;47:17;52:7;
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3 lighting (11) 69:15;72:15;73:2,9; 74:1;78:8;79:6,10,12; 82:8,12 likely (3) 60:9,12;77:8 limited (2) 8:1;66:9 Line (8) 22:2;32:3;37:2,12; 56:1,5,9,12	low (1) 33:22 lower (1) 46:17  M  Madam (3) 6:1;69:22;103:10 magnitude (2) 64:20;84:13 maintenance (1) 98:14 major (1) 63:2 majority (1) 69:16	39:17 May (19) 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22; 104:4;105:1 maybe (6) 32:11;41:10,13;50:14; 70:14;101:22 McCluskey (22) 50:24;51:4,7,11; 52:13,16;53:21;55:3,24; 56:20;58:4,18,22;60:23; 63:4,13,18;65:16,24; 70:8;88:4;102:6 McCluskey's (1)	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1) 92:22 minimize (1) 63:23 minimum (1) 7:22 minor (1) 56:3 minutes (1) 49:4 missing (1) 86:15	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14, 18,20;95:4,5,15,18; 97:17,20;98:10,18 NB (1) 17:17 necessarily (2) 25:18;88:8 necessary (1) 93:4 need (12) 7:4;29:23;47:17;52:7; 61:22;63:11;87:13,14;
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3 lighting (11) 69:15;72:15;73:2,9; 74:1;78:8;79:6,10,12; 82:8,12 likely (3) 60:9,12;77:8 limited (2) 8:1;66:9 Line (8) 22:2;32:3;37:2,12; 56:1,5,9,12 Lines (1)	low (1) 33:22 lower (1) 46:17  M  Madam (3) 6:1;69:22;103:10 magnitude (2) 64:20;84:13 maintenance (1) 98:14 major (1) 63:2 majority (1) 69:16 makes (4)	39:17 May (19) 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22; 104:4;105:1 maybe (6) 32:11;41:10,13;50:14; 70:14;101:22 McCluskey (22) 50:24;51:4,7,11; 52:13,16;53:21;55:3,24; 56:20;58:4,18,22;60:23; 63:4,13,18;65:16,24; 70:8;88:4;102:6 McCluskey's (1) 101:5	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1) 92:22 minimize (1) 63:23 minimum (1) 7:22 minor (1) 56:3 minutes (1) 49:4 missing (1) 86:15 MMBtu (1)	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14, 18,20;95:4,5,15,18; 97:17,20;98:10,18 NB (1) 17:17 necessarily (2) 25:18;88:8 necessary (1) 93:4 need (12) 7:4;29:23;47:17;52:7; 61:22;63:11;87:13,14; 102:13;103:8;104:14,24
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3 lighting (11) 69:15;72:15;73:2,9; 74:1;78:8;79:6,10,12; 82:8,12 likely (3) 60:9,12;77:8 limited (2) 8:1;66:9 Line (8) 22:2;32:3;37:2,12; 56:1,5,9,12 Lines (1) 56:21	low (1) 33:22 lower (1) 46:17  M  Madam (3) 6:1;69:22;103:10 magnitude (2) 64:20;84:13 maintenance (1) 98:14 major (1) 63:2 majority (1) 69:16 makes (4) 25:7,8;95:23;98:11	39:17 May (19) 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22; 104:4;105:1 maybe (6) 32:11;41:10,13;50:14; 70:14;101:22 McCluskey (22) 50:24;51:4,7,11; 52:13,16;53:21;55:3,24; 56:20;58:4,18,22;60:23; 63:4,13,18;65:16,24; 70:8;88:4;102:6 McCluskey's (1) 101:5 mean (10)	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1) 92:22 minimize (1) 63:23 minimum (1) 7:22 minor (1) 56:3 minutes (1) 49:4 missing (1) 86:15 MMBtu (1) 72:10	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14, 18,20;95:4,5,15,18; 97:17,20;98:10,18 NB (1) 17:17 necessarily (2) 25:18;88:8 necessary (1) 93:4 need (12) 7:4;29:23;47:17;52:7; 61:22;63:11;87:13,14; 102:13;103:8;104:14,24 needs (3)
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3 lighting (11) 69:15;72:15;73:2,9; 74:1;78:8;79:6,10,12; 82:8,12 likely (3) 60:9,12;77:8 limited (2) 8:1;66:9 Line (8) 22:2;32:3;37:2,12; 56:1,5,9,12 Lines (1) 56:21 listed (1)	low (1) 33:22 lower (1) 46:17  M  Madam (3) 6:1;69:22;103:10 magnitude (2) 64:20;84:13 maintenance (1) 98:14 major (1) 63:2 majority (1) 69:16 makes (4) 25:7,8;95:23;98:11 making (7)	39:17 May (19) 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22; 104:4;105:1 maybe (6) 32:11;41:10,13;50:14; 70:14;101:22 McCluskey (22) 50:24;51:4,7,11; 52:13,16;53:21;55:3,24; 56:20;58:4,18,22;60:23; 63:4,13,18;65:16,24; 70:8;88:4;102:6 McCluskey's (1) 101:5 mean (10) 19:7,13;26:11;37:6,	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1) 92:22 minimize (1) 63:23 minimum (1) 7:22 minor (1) 56:3 minutes (1) 49:4 missing (1) 86:15 MMBtu (1) 72:10 mode (1)	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14, 18,20;95:4,5,15,18; 97:17,20;98:10,18 NB (1) 17:17 necessarily (2) 25:18;88:8 necessary (1) 93:4 need (12) 7:4;29:23;47:17;52:7; 61:22;63:11;87:13,14; 102:13;103:8;104:14,24 needs (3) 9:22;17:11;18:6
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3 lighting (11) 69:15;72:15;73:2,9; 74:1;78:8;79:6,10,12; 82:8,12 likely (3) 60:9,12;77:8 limited (2) 8:1;66:9 Line (8) 22:2;32:3;37:2,12; 56:1,5,9,12 Lines (1) 56:21 listed (1) 20:19	low (1) 33:22 lower (1) 46:17  M  Madam (3) 6:1;69:22;103:10 magnitude (2) 64:20;84:13 maintenance (1) 98:14 major (1) 63:2 majority (1) 69:16 makes (4) 25:7,8;95:23;98:11 making (7) 10:17;21:19;28:18;	39:17 May (19) 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22; 104:4;105:1 maybe (6) 32:11;41:10,13;50:14; 70:14;101:22 McCluskey (22) 50:24;51:4,7,11; 52:13,16;53:21;55:3,24; 56:20;58:4,18,22;60:23; 63:4,13,18;65:16,24; 70:8;88:4;102:6 McCluskey's (1) 101:5 mean (10) 19:7,13;26:11;37:6, 15;61:10;84:2;86:14;	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1) 92:22 minimize (1) 63:23 minimum (1) 7:22 minor (1) 56:3 minutes (1) 49:4 missing (1) 86:15 MMBtu (1) 72:10 mode (1) 26:24	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14, 18,20;95:4,5,15,18; 97:17,20;98:10,18 NB (1) 17:17 necessarily (2) 25:18;88:8 necessary (1) 93:4 need (12) 7:4;29:23;47:17;52:7; 61:22;63:11;87:13,14; 102:13;103:8;104:14,24 needs (3) 9:22;17:11;18:6 New (11)
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3 lighting (11) 69:15;72:15;73:2,9; 74:1;78:8;79:6,10,12; 82:8,12 likely (3) 60:9,12;77:8 limited (2) 8:1;66:9 Line (8) 22:2;32:3;37:2,12; 56:1,5,9,12 Lines (1) 56:21 listed (1) 20:19 litigation (2)	low (1) 33:22 lower (1) 46:17  M  Madam (3) 6:1;69:22;103:10 magnitude (2) 64:20;84:13 maintenance (1) 98:14 major (1) 63:2 majority (1) 69:16 makes (4) 25:7,8;95:23;98:11 making (7) 10:17;21:19;28:18; 43:8;89:18;94:22;98:24	39:17 May (19) 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22; 104:4;105:1 maybe (6) 32:11;41:10,13;50:14; 70:14;101:22 McCluskey (22) 50:24;51:4,7,11; 52:13,16;53:21;55:3,24; 56:20;58:4,18,22;60:23; 63:4,13,18;65:16,24; 70:8;88:4;102:6 McCluskey's (1) 101:5 mean (10) 19:7,13;26:11;37:6, 15;61:10;84:2;86:14; 90:1;96:14	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1) 92:22 minimize (1) 63:23 minimum (1) 7:22 minor (1) 56:3 minutes (1) 49:4 missing (1) 86:15 MMBtu (1) 72:10 mode (1) 26:24 Moffatt (2)	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14, 18,20;95:4,5,15,18; 97:17,20;98:10,18 NB (1) 17:17 necessarily (2) 25:18;88:8 necessary (1) 93:4 need (12) 7:4;29:23;47:17;52:7; 61:22;63:11;87:13,14; 102:13;103:8;104:14,24 needs (3) 9:22;17:11;18:6 New (11) 20:23;22:11,19;42:23;
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3 lighting (11) 69:15;72:15;73:2,9; 74:1;78:8;79:6,10,12; 82:8,12 likely (3) 60:9,12;77:8 limited (2) 8:1;66:9 Line (8) 22:2;32:3;37:2,12; 56:1,5,9,12 Lines (1) 56:21 listed (1) 20:19 litigation (2) 48:24;49:3	low (1) 33:22 lower (1) 46:17  M  Madam (3) 6:1;69:22;103:10 magnitude (2) 64:20;84:13 maintenance (1) 98:14 major (1) 63:2 majority (1) 69:16 makes (4) 25:7,8;95:23;98:11 making (7) 10:17;21:19;28:18; 43:8;89:18;94:22;98:24 management (6)	39:17 May (19) 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22; 104:4;105:1 maybe (6) 32:11;41:10,13;50:14; 70:14;101:22 McCluskey (22) 50:24;51:4,7,11; 52:13,16;53:21;55:3,24; 56:20;58:4,18,22;60:23; 63:4,13,18;65:16,24; 70:8;88:4;102:6 McCluskey's (1) 101:5 mean (10) 19:7,13;26:11;37:6, 15;61:10;84:2;86:14; 90:1;96:14 meaning (2)	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1) 92:22 minimize (1) 63:23 minimum (1) 7:22 minor (1) 56:3 minutes (1) 49:4 missing (1) 86:15 MMBtu (1) 72:10 mode (1) 26:24 Moffatt (2) 68:9,10	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14, 18,20;95:4,5,15,18; 97:17,20;98:10,18 NB (1) 17:17 necessarily (2) 25:18;88:8 necessary (1) 93:4 need (12) 7:4;29:23;47:17;52:7; 61:22;63:11;87:13,14; 102:13;103:8;104:14,24 needs (3) 9:22;17:11;18:6 New (11) 20:23;22:11,19;42:23; 70:24;74:24;77:19;85:4;
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3 lighting (11) 69:15;72:15;73:2,9; 74:1;78:8;79:6,10,12; 82:8,12 likely (3) 60:9,12;77:8 limited (2) 8:1;66:9 Line (8) 22:2;32:3;37:2,12; 56:1,5,9,12 Lines (1) 56:21 listed (1) 20:19 litigation (2) 48:24;49:3 litigious (1)	low (1) 33:22 lower (1) 46:17  M  Madam (3) 6:1;69:22;103:10 magnitude (2) 64:20;84:13 maintenance (1) 98:14 major (1) 63:2 majority (1) 69:16 makes (4) 25:7,8;95:23;98:11 making (7) 10:17;21:19;28:18; 43:8;89:18;94:22;98:24 management (6) 24:23;25:5;32:7;48:7,	39:17 May (19) 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22; 104:4;105:1 maybe (6) 32:11;41:10,13;50:14; 70:14;101:22 McCluskey (22) 50:24;51:4,7,11; 52:13,16;53:21;55:3,24; 56:20;58:4,18,22;60:23; 63:4,13,18;65:16,24; 70:8;88:4;102:6 McCluskey's (1) 101:5 mean (10) 19:7,13;26:11;37:6, 15;61:10;84:2;86:14; 90:1;96:14 meaning (2) 26:6;98:13	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1) 92:22 minimize (1) 63:23 minimum (1) 7:22 minor (1) 56:3 minutes (1) 49:4 missing (1) 86:15 MMBtu (1) 72:10 mode (1) 26:24 Moffatt (2) 68:9,10 moment (5)	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14, 18,20;95:4,5,15,18; 97:17,20;98:10,18 NB (1) 17:17 necessarily (2) 25:18;88:8 necessary (1) 93:4 need (12) 7:4;29:23;47:17;52:7; 61:22;63:11;87:13,14; 102:13;103:8;104:14,24 needs (3) 9:22;17:11;18:6 New (11) 20:23;22:11,19;42:23; 70:24;74:24;77:19;85:4; 92:4,5;95:17
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3 lighting (11) 69:15;72:15;73:2,9; 74:1;78:8;79:6,10,12; 82:8,12 likely (3) 60:9,12;77:8 limited (2) 8:1;66:9 Line (8) 22:2;32:3;37:2,12; 56:1,5,9,12 Lines (1) 56:21 listed (1) 20:19 litigation (2) 48:24;49:3 litigious (1) 49:4	low (1) 33:22 lower (1) 46:17  M  Madam (3) 6:1;69:22;103:10 magnitude (2) 64:20;84:13 maintenance (1) 98:14 major (1) 63:2 majority (1) 69:16 makes (4) 25:7,8;95:23;98:11 making (7) 10:17;21:19;28:18; 43:8;89:18;94:22;98:24 management (6) 24:23;25:5;32:7;48:7, 14;61:11	39:17 May (19) 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22; 104:4;105:1 maybe (6) 32:11;41:10,13;50:14; 70:14;101:22 McCluskey (22) 50:24;51:4,7,11; 52:13,16;53:21;55:3,24; 56:20;58:4,18,22;60:23; 63:4,13,18;65:16,24; 70:8;88:4;102:6 McCluskey's (1) 101:5 mean (10) 19:7,13;26:11;37:6, 15;61:10;84:2;86:14; 90:1;96:14 meaning (2) 26:6;98:13 measure (3)	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1) 92:22 minimize (1) 63:23 minimum (1) 7:22 minor (1) 56:3 minutes (1) 49:4 missing (1) 86:15 MMBtu (1) 72:10 mode (1) 26:24 Moffatt (2) 68:9,10 moment (5) 52:4;56:11;58:16;	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14, 18,20;95:4,5,15,18; 97:17,20;98:10,18 NB (1) 17:17 necessarily (2) 25:18;88:8 necessary (1) 93:4 need (12) 7:4;29:23;47:17;52:7; 61:22;63:11;87:13,14; 102:13;103:8;104:14,24 needs (3) 9:22;17:11;18:6 New (11) 20:23;22:11,19;42:23; 70:24;74:24;77:19;85:4; 92:4,5;95:17 Newington (13)
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3 lighting (11) 69:15;72:15;73:2,9; 74:1;78:8;79:6,10,12; 82:8,12 likely (3) 60:9,12;77:8 limited (2) 8:1;66:9 Line (8) 22:2;32:3;37:2,12; 56:1,5,9,12 Lines (1) 56:21 listed (1) 20:19 litigation (2) 48:24;49:3 litigious (1) 49:4 little (8)	low (1) 33:22 lower (1) 46:17  M  Madam (3) 6:1;69:22;103:10 magnitude (2) 64:20;84:13 maintenance (1) 98:14 major (1) 63:2 majority (1) 69:16 makes (4) 25:7,8;95:23;98:11 making (7) 10:17;21:19;28:18; 43:8;89:18;94:22;98:24 management (6) 24:23;25:5;32:7;48:7, 14;61:11 mandates (1)	39:17 May (19) 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22; 104:4;105:1 maybe (6) 32:11;41:10,13;50:14; 70:14;101:22 McCluskey (22) 50:24;51:4,7,11; 52:13,16;53:21;55:3,24; 56:20;58:4,18,22;60:23; 63:4,13,18;65:16,24; 70:8;88:4;102:6 McCluskey's (1) 101:5 mean (10) 19:7,13;26:11;37:6, 15;61:10;84:2;86:14; 90:1;96:14 meaning (2) 26:6;98:13 measure (3) 24:12;73:18;80:4	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1) 92:22 minimize (1) 63:23 minimum (1) 7:22 minor (1) 56:3 minutes (1) 49:4 missing (1) 86:15 MMBtu (1) 72:10 mode (1) 26:24 Moffatt (2) 68:9,10 moment (5) 52:4;56:11;58:16; 92:19;102:9	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14, 18,20;95:4,5,15,18; 97:17,20;98:10,18 NB (1) 17:17 necessarily (2) 25:18;88:8 necessary (1) 93:4 need (12) 7:4;29:23;47:17;52:7; 61:22;63:11;87:13,14; 102:13;103:8;104:14,24 needs (3) 9:22;17:11;18:6 New (11) 20:23;22:11,19;42:23; 70:24;74:24;77:19;85:4; 92:4,5;95:17 Newington (13) 17:9,10;18:18,20;
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3 lighting (11) 69:15;72:15;73:2,9; 74:1;78:8;79:6,10,12; 82:8,12 likely (3) 60:9,12;77:8 limited (2) 8:1;66:9 Line (8) 22:2;32:3;37:2,12; 56:1,5,9,12 Lines (1) 56:21 listed (1) 20:19 litigation (2) 48:24;49:3 litigious (1) 49:4 little (8) 17:24;53:16;61:5;	low (1) 33:22 lower (1) 46:17  M  Madam (3) 6:1;69:22;103:10 magnitude (2) 64:20;84:13 maintenance (1) 98:14 major (1) 63:2 majority (1) 69:16 makes (4) 25:7,8;95:23;98:11 making (7) 10:17;21:19;28:18; 43:8;89:18;94:22;98:24 management (6) 24:23;25:5;32:7;48:7, 14;61:11 mandates (1) 26:2	39:17 May (19) 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22; 104:4;105:1 maybe (6) 32:11;41:10,13;50:14; 70:14;101:22 McCluskey (22) 50:24;51:4,7,11; 52:13,16;53:21;55:3,24; 56:20;58:4,18,22;60:23; 63:4,13,18;65:16,24; 70:8;88:4;102:6 McCluskey's (1) 101:5 mean (10) 19:7,13;26:11;37:6, 15;61:10;84:2;86:14; 90:1;96:14 meaning (2) 26:6;98:13 measure (3) 24:12;73:18;80:4 measures (3)	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1) 92:22 minimize (1) 63:23 minimum (1) 7:22 minor (1) 56:3 minutes (1) 49:4 missing (1) 86:15 MMBtu (1) 72:10 mode (1) 26:24 Moffatt (2) 68:9,10 moment (5) 52:4;56:11;58:16; 92:19;102:9 money (3)	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14, 18,20;95:4,5,15,18; 97:17,20;98:10,18 NB (1) 17:17 necessarily (2) 25:18;88:8 necessary (1) 93:4 need (12) 7:4;29:23;47:17;52:7; 61:22;63:11;87:13,14; 102:13;103:8;104:14,24 needs (3) 9:22;17:11;18:6 New (11) 20:23;22:11,19;42:23; 70:24;74:24;77:19;85:4; 92:4,5;95:17 Newington (13) 17:9,10;18:18,20; 19:18,19;22:19;30:15;
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3 lighting (11) 69:15;72:15;73:2,9; 74:1;78:8;79:6,10,12; 82:8,12 likely (3) 60:9,12;77:8 limited (2) 8:1;66:9 Line (8) 22:2;32:3;37:2,12; 56:1,5,9,12 Lines (1) 56:21 listed (1) 20:19 litigation (2) 48:24;49:3 litigious (1) 49:4 little (8) 17:24;53:16;61:5; 89:14;95:17;101:3,7,12	low (1) 33:22 lower (1) 46:17  M  Madam (3) 6:1;69:22;103:10 magnitude (2) 64:20;84:13 maintenance (1) 98:14 major (1) 63:2 majority (1) 69:16 makes (4) 25:7,8;95:23;98:11 making (7) 10:17;21:19;28:18; 43:8;89:18;94:22;98:24 management (6) 24:23;25:5;32:7;48:7, 14;61:11 mandates (1) 26:2 mandatory (1)	39:17 May (19) 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22; 104:4;105:1 maybe (6) 32:11;41:10,13;50:14; 70:14;101:22 McCluskey (22) 50:24;51:4,7,11; 52:13,16;53:21;55:3,24; 56:20;58:4,18,22;60:23; 63:4,13,18;65:16,24; 70:8;88:4;102:6 McCluskey's (1) 101:5 mean (10) 19:7,13;26:11;37:6, 15;61:10;84:2;86:14; 90:1;96:14 meaning (2) 26:6;98:13 measure (3) 24:12;73:18;80:4 measures (3) 74:19;79:1;103:14	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1) 92:22 minimize (1) 63:23 minimum (1) 7:22 minor (1) 56:3 minutes (1) 49:4 missing (1) 86:15 MMBtu (1) 72:10 mode (1) 26:24 Moffatt (2) 68:9,10 moment (5) 52:4;56:11;58:16; 92:19;102:9 money (3) 25:15;84:2;85:19	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14, 18,20;95:4,5,15,18; 97:17,20;98:10,18 NB (1) 17:17 necessarily (2) 25:18;88:8 necessary (1) 93:4 need (12) 7:4;29:23;47:17;52:7; 61:22;63:11;87:13,14; 102:13;103:8;104:14,24 needs (3) 9:22;17:11;18:6 New (11) 20:23;22:11,19;42:23; 70:24;74:24;77:19;85:4; 92:4,5;95:17 Newington (13) 17:9,10;18:18,20; 19:18,19;22:19;30:15; 31:4;54:15;55:4,10;
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3 lighting (11) 69:15;72:15;73:2,9; 74:1;78:8;79:6,10,12; 82:8,12 likely (3) 60:9,12;77:8 limited (2) 8:1;66:9 Line (8) 22:2;32:3;37:2,12; 56:1,5,9,12 Lines (1) 20:19 litigation (2) 48:24;49:3 litigious (1) 49:4 little (8) 17:24;53:16;61:5; 89:14;95:17;101:3,7,12 live (1)	low (1) 33:22 lower (1) 46:17  M  Madam (3) 6:1;69:22;103:10 magnitude (2) 64:20;84:13 maintenance (1) 98:14 major (1) 63:2 majority (1) 69:16 makes (4) 25:7,8;95:23;98:11 making (7) 10:17;21:19;28:18; 43:8;89:18;94:22;98:24 management (6) 24:23;25:5;32:7;48:7, 14;61:11 mandates (1) 26:2 mandatory (1) 85:22	39:17 May (19) 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22; 104:4;105:1 maybe (6) 32:11;41:10,13;50:14; 70:14;101:22 McCluskey (22) 50:24;51:4,7,11; 52:13,16;53:21;55:3,24; 56:20;58:4,18,22;60:23; 63:4,13,18;65:16,24; 70:8;88:4;102:6 McCluskey's (1) 101:5 mean (10) 19:7,13;26:11;37:6, 15;61:10;84:2;86:14; 90:1;96:14 meaning (2) 26:6;98:13 measure (3) 24:12;73:18;80:4 measures (3) 74:19;79:1;103:14 mechanism (1)	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1) 92:22 minimize (1) 63:23 minimum (1) 7:22 minor (1) 56:3 minutes (1) 49:4 missing (1) 86:15 MMBtu (1) 72:10 mode (1) 26:24 Moffatt (2) 68:9,10 moment (5) 52:4;56:11;58:16; 92:19;102:9 money (3) 25:15;84:2;85:19 monitor (1)	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14, 18,20;95:4,5,15,18; 97:17,20;98:10,18 NB (1) 17:17 necessarily (2) 25:18;88:8 necessary (1) 93:4 need (12) 7:4;29:23;47:17;52:7; 61:22;63:11;87:13,14; 102:13;103:8;104:14,24 needs (3) 9:22;17:11;18:6 New (11) 20:23;22:11,19;42:23; 70:24;74:24;77:19;85:4; 92:4,5;95:17 Newington (13) 17:9,10;18:18,20; 19:18,19;22:19;30:15; 31:4;54:15;55:4,10; 95:16
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3 lighting (11) 69:15;72:15;73:2,9; 74:1;78:8;79:6,10,12; 82:8,12 likely (3) 60:9,12;77:8 limited (2) 8:1;66:9 Line (8) 22:2;32:3;37:2,12; 56:1,5,9,12 Lines (1) 20:19 litigation (2) 48:24;49:3 litigious (1) 49:4 little (8) 17:24;53:16;61:5; 89:14;95:17;101:3,7,12 live (1) 66:14	low (1) 33:22 lower (1) 46:17  M  Madam (3) 6:1;69:22;103:10 magnitude (2) 64:20;84:13 maintenance (1) 98:14 major (1) 63:2 majority (1) 69:16 makes (4) 25:7,8;95:23;98:11 making (7) 10:17;21:19;28:18; 43:8;89:18;94:22;98:24 management (6) 24:23;25:5;32:7;48:7, 14;61:11 mandates (1) 26:2 mandatory (1) 85:22 manner (3)	39:17 May (19) 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22; 104:4;105:1 maybe (6) 32:11;41:10,13;50:14; 70:14;101:22 McCluskey (22) 50:24;51:4,7,11; 52:13,16;53:21;55:3,24; 56:20;58:4,18,22;60:23; 63:4,13,18;65:16,24; 70:8;88:4;102:6 McCluskey's (1) 101:5 mean (10) 19:7,13;26:11;37:6, 15;61:10;84:2;86:14; 90:1;96:14 meaning (2) 26:6;98:13 measure (3) 24:12;73:18;80:4 measures (3) 74:19;79:1;103:14 mechanism (1) 86:8	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1) 92:22 minimize (1) 63:23 minimum (1) 7:22 minor (1) 56:3 minutes (1) 49:4 missing (1) 86:15 MMBtu (1) 72:10 mode (1) 26:24 Moffatt (2) 68:9,10 moment (5) 52:4;56:11;58:16; 92:19;102:9 money (3) 25:15;84:2;85:19 monitor (1) 77:13	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14, 18,20;95:4,5,15,18; 97:17,20;98:10,18 NB (1) 17:17 necessarily (2) 25:18;88:8 necessary (1) 93:4 need (12) 7:4;29:23;47:17;52:7; 61:22;63:11;87:13,14; 102:13;103:8;104:14,24 needs (3) 9:22;17:11;18:6 New (11) 20:23;22:11,19;42:23; 70:24;74:24;77:19;85:4; 92:4,5;95:17 Newington (13) 17:9,10;18:18,20; 19:18,19;22:19;30:15; 31:4;54:15;55:4,10; 95:16 next (9)
life (1) 99:1 Light (1) 41:15 lightbulb (2) 76:2,3 lighting (11) 69:15;72:15;73:2,9; 74:1;78:8;79:6,10,12; 82:8,12 likely (3) 60:9,12;77:8 limited (2) 8:1;66:9 Line (8) 22:2;32:3;37:2,12; 56:1,5,9,12 Lines (1) 20:19 litigation (2) 48:24;49:3 litigious (1) 49:4 little (8) 17:24;53:16;61:5; 89:14;95:17;101:3,7,12 live (1)	low (1) 33:22 lower (1) 46:17  M  Madam (3) 6:1;69:22;103:10 magnitude (2) 64:20;84:13 maintenance (1) 98:14 major (1) 63:2 majority (1) 69:16 makes (4) 25:7,8;95:23;98:11 making (7) 10:17;21:19;28:18; 43:8;89:18;94:22;98:24 management (6) 24:23;25:5;32:7;48:7, 14;61:11 mandates (1) 26:2 mandatory (1) 85:22	39:17 May (19) 6:16,24;12:6;14:15; 28:13;29:2;37:23;44:7, 8;47:4,11;77:3;79:2; 92:23;93:2;102:15,22; 104:4;105:1 maybe (6) 32:11;41:10,13;50:14; 70:14;101:22 McCluskey (22) 50:24;51:4,7,11; 52:13,16;53:21;55:3,24; 56:20;58:4,18,22;60:23; 63:4,13,18;65:16,24; 70:8;88:4;102:6 McCluskey's (1) 101:5 mean (10) 19:7,13;26:11;37:6, 15;61:10;84:2;86:14; 90:1;96:14 meaning (2) 26:6;98:13 measure (3) 24:12;73:18;80:4 measures (3) 74:19;79:1;103:14 mechanism (1)	61:18,19;86:3,4 mind (2) 57:15;62:17 minds (1) 77:7 minimal (1) 92:22 minimize (1) 63:23 minimum (1) 7:22 minor (1) 56:3 minutes (1) 49:4 missing (1) 86:15 MMBtu (1) 72:10 mode (1) 26:24 Moffatt (2) 68:9,10 moment (5) 52:4;56:11;58:16; 92:19;102:9 money (3) 25:15;84:2;85:19 monitor (1)	name (3) 23:4;51:10,11 natural (17) 10:17;17:11;18:16; 30:22;33:6;60:8;94:14, 18,20;95:4,5,15,18; 97:17,20;98:10,18 NB (1) 17:17 necessarily (2) 25:18;88:8 necessary (1) 93:4 need (12) 7:4;29:23;47:17;52:7; 61:22;63:11;87:13,14; 102:13;103:8;104:14,24 needs (3) 9:22;17:11;18:6 New (11) 20:23;22:11,19;42:23; 70:24;74:24;77:19;85:4; 92:4,5;95:17 Newington (13) 17:9,10;18:18,20; 19:18,19;22:19;30:15; 31:4;54:15;55:4,10; 95:16

	ZOI I ODLIC SERVICE (	OWII ANT OF M.II. Leas	t Cost integrated Resourc	Le I Ian
51:1;62:8;91:8;102:18;	odd (1)	77:18;102:12	12,19;58:7,10,20,22;	28:4
105:15	23:20	opportunity (4)	60:24;72:19,20;73:1;	performance (2)
nice (1)	off (8)	28:23;100:20;104:1,	83:8;84:15	73:10;85:3
38:10	5:14;36:17;39:17,20,	11	pages (1)	performed (1)
non-Continuing (1)	24;96:14;102:8,10	oppose (4)	15:18	100:7
101:5	offered (3)	28:9;49:19;50:6,15	paid (1)	perhaps (6)
none (1)	13:22;19:17;28:3	opposed (3)	91:3	19:2;21:22;62:15;
6:22	offering (2)	30:3;40:12;44:13	panel (3)	65:5;76:8;101:20
non-electric (30)	21:4;27:12	option (1)	67:21;103:13,15	period (3)
59:19,24;60:4,11,15,	Office (6)	45:2	paragraph (4)	82:3;85:1;100:13
19;62:1,10;63:19;64:5,	28:6,9;32:14;35:17;	options (4)	24:21;25:21;32:6;47:1	periods (1)
16,20,24;65:2,9;71:21,	39:13;50:12	22:23;40:24;43:2;	parameters (1)	91:16
24;72:7;79:1;83:21;	offices (1)	49:21	7:11	permission (1)
84:18,22,24;86:9;87:18;	7:2	order (9)	parentheses (1)	87:11
88:22;89:8,21;90:3;91:2	oil (1)	12:22;13:21;22:4;	56:6	permitted (2)
non-fuel (1)	60:9	31:12;46:7;65:20;78:3;	part (11)	10:22,23
63:3	omitted (1)	88:23;97:12	9:23;11:2;25:22;	person (1)
non-Newington (2)	54:8	ordered (1)	31:12;32:20;58:6;72:16;	16:22
55:18;56:1	one (42)	67:1	91:18;97:7,10;104:2	personal (2)
normally (1)	10:13;14:4;17:24;	orders (1)	participants (2)	28:12;52:14
33:9	19:9,13,14,15;20:19;	89:12	60:10;76:20	personally (2)
noted (2)	21:2;36:14;40:19;41:23;	others (2)	participate (2)	86:18;87:5
10:4;38:14	43:20,22;45:12;54:5;	41:9;56:10	47:4;81:24	petitioner (1)
notes (1)	55:9;56:11,23;58:16;	Otherwise (1)	participation (3)	104:1
9:6	62:5;71:12;72:9,10;	63:11	9:16;33:22;86:21	<b>petitions (1)</b> 103:24
<b>notice (1)</b> 19:6	77:12;78:12;83:13; 84:20;85:6;91:2;93:20;	ought (2) 24:4;25:16	particular (12) 21:2;25:21;42:8;	phase (1)
Notwithstanding (1)	94:8;95:11;97:11;99:10,	out (24)	44:18;59:1,4;72:16,19;	92:8
12:4	11,22;103:18,19,19;	6:23;7:3;12:2;23:6;	73:11,15;89:7;94:13	phrases (1)
NU (1)	104:6,10	27:17;29:9;33:9,11;	pass (1)	9:10
17:4	one-cent (1)	34:1,1;45:11;46:13;	26:18	picture (1)
number (9)	37:22	62:5;65:3;69:6;84:16;	passage (1)	89:9
10:6;14:11;19:3,9,10,	ones (1)	86:2;93:3,17,23;95:17;	73:8	pieces (1)
12;42:23;69:1;101:24	82:18	97:9,21;101:14	passed (1)	101:12
numbers (2)	ongoing (2)	outage (1)	93:5	pilot (1)
33:24;86:1	12:23;48:23	98:14	past (4)	90:14
Numeral (1)	only (9)	outside (3)	12:13;13:13;14:3;74:9	pipe (1)
8:2	17:18;21:8;40:21;	25:15;26:14,17	Patch (2)	92:17
_	44:1;49:7;61:18;63:9;	outstrip (1)	65:21,23	pipeline (1)
O	95:5;101:6	84:22	pay (4)	18:5
	open (1)	over (11)	27:10,11;34:2,7	place (1)
object (2)	104:2	15:2;48:12;61:18;	paying (1)	51:10
23:18;27:22	opens (1)	78:15,19,24;85:1,11;	38:3	plan (58)
objecting (1)	105:10	91:16;99:1;100:13	penalize (1)	7:5,24;8:3;9:1,4,13;
13:16	operate (4)	overall (2)	93:22	10:12,20;13:6;23:16;
obvious (1)	23:15;92:12;98:5,22	65:7;88:21	pending (1)	24:5,10,15;30:10,16;
77:3	Operation (1) 31:6	overlaps (1) 27:7	88:10	31:11,12;32:11,21;35:1;
obviously (8)	Operations (9)	own (5)	<b>people (10)</b> 5:12;7:2;33:22;34:1,5,	36:1;40:4;43:9;45:9,11; 55:10;61:11,14,20;
39:8;61:21;69:14; 84:11;86:17;90:16;	29:24;30:5,12,14;	37:17,17;52:14;92:11,	7,12;97:19;103:8;	62:12;63:23;64:6,21;
94:15;102:17	31:3,10;55:5,11;101:6	11	105:11	66:8,13;67:3,16,20,23;
OCA (14)	opine (3)	owner/operator (1)	per (1)	70:18;80:4,12;83:11;
27:19;28:13,20;29:12,	11:11;13:20;28:7	17:16	48:7	84:5;89:16;96:13;97:8,
13,17,18;37:12,14,15;	opines (1)	1	percent (12)	11,16;98:9,17,18,24;
49:19;50:5,11,15	28:21	P	36:4,5,8;37:24;39:18;	99:1,4;100:4,6,14
OCA's (1)	opining (1)		40:1;41:16;65:1;78:16,	planning (44)
35:16	27:23	page (42)	17,19,24	7:11,15;8:13,24;9:7;
occur (3)	opinion (4)	16:7,13,18,19;17:6,7;	percentage (2)	10:3,9;12:16,19;21:12;
36:2;37:7;50:3	14:18;16:2;18:6;95:7	18:12;20:6,6,9;21:3,6,	68:23;78:23	22:3,7;23:15;26:8;35:2;
occurs (2)	opinions (1)	24;22:2;24:19;32:3;	Peress (6)	36:13;37:13;42:19;44:2;
37:16;44:5	85:15	33:3,17;37:2,11;38:14,	5:24;6:1,8,13;69:21,	45:4,13;51:24;55:22;
October (1)	opportunities (5)	24;42:17;43:12,12;	22	63:21,22;65:11;71:2;
54:21	40:12;44:20;45:10;	46:21;47:1;48:2,6;56:5,	perfectly (1)	78:6;82:3;85:13;88:13;
	I .	İ	İ	İ

DE 10-201 PUBLIC SERVICE COMPANY OF N.H. Least Cost Integrated Resource Plan				
89:2,3,4,24;90:1,7,17;	63:9,17	profitability (1)	provision (2)	24:12
91:15;92:5,19;95:7,9;	prepared (5)	95:2	67:6,18	quantity (1)
100:15	48:13;53:7;56:6,9;	profitable (1)	provisions (1)	19:1
Plans (10)	77:20	17:21	67:5	quick (1)
66:17;67:10;70:9,13,	present (2)	program (30)	prudent (5)	97:6
15;71:1,4,6;90:18;99:18	49:2;101:16	33:23;59:5,17,17,19;	29:22;34:18;35:24;	quite (1)
	49:2;101:16 presentation (2)		93:18;94:2	44 47:8
plant (5)		71:20;74:11;75:5;76:11,		
17:20;30:14;31:1;	101:21;104:3	14,17,17,24;77:2,3,5,9,	prudently (1)	quote (5)
97:14;99:2	presented (1)	14;79:4,16,21;80:8;81:1,	50:16	9:1;18:14,18,21;56:8
plants (16)	56:2	4,6,12,19;85:3,4;88:14	PSNH (55)	R
9:18,23;10:17;23:16;	presently (1)	programs (40)	9:17;10:21;12:6,9;	R
31:3,7;49:22;92:12;	48:24	57:2,4;59:10,24;60:4,	14:23;15:12;16:20;17:4;	. (1)
94:17;95:2,5;97:14;	presumably (1)	7,11,19;62:18,22;63:3;	18:1,7,10;20:23;22:24;	raise (1)
98:5,12;99:7;100:10	44:24 D 4 : 1 (2)	64:2,12,24;65:3,7;74:1;	23:7,13;24:14,22;25:1,	41:19
please (8)	Pretrial (2)	75:7,18;76:21;79:7;	15;26:1,9,13;27:7,13;	raised (6)
8:17;11:6;21:18;	53:20,23	80:19;81:22;83:1,20;	29:6;32:10;38:24;39:16;	9:20;42:17;64:21;
45:19;47:12;48:11;	pretty (1)	85:3;86:11,21;87:1,8,18,	40:13,23;43:2,15,24;	80:16;82:15,16
57:17;58:16	37:1	22;88:6,19;89:14,20;	46:5,6,21;47:4;48:24;	raising (3)
pm (1)	previous (3)	90:15;91:1,2,6	49:22;67:21;68:21;69:6,	87:16;91:13;95:1
105:17	10:2,24;82:18	programs' (1)	12;76:12;78:5;85:7;	ramifications (1)
point (11)	price (9)	79:8	90:9;92:10;95:14,22;	36:2
5:9;6:12;19:2;21:16,	37:21;46:14;75:1,6;	project (3)	96:4,18;97:18,24;103:22	ramp-up (1)
18;28:24;29:19;62:5;	94:18,20;97:17,20,22	39:9;82:20;96:10	PSNH's (20)	84:23
79:7;91:12;101:11	prices (11)	projected (3)	21:12;22:10,13;24:24;	Ran (1)
policy (3)	36:15;40:15;94:14,21;	78:21;81:18;95:22	31:1;32:7,9,16;36:6;	23:3
89:19;90:12,22	95:20,21;96:11;97:9;	projecting (3)	37:17;38:15;39:24;	range (1)
pool (2)	98:10,19;100:8	94:14;97:8,10	41:14;42:10;45:24;48:4;	39:24
37:19;38:1	pricing (3)	projection (3)	55:12;91:24;94:22;96:4	ranging (1)
portfolio (2)	10:16;22:22;51:24	37:8;71:13;97:13	Public (13)	17:11
94:23;95:19	primary (2)	projections (3)	19:20,21;23:7;32:2;	rapid (1)
portion (2)	59:21;63:20	77:24;97:19,20	34:18;35:8;41:2;42:1;	91:1
54:16;74:10	principally (1)	promote (1)	51:12;83:12;97:7;100:7;	rapidly (2)
position (8)	51:23	74:21	101:10	39:22;63:1
24:24;27:19;28:15,23;	principles (1)	promoted (1)	publishing (1)	rate (7)
29:13;32:9;51:13;85:18	63:16	74:18	97:22	35:6,9;36:9;37:23;
positions (2)	prior (2)	promotion (1)	PUC (1)	39:22;40:13;67:1
105:5,11	61:7;66:16	74:4	103:22	ratemaking (1)
positive (1)	pro (1)	promptly (1)	purchase (5)	51:23
5:11	25:7	5:3	33:9;97:19,23;98:3;	ratepayers (9)
possibility (1)	problem (2)	proof (1)	99:9	12:22;13:4;14:24;
5:15	5:15;41:7	103:23	purchases (5)	22:5;31:14;46:15;69:13;
possible (4)	procedurally (1)	proper (1)	79:16;95:23,24;99:1,	93:2,12
6:16;31:8;36:2;56:23	5:9	12:15	21	ratepayers' (1)
possibly (1)	proceeding (12)	proposal (2)	purchasing (2)	14:22
102:20	11:1;14:14;30:7;	20:11,14	17:5;99:19	rates (14)
potential (21)	67:11;73:16;75:12;80:3;	propose (3)	purpose (5)	26:10;34:3,8,11,15,16,
26:15;33:19;36:12;	91:13;97:2;103:11,23;	35:4;76:20;87:10	21:8;28:18;49:2;60:5;	22;35:3,20,22;36:3;
43:1;46:11;50:2;57:1;	105:15	proposed (6)	103:16	90:21;93:7;100:10
61:6,7,8,10;73:24;74:16;	proceedings (3)	29:11;35:4;41:10;	purposes (7)	rather (2)
78:15,18;80:9,15,15;	80:19;81:24;89:13	83:11;85:12;93:5	24:11;27:23;30:15;	46:5,12
82:24;87:7;93:13	process (7)	proposing (3)	42:3;44:2;45:4,13	ratio (4)
potentially (4)	9:7;22:3,7;46:1,7;	79:7;81:5;84:17	put (9)	64:10;65:5;88:16,23
19:8;27:9,14;29:8	48:6;80:1	protect (1)	19:24;33:9;38:18;	read (14)
Power (5)	produce (2)	22:4	46:13;70:11;99:12;	5:13;9:10;12:2;15:23;
40:20;41:15;94:21;	61:23;87:1	proven (1)	103:12,15;104:5	17:13,23;25:2,11;46:9;
95:2,21	produced (1)	27:20	putting (2)	47:24;48:1,15;49:6;
practice (3)	60:3	provide (4)	33:11;44:10	56:15
33:8,14;65:11	producing (1)	7:22;40:10;48:11;	_	readily (1)
preceding (1)	94:21	64:17	Q	23:14
10:13	product (1)	provided (4)		reading (4)
preferable (2)	74:22	47:6;49:7,10;68:2	Q-Tech-014 (2)	7:24;8:2;12:5;17:22
33:10,12	professional (2)	provides (1)	15:19;16:9	reads (1)
prefiled (2)	51:17;55:17	12:9	quantifiable (1)	56:12
		1	1	<u> </u>

	ZOTT CEETC SERVICE V	JOHN THE OT THE ECUS	Tool integraced resourt	
ready (2)	45:23	regional (2)	required (11)	76:18;78:5
18:5;58:4	recommended (2)	95:19;96:19	7:12;8:6;9:17;10:21;	retail (1)
real (2)	30:10;71:7	region's (1)	11:3;17:9;31:9,16;	12:8
41:7;93:6	recommending (1)	96:21	70:24;77:22;91:19	retained (1)
realistic (1)	22:18	regulation (5)	requirement (1)	27:22
100:11	reconciled (1)	27:15;51:22;85:14;	30:13	retired (1)
realize (1)	103:21	92:8;100:3	requirements (4)	96:3
34:19	record (9)	regulations (16)	7:18;9:2;68:1,3	retirement (6)
realized (1)	7:4;15:12;23:12,22,	21:5;25:10;26:16;	requires (1)	11:1,13;13:2;22:23;
81:18	22;24:1;39:19;102:8,10	48:10;85:12,21;91:23;	7:16	49:21,24
realizing (1)	records (1)	92:9,13,18,22;93:4,16,	requiring (1)	return (2)
64:19	48:11	21,23;94:1	73:13	6:13;86:12
really (10)	recover (1)	regulator (1)	reschedule (1)	returning (1)
47:9;62:6;72:11;80:4,	26:22	87:11	5:18	6:3
16;83:13,15;90:11;	recoverable (1)	regulators (1)	Resident (1)	revenues (1)
92:10;96:18	94:3	62:14	40:20	84:6
reason (4)	recovered (2)	regulatory (9)	residential (25)	review (5)
34:4;60:2;96:10;101:2	29:14;37:18	9:8,14;22:8,21;23:1;	36:3,8;38:2;40:10,16,	32:11;66:16;71:4;
reasonable (5)	recovery (2)	24:12;50:3;91:21;93:13	17,24;41:11,17;59:2,5;	85:24;91:15
40:2;74:9;77:6;98:21,	12:10;50:15	relate (2)	61:2,17;71:13,19,24;	reviewed (2)
23	redaction (1)	60:8;66:22	72:15;74:3,8,11,17;79:5;	67:4,7
reasonably (9)	54:6	related (6)	80:5,10;85:5	reviews (5)
8:12;9:8,11,13;22:8,	Redactions (1)	27:4;44:13;45:24;	resolved (1)	7:20;8:18;20:16;22:1;
21;23:1;26:15;27:16	54:1	47:6;51:19;55:9	42:20	25:13
reasons (1)	redirect (4)	relates (3)	Resource (12)	right (25)
59:21	45:17,20;100:20;	54:14;82:11;87:18	9:4;51:24;55:10,21;	5:23;6:10;7:3;12:4;
rebate (11)	102:2	relation (1)	64:10;65:4;66:17;67:16;	21:1;31:1,20;36:18;
75:5,10,15;76:17;	reduce (1)	73:2	71:4;80:12;90:18;92:4	39:21;41:24;44:12;
77:3,5;79:4,15;80:7;	43:4	relationship (2)	resources (3)	45:14;51:3;54:18;56:23;
81:1,6	reduces (1)	88:12,15	21:7;95:15;96:1	58:4;71:19;88:10;91:14;
rebated (1)	88:20	relative (1)	respect (2)	94:8,11,15;101:17;
76:1	reducing (1)	73:21	10:8;67:2	102:1,5
rebates (4)	90:21	relevance (2)	respectively (1)	rightfully (1)
74:21;77:11,15;81:14	refer (3)	14:12;30:8	53:13	43:15
rebut (1)	11:6,16;59:18	remind (1)	respond (5)	right-hand (1)
103:13	reference (5)	63:7	14:2;75:9;96:8;103:9;	72:1
rebuttal (8)	11:5,10,16;21:18;	renewable (2)	104:15	rightie (1)
15:5,12;24:8;42:10;	67:14	33:23;34:3	responded (1)	52:13
43:5;57:14;63:9,16	referred (2)	repeat (1)	43:5	rigorous (1)
recall (14)	54:16;61:8	29:3	responding (1)	22:12
16:17;44:9;46:2; 49:13,22;66:9,11,14;	referring (10) 8:19;22:2;48:3,4;	replacing (1) 76:3	103:16	rise (1) 93:7
		report (3)	response (23) 13:17;18:10;34:6;	
68:4,4;70:20;78:2,22; 84:9	60:22,24;72:16;73:1; 75:22;91:22	77:23;78:1;105:14	38:15,17,24;42:9,11;	rising (2) 61:16:62:6
receive (1)	refers (1)	Reporter (1)	43:24;48:17,18;49:10,	risk (4)
87:7	61:13	51:6	12;57:8,9;59:15,20;	95:6,10;96:6,23
received (3)	refined (1)	reporting (1)	60:14;63:15;77:8;81:20;	risks (1)
42:22;59:15;75:3	90:11	80:9	82:13;84:10	96:17
receiving (1)	reflect (1)	representing (1)	responses (4)	robust (3)
89:10	100:15	28:6	57:21;58:15;66:5;75:2	21:14;22:4,18
recent (3)	reflected (2)	Repsol (1)	responsible (2)	Roman (1)
10:8;43:19,23	39:4;74:15	17:16	20:1;38:3	8:2
recently (1)	regard (6)	request (6)	restate (2)	roughly (1)
67:16	48:8;55:18,22;66:6;	19:5;47:18,21;57:8;	63:12;105:11	51:18
recognize (3)	81:2;82:10	103:12;104:3	re-statement (1)	route (1)
52:16,23;80:12	regarded (1)	requested (1)	63:8	30:4
recollect (2)	63:22	59:16	result (6)	RSA (4)
12:17;19:23	regarding (1)	requester (1)	13:4;35:14;37:24;	12:4;66:24;67:5,9
recollection (1)	73:9	16:22	49:4;59:7;73:7	rule (8)
13:12	regards (4)	requesting (1)	resulting (1)	10:24;20:12,18,21,23;
recommend (1)	10:7,15;50:1;100:7	34:21	95:20	29:11,12;103:22
31:5	Region (3)	require (4)	results (5)	ruled (1)
recommendations (1)	5:19;96:7,20	13:9;14:20;21:6;86:18	32:19;37:22;46:16;	13:13
				<u> </u>

		Total Time Deals		T
run (7)	8:17;16:18,19;70:12;	sessions (1)	19:3,9,12,14,15;37:19,	35:18;38:5
13:5;72:3;97:15;	101:18	25:21	19;38:1	spoken (1)
98:13,13;99:3,8	secretarial (1)	set (7)	sold (1)	103:14
runs (1)	8:20	25:1;32:9,15;47:21;	96:3	spread (3)
99:14	section (1)	52:10;64:12;87:1	<b>Sole (5)</b>	35:8,12,15
	12:1	several (1)	16:21;18:7;33:8;	St (1)
${f S}$	Sector (4)	57:10	45:24;103:16	17:17
-	61:6;74:3,8;80:5	shall (5)	somebody (1)	Staff (19)
sadly (1)	Security (2)	8:1;58:11;67:1,12;	46:13	52:17,24;53:5,6,13;
66:9	73:3,9	104:1	somehow (2)	54:8,9,10,13,19,21,22;
sailed (1)	seeing (4)	share (2)	40:8,8	56:2;57:8,24;58:3;71:9;
17:20	36:15;90:24;92:20;	93:6,10	somewhere (2)	72:24;83:8
sake (1)	105:7	Shell (1)	33:24;69:2	Staff's (2)
39:19	seek (2)	17:24	soon (1)	6:19;101:21
sales (2)	84:12;87:10	shifting (2)	31:8	stand (3)
76:9;78:21	seeking (1)	41:3,7	sophisticated (1)	5:5;100:13;102:24
same (9)	76:18	short (1)	99:15	standard (14)
37:1,1,5,11;54:2,12;	seem (3)	25:24	sorry (7)	27:17,18;29:9,10;
72:12;76:4;97:6	40:1;64:4;76:22	shorter (2)	11:19;13:15;15:9;	33:8,14;64:11;65:10;
satisfaction (1)	seemed (1)	26:5;99:20	21:17;29:3;103:5,7	73:17;74:5,12,24;88:16;
65:14	24:9	short-term (1)	sort (4)	90:4
satisfied (1)	seems (5)	19:6	16:14;49:20;66:6;	standards (19)
41:23	18:9;23:20;46:10;	show (2)	89:17	7:12,17;8:10;9:12;
savings (51)	81:12;86:13	15:17;47:16	sorts (1)	72:14;73:10,13,19,20;
57:1;59:6,11,24;60:3,	segment (1)	showing (3)	45:10	76:10;78:8;82:2,4,5,7,
5,8,18;61:2,24;62:1,8,	101:9	39:14;60:1;84:20	sought (1)	11,15,22;91:21
10,23;63:3,19;64:5,15,	select (1)	shown (4)	14:24	standpoint (2)
16;65:2,9;71:14,16,24;	46:7	17:24;39:23;59:8;	sound (1)	73:15;90:22
72:4,6;73:18,21,24;74:3,	selecting (1)	71:17	9:7	Star (1)
10,17;75:17,19;76:5,6,	88:18	shows (2)	Source (5)	85:6
12;77:1;78:15,18;80:15,	send (1)	36:12;71:19	16:21;33:8;45:24;	start (3)
21;81:18;82:19,24;	102:18	side (1)	84:1;87:4	20:20;79:24;105:14
83:10,21;86:20;88:22;	sense (1)	64:14	sources (1)	starting (1)
89:8;90:2	105:13	significance (1)	90:3	34:14
saw (1)	sensitivity (1)	83:15	sourcing (1)	state (5)
40:14	25:8	significant (13)	18:7	8:4;66:20;68:24;89:5;
saying (16)	sent (1)	59:13;61:17,19;62:7,	speak (3)	92:8
12:14;14:17;21:9;	79:23	22;64:22;65:5;84:23;	50:10;63:11;95:11	statement (4)
36:11;37:5;39:16;46:4,	sentence (4)	87:15,17;91:18;95:15;	speaks (1)	13:17;24:4;28:19;66:8
6;62:20;66:11,15;78:3;	24:21;26:3;32:22;	96:1	23:22	statements (1)
84:15;98:20;103:19,20	47:10	significantly (2)	specific (6)	38:22
SBC (3)	separately (1)	62:17;84:17	12:1;33:7;50:2;63:23;	states (3)
42:3;44:14,16	101:23	similar (3)	82:10;88:13	17:7;48:17;51:20
scenario (8)	September (4)	77:24;78:3;82:8	specifics (1)	static (1)
37:13;38:16;39:1;	20:15;53:23;54:20;	simply (3)	21:5	66:13
61:9,10,13;62:4;95:13	100:23	62:4;76:8;87:20	speculating (1)	station (3)
scenarios (2)	serve (2)	single (2)	59:12	17:10;19:18;34:23
22:22;23:9	18:19,23	18:16;33:5	speed (1)	station's (1)
scene (2)	service (31)	sister (1)	75:9	17:10
40:20,21	9:17,18,22;19:20,21;	41:14	<b>SPEIDEL</b> (18)	status (1)
scheduling (1)	26:10,18,23;27:2,5,10;	situation (3)	6:18;51:2,9;52:6,9,12;	25:7
102:12	32:2;34:16,19,22;35:3,9,	34:14;91:24;92:2	53:11;54:4,24;55:2;	statute (6)
scheme (2)	20,22;37:20,23;38:2;	six (1)	57:22;58:12;65:12,17;	7:15;9:19;12:5,14;
11:2,12	40:13;41:2;42:1;50:17;	40:22	100:19;101:1,20;102:3	14:4;68:1
Schiller (2)	83:12;93:9;97:7;100:7,9	slant (1)	spend (5)	statutes (4)
22:19;31:10	services (1)	39:20	23:10;83:23;84:17;	14:11;66:22;67:22;
Scott (5)	88:8	Smagula (2)	93:12,15	68:3
36:20,21,24;94:6,7	Service's (1)	24:9;103:17	spending (2)	statutory (2)
scrubber (3)	35:9	Smagula's (3)	22:17;85:19	11:2,12
34:22;35:14;37:21	serving (1)	15:4,24;48:18	spent (7)	Steltzer (4)
searching (1)	68:22	small (3)	25:15;76:13;77:16,16;	68:16,17,20;69:19
25:19	Session (3)	44:1;47:18;75:14	86:1,5,12	step (1)
second (5)	15:19;16:8;105:16	smaller (8)	spiral (2)	61:4
-	1		I	L

DL 10	2011 ebele service v	T	Took integrated Resourt	-
still (8)	53:8	TC2 (1)	Tillotson's (2)	88:20;103:1
5:4;6:12;16:2;18:6;	supplemental (1)	8:19	15:5,24	type (3)
42:17,18;44:1;101:9	53:2	team (6)	times (2)	47:5;78:3;86:11
stimulate (1)	supplier (6)	24:23;25:6;32:7;48:8,	9:24;84:4	types (2)
76:9	18:16;19:8;33:6;	14:98:1	titled (1)	51:23;77:24
		,		
stop (1)	35:11;40:9;46:7	Technical (5)	67:10	typically (3)
36:4	suppliers (12)	15:19;16:8;25:20;	today (7)	19:4;46:16,18
stopped (1)	18:4,19,23;19:3,10,12;	78:14,18	5:9;21:11;28:21;	
103:8	40:10,16,16;41:1,11;	tells (1)	41:21;63:11;104:4,17	$\mathbf{U}$
storage (1)	46:11	84:1	together (2)	
99:12	supply (6)	TenBrok (2)	9:10;38:19	ultimately (1)
storing (1)	9:18;18:5,8;40:24;	16:23,24	took (1)	95:5
99:20	46:1,8	term (8)	19:7	uncertainty (1)
story (1)	supply- (1)	12:24;21:14;25:24;	topped (1)	91:17
91:8	88:18	26:5,5,6;35:18;99:21	39:24	under (7)
strategic (5)	supplying (4)	terms (4)	total (2)	53:7;74:24;79:8;
23:15;25:1;32:9,15,19	9:21;17:18,20;18:1	12:19;29:20;30:21;	64:10;65:4	
				103:22,24;105:9,13
strategy (4)	<b>support</b> (3)	67:20	totally (2)	underlying (1)
48:21;49:1;99:15;	17:9;45:1;50:6	test (6)	33:20;62:3	83:21
100:6	supposed (1)	64:6,11;65:4,9;88:23;	touched (1)	understood (3)
strike (1)	95:8	90:4	84:8	16:14;94:11,15
56:8	sure (7)	testified (2)	towards (1)	uneconomic (1)
studies (7)	14:12;21:15;28:17;	70:16;104:22	95:7	10:18
22:19,24;23:11;30:12;	37:4;38:9;56:7;97:23	testifying (2)	traditional (1)	unfair (1)
31:6;93:3;98:4	surface (1)	19:19;20:1	45:6	89:15
study (13)	92:6	testimonies (1)	traditionally (1)	unfortunately (3)
27:13;29:8,24;30:6,	surprised (1)	104:18	74:18	6:2;31:23;40:6
14;31:3;49:20;55:5,11;	81:8	testimony (61)	transcript (1)	Unit (12)
77:18;78:14;79:3;101:6	surprisingly (1)	15:5,8,10,12,17,24;	18:13	29:23;30:4,5,11,13;
	92:14			
styled (3)		16:5;20:7;21:3,4,19,21;	transport (2)	31:3,6,9;55:5,11;72:8;
52:17,24;53:5	switch (4)	24:8;32:24;37:3;38:14;	20:18,21	101:5
subgroup (2)	77:10;81:5,10,13	41:4,9,19,22;42:10,11;	Traum (25)	United (1)
24:22;32:6	sworn (2)	52:21;53:2,19,21,24;	5:4;7:7,10;8:16;11:10,	51:20
subject (7)	51:5,7	54:17;55:4,16;56:2,20;	23;14:7;15:4,17;16:13,	units (4)
41:15;69:3,4,8,9;	system (1)	57:11,14;58:6,24;59:9,	18;18:3;20:3;21:12;	15:1;22:10;72:8,12
78:13,22	22:17	11;63:8,10,17;65:13;	27:22;28:21;29:2,20;	unknowns (1)
submitted (3)	systems (1)	66:2;70:20;71:5;72:17,	30:5,9;32:4;38:8;45:22;	92:1
53:3;57:7;70:15	25:6	18;74:14;78:10;80:17;	49:17;50:23	unless (1)
Subsequent (3)		94:12;100:23;101:6,23;	Traum's (3)	25:15
12:6;57:13;101:14	T	103:16,17;104:6,9,11,	24:3;28:2,12	unnecessary (1)
substantial (2)		13;105:3	TRC (3)	93:11
34:21;68:23	table (2)	thinking (2)	65:9;88:16,23	unpredictable (1)
substantially (2)	, ,	35:7;37:5	trends (3)	17:12
• • •	20:9,11			
62:21;72:3	tactical (1)	third (5)	39:4;40:4;59:14	unquote (2)
substantively (1)	25:9	16:13;17:6,24;59:8;	truly (1)	9:5;18:19
54:12	tail (1)	61:1	90:19	unreasonable (1)
substation (1)	101:21	though (7)	try (3)	76:22
44:11	talk (9)	14:1;23:6;46:10;	6:24;7:3;34:12	up (21)
sudden (1)	5:10,12;6:22;7:10;	54:14;75:8;81:10;87:14	TS-02 (2)	7:5;10:10;12:13;
39:16	8:24;37:2,3;62:10;89:23	thought (6)	15:19;16:8	19:24;32:3;33:21;34:4,
sufficient (1)	talked (1)	13:7;27:15;34:5;	turn (8)	15,16;35:4;37:20;44:8;
99:13	82:9	40:23;78:11;93:24	20:3,6;24:19;58:7,11;	49:15;63:10;71:14;72:1,
sufficiently (1)	talking (9)	three (6)	93:3,22,23	3;75:8;87:1;101:18;
75:8	19:10;33:17,18;44:8;	10:8;15:18;18:4;31:7;	turned (2)	104:16
suggest (2)	57:3;59:9;77:17;79:10;	40:22;84:4	27:17;95:20	updated (4)
14:7;23:12	86:2	three-page (3)	turns (3)	22:15;53:24;54:3,6
•		16:7,19;57:20	29:9;93:17;95:17	
suggesting (2)	talks (2)			upgrade (1)
24:5;98:1	8:12;9:1	throughout (2)	two (23)	44:22
summarize (1)	tankers (1)	25:5,23	9:10;10:8;18:5;19:15;	upgrades (1)
65:13	17:19	thus (2)	21:7;26:7;48:12;52:5;	44:11
summary (1)	targeted (5)	37:20;43:4	53:12;55:8;56:3,16;	upon (4)
47:8	22:16;44:14,16,21;	Tillotson (2)	57:21;59:13;62:7;66:20;	9:15;29:12;42:11;
	22.10, 11.11,10,21,			
supervision (1)	85:9	24:9;103:18	72:12;84:20,23;85:3,8;	82:19

BL 10	2011 CDEIC BERVICE (	SOMETHINE OF THE ECUS	t cost integrated itesour	
upward (1)	8:3	21:17,18;22:1;23:3,21;		
39:20	voluntarily (2)	25:13;29:21;47:12;		
usage (1)	34:2,7	49:18;51:1;103:19,19		
88:9	voluntary (1)	witnesses (2)		
use (20)	33:23	85:7;99:11		
9:17;18:17;42:3;		witness's (3)		
43:16,18;44:3,13;45:24;	$\mathbf{W}$	13:17;104:10;105:2		
46:6;65:8;69:14;74:22;		wold (1)		
76:16;78:4;79:4,5;81:1;	waivers (1)	18:24		
95:15,16;98:4	10:6	wondered (1)		
used (10)	wall (1)	11:16		
19:1;21:14,15;28:19;	39:13	word (4)		
39:13;64:11,13;72:8;	wants (1)	56:6,9,13,14		
94:24;96:2	23:23	words (2)		
usefulness (2)	was/were (1)	17:23;78:2		
66:7;67:24	51:4	work (6)		
using (5)	wasted (1)	5:21;6:18;7:3,6;51:11;		
24:11;43:20,22;44:16;	93:17	98:2		
90:5	wattage (1)	worked (1)		
usually (1)	76:4	6:23		
38:18 <b>Utilities (9)</b>	way (13) 7:1;17:22;38:17,19;	working (5)		
51:12;66:19;70:16;		51:19;65:20;70:12; 89:1;90:18		
88:18;89:11,20;90:23;	44:19;61:22;81:17;87:5; 88:20;90:24;93:9;94:24;	works (4)		
96:21;97:23	99:23	5:20,21;79:21;102:23		
utility (15)	ways (2)	world (2)		
33:14;50:16;60:7;	41:10;93:19	10:15;30:20		
63:24;64:1,3;67:2,12;	welcome (2)	worth (2)		
70:24;89:4,7;91:18;	6:9;38:8	62:23;87:16		
92:8;96:7;100:2	weren't (3)	writing (2)		
utility-rated (1)	42:5,7;81:9	16:12,16		
51:19	what's (10)			
utilize (1)	7:12;13:11;31:13;	$\mathbf{X}$		
82:23	45:3;64:10;73:6;92:16;			
	100:1,4,14	X-number (1)		
${f V}$	whenever (1)	76:13		
	98:14	-7		
vacation (2)	WHEREUPON (2)	Y		
6:2,7	51:4;105:16			
value (7)	White (4)	year (7)		
64:5,14,16;66:9,13;	18:10,22;19:10,17	25:5,24;26:1,7;48:7;		
75:16;95:1	White's (1)	84:16;86:23		
variable (1)	46:9	years (14)		
10:18	whole (1) 89:2	10:6;28:12;34:20;		
varied (1) 40:4	wholesale (2)	42:23;48:12;50:14;		
various (2)	94:21;95:21	51:18;70:14;79:8;90:5; 91:16;96:12,15;97:10		
52:2;86:20	94.21,93.21 widely (1)	yesterday (10)		
version (1)	17:10	9:21;10:5;41:22;44:5;		
54:7	willing (3)	60:17;63:10;64:9;66:2;		
versions (2)	19:3;34:2,7	67:22;68:5		
53:16;100:22	wisely (1)	07.22,00.3		
versus (1)	77:16			
35:10	within (8)			
viability (2)	10:11;26:1;47:7;			
66:7;67:20	55:16,16;67:13;86:23;			
vicinity (1)	89:5			
33:24	without (4)			
view (3)	23:10;33:6;98:17,17			
14:11;28:12;38:4	witness (23)			
views (1)	5:22;6:19;7:20;8:18;			
105:1	10:5;11:6,24;13:23;			
VII (1)	18:10;19:24;20:16;			