## STATE OF NEW HAMPSHIRE

## PUBLIC UTILITIES COMMISSION

October 22, 2014 - 1:48 p.m.

Concord, New Hampshire

"EARLY" AFTERNOON

SESSION ONLY

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

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

F. Anne Ross, Esq., General Counsel

Sandy Deno - Clerk

## **APPEARANCES:**

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Wilbur A. Glahn, III, Esq. (McLane...

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Rachel A. Goldwasser, Esq. (Orr & Reno)

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Reptg. the Sierra Club: Zachary M. Fabish, Esq.

COURT REPORTER: SUSAN J. ROBIDAS, N.H. LCR NO. 44

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			3
1	INDEX		
2			
3	WITNESS PANEL: TERRANCE J. LARGE		
4	JAMES J. VANCHO		
5			
6	EXAMINATION	PAGE	
7	Cross-examination by Mr. Patch	4	
8	Cross-examination by Ms. Frignoca	44	
9	Cross-examination by Mr. Fabish	65	
10	Interrogatories by Sp. Cmsr. Iacopino	75	
11	Interrogatories by Cmsr. Honigberg	89	
12	Redirect Examination by Mr. Needleman	93	
13			
14	* * * * * * *		
15			
16	EXHIBITS	PAGE	
17	NU EUA forecasts for 2008-2009	21	
18	123 PSNH Response to TransCanada TC 6-202	33	
19	124 WE Energies Generating System	71	
20	Oak Creek Power Plant, March 2	2014	
21			
22			
23			

1	AFTERNOON SESSION
2	(Hearing resumed at 1:48 p.m.)
3	CMSR. HONIGBERG: Let's talk
4	for a minute about how late we can go
5	tonight. We can do this off the record.
6	(Discussion off the record)
7	CMSR. HONIGBERG: Back on the
8	record. Mr. Patch, I believe you have the
9	floor.
10	MR. PATCH: Yes.
11	CROSS-EXAMINATION (CONT'D)
12	BY MR. PATCH:
13	Q. Before we broke, I made reference to a
14	response that PSNH gave to a Deposition Data
15	Request No. 4. It's Attachment 21 to Mr.
16	Hachey's testimony, and it begins on Bates
17	992. And Mr. Large, I just had a question or
18	two for you about that response. I don't
19	know if you have access to that up there, or
20	should we provide you with a copy.
21	A. (Mr. Large) I believe I do. I apologize if
22	we didn't get it during the break.
23	SP. CMSR. IACOPINO: What was

1 the Bates page again?

2 MR. PATCH: It's 992.

A. (Mr. Large) I have it.

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- And according to the question, this is where Q. we asked Mr. Long who prepared the \$11 per MMBtu price assumption that appears in the -and there was an exhibit to the deposition. And the response was -- well, it doesn't look like the response actually answered that question about who prepared it. It did say what was prepared. And the response person obviously is Mr. Long. But do you have any reason to disagree with the response in this? Is this accurate, in terms of a description of how the \$11 per MMBtu price assumption was prepared? Have you reviewed this before?
- A. (Mr. Large) I have reviewed it before. I'm happy to clarify that I'm the person that was responsible for preparing the \$11 per million Btu forecast or assumption. And I'm happy to give all of the details of our process of assessing that, that was the value we wished to use in the assumption if you'd like.

- Q. Well, and an attachment to that response is basically four pages, where there are circles around the Newington gas price, which apparently is what was used as the basis for the \$11; is that correct?
- A. (Mr. Large) Correct. Those are four values
  from the daily dispatch report that's
  prepared by our fuels purchasing group that
  supports the dispatching of our generating
  units.
- 11 Q. And those were for the months of January
  12 through April of 2008; correct?
- 13 A. (Mr. Large) That is correct.
- Q. And so, in preparing the \$11 per MMBtu, you, being the one who prepared the assumption, you did not use the EVA forecast in any way.
- 17 A. (Mr. Large) That's not true.
- 18 Q. Okay. Then if you could explain.
- 19 A. (Mr. Large) Certainly. I think we began
  20 touching on this, and it's probably the
  21 easiest way to explain it is to go to
  22 Exhibit 23-15. All of the numbers are there,
  23 so it provides the simplest way of being able

1 to describe it.

- 2 Q. So you're at Bates Page 668?
- 3 A. (Mr. Large) I'm sorry. I should have given that. Yes.
- 5 Q. Go ahead.

A. (Mr. Large) Thank you. So, counting from the left, other than the year dates, Column 6 and Column 7. They're headed "New England Gas (NYMEX-plus basis)"; Column 7 is "New England Gas (EVA)."

When I began the process of trying to define an assumption for natural gas prices, I went to our fuels marketing group, people that are responsible for obtaining this kind of information -- "fuels purchase" and "fuel procurement" probably the better choice of words. And these were the values of information: NYMEX prices certainly varying over time -- and by that I mean, you know, a different day had a different NYMEX price -- and the New England EVA forecast, which was the February 28th forecast, which we've spoken about previously. And I examined

those two numbers, conferred with

Mr. McDonald, with Mr. Smagula, with the

fuels purchasing folks. And we talked about
this over several days.

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And the stark reality for me was that I think the purpose in having the assumption was that it be a reasonable assumption, a reasonable starting place, conservatively reasonable. And rather than -- well, as I look at these numbers, you know, as we see from the deposition record request, the prices that we were experiencing here in New Hampshire were \$11, and the EVA forecast for calendar year 2008 of \$8.37 seems substantially low. By the same token, the NYMEX-plus basis price of \$14.62 was substantially higher than our actual experience at PSNH. The range between those two numbers was 75 percent, a 75-percent variance between the EVA forecast and the NYMEX-plus basis price. I struggled with picking one of those two. The NYMEX price seemed as though it would be perceived as too

<sup>{</sup>DE 11-250}(Day 6/"EARLY" AFTERNOON Session ONLY]{10-22-14}

high. And I was confident, based upon my experience and the experience that we were having at that point in time, that for that period of time, \$8.37 was too low. So, after much debate and consideration with the others that I spoke about, I knew that we had this other, this third source of data, and that third source of data was, in fact, our actual cost of fuel delivered in New Hampshire. So it would minimize argument about what's the right basis, what's -- you know, it very much in my mind simplified and streamlined a starting-point assumption for natural gas prices.

So, those four documents with the numbers circled average \$11. I did not want to make any suggestion that we were making such a precise forecast. You know, I didn't see any benefit of going to two or three or four decimal places. And I selected \$11 per million Btus as the base for our forecast for natural gas. I would offer that that was data available in 2008.

And what we did was we brought that forward to 2012, four years forward, with no escalation. So I viewed that as a second making of conservative adjustment. And then we started with \$11 per million Btus in 2012 and carried that forward at 2-1/2 percent.

- 7 Q. This is all new information, Mr. Large. It 8 wasn't in your rebuttal testimony, was it?
- 9 A. (Mr. Large) I did not describe the process

  10 that I undertook. But we did, as provided in

  11 the record request, identify what it is that

  12 we used to select a basis price, yes.
- Q. Okay. Well, let's walk through that record request. I assume you mean Attachment 21 in the Deposition 4. Is that what you mean?
- 16 A. (Mr. Large) Yes.

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- Q. And see where it says the referenced \$11

  MMBtu price assumption was based on actual
  reported natural gas prices rather than any
  specific forecast? Is that what it says in
  the first sentence?
- 22 A. (Mr. Large) It was not on any specific 23 forecast. So, it does say that, and I agree

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1 with that.
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- 2 Q. And it goes on to say "Forecasts available at
- 3 the time..." and then lists some -- it
- doesn't list the EVA forecast, does it?
- 5 A. (Mr. Large) It does not.
- 6 Q. "...support the base assumption and
- 7 escalation, but were not used directly nor
- 8 relied upon in preparing the referenced MMBtu
- 9 price." Is that what it says?
- 10 A. (Mr. Large) That's correct.
- 11 Q. So you still maintain that you provided that
- information to us before today?
- 13 A. (Mr. Large) What I said was the four
- 14 documents that follow Bates Page 992 is, in
- 15 fact, the arithmetic that produced the \$11
- 16 per million Btu.
- 17 O. You signed the cover letter on the 2007 IRP
- 18 that was filed as an exhibit in this docket;
- 19 did you not?
- 20 A. (Mr. Large) I would believe that to be true.
- 21 Q. And that was part of your responsibilities in
- the 2007 time frame; correct?
- 23 A. (Mr. Large) That is correct.

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1 Q. And I would ask you to look at Page 159 of
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- the LCIRP.
- MR. NEEDLEMAN: Do we have an
- 4 exhibit reference?
- 5 MR. PATCH: Exhibit 73.
- 6 Q. Tell me when you're there.
- 7 CMSR. HONIGBERG: I'm sorry,
- 8 Mr. Patch. What page?
- 9 MR. PATCH: Page 159 of
- 10 Exhibit 73.
- 11 MR. NEEDLEMAN: I don't see a
- 12 copy of it up here.
- 13 MS. AMIDON: We have a copy
- 14 you can...
- 15 (Mr. Needleman hands document to
- 16 witnesses.)
- 17 BY MR. PATCH:
- 18 Q. And on Page 159, Mr. Large, you see where it
- 19 says "Avoided Cost Methodology and Forecast,"
- 20 top of the page?
- 21 A. (Mr. Large) Yes, I do. Sorry. I had to pull
- the papers back here.
- 23 Q. And then "Section A.1.1, Energy Forecast

{DE 11-250}(Day 6/"EARLY" AFTERNOON Session ONLY]{10-22-14}

1 Alternatives"?

- 2 A. (Mr. Large) Yes.
- Q. And that's where it talks about how -- the

  LCIRP talks about how energy forecast

  alternatives -- basically says there are two

  primary approaches: A market-based approach

  and a fundamental approach; correct?
- 8 A. (Mr. Large) It does.

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Q. And then there's a fairly lengthy description on that page and on the next page about those alternatives. And then, at sort of the very end -- I could walk through a number of questions associated with that, but in the interest of time I'll try to avoid that.

And then, at the very end of that section, over on the next page, bottom of Page 160, it says, "In a long-range plan, these procurement methods may be more appropriately forecasted using the fundamental numbers." Did I read that correctly?

- 22 A. (Mr. Large) I believe you did.
- 23 Q. And could you explain to us what the

difference is between those two forecasting methods?

A. (Mr. Large) Yes, I can. NYMEX futures is their assessment of actual trades and forecasted trades for the commodity at a given point in time, typically provided in a delivery point of Henry Hub -- so, the gas at a singular location. And to that must be added the transportation cost to get it from that location to your desired delivery point.

My understanding of EVA forecasts is
that they -- they're referred to as
"fundamental forecasts," and they're built
upon supply and demand and production
capability factors.

Q. Now, the response that I just showed you to Deposition 4 suggests that the methodology that you used in connection with the Scrubber in the summer of '08 was the forecast of energy prices, the market-based approach, not the fundamental approach. Is that what the response to the data request seems to say?

(Witness reviews document.)

{DE 11-250}(Day 6/"EARLY" AFTERNOON Session ONLY]{10-22-14}

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1 A. (Mr. Large) As a general statement, I would
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- 2 agree with that. We made a number of
- 3 references with regard to being "consistent
- 4 with NYMEX approaches."
- 5 Q. Attachment 13 to your testimony is a later
- report to the Commission in 08-103. I wonder
- 7 if you could turn to that now and look at
- 8 Bates Page 662.
- 9 A. (Mr. Large) I have that.
- 10 Q. As I understand it, this is a report that was
- made to the Commission in the 08-103 docket.
- 12 A later report that was done on October 15th
- of 2010; correct?
- 14 A. (Mr. Large) October 15, 2010, yes.
- 15 O. And Page 662 is the section on "Energy
- 16 Service Rate Change"; correct?
- 17 A. (Mr. Large) Yes.
- 18 Q. And if you look over on the next page, on
- 19 663, it appears that what PSNH has done in
- 20 this case with the Commission is to utilize
- 21 both NYMEX and EVA data to come up with an
- estimate of the impact on energy service
- 23 rates; correct?

- 1 A. (Mr. Large) That's what appears there, yes.
- 2 Q. So, in that case, you've used the blended
- method that you suggested was appropriate for
- 4 long-range forecasting in the LCIRP; correct?
- 5 A. (Mr. Large) Yes.
- 6 Q. But that's not what you used in the summer of 7 '08, is it?
- 8 A. (Mr. Large) It is not the result of -- well,
- 9 it is not the method that I used in the
- 10 summer of '08. The reality is that the
- 11 average numbers between the EVA forecast and
- the NYMEX forecast are very close to \$11 per
- million Btu. I could have chosen to utilize
- an average if I wanted to. But it was of
- 15 greater reason to me to make as clear and as
- 16 definitive the specific reference to the
- 17 starting point for natural gas prices. And
- 18 for me, that was easier to define as the
- 19 actual cost of fuel delivered to the state of
- New Hampshire.
- 21 Q. I want you to look at Page 160 of the LCIRP.
- 22 And if you could look at -- it's the
- 23 carryover paragraph, last sentence there.

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And I'll read it into the record, and you
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- tell me if I read it correctly. Do you have
- 3 that in front of you?
- 4 A. (Mr. Large) I apologize, Mr. Patch. The page
- 5 again?
- 6 Q. One-sixty?
- 7 WITNESS LARGE: Ms.
- 8 Chamberlin, I think we've found it.
- 9 MS. CHAMBERLIN: Okay.
- 10 A. (Mr. Large) So, 160 you say?
- 11 Q. Yes.
- 12 (Witness reviews document.)
- 13 A. (Mr. Large) I have Page 160.
- 14 Q. At the top of the page and the carryover
- paragraphs, the last sentence reads,
- 16 "Instead, PSNH contracts with a consultant,
- 17 (Energy Ventures Associates or 'EVA') to
- 18 provide a quarterly long-term forecast of
- 19 commodity market prices, which PSNH converts
- into forecasted energy prices." Did I read
- 21 that correctly?
- 22 A. (Mr. Large) You did.
- 23 Q. And I'm going to show you what -- well, first

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of all, what PSNH provided in response to
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- Data Request 38, Frantz 638, on
- 3 September 12th of this year.
- 4 MR. PATCH: Actually, all we
- have, Mr. Chairman, is one copy of that.
- 6 It's voluminous. It's mostly coal forecasts.
- 7 There's nothing in there about EVA. And it's
- being offered to obviously point out what it
- 9 is that PSNH provided us back in September of
- 10 this year.
- 11 CMSR. HONIGBERG: You want to
- 12 see it, Mr. Needleman?
- 13 MR. NEEDLEMAN: Well, I'll go
- 14 up and look at it. We talked about it before
- the break and said, if this is how they want
- 16 to do it, it's fine. I'm not sure how we're
- going to handle you reviewing pages, but
- we'll see where it goes.
- 19 CMSR. HONIGBERG: We'll see
- where it goes. Fair enough.
- 21 BY MR. PATCH:
- 22 Q. Are you familiar with that response?
- 23 A. (Mr. Large) I am.

- Q. Are there any Energy Ventures analyses
  forecasts included in that package?
- A. (Mr. Large) Would it make it easier if I just accept, subject to check?
- 5 Q. That would be great. Thank you.
- 6 A. (Mr. Large) Sure.

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And then what I'd like to do is to show you 7 0. what PSNH provided on Friday of last week. 8 That would have been October 17th, I believe 9 is the date. After we pointed out this 10 particular section of the IRP that we just 11 12 read, I want to show you a copy of -- there were actually three separate e-mails we 13 14 received from Mr. Bersak. And I'm going to 15 show you the second of three and the attachment to that. 16

MR. PATCH: And we did make copies of all of this for the Commissioners and for all of the parties. But I just want to represent to the Commission that there were actually three different responses that we got. The ones that I'm focused on are the 2008 and 2009. Not the 2007 and then the

1	later ones, but just that one of the three
2	responses. So, Ms. Goldwasser is going to
3	hand those out.
4	(Ms. Goldwasser distributes documents.)
5	MR. PATCH: And I would ask
6	that the September response, first of all, be
7	marked as an exhibit.
8	CMSR. HONIGBERG: The entire
9	packet?
10	MR. PATCH: Yes.
11	CMSR. HONIGBERG: Would the
12	parties be willing to stipulate to the fact
13	that the only fact I think you wanted out
14	of that, that it did not include any EVA
15	forecasts?
16	MR. NEEDLEMAN: If that's the
17	case, sure.
18	MR. BERSAK: If it's the case.
19	We want to look at it first.
20	CMSR. HONIGBERG: Why don't
21	you take a look at it. Because if you can
22	stipulate to that fact, we don't need to mark
23	a 200-page exhibit for the purpose that it

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doesn't contain something.
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2 MR. NEEDLEMAN: Why don't we

do that at a break so we can --

4 CMSR. HONIGBERG: Fair enough.

So, let's hold off on marking that. Okay.

6 MR. PATCH: Now what I would

ask to be marked is the response, two of

8 three of the three e-mails Mr. Bersak sent

9 us, the attachment to the second one that was

10 provided to us on Friday night, on

11 October 17th.

5

12 (The document, as described, was herewith

marked as Exhibit 122 for identification.)

14 CMSR. HONIGBERG: This is

15 Exhibit 122.

16 BY MR. PATCH:

17 Q. I'll ask you if you're familiar with this

18 response.

19 (Witness reviews document.)

20 A. (Mr. Large) I am.

21 Q. And in that response, there are handwritten

notations on a few of the pages. One says

"February of '08," one says "November of

<sup>{</sup>DE 11-250}(Day 6/"EARLY" AFTERNOON Session ONLY]{10-22-14}

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1 '08," and one says "March of '09." Are you
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- 2 familiar with those handwritten notes?
- 3 A. (Mr. Large) Well, I apologize then. Is that
- 4 this document?
- 5 0. That's that document.
- 6 A. (Mr. Large) Can you help expedite me
- 7 finding...
- 8 (Mr. Patch assists witness.)
- 9 BY MR. PATCH:
- 10 Q. Maybe I can shorten this. Is it your
- understanding that what is included in this
- 12 package are documents that PSNH maintains are
- 13 the Energy Ventures analysis forecasts for
- 14 February of '08 and November of '08 and March
- of '09? Is that your understanding?
- 16 A. (Mr. Large) I'll validate that in a moment,
- now that I understand. Thank you.
- 18 Q. Okay.
- 19 (Witness reviews document.)
- 20 A. (Mr. Large) So, in this packet is -- I think
- 21 I'll be working backwards and not
- chronologically -- October 2009, August 2009,
- March 2009, November 2008, February 2008 and

- 1 August 2007.
- 2 Q. So, as I understand -- and correct me if I'm
- wrong -- there are two reports for 2008;
- 4 correct?
- 5 A. (Mr. Large) I believe that to be true, yes.
- 6 Q. And what we read in the IRP said that EVA
- 7 provided them quarterly; is that correct?
- 8 A. (Mr. Large) Yes. That's what it said there.
- 9 Q. Can you explain why we only got two reports
- 10 for 2008?
- 11 A. (Mr. Large) Because in 2008 there were not
- four reports provided to the Company.
- 13 Q. So, can you -- you said you were under
- contract with EVA; is that correct?
- 15 A. (Mr. Large) That is true.
- 16 Q. And did the contract -- was the contract
- 17 violated? Or how come you only got two in
- 18 2008?
- 19 A. (Mr. Large) The definition of "quarterly" as
- 20 presented there is more declarative than is
- 21 the reality of the frequency of which we get
- forecasts from EVA. We can just look at the
- dates at which these forecasts were

delivered, and they're not on a specific

calendar-quarter basis or anything like that.

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- Q. And is this the way that they came to you, as they appear here? Was there anything else with them? Narrative, letters, correspondence, anything else? Just as they appear here?
- 8 A. (Mr. Large) These forecasts, to the best of
  9 my knowledge, show up as these spreadsheets
  10 as replicated here.
- 11 Q. But you're telling us that, even though you

  12 represented in the LCIRP that they were

  13 quarterly, that, in fact, EVA doesn't provide

  14 quarterly forecasts. Is that what you're

  15 saying?
- 16 A. (Mr. Large) That's my understanding, yes.
- Q. I'd ask you to look at Exhibit 36, which is a copy of an EVA forecast from 2013. I don't know if you have that available to you up there.
  - A. (Mr. Large) Mr. Patch, can I close up the IRP now? I'm just trying to get a sense for how I can keep track of all the papers.

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1 Q. Yes.
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- 2 A. (Mr. Large) Thank you. And this stack of
- 3 forecasts?
- 4 Q. Yes.
- 5 (Ms. Goldwasser hands document to witness.)
- 7 Q. Do you have in front of you Exhibit 36?
- 8 A. (Mr. Large) I believe so.
- 9 Q. Now, this is something that PSNH provided in
- 10 response to a data request, although I
- 11 believe the correspondence we received from
- 12 your counsel indicated that they didn't think
- it was responsive to a data request. But
- does it purport to be a quarterly forecast
- 15 from EVA?
- 16 A. (Mr. Large) It does say that, yes.
- 17 Q. I mean, it looks quite a bit different than
- what we provided. Could you explain why?
- 19 A. (Mr. Large) Certainly. I believe this is
- 20 information that EVA produces on a generic
- 21 basis, and the forecasts that we were
- 22 referring to were the specific Northeast
- Utilities EVA forecasts that we contracted

<sup>{</sup>DE 11-250}(Day 6/"EARLY" AFTERNOON Session ONLY]{10-22-14}

- 1 for.
- 2 O. So I'm not sure I understand. And let me ask
- one or two questions about that. You're
- 4 saying that what has been marked as
- 5 Exhibit 36 is something that you contracted
- for differently than the information that we
- 7 have now marked as Exhibit 122?
- 8 A. (Mr. Large) The contracting for information
- 9 is the pile of papers, if that's Exhibit 122.
- 10 Q. And what about Exhibit 36?
- 11 A. (Mr. Large) I don't perceive this as being a
- 12 "contracted" piece of information provided to
- us by EVA. This strikes me as a newsletter.
- 14 Q. But it has forecasts in it, doesn't it?
- 15 A. (Mr. Large) It does.
- 16 Q. But you're saying you don't know whether --
- 17 when did NU or PSNH start getting the form
- 18 that is in Exhibit 36?
- 19 A. (Mr. Large) I don't know.
- 20 Q. And that's the only one we've been provided.
- 21 So you don't know whether you might have them
- 22 going back to 2008 or 2007?
- 23 A. (Mr. Large) I don't. But these would not be

the forecast information that we would utilize as referred to in the LCIRP, or certainly what we utilized in the analysis that we performed associated with this docket.

Q. I mean, if you had forecasts like the one in Exhibit 38 that went back to the 2005 to 2011 time frame, that would have been responsive to the data request that TransCanada provided to you; wouldn't it have been?

MR. NEEDLEMAN: Sounds to me like we're now getting into the discovery dispute.

CMSR. HONIGBERG: I tend to agree. What do you hope to get out of that question?

MR. PATCH: Well, Mr.

Chairman, there are a lot of questions as a result of what we've been provided and haven't been provided. You know, they said they got quarterly reports. They didn't give us quarterly reports for 2008; they gave us two different reports. This is significantly

different than what they provided to us.

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CMSR. HONIGBERG: And you're getting some -- I'm sorry. I didn't mean to interrupt. But you're getting actual under-oath answers from a witness who actually seems to know what these reports are or are not and knows what the Company got "quarterly," which I'll put in quotation marks because, according to his testimony, they don't actually come quarterly. So, it seems to me you're getting good information. Asking him whether a particular document would have been responsive to a data request, I'm not sure where that's -- what that's going to get you.

Mr. Needleman.

MR. NEEDLEMAN: Yeah, I would like one further clarification. I think Exhibit 36, which we've just been focusing on, is something TransCanada provided to us, we didn't provide to them. And we just found it on the Internet. So it certainly appears to be a generic document.

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MR. PATCH:
                                      I think that's
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         wrong.
                  They provided it to us.
                                            We didn't
         provide it to them.
3
                         CMSR. HONIGBERG:
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                                            And I don't
5
         know which one of you provided it to the
         other. And I'm not sure how significant it
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7
         is at the end of the day, because it doesn't
         seem to be what Mr. Large in any way used or
8
         was referring to in the LCIRP document.
9
         think it's pretty clear that his testimony is
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11
         that the types of EVA forecasts he was
12
         referring to are the types of documents that
         are in Exhibit 122.
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14
                         MR. NEEDLEMAN:
                                          And I will
15
         apologize.
                      I was mistaken. We did provide
         it.
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                         CMSR. HONIGBERG:
                                            Well, thank
         you for clarifying that, Mr. Needleman.
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19
                         MR. PATCH:
                                      Okay.
                                             I'll move
20
         on.
21
    BY MR. PATCH:
22
         Mr. Long [sic], you testified before this
23
         Commission in the 2010 IRP docket, DE 10-261?
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1 A. (Mr. Large) I did, yes.
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- Q. Do you recall the comment you made to the Commission in that docket about "a lack of value in planning"? And I'm quoting from a transcript Day 1, Page 155 [sic]. "...sadly, it [sic] has very limited value." Do you recall that statement?
- 8 MR. NEEDLEMAN: I would like 9 Mr. Large to see the transcript, please.
- MR. PATCH: First of all, I'd like to ask him if he recalls that statement.
- 12 CMSR. HONIGBERG: He can
  13 answer the question.
- 14 A. (Mr. Large) I don't recall that statement.

MR. PATCH: Okay. We can
certainly provide for the record a copy of

that transcript. We don't have copies of it

necessarily here with us today. But it's --

19 I'd ask the Commission to take official

20 notice of the transcript in that docket, Day

21 1 PM, Page 155 [sic], Lines 14 to 15.

- 22 BY MR. PATCH:
- 23 Q. And assume with me for a minute, Mr. Large,

<sup>{</sup>DE 11-250}(Day 6/"EARLY" AFTERNOON Session ONLY]{10-22-14}

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that that's accurate.
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                         CMSR. HONIGBERG:
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                                            So that
         request that we take notice of that
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4
         transcript has been made and it's on the
5
         record now.
                         MR. PATCH:
6
                                      Thank you.
7
    BY MR. PATCH:
         Well, assume for a minute, Mr. Large, that
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9
         that's in fact a statement that you made.
                                                      Is
         that a view that you hold personally, that
10
         planning has very limited value?
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         (Mr. Large) It would be beneficial to me if I
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    Α.
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         could hear the statement again since we had
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         some interchange in between. So I apologize.
         If I could hear it?
15
         Okay. Ms. Goldwasser has it electronically,
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    Q.
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         so I'll certainly let you read that.
         ask it hypothetically, but I understand your
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         desire to see exactly what it says.
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         (Mr. Large) It would be beneficial to
    Α.
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         understand in which context I provided that
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(Ms. Goldwasser shows electronic

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23

answer.

transcript on computer to witness.)

MR. PATCH: Okay. Well, we've

made the request that the Commission take

4 official notice, and we'll move on from that.

## BY MR. PATCH:

- Q. Mr. Long, during his deposition, said that -and I'm quoting from Page 72, Line 24, to
  Page 73, Line 1, "...long-term forecasts are
  typically not reliable." Do you agree with
  that?
- A. (Mr. Large) With this, as to the definition or my interpretation of those words, at any given point in time long-term forecasts are made, that those long-term forecasts accurately predict future realities, the success rate of that is very low.
- Q. And Mr. Long told the Oversight Committee -and we're at Page 75 -- and I don't recall
  the exhibit number -- but at Page 75, he
  said, and I'll quote, "And I guess I learned
  a long time ago, don't predict the future
  because you're always wrong." Do you think
  that's fair?

- (Mr. Large) I think it's consistent with the 1 Α. answer that I just gave, that very smart, 2 very reasonable people pay lots of time and 3 4 energy to creating forecasts of the future. And I have not done an exhaustive search of 5 every long-term forecast known to mankind, 6 7 but my experience would be that very, very few of them accurately predict the future. 8
  - Q. I'm going to show you a response to

    TransCanada 6-202 and ask that this be

    marked.

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12 CMSR. HONIGBERG: This is 123.

13 (Ms. Goldwasser hands document to witness.)

marked as Exhibit 123 for identification.)

(The document, as described, was herewith

Q. And in this one you were asked about a portion of your testimony and sort of what you customarily look to, what sources of information you rely upon to validate assumptions. And your response was, "Any data may have a place in a prudent utility business planning process, depending upon the facts. Facts accepted by the NHPUC are

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certainly valuable for understanding what the
Commission deems to be reasonable and
prudent. PSNH may examine regional or
national agency data or industry data to
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6 correctly?

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(Witness reviews document.)

validate any assumption." Did I read that

- (Mr. Large) You did read the response to the 8 Α. 9 data request accurately. And it's referring to Page 6 of our testimony, where we talk 10 about consideration of the Concord Steam 11 12 Corporation's filing on October 31 -- or, 13 actually, the order from the Commission of October 31, 2008, in which they utilized a 14 natural gas price of about \$12 per million 15 16 Btu.
- Q. Mr. Long said in his deposition at 88, Lines
  20 to 23, "We understood" --
- 19 A. (Mr. Large) Can I get that?
- 20 Q. Sure.
- 21 A. (Mr. Large) Pages again, Mr. Patch?
- 22 Q. Page 88 of Mr. Long's deposition.
- 23 A. (Mr. Large) I have it. Thank you.

Q. And he said at Lines 20 to 23, "We understood that you don't look at a short-term forecast and assume that's the way it's going to be forever." Do you see that?

Α.

(Witness reviews document.)

- A. (Mr. Large) Yes. The full sentence is,

  "Although we weren't in the gas business, we

  understood that you don't look at a

  short-term forecast and assume that's the way

  it's going to be forever."
- Q. And then on Page 72 and 73 of the deposition, he said, "...what I've said repeatedly is that long-term forecasts are typically not reliable, and particularly in that time frame where they were changing. Like I say, even TransCanada was changing its forecast every year, and they're in the business. So we're not in the -- I'm not in the practice of directing my subordinates to do a long-term forecast and then depending on it. It's more of managing what we have and complying with the law." Did I read that correctly?

(Mr. Large) You read that correctly.

I'm

- trying to get a sense for the context of this discussion.
- 3 Q. Tell me when you're ready.
- 4 (Witness reviews document.)
- 5 A. (Mr. Large) I am.
- Q. So did he, in fact, direct you not to do a long-term forecast here?
- 8 A. (Mr. Large) No.

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- As I understand it, once the presentation was 9 Q. made to the board in July of 2008 about the 10 significance and sensitivity to the spread 11 12 between the price of natural gas and the 13 price of coal, there was no responsibility to 14 keep them updated if that spread changed or 15 forecasts differed from the assumptions on 16 which the presentation was based? Is that 17 accurate?
  - A. (Mr. Large) Following the authorization of the Project by the RaCC and the board, the requirements were to provide construction and risk updates on a very frequent basis and to identify if there were any changes in the capital construction forecast -- so, the

1 budget.

- Q. So, in terms of updating that spread and updating those assumptions, when I asked Mr. Long that question in his deposition, Page 63, Line 12, he said, "No, not me particularly." In other words, it wasn't his responsibility to do that. Did you consider it your responsibility?
- 9 A. (Mr. Large) No.
- 10 Q. So, the only obligation, then, was to update
  11 the RaCC on the status of the Project in
  12 compliance with the mandate. Is that your
  13 understanding?
  - A. (Mr. Large) I'm not certain about the characterization of "in compliance with the mandate." But what the responsibility of the Project team was to RaCC was to provide them updates of construction progress, mitigation of risks, other new risks and ability to comply with the budgeted amount of \$457 million.
  - Q. So, it was obviously worthwhile to PSNH and NU to do the analysis in June of 2008. Why

wasn't it worthwhile to update it?

- A. (Mr. Large) Well, as I began, it was

  worthwhile for us to do because we needed to

  do so to be in compliance with our corporate

  requirements, and it was the right thing to
- do to advise our Risk and Capital Committee
- 7 and board of trustees about this Project.
- Q. Attachment 5 to your testimony is the report to the Commission in September of '08. I'm sorry. I'm not sure that's -- maybe that is
- 11 Attachment 5. Anyway, it's Bates Page 497.
- 12 If you could turn to that for a minute.
- 13 A. (Mr. Large) I have Bates Page 497,
- 14 Attachment 1 to the September 2nd report to
- the Commission, which is The Wall Street
- 16 Journal article.
- 17 Q. That's right. And it's part of Attachment 5
- 18 to your testimony; correct?
- 19 A. (Mr. Large) Yes.
- 20 Q. And this is the article that begins,
- 21 "Construction [costs] for power plants have
- more than doubled since 2000"; correct?
- 23 A. (Mr. Large) Yes.

- And then in the second paragraph it says, 1 Q. "The findings are bad news for consumers and 2 utilities alike and help explain why 3 4 power-plant development has become something of a quagmire in the U.S., with no type of 5 plant emerging as a reasonably priced option 6 7 that can meet rising demand for electricity." Do you see that? 8
- 9 A. (Mr. Large) I do? I think there are other
  10 factors that have led to the quagmire as
  11 well. But certainly capital construction
  12 costs in a very capital-intensive industry is
  13 one of them.
  - Q. And you're familiar with the PowerAdvocate draft report that was done in the summer of '08 that's been the subject of some questions in this document?

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- A. (Mr. Large) I'm familiar that it was

  conducted. I'm not detailed in the specifics

  associated with it.
- Q. I can show it to you. But they had a conclusion that there were "no good and reliable indicators to follow for investment

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decisions," which seems to me to be

consistent with this Wall Street Journal
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- 3 article. Would you agree?
- 4 A. (Mr. Large) I don't know that I do or don't agree. I'm sorry.
- Q. On Page 5 of your testimony, you say that the base-case present value of economic benefits to PSNH customers was approximately \$132 million the last time the analysis [sic] was [sic] conducted; correct?
- 11 A. (Mr. Large) I'm sorry. I'm not flipping as 12 quickly as you are. Page again, please?
- 13 Q. Page 5, 10 to 12 -- Lines 10 to 12.
- 14 (Witness reviews document.)
- 15 A. (Mr. Large) Yes, that's correct.
- 16 Q. And also on Page 5, Lines 18 to 25, you said
- no additional analyses were prepared by PSNH
- beyond the one prepared in May of 2008, after
- 19 the Legislature decided not to change the
- 20 law; correct?
- 21 (Witness reviews document.)
- 22 A. (Mr. Large) I apologize, Mr. Patch. What
  23 line are you referring to?

Q. Eighteen to 25, I believe it is, on Page 5 of your prefiled rebuttal testimony.

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- A. (Mr. Large) That would be the reason why I

  don't find it. That does not agree with what

  I have in my testimony at those lines. Are

  we at Bates 412?
- Q. Bates Page 412, beginning on Line 20, "When the Legislature decided not to change the law..." and first of all, would you agree, subject to check, that that decision was actually made on April 8th of 2009?
- 12 A. (Mr. Large) I'll be happy to take that,
  13 subject to check.
  - Q. So, what you said in the testimony was, "When the Legislature decided not to change the law, and instead expressly stated... that it did not want a 'pause in or cancellation of the Project,' the majority of contracts necessary for the Project had been executed."

And then you went on to say, "Based upon the Legislature's decision and the status of the Project itself, further detailed analyses of the Project were not necessary." A. (Mr. Large) Yes.

- Q. So, as I understand it, the rationale for not doing an update of the analysis that was done in June of 2008 was that the Legislature made a decision in April of 2009 not to cancel the Project.
- A. (Mr. Large) I guess I would say there are two reasons, as we stated here, that the Science Technology and Energy [sic] Committee of the House clearly indicated to us that they wanted the Project to move forward. On the Senate side of the ledger, Senate Bill 152 was being considered. And my recollection of what that bill became over time was a study bill; and as a result, if that bill had passed, further analyses would have been conducted. So, to do further analyses in advance of the study bill becoming law didn't seem reasonable at that point in time.
- Q. As I understand it, the analysis you did in the summer of '08, as we established through Deposition 4, the response to that was based on data from January, February, March and

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1 April of 2008; correct? The assumption --
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- the natural gas price assumption.
- 3 A. (Mr. Large) Yes, that's in the Record
- 5 Q. And so, when the Legislature decided in April
- of 2009, basically a year later, that, as you
- 7 say in your testimony, they decided basically
- 8 not to change the law; correct? That was a
- 9 year later. Do you know what happened to
- 10 those prices in that year between April of
- 11 2008 and April of 2009?

Request 4.

- 12 A. (Mr. Large) I do.
- 13 O. Pardon?

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- 14 A. (Mr. Large) I do.
- 15 Q. Okay. Would you like to tell us?
- 16 A. (Mr. Large) Sure. They diminished.
- 17 Q. Significantly?
- 18 A. (Mr. Large) I would say "significantly," yes.
- 19 Q. That's all my questions. Thank you.
- 20 CMSR. HONIGBERG: Ms.
- 21 Frignoca.
- 22 MS. FRIGNOCA: Yes. Thank
- you.

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CMSR. HONIGBERG:
                                            And I'm
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         going to ask you again to move that
         microphone as close to you as you reasonably
3
4
         can.
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                         MS. FRIGNOCA:
                                         I will do so.
                      CROSS-EXAMINATION
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7
    BY MS. FRIGNOCA:
         Good afternoon. My name is Ivy Frignoca.
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    0.
9
         I'm an attorney at the Conservation Law
         Foundation, and I just have a few questions
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         for you.
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               To begin, confirming that you did no
13
         economic analysis past September 2008;
14
         correct?
         (Mr. Large) That is correct.
15
         And if I'm understanding the testimony right,
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    Q.
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         that's because you viewed that there was a
         legislative mandate and that, in the
18
         beginning of 2009, the Legislature did not
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         pass the study bill; so it was your view that
         there was no need to do further economic
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         analysis.
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          (Mr. Large) I think to round that out, I said
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this earlier today, I believe, with the
Commission's request of us in August for
specific information, from an economic
analysis perspective, the Company moved into
a compliance mode, fulfilling the obligations
and responding to the Commission's desire for
information, and that, as we monitored
legislative process, there was no additional
specific request for additional economic
analyses of us. And then concluding, as I
discussed with Mr. Patch a moment ago, Senate
Bill 152 was a bill to do studies, and should
it have passed, we would have done studies.

- Q. Okay. So, once you moved into compliance mode, your economic analysis wasn't to determine whether to construct this Scrubber. It was to look at whether you were prudently incurring the costs of constructing the Scrubber, not whether or not to build it, but are we reasonably managing how we're constructing it.
- A. (Mr. Large) If I can have the premise read back, because I think the first part of the

<sup>{</sup>DE 11-250}(Day 6/"EARLY" AFTERNOON Session ONLY]{10-22-14}

- premise of your question I might disagree with. So...
- Q. Okay. So there's two questions I'm looking
  at. The first one is, if I'm understanding
  your testimony correctly, you moved into
  compliance mode; so that meant that you were
  not doing an economic analysis to determine
  whether or not to build the Scrubber?

- A. (Mr. Large) I would say that we never did an economic analysis to determine if we should build the Scrubber. The law required us to do so. We did economic analysis to determine what its impact was on customers and what the risks associated with that were. That's what was done before the RaCC and the board.
- Q. Okay. So, in the summer of '08, you did an analysis to determine what the rate -- what the impact would be on customers. And that's the last time you looked at what the impacts would be on customers before beginning major construction in March of 2009; correct?
- A. (Mr. Large) Not completely. The additional analyses requested by the Commission in

August produced additional information that 1 was provided in September. 2

- Okay. So, September was the last time. 3 0.
- 4 (Mr. Large) Yes. Α.

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5 Thank you. I just wanted to make sure I 0. understood clearly. 6

7 Now, one of the other items that you mentioned in terms of your economic analysis 8 this morning was that, when you were doing 9 this analysis, I believe in the summer of 10 11 2008, that you compared installing the 12 Scrubber to building a natural gas generation 13 facility or a coal-fired generation facility.

- 14 Did I understand that correctly?
- (Mr. Large) That was part of what was 15 submitted to the Commission in the September 16 17 report, yes. And a portion of that was built off of what we did in the summer, yes. 18
  - Okay. At the time that you did that analysis, you understood that, by law, PSNH could not build new generation facilities; correct?
  - (Mr. Large) I believe I spoke to that Α.

earlier, yes, when I described that it wasn't about PSNH building a facility, but maybe the best characterization of it would be a cost-of-service-based merchant plant that PSNH would contract from. So we were attempting to simulate assumptions that mirrored a regulated generation asset. So we utilized PSNH's cost of capital because we don't know what a merchant generator's cost of capital would be.

Q. Well, you anticipated where I was going,
which I was going to ask you why you made
those assumptions. But now I want to make
sure that I understand what you're saying.

So, you created a model to look at what the cost would be of somebody else building a new generation facility from which PSNH could buy power?

A. (Mr. Large) It would be a cost-of-service generating relationship. So, another entity would build the power plant to burn natural gas, and the output product of that would be capacity and energy that PSNH would take.

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So, it's the replacement of a retirement of Merrimack Station.
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- Q. Okay. Did you look at and compare, when you did your economic analysis in the summer of 2008, the cost of building the Scrubber versus just buying power in the ISO-New
- 8 A. (Mr. Large) We did a proxy analysis 9 associated with that as well, yes.
- 10 Q. You did a --

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- 11 A. (Mr. Large) Market purchases case.
- 12 Q. And did you produce that market purchase case to the Commission?
- 14 A. (Mr. Large) Absolutely.

England market?

- Q. And did you do any market purchase analysis past September of 2008?
- 17 A. (Mr. Large) No.
- Q. Would you agree that it would be, more likely
  than not, that if PSNH wasn't operating
  Merrimack Station, that it would do a market
  purchase scenario than look for someone else
  to build a new power plant to replace

23 Merrimack Station?

- A. (Mr. Large) I wouldn't necessarily agree, no.
  Would you like me to go further and say why?
- 3 Q. Sure.

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- A. (Mr. Large) Okay. As we are experiencing now, a shortage of available generating capacity in the region is growing.
- 7 Okay. I guess let me rephrase the question Q. then, because I'm not talking about now. 8 talking about from the decision-makers' 9 viewpoint in 2008, 2009. Would you agree 10 11 that the way ISO-New England marketplace was 12 set up, it would be more likely that energy would be purchased on the market rather than 13 14 seeking someone else to build a new power plant to replace Merrimack Station? 15
  - A. (Mr. Large) And again I'll disagree in this regard. At some point in time, even in 2008, as the decision-makers were examining these alternatives, one of the viable alternatives was that, at some point in time, another power plant would need to be constructed in this region to provide adequate capacity and energy. And if we look at the recent history

of what's been constructed from a fossil fuel
perspective, combined-cycle natural gas
plants are all that's been constructed in the
last decade, 15 years.

Q. All right. And I think we're talking past each other. I understand what you're saying, and I appreciate the explanation.

My question was: Is it more likely that the first thing PSNH would look to was to see if they could replace the power by making market purchases through the ISO-New England market?

- A. (Mr. Large) Well, by necessity, in that it would take six to eight years to build a new power plant to bring that scenario to fruition. The only alternative in the very short term would, in fact, be market purchases. But in the long term, as I stated, new capacity is going to be necessary.
- Q. Okay. You also testified this morning that conditions changed after September 2008; correct?

- 1 A. (Mr. Large) They've changed every quarter since 2008, yes.
- Q. And as those conditions changed, PSNH did not
  do any analysis of -- economic analysis or
  analysis regarding the migration of its
  customers from 2008 through March of 2009;
  correct?
- A. (Mr. Large) As it pertains to the Scrubber Project, that's correct.
- Q. Nor did PSNH do any analysis regarding
  whether or not it made sense to divest itself
  of its generating assets, including Merrimack
  Station, between September of 2008 and March
  of 2009; correct?
- A. (Mr. Large) We did not do a divestiture analysis. Correct.
- Q. And if I ask you the same question with
  respect to retirement, I assume the answer
  will also be --
- 20 A. (Mr. Large) We did not do a retirement 21 scenario analysis. Correct.
- Q. And is the reason that you didn't do that is because you believed you had a mandate to

1 build the Scrubber?

correct?

- 2 A. (Mr. Large) Beyond "believe," yeah.
- Q. Now, you mentioned, and it's been testified
  to a number of times, that if the Legislature
  wanted to cap the cost of the Scrubber, or if
  it wanted further study, it could have done
  so in early 2009 by passing Senate Bill 152;
- 9 A. (Mr. Large) The Legislature could have done
  10 whatever it chose to. So, those are two
  11 possibilities, yes.
- Q. And you also testified that you helped prepare the presentations that PSNH made to the Legislature during early 2009; correct?
- A. (Mr. Large) I was a member of the team of
  PSNH employees that did that, yes.
- Q. And in being a member of the team, did you work with your then-CEO and president,

  Mr. Long, in preparation of his testimony?
- 20 A. (Mr. Large) Mr. Long was the COO and
  21 president, yes.
- Q. Thank you for correcting me. I apologize for the error.

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1 Were you present when he testified
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- before the Senate?
- 3 A. (Mr. Large) I was not.
- 4 Q. Attached to Mr. Long's deposition transcript,
- 5 which has been admitted into the record,
- 6 there is an Exhibit 17.
- 7 A. (Mr. Large) I apologize. We don't readily
- 8 have those. So if someone can help us, we'd
- 9 appreciate it.
- 10 Q. Sure. It's Exhibit 27-17.
- 11 A. (Mr. Large) Sorry.
- 12 Q. I can bring a copy up.
- 14 A. (Mr. Large) Thank you. Just to assure we're
- on the right page, March 13, 2009, 9:00 a.m.,
- 16 Reps Hall, Attachment B?
- 17 O. That's correct. This is Attachment B, and
- 18 this is the debate before the Senate
- 19 Committee on Energy, Environment and Economic
- Development. And I know that you referred to
- 21 this in your testimony.
- 22 So, what this document does -- and you
- can take a minute to look through and see if

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1 you agree with me -- is that, in part, this
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- is the portion of the proceeding where
- 3 Mr. Long provides his presentation to the
- 4 Senate Committee. Would you agree with that?
- 5 A. (Mr. Large) I'm working my way there.
- 6 Q. Sure.
- 7 (Witness reviews document.)
- 8 A. (Mr. Large) I'm at Representative Pat Long,
- 9 which is not the "Mr. Long" we're referring
- 10 to.
- 11 (Witness reviews document.)
- 12 A. (Mr. Large) On Page 23?
- 13 Q. Yes.
- 14 A. (Mr. Large) Thank you.
- 15 Q. I was just about to say, if you refer to
- 16 Page 23, you can see that Mr. Long is then
- 17 provided an opportunity to speak to the
- 18 Senate Committee; correct?
- 19 A. (Mr. Large) Yes.
- 20 Q. And if you peruse through the following
- 21 pages -- I'm not going to ask you detailed
- 22 questions -- but you can see that he then
- goes through his presentation.

<sup>{</sup>DE 11-250}(Day 6/"EARLY" AFTERNOON Session ONLY]{10-22-14}

1 (Witness reviews document.)

- 2 A. (Mr. Large) I'm sorry. I'm not sure I could
- 3 correlate these words here to the
- 4 presentation. But I believe that to be true.
- 5 Q. Okay. You can see that he refers to various
- page numbers and to different slides and
- 7 that --
- 8 A. (Mr. Large) On Page 26, we begin with, "You
- have a package in front of you." So that's
- 10 where --
- 11 Q. Yes.
- 12 A. (Mr. Large) Okay.
- 13 Q. And I assume that would be the package that
- 14 you helped prepare.
- 15 A. (Mr. Large) I would assume that that's the
- 16 case.
- 17 Q. Okay. And part of the discussion is about
- 18 whether there should be a study or not. And
- I want to refer you to Mr. Long's testimony
- on Page 33, first full paragraph that begins
- with the words, "Our role..." and I'm going
- 22 to read from a sentence midway through. If
- you feel I've taken this out of context, we

can do the whole paragraph.

But it says, "But that's not, you know, what we're trying to do is to have the lowest-cost power that we can for the benefit of customers. But if people think that we're out of line, they have recourse. They have recourse through prudency review, and they have recourse by, they can make a choice for a different power supplier."

Would you agree that that is what the transcript reflects Mr. Long testified to?

12 A. (Mr. Large) Yes.

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- Q. And that that indicates that your ratepayers have recourse through a prudency review?
- 15 A. (Mr. Large) Which is what's taking place today, I believe.
- 17 Q. Next I want to refer you to Page 39.
- 18 A. (Mr. Large) I have that.
- 19 Q. And at the bottom of the page there's
  20 testimony by Mr. Long. And he says, "It is
  21 the normal standard for the Public Utilities
  22 Commission to review our actions and our
  23 decisions, and it's done in hindsight. So it

certainly presents business risk, as you 1 might have a difference of opinion. We might 2 think we made a good decision. Somebody else 3 might think we made a bad decision. 4 5 think the Commission has found over and over again that we're making good decisions. 6 But 7 yes, that's normal course. And that's okay. We're totally prepared for that, and we're 8 9 totally used to that." Turning over on to the next page, he continues on. And I won't 10 11 read all that language. But the last 12 sentence of this paragraph says, "But financially we have to be very, very 13 14 conservative, and we have to be very sure of what we're doing, because if we're reckless 15 or if we [sic] make [sic] bad decisions, 16 17 it'll hurt, it'll come back on us." Did I read that correctly? 18

A. (Mr. Large) Yes. There's an arrow next to that section.

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Q. Yes. And in that instance, Mr. Long was, in fact, arguing to the Senate Committee that there would be a prudency review, and if the

<sup>{</sup>DE 11-250}(Day 6/"EARLY" AFTERNOON Session ONLY]{10-22-14}

decision to install the Scrubber was not a good decision, it would hurt. It would come back on the Company; correct?

MR. NEEDLEMAN: Object to the characterization of the question. I don't think he's talking about the decision to install the Scrubber. I think he's talking about the price or the cost associated with it.

CMSR. HONIGBERG: Ms.

Frignoca.

MS. FRIGNOCA: I think it's very clear in this exchange that he -- this testimony is him arguing that, "if we do a study, then the Scrubber's not going to get built. The plant's going to have to get retired." And he's arguing before the Committee in two places, that you don't need to pass this study. "If we get it wrong, then there will be a prudency review, and this Commission will make that determination." And this goes to the statements that the Company has been making

<sup>{</sup>DE 11-250}(Day 6/"EARLY" AFTERNOON Session ONLY]{10-22-14}

all along, that it didn't know it needed to
do a prudency review. It just believed it
had a mandate.

4 CMSR. HONIGBERG: Mr.

Needleman.

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MR. NEEDLEMAN: First of all,
I think that's Ms. Frignoca's interpretation
of it, certainly not mine. But second of
all, the document speaks for itself, and the
Commission can draw conclusions from it. We
certainly don't need this witness to try to
interpret what Mr. Long may have been saying.

CMSR. HONIGBERG: That is certainly true. Is there a question you can ask him that -- you can certainly ask him his opinion about what was -- what all this means. But his opinion is no better than anyone else's as to what all of this means.

MS. FRIGNOCA: Okay. One

20 moment, please.

21 BY MS. FRIGNOCA:

22 Q. On the bottom of Page 34 --

23 A. (Mr. Large) I have Page 34.

- Q. Okay. You see another arrow. And this is, again, Mr. Long providing testimony. And it's clear that he was there -- that your
- defeat the study bill; correct?
- A. (Mr. Large) Mr. Long testified before the Senate in opposition of Senate Bill 152.
- 8 Q. Right. And that's to defeat the study;
  9 correct?
- 10 A. (Mr. Large) In whatever shape Senate Bill 152

  11 was at that point in time, which I believe

  12 was a study bill. But there may have been a

  13 number of varieties as time went on.
- Q. So I just want to be clear. So, PSNH was not advocating for any study. It was saying to the Legislature, "We don't think there should be a study done"; correct?
- 18 A. (Mr. Large) We were advocating that Senate
  19 Bill 152 should not pass.
- Q. And Senate Bill 152 was to require further study of the cost of the Scrubber.
- 22 A. (Mr. Large) And I apologize for splitting
  23 hairs with you. But what I know of the

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legislative process is that there are
1
         amendments that change what a bill is at any
2
        given point in time.
3
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So, was PSNH opposed to a study bill? The testimony that Mr. Long is speaking Yes. to directly here is in opposition to Senate Bill 152. I can't --

CMSR. HONIGBERG: So, Mr. Large, assume for a moment that Senate Bill 152 was a study bill. If Senate Bill 152 was a study bill, Mr. Long was testifying against a study.

That is 13 WITNESS LARGE: 14 Yes. Thank you.

15 MS. FRIGNOCA: In fact, he 16 says on Page 39, on the top of Page 39,

17 "We're not advocating any study."

CMSR. HONIGBERG: I think 18

19 we're there, Ms. Frignoca.

correct.

20 MS. FRIGNOCA: Okay.

BY MS. FRIGNOCA: 21

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And referring back to Page 34, then, is it -the last sentence says, "I think the only end

is, I guess, give you a platform to say shut
the plant down."

And is it PSNH's belief that, if further study had been done, it would have been a platform to shut the plant down?

MR. NEEDLEMAN: I'll object again. I think she's calling for speculation. If she wants to ask a hypothetical about Mr. Large's understanding of his testimony, I think you've already said that's acceptable.

MS. FRIGNOCA: I didn't ask for that characterization. I simply asked if that was their position, that if there had been further study, it would have been a platform to shut the plant down.

CMSR. HONIGBERG: Mr. Large, do you understand the question?

WITNESS LARGE: I'm not certain that I do yet.

21 BY MS. FRIGNOCA:

Q. I'll ask it again. In early 2009, was it
PSNH's position that, if the study bill had

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been passed, it would have been a platform to
shut the plant down?
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- A. (Mr. Large) Can you help me understand what you mean by "a platform for" or "a platform to"?
- Q. I'm quoting from Mr. Long's testimony on the bottom of Page 34. So, by "platform," if the study bill had passed, it would have led to a shutdown of Merrimack Station.
- 10 A. (Mr. Large) It is not my testimony that if
  11 Senate Bill 152 had passed, that Merrimack
  12 Station would have shut down.
- 13 Q. It was Mr. Long's testimony before the

  14 Senate, however, that, as he said, "I think

  15 the only end is, I guess, give you a platform

  16 to say shut the plant down."

MR. NEEDLEMAN: I'm going to

object to the form of the question. I

don't --

CMSR. HONIGBERG: I'm going to sustain the objection.

MS. FRIGNOCA: No further questions.

20

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CMSR. HONIGBERG: Mr. Fabish,
1
2
         do you have any questions?
3
                         MR. FABISH:
                                       I do.
                                              Just a
4
         couple minutes.
5
                      CROSS-EXAMINATION
6
    BY MR. FABISH:
7
              My name is Zach Fabish. I'm an attorney
         for the Sierra Club, and I have just a couple
8
9
         of questions for you.
               Could I direct your attention to, I
10
         think it's Exhibit 20-9.
                                     This is the
11
12
         June 2008 PowerAdvocate's report.
                                              I think
         it's probably in a few different places,
13
14
         but...
                         CMSR. HONIGBERG:
15
                                            Whose
         testimony is Exhibit 20?
16
17
                         MR. FABISH:
                                       Mr. Hachey's.
         (Mr. Large) I need to beg my counsel to make
18
    Α.
19
         that available to me, please.
20
                         MR. PATCH:
                                     Have a Bates page?
                                       I don't have a
21
                         MR. FABISH:
22
         Bates page, no.
23
                         MR. PATCH:
                                      Is that an
```

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attachment?
1
2
                         MR. FABISH:
                                       Yeah.
                         MR. PATCH: Attachment 9?
3
                          SP. CMSR. IACOPINO:
4
5
         Fabish, Attachment 9?
                         MR. FABISH:
                                       I think so.
                                                     This
6
7
          is the Merrimack Station Clean Air Project
         analysis, dated June 17th, 2008, by
8
         PowerAdvocate.
9
                         MR. NEEDLEMAN:
                                          Got it.
10
11
                (Mr. Needleman hands document to witness.)
12
                         CMSR. HONIGBERG:
                                            Does anybody
13
         have a Bates page number that that's on?
14
                         MR. PATCH:
                                      Sixty-seven.
15
                         CMSR. HONIGBERG:
                                             Thank you.
16
          (Mr. Large) I apologize, but I don't have a
    Α.
17
         Bates page-referenced document.
18
         can --
    BY MR. FABISH:
19
20
         Do you have the document in front you?
    Q.
          (Mr. Large) I do at this point in time.
21
    Α.
                                                     But
22
          if we could please utilize the upper
23
         right-hand corner, that will expedite me
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1 finding the right page.
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- 2 Q. Great. How about the lower right-hand
- 3 corner? Will that work for you?
- 4 A. (Mr. Large) Either would be fine. Thank you.
- 5 Q. Okay. Great. Just really quickly, if you
- 6 take a look at Page 3.
- 7 A. (Mr. Large) I have Page 3.
- 8 Q. Excellent. So at the top of that it says
- 9 "Site-Specific Factors."
- 10 First of all, as background, are you
- familiar with this document? Have you seen
- 12 it before?
- 13 A. (Mr. Large) I have not reviewed it
- 14 previously, no.
- 15 Q. All right. Well, then, do you see the second
- full paragraph just above the table in the
- 17 middle of the page?
- 18 A. (Mr. Large) Begins with, "Based on the most
- 19 recent..."
- 20 Q. Yes, that would be the one.
- 21 A. (Mr. Large) Thank you.
- 22 Q. The last sentence there, beginning with --
- 23 (Court Reporter interrupts.)

```
I'm sorry. The last sentence of that
1
    Q.
2
         particular paragraph begins, "This adjusted
         cost falls within the benchmark range for
3
4
         projects of this size, as shown below...
5
         where market data indicates that construction
         costs for wet FGD systems in the U.S. have
6
7
         risen dramatically over the past several
         years and are currently in the range between
8
         $250 per kilowatt and $654 per kilowatt
9
         (median $467 for kilowatt) for similar-sized
10
11
         systems." Do you see that?
```

- 12 A. (Mr. Large) I do, in the draft report from
  13 June 17, 2008.
- Q. Great. And just so I understand, looking at
  a price per kilowatt, you essentially take
  the price of the project and then divide that
  by the capacity of the system; correct?
- 18 A. (Mr. Large) That would be the arithmetic that
  19 I would utilize, yes.
- Q. Okay. Great. Could I ask you to take a look
  at, I think it's Attachment 5 to your
  testimony.
- 23 A. (Mr. Large) That one I have.

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1 Q. Great. And this I have Bates numbers for.
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- 2 A. (Mr. Large) This is the September 2nd filing
- 3 to the Commission.
- 4 Q. Yes, it is. Yeah. So the Bates number that
- begins on... 486, I believe. I think you
- 6 testified earlier that you helped prepare
- 7 this document?
- 8 A. (Mr. Large) I did.
- 9 Q. Okay. And so you're certainly familiar with
- 10 it.
- 11 A. (Mr. Large) Yes.
- 12 Q. If you could look at Bates 493?
- 13 A. (Mr. Large) 493?
- 14 Q. Yes.
- 15 A. (Mr. Large) I have that.
- 16 Q. Okay. At the bottom, big Roman II, "Project
- 17 Cost Estimate, and then underneath that
- 18 there's is a Subsection B?
- 19 A. (Mr. Large) Yes.
- 20 Q. And the sentence there reads, "The current
- 21 project cost estimate is in line with
- 22 recently published information on other
- 23 multiple-unit scrubber installations

occurring elsewhere in the country." Is that

- 2 correct?
- 3 (Witness reviews document.)
- 4 A. (Mr. Large) Yes.
- 5 Q. Okay. And there's a reference to "Oak Creek
- 6 Units 5 through 8" in that paragraph;
- 7 correct?
- 8 A. (Mr. Large) There is.
- 9 Q. And it describes project "to install a
- 10 Scrubber and Selective Catalytic Reduction
- 11 technologies" at these units?
- 12 A. (Mr. Large) Yes.
- 13 Q. Total cost of \$774 million?
- 14 A. (Mr. Large) Yes.
- 15 Q. And this document lists the megawattage for
- those units as 525 megawatts?
- 17 A. (Mr. Large) That's what it appears there,
- 18 yes.
- 19 Q. Okay. And so if you take \$774 million and
- divide that by 525 megawatts, you get \$1,474
- 21 per kilowatt. Is that --
- 22 A. (Mr. Large) Mr. Vancho and I concur that
- 23 that's the math.

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1 Q. Okay. Great.
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2 MR. FABISH: I'd like to mark 3 something as an exhibit.

4 (Ms. Frignoca distributes document.)

5 MR. FABISH: Will this be 124?

6 Or what number are we up to?

7 CMSR. HONIGBERG: Yes, 124.

8 MR. FABISH: Okay. If we

9 could mark this as 124.

10 (The document, as described, was herewith

marked as Exhibit 124 for identification.)

- 12 BY MR. FABISH:
- 13 Q. So, do you need a second to review the
- document, or do you... you got it?
- 15 A. (Mr. Large) I do.
- 16 Q. So if you look down at the bottom of that
- page, this is -- well, let me go back a bit.

18 This is Wisconsin Energy, the operator

of Oak Creek Power Plants, a page concerning

20 Oak Creek Power Plant. If you look down at

the bottom of the page where it says,

"Generating Capacity," it lists megawattage

capacities for Units 5, 6, 7 and 8.

- 1 A. (Mr. Large) As of March of 2014, yes.
- 2 Q. Hmm-hmm. It also lists just above that the
- 3 "Year in Service" date for those five
- units -- or for Units 5, 6, 7 and 8; correct?
- 5 A. (Mr. Large) I guess I'll add a clarifier.
- 6 "Original" in-service date.
- 7 Q. Sure. So you see the generating capacity for
- 8 those four units as being 261 megawatts, 264
- 9 megawatts, 298 megawatts and 312 megawatts?
- 10 A. (Mr. Large)I do.
- 11 Q. And I know you don't have a calculator or
- anything, but, like, what's the total
- megawattage that adds up to?
- 14 A. (Mr. Large) We do have a calculator.
- 15 Q. Oh, you do? Fantastic.
- 16 A. (Mr. Large) Mr. Vancho is better with the
- 17 calculator than I am.
- 18 Looks like 1135.
- 19 Q. So if you divide 774 million by 1135, do you
- get \$1,474 per kilowatt?
- 21 A. (Mr. Large) I'm confident you do not.
- 22 Q. What do you get, if we could press Mr. Vancho
- again into service with the calculator?

1 A. (Mr. Vancho) Six eighty-one.

2 BY MR. FABISH:

- Q. So, using the megawattage reported on
  Wisconsin Energy's page here for Oak Creek,
  the installed cost for that project would
  actually be substantially less than the
  \$1,474 listed in the September document in
  that 08-103 document -- or docket; correct?
- 9 A. (Mr. Large) Well, again, I need to come back
  10 to, I don't know what may or may not have
  11 been done at Oak Creek with regard to
  12 capacity additions in the time frame between
  13 2008 and 2014. So I don't know that we're
  14 comparing apples to apples.
- 15 Q. Do you think it's reasonable that they would
  16 have more than doubled capacity of those four
  17 units in the past six years?

18 (Witness reviews document.)

- 19 A. (Mr. Large) Not likely, but I don't know.
- 20 Q. Sure. No, I understand. Assuming that this
  21 is correct, that would then -- let me back up
  22 here a moment. Strike that.

Operating under the assumption that this

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is correct and that there hasn't been major
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- expansion in capacity at Oak Creek, that
- means that the information in Subpart B under
- 4 Roman Numeral II on Bates Page 493 of this
- document, "as-installed cost" would be
- 6 significantly less than what's shown in that
- 7 document?
- 8 A. (Mr. Large) Well, presuming that the
- 9 \$774 million figure as reported in SNL prior
- 10 to its construction remains accurate.
- 11 0. Sure.
- 12 A. (Mr. Large) The arithmetic of 774 divided by
- 13 the much larger capacities that we added up
- 14 would produce a lower result.
- 15 Q. Okay. And that lower result?
- 16 A. (Mr. Large) Was 682 per --
- 17 Q. And that number was less than --
- 18 (Court Reporter interrupts.)
- 19 A. (Mr. Large) Was 682 per kilowatt.
- 20 Q. Yeah, because you rounded it; right? When I
- 21 did it, I rounded it.
- MR. FABISH: Okay. I think
- that's all I have. Thank you.

1 CMSR. HONIGBERG: Commissioner

2 Iacopino.

3 SP. CMSR. IACOPINO: Thank

4 you.

5 INTERROGATORIES BY SP. CMSR. IACOPINO:

- 6 Q. Mr. Large, I want to refer you back to
- 7 Exhibit 118, being your internal Capital
- 8 Project Approval Policies and Procedures.
- 9 And if I understood your testimony correctly,
- these, or some version of these, were in
- 11 effect at the time that you made your
- 12 presentations to the RaCC and to the board of
- 13 trustees; correct?
- 14 A. (Mr. Large) Yes.
- 15 Q. On Page 5 of those procedures, there's a
- 16 Roman Numeral IV, "Capital Project Monitoring
- 17 Review."
- 18 A. (Mr. Large) Yes.
- 19 Q. And if I understand that section correctly,
- and I've only read it today, these rules
- 21 require that there be a monthly report to
- 22 some committee. I assume the --
- 23 A. (Mr. Large) It would be the RaCC.

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1 Q. Okay. And in that monthly report, you're
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- 2 supposed to indicate any triggering events?
- 3 A. (Mr. Large) Yes.
- 4 Q. And the triggering events are -- well, things
- 5 that trigger -- things that the term
- 6 "triggering events" may include are listed
- 7 above that; correct?
- 8 A. (Mr. Large) Yes.
- 9 Q. One of which is significant increases in key
- inputs, such as commodity price; is that
- 11 correct?
- 12 A. (Mr. Large) Yes.
- 13 Q. Did you -- would you be the person -- or
- 14 would you be the people within the Company
- who are responsible for providing those
- 16 monthly reports?
- 17 A. (Mr. Large) Yes.
- 18 Q. Did you provide monthly reports to the RaCC?
- 19 A. (Mr. Large) Absolutely.
- 20 Q. Did you -- are they in any part of this
- 21 record, as far as you know?
- 22 A. (Mr. Large) I believe they would be -- well,
- I'm not the best witness to answer that

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question. So I can't say with certainty.
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- It's my belief that that would have been
- included as part of the Jacobs Consultancy
- 4 Review. But that's my belief as opposed
- 5 to --
- 6 Q. Who is the best person, in your opinion?
- 7 A. (Mr. Large) Mr. Smagula would likely be the
- 8 best person.
- 9 Q. Thank you. Do you know if you reported any
- 10 increases in commodity prices in the course
- of your monthly reports to the RaCC,
- 12 specifically gas?
- 13 A. (Mr. Large) I'm confident that we did not
- 14 report an increase in commodity prices at the
- 15 Racc.
- 16 Q. Would that be because you interpret that to
- mean the commodity that's actually used at
- 18 the plant being coal?
- 19 A. (Mr. Large) No. It's actually -- my
- 20 interpretation of those words is the
- 21 commodity is associated with the construction
- effort.
- 23 Q. Oh, I see. Okay.

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1 A. (Mr. Large) And the good fortune or bad
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- 2 fortune is that the run-up in commodity
- 3 prices had occurred prior to our going to the
- 4 Racc for its authorization.
- 5 Q. So I would be wrong, then, to interpret that
- to mean the commodity prices that underlaid
- 7 your economic analysis.
- 8 A. (Mr. Large) I would say that it was beyond
- 9 what was intended, yeah.
- 10 Q. Well, they're your company's rules. I don't
- 11 pretend to know them. So I just want to make
- sure I understand your interpretation. Okay
- 13 A. (Mr. Vancho) They're typically increases in
- the capital costs. So, certainly the
- 15 commodity prices -- as Mr. Large said,
- 16 underlying commodities associated with
- 17 construction costs.
- 18 Q. I want to also draw your attention to your
- 19 presentation to -- I guess the RaCC came
- 20 first; is that correct?
- 21 A. (Mr. Large) Yes.
- 22 Q. Was that in April of 2008? April 25, 2008?
- 23 A. (Mr. Large) There are numerous presentations

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1 to RaCC. As you are alluding to, the monthly
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- report is a presentation to RaCC, so... the
- one that we spent the most time on was the
- 4 June 25th presentation.
- 5 Q. Do you have an April 25th in the set of
- discussion documents in front of you?
- 7 A. (Mr. Large) I appreciate your
- 8 characterization of the document. Yes.
- 9 Q. You do?
- 10 A. (Mr. Large) I do.
- 11 Q. Okay.
- 12 A. (Mr. Large) That's Attachment 2 to our
- testimony, if that helps, 23-2.
- 14 Q. Do you have a Bates page for it?
- 15 A. (Mr. Large) I do. Sorry. 420.
- 16 Q. Thank you. I have a couple of questions
- 17 regarding that. The first is where somebody
- 18 left off with one of the witnesses yesterday.
- 19 Thank you.
- The first is where somebody left off
- 21 with the witness yesterday; and that is, in
- this report, there's is a reference to the
- cost of the Project having gone up to \$425

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million, I believe. I'm looking for that
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- 2 page so that I can --
- 3 A. (Mr. Large) On Bates Page 431?
- 4 Q. I take it that figure came from you?
- 5 A. (Mr. Large) From PSNH, not me specifically.
- I was far less engaged in project cost
- 7 development.
- 8 Q. But that figure came at some point prior to
- 9 the date that appears on the front of this
- 10 document; correct?
- 11 A. (Mr. Large) It would have to, yes.
- 12 Q. Do you know when -- the exact date when they
- 13 determined that the capital investment would
- 14 be \$425 million?
- 15 A. (Mr. Large) Well, I would caution that we're
- 16 taking that as a definitive, specific number.
- 17 It certainly has three digits, but I believe
- 18 that that was the estimate as the contracts
- 19 were being received and being assembled. So,
- it was not the final estimate. It was the
- estimate as we knew, based upon the
- 22 information that had come in the door at that
- point in time. So it was the growing,

- 1 current thinking about the price.
- Q. I understand that. What I'm trying to figure out is -- and I know it wasn't the final
- 4 estimate that you came up with, or that your
- 5 company came up with. But what I'm trying to
- figure out is, do you know generally when,
- 7 prior to April 25th, 2008, this \$425 million
- 8 capital investment estimate was determined?
- 9 A. (Mr. Large) I'm sorry. I would not.
- 10 Q. Okay.
- 11 A. (Mr. Large) Mr. Smagula would be the best
- 12 person to describe that.
- 13 Q. In your presentations and your discussion
- 14 documents for the Project, pretty much with
- 15 everybody -- with RaCC, with your board of
- 16 trust, with the Staff -- did you take into
- 17 account risks of future environmental
- 18 regulations?
- 19 A. (Mr. Large) They were inherent in the
- 20 economic analysis.
- 21 Q. Explain to me how they were "inherent" in
- your economic analysis.
- 23 A. (Mr. Large) Certainly. In two ways, in my

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view: First, specifically associated with the potential for a cooling tower, we ran a case that added a cooling tower into the economic analysis. So there was a plus $30 million capital investment case.
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- 6 Q. Okay. Now, when did that analysis occur?
- 7 A. (Mr. Vancho) This was within the summer of 2008, this part of the RaCC presentation.

(Court Reporter interrupts.)

10 A. (Mr. Vancho) That we see in the RaCC
11 presentations.

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12 Α. (Mr. Large) And then the second component was 13 far less specific. But the capital 14 projections for future needs at Merrimack 15 Station, we included a stream of capital dollars on a year-by-year basis, presuming 16 17 that the plant would continue to operate and have capital needs. And there was an 18 inclusion of \$9 million per year for capital. 19 20 It was not specified to environmental work, any other specific kind of work, but, I 21 22 guess, the word "place holder," "proxy" for 23 capital needs ongoing through the life -- the

<sup>{</sup>DE 11-250}(Day 6/"EARLY" AFTERNOON Session ONLY]{10-22-14}

remaining life of the plant.

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- Q. In your preparation of the economic analysis and your sort of making plans for contingencies -- I don't know if that's the best way to say it. But for environmental contingencies, did the fact that you had a NPDES permit that was very old play any role in your factoring into the economic analysis that you did?
- (Mr. Large) We did not make a specific --Α. other than for the cooling tower, we did not make a specific capital cost adder for any other NPDES equipment. As I said, we did have the \$9 million a year, which was straight-lined to be able to be utilized for whatever purposes were necessary at that point in time. It could have covered a variety of different environmental costs, including NPDES needs. But, as well, as has been discussed here, what's ended up included in the capital cost associated with the Project is a very significant component of what's being debated regarding our draft

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1 NPDES permit.
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- Q. I'm sorry. I don't understand the last part of your answer.
- 4 (Mr. Large) Sure. The whole conversation Α. 5 about the secondary wastewater treatment facility is a significant component of what's 6 7 being debated regarding the NPDES permit at this point in time. So it was not considered 8 outside of the Scrubber cost analysis. 9 was -- in the end, it's part of the Scrubber 10 11 cost analysis.
- Q. And so do you say that's part of it, in the sense of it's part of that \$9 million a year that you --
- A. (Mr. Large) No. I'm sorry. We started with an estimate of \$457 million. All right?
- 17 Q. Okay.
- 18 A. (Mr. Large) We actually spent \$422 million.
- 19 Q. Right.
- A. (Mr. Large) Of that \$422 million,
  approximately \$30 million is associated with
  the secondary wastewater treatment plant,
  which is an item that has come forward as

{DE 11-250}(Day 6/"EARLY" AFTERNOON Session ONLY]{10-22-14}

- part of the NPDES process. We didn't know
  that at that point in time. But the dollars
  associated with that work really has been
  folded into the Scrubber analysis, as opposed
  to separate from it.
- Q. But what I'm trying to focus on is, at the time that your planning was going on, when you actually were doing your economic analysis, did you have discussions about the status of your NPDES permit?
- 11 A. (Mr. Large) Yes, we did.
- Q. And who would have been included in those discussions?
- 14 A. (Mr. Large) Mr. Smagula, Ms. Tillotson, our
  15 legal team, our members of our generation
  16 Staff.
- 17 So I guess the simplest way to understand 0. your answer is that it worked out okay 18 because the Project came in under what you 19 20 were expecting, and it was able to absorb the 21 cost of the secondary wastewater treatment 22 I understand that. But I'm trying to plant. 23 look at this from the decision-maker's

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planning, at the time that you're planning
the plant. I'm trying to figure out if,
other than the $9 million and the $30 million
for a cooling tower, which is a different
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- 6 A. (Mr. Large) It's an NPDES issue. But yes.
- Q. Right. But it's different than secondary wastewater treatment.
- 9 A. (Mr. Large) Yes.
- 10 Q. I'm trying to figure out if that...

issue, if there was any --

- 11 A. (Mr. Large) May I try and help?
- 12 Q. Yes, please.

- 13 A. (Mr. Large) I believe that, fundamentally,
  14 all that's left, other than those two items,
  15 would be screen water intake, screen
- upgrades. And those would certainly be cared
- for -- the cost of those would certainly be
- cared for within the \$9 million annually that
- we included in our analysis.
- 20 Q. During the course of your discussion in the
- 21 planning of your economic analysis,
- 22 undertaking the economic analysis, did you
- consider at all that you might need a

1 secondary wastewater treatment facility?

- 2 A. (Mr. Large) At the time of the development of
- 3 the \$457 million, we did not include an
- 4 estimate for a secondary wastewater treatment
- 5 that we later did install.
- 6 Q. And do you know why not?
- 7 A. (Mr. Large) Because we believed that the
- 8 effluent that we expected to discharge would
- 9 have been permittable.
- 10 Q. Okay. So you didn't believe there would be a
- 11 need for it.
- 12 A. (Mr. Large) That is correct.
- 13 Q. In one of your, I believe it's your
- 14 presentation to the board of trustees, in the
- 15 discussion documents that went along with
- 16 that, I think you were asked this question a
- 17 little bit earlier, there was a suggestion in
- 18 those documents that not going forward with
- 19 the Project would affect the entire fleet of
- 20 fossil plants. Do you recall that?
- 21 A. (Mr. Large) I do recall that discussion, yes.
- 22 Q. What was the -- why were you suggesting that?
- What led you to make that determination for

- 1 your board of trustees?
- 2 A. (Mr. Large) "Determination" might be a strong word.
- 4 Q. That "suggestion."
- 5 (Mr. Large) Right. We have long operated the Α. facilities as a group, as a fleet. We have a 6 maintenance force that is based in a 7 centralized location that provides services 8 to each of these facilities. We have a 9 common staff team based in Manchester that 10 11 provides environmental services, engineering services to the facilities. 12 So, the costs associated with those administrative support 13 14 and additional maintenance efforts, taking Merrimack Station out of the mix -- they're 15 our biggest customer -- you know, would make 16 17 the administrative operation of PSNH as a fleet with that staff more expensive. 18 belief is that, as we had fewer and fewer 19 megawatts of capacity, and fewer stations to 20 21 care for, the cost effectiveness of the way 22 that we managed it historically would be 23 significantly diminished and maybe made very

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1 bad.
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- Q. Did your consideration in making that
  suggestion to your board of trustees have
  anything to do with environmental mercury
  requirements?
- 6 A. No.

23

- 7 SP. CMSR. IACOPINO: I have no further questions.
- 9 INTERROGATORIES BY CMSR. HONIGBERG:
- 10 Q. Good afternoon, gentlemen.
- 11 A. (Mr. Large) Good afternoon.
- 12 A. (Mr. Vancho) Good afternoon.
- 13 Q. I want to ask you, as many others have, about
  14 the presentations to the RaCC, presentations
  15 to the board of trustees, and also the
  16 meeting with the PUC Staff.

I think it was Mr. Patch who asked you some questions about what's been marked as
Exhibit 43. It's a response to a data
request, TransCanada 6-201. Is that a
document that's still somewhere up on your
desk?

A. (Mr. Large) I'm sure it is.

{DE 11-250}(Day 6/"EARLY" AFTERNOON Session ONLY]{10-22-14}

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Q. I'm sure, also, that some counsel, some enterprising counsel could come up with a copy of it.
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- A. (Mr. Large) Is there a chance we have a Bates

  page reference that we might --
- Q. It's a single page. I think Mr. Needleman isgoing to win the race.

8 MR. NEEDLEMAN: 6-201?

9 CMSR. HONIGBERG: Yes.

10 (Mr. Needleman hands document to witness.)

- 11 BY CMSR. HONIGBERG:
- 12 Q. Yes. It's a data response, 8/8/2014.
- 13 A. (Mr. Large) I have it, yes. Thank you.
- 14 Q. You see the question, the reference to Page 4
- of your testimony? And it's a question about
- what information was provided to the PUC and
- the OCA and to the RaCC and to the board of
- 18 trustees. See that?
- 19 A. (Mr. Large) Yes.
- 20 Q. The answer says, "The facts shared with the
- 21 PUC Staff and OCA were the same as those
- shared with the RaCC." Do you see that
- 23 sentence?

- 1 A. (Mr. Large) I do.
- Q. There's no reference in that sentence to the board of trustees, and I'm wondering if
- 4 that's intentional.

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A. (Mr. Large) In my witness preparation, I
learned from my illustrious legal team that I
responded to the question that was asked. It
asked "was shared with the PUC and the OCA as
with the Risk and Capital Committee."

I can tell you further that the information provided to the RaCC and the board is fundamentally very much the same information. We actually went through what many of the differences were.

- Q. I think that's right. I think I do
  understand your testimony to be that some of
  the information that is in the presentation
  documents that were used with the RaCC and
  the board, while not delivered in writing to
  the PUC Staff, was delivered orally to the
  PUC Staff; is that correct?
- 22 A. (Mr. Large) Yes.
- 23 Q. And I'm thinking specifically of some of the

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information that's on pages -- that are
1
         titled "Key Financial Takeaways" in both --
2
         there's one for the RaCC, which is Bates
3
4
         Page 447, and the Key Financial Takeaways to
5
         the board of trustees is Page 470.
                (Witness reviews document.)
6
7
         (Mr. Large) Instead, I would have said it was
    Α.
         the information that was contained in the
8
         financial scenarios and financial
9
         sensitivities, which is summarized in the key
10
11
         takeaways. It was more numerical in its
         discussion.
12
         And one of the numbers included, that you
13
    Q.
14
         conveyed to the Staff orally, was the $5.29
15
         spread?
16
         (Mr. Large) Yes.
    Α.
17
         Happily, everything else I had flagged was
    0.
         asked by somebody else, so I have no further
18
19
         questions.
20
                         CMSR. HONIGBERG:
                                            Mr.
21
         Needleman, do you have any redirect?
22
                         MR. NEEDLEMAN:
                                          Just quickly,
23
         I think.
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#### REDIRECT EXAMINATION

2 BY MR. NEEDLEMAN:

- 3 Q. Mr. Large, when Ms. Chamberlin was asking you
- 4 questions earlier, she was focusing on
- 5 Exhibit 118, which are the procedures that
- 6 you employ with respect to projects that are
- 7 viewed by RaCC. Do you recall that?
- 8 A. (Mr. Large) I do.
- 9 Q. And it's my understanding that, in this case,
- the Jacobs report did an analysis of the
- 11 manner in which PSNH complied with its own
- internal procedures regarding the management
- of the Scrubber Project; is that right?
- 14 A. (Mr. Large) That's my understanding as well.
- 15 Q. Do you recall what Jacobs said?
- 16 A. (Mr. Large) I believe they found that we were
- in compliance with our Company's policies and
- 18 procedures.
- 19 Q. And then the only other question I wanted to
- ask relates to what Mr. Fabish was asking a
- 21 moment ago, about the Oak Creek Power Plant,
- Exhibit 124, if you could turn to that.
- 23 A. (Mr. Large) I have that again, yes.

```
1 Q. And Mr. Fabish was referring you to one of
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- your exhibits, one of the PUC presentations.
- 3 And I'm looking in particular at Bates Page
- 4 000493. Could you also have that handy?
- 5 A. (Mr. Large) I have it, yes.
- 6 Q. All right. We were focusing on this issue as
- 7 to what was reported to the PUC about the Oak
- 8 Creek Units 5 through 8 and this notion of
- 9 them being a total of 525 megawatts. Do you
- 10 recall that?
- 11 A. (Mr. Large) I do, yes.
- 12 Q. Can you go to the first page of Exhibit 124
- that Mr. Fabish was asking you about?
- 14 A. (Mr. Large) I have that, yes.
- 15 Q. And look at the bottom of the page where it
- lists the megawatts of the units.
- 17 A. (Mr. Large) Yes.
- 18 Q. And what's the total megawatts of Units 5 and
- 19 6 added together?
- 20 A. (Mr. Large) It's 525.
- 21 Q. Okay. Now can you turn over to the next page
- of that exhibit and look at the left-hand
- side, all the way at the bottom where it says

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"wet flue gas desulfurization." Do you see
```

- 2 that?
- 3 A. (Mr. Large) I do.
- 4 Q. And can you read the second sentence?
- 5 A. (Mr. Large) I'll read the whole thing. "WFGD
- 6 controls are reducing sulfur dioxide (SO2)
- 7 emissions by more than 90 percent. One WFGD
- 8 system was installed for each pair of
- 9 generating units."
- 10 Q. So, is it possible that when you made your
- reference to "Oak Creek" in that PUC filing,
- that you were referring to one FGD system for
- Units 5 and 6, which total 525 megawatts?
- 14 A. (Mr. Large) That is possible.
- 15 Q. Does this do anything to refresh your
- 16 recollection about that?
- 17 A. (Mr. Large) Not specifically, unfortunately.
- 18 Q. Okay. Thank you. Nothing further.
- 19 CMSR. HONIGBERG: Thank you,
- gentlemen. I think we have nothing else for
- 21 you this afternoon.
- 22 It would be a very good time
- for a break and a long stretch.

		70
1	MR. NEEDLEMAN: Sure.	
2	CMSR. HONIGBERG: And when we	
3	come back I can never remember. Who are	
4	we doing next?	
5	MR. NEEDLEMAN: I think it's	
6	Doctors Harrison and Kaufman.	
7	CMSR. HONIGBERG: All right.	
8	So we'll take a 15-minute break and go	
9	straight through to 5:30. Thank you all.	
10	Recess taken at 3:42 p.m.	
11	(Whereupon a recess was taken at 3:42 PM,	
12	and the hearing resumed at 4:00 PM, which	
13	will be filed under separate cover	
14	identified as "Day 6 LATE Afternoon.)	
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{DE 11-250}(Day 6/"EARLY" AFTERNOON Session ONLY]{10-22-14}

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#### CERTIFICATE

I, Susan J. Robidas, a Licensed

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

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

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

DE 11 200 TOBETO	DERVICE COMMITTEE	ND COST RECOVER	Y	DEREBBER COST
	19:4	34:21;40:12;44:2;	66:16	10:14;30:23;31:8:
ф	acceptable (1)	50:16;58:6;61:2;	apparently (1)	35:3,9;52:18;56:1
\$				
	- 63:11	63:7,22;72:23;73:9;	6:4	15;62:9;75:22
§1,474 (3)	accepted (1)	93:23	appear (2)	Assuming (1)
70:20;72:20;73:7	33:23	against (1)	24:4,7	73:20
	access (1)	62:11	appears (6)	assumption (15)
11 (12)	4:19	agency (1)	5:6;15:19;16:1;	5:6,15,20,23;6:15;
5:5,15,19;6:5,14;				
8:13;9:16,20;10:5,	according (2)	34:4	28:22;70:17;80:9	7:12;8:6,7;9:13;
17;11:15;16:12	5:4;28:9	ago (3)	apples (2)	10:18;11:6;34:5;
12 (1)	account (1)	32:21;45:11;93:21	73:14,14	43:1,2;73:23
34:15	81:17	agree (14)	appreciate (3)	assumptions (5)
	accurate (4)	10:23;15:2;27:15;	51:7:54:9:79:7	33:20;36:15;37:3;
132 (1)	` /		, ,	
40:8	5:14;31:1;36:17;	32:9;40:3,5;41:4,9;	approach (4)	48:6,13
14.62 (1)	74:10	49:18;50:1,10;55:1,	13:6,7;14:20,21	assure (1)
8:16	accurately (3)	4;57:10	approaches (2)	54:14
250 (1)	32:15;33:8;34:9	ahead (1)	13:6;15:4	Attached (1)
	actions (1)	7:5	appropriate (1)	54:4
68:9				
30 (3)	57:22	Air (1)	16:3	Attachment (17)
82:4;84:21;86:3	actual (6)	66:7	appropriately (1)	4:15;6:1;10:14;
122 (2)	8:17;9:8;10:18;	alike (1)	13:19	15:5;19:16;21:9;
	14:4;16:19;28:4	39:3	Approval (1)	38:8,11,14,17;54:1
84:18,20	actually (14)		75:8	
125 (3)		alluding (1)		17;66:1,3,5;68:21;
79:23;80:14;81:7	5:9;18:4;19:13,21;	79:1	approximately (2)	79:12
157 (3)	28:6,10;34:13;41:11;	along (2)	40:8;84:21	attempting (1)
	73:6;77:17,19;84:18;	60:1;87:15	<b>April</b> (11)	48:6
37:21;84:16;87:3	85:8;91:13	alternative (1)	6:12;41:11;42:5;	attention (2)
<b>167</b> (1)				
68:10	add (1)	51:16	43:1,5,10,11;78:22,	65:10;78:18
5.29 (1)	72:5	Alternatives (5)	22;79:5;81:7	attorney (2)
92:14	added (4)	13:1,5,11;50:19,19	arguing (3)	44:9;65:7
	14:9;74:13;82:3;	although (2)	58:22;59:14,17	August (4)
654 (1)	94:19	25:10;35:7	argument (1)	22:22;23:1;45:2;
68:9				
774 (3)	adder (1)	always (1)	9:10	47:1
70:13,19;74:9	83:12	32:22	arithmetic (3)	authorization (2)
	additional (6)	amendments (1)	11:15;68:18;74:12	36:18;78:4
8.37 (2)	40:17;45:8,9;	62:2	around (1)	available (5)
8:14;9:4	46:22;47:1;88:14		6:3	9:23;11:2;24:19;
9 (5)	, ,	AMIDON (1)		
82:19;83:14;84:13;	additions (1)	12:13	arrow (2)	50:5;65:19
86:3,18	73:12	amount (1)	58:19;61:1	average (3)
00.3,10	adds (1)	37:20	article (3)	9:16;16:11,14
-	72:13	analyses (7)	38:16,20;40:3	avoid (1)
L				
	adequate (1)	19:1;40:17;41:22;	as-installed (1)	13:14
osts] (1)	50:22	42:16,17;45:10;	74:5	Avoided (1)
	adjusted (1)	46:23	assembled (1)	12:19
38:21	68:2	analysis (42)	80:19	
ic] (9)				В
29:22;30:5,6,21;	adjustment (1)	22:13;27:3;37:23;	assessing (1)	<b>D</b>
40:9,10;42:9;58:16,	10:4	40:9;42:3,20;44:13,	5:22	
16	administrative (2)	22;45:4,15;46:7,10,	assessment (1)	Back (14)
10	88:13,17	12,17;47:8,10,20;	14:4	4:7;12:22;18:9;
<b>A</b>	admitted (1)	49:4,8,15;52:4,4,5,	asset (1)	26:22;27:7;45:23;
${f A}$			` /	
	54:5	10,16,21;66:8;78:7;	48:7	58:17;59:3;62:22;
1.1 (1)	advance (1)	81:20,22;82:4,6;83:2,	assets (1)	71:17;73:9,21;75:
12:23	42:18	8;84:9,11;85:4,9;	52:12	96:3
	advise (1)	86:19,21,22;93:10	assists (1)	background (1)
111TT7 / I I I		annually (1)	22:8	67:10
	38.6	amuany (1 <i>)</i>		
37:19	38:6	06.10	associated (13)	backwards (1)
37:19	advocating (3)	86:18		
37:19 ble (3)		86:18 answered (1)	13:13;27:4;39:20;	22:21
37:19 ble (3) 6:23;83:15;85:20	advocating (3) 61:15,18;62:17	answered (1)	13:13;27:4;39:20;	
37:19 ble (3) 6:23;83:15;85:20 bove (3)	advocating (3) 61:15,18;62:17 affect (1)	answered (1) 5:9	13:13;27:4;39:20; 46:14;49:9;59:8;	bad (5)
37:19 ble (3) 6:23;83:15;85:20	advocating (3) 61:15,18;62:17 affect (1) 87:19	answered (1) 5:9 anticipated (1)	13:13;27:4;39:20; 46:14;49:9;59:8; 77:21;78:16;82:1;	<b>bad (5)</b> 39:2;58:4,16;78:1;
37:19 ble (3) 6:23;83:15;85:20 bove (3) 67:16;72:2;76:7	advocating (3) 61:15,18;62:17 affect (1) 87:19 AFTERNOON (7)	answered (1) 5:9 anticipated (1) 48:11	13:13;27:4;39:20; 46:14;49:9;59:8; 77:21;78:16;82:1; 83:21;84:21;85:3;	<b>bad (5)</b> 39:2;58:4,16;78:1; 89:1
ble (3) 6:23;83:15;85:20 bove (3) 67:16;72:2;76:7 .bsolutely (2)	advocating (3) 61:15,18;62:17 affect (1) 87:19	answered (1) 5:9 anticipated (1)	13:13;27:4;39:20; 46:14;49:9;59:8; 77:21;78:16;82:1;	<b>bad (5)</b> 39:2;58:4,16;78:1;
37:19 ble (3) 6:23;83:15;85:20 bove (3) 67:16;72:2;76:7 bsolutely (2) 49:14;76:19	advocating (3) 61:15,18;62:17 affect (1) 87:19 AFTERNOON (7) 4:1;44:8;89:10,11,	answered (1) 5:9 anticipated (1) 48:11 apologize (10)	13:13;27:4;39:20; 46:14;49:9;59:8; 77:21;78:16;82:1; 83:21;84:21;85:3; 88:13	bad (5) 39:2;58:4,16;78:1; 89:1 base (2)
37:19 ble (3) 6:23;83:15;85:20 bove (3) 67:16;72:2;76:7 bsolutely (2) 49:14;76:19 bsorb (1)	advocating (3) 61:15,18;62:17 affect (1) 87:19 AFTERNOON (7) 4:1;44:8;89:10,11, 12;95:21;96:14	answered (1) 5:9 anticipated (1) 48:11 apologize (10) 4:21;17:4;22:3;	13:13;27:4;39:20; 46:14;49:9;59:8; 77:21;78:16;82:1; 83:21;84:21;85:3; 88:13 Associates (1)	bad (5) 39:2;58:4,16;78:1; 89:1 base (2) 9:21;11:6
37:19 ble (3) 6:23;83:15;85:20 bove (3) 67:16;72:2;76:7 bsolutely (2) 49:14;76:19	advocating (3) 61:15,18;62:17 affect (1) 87:19 AFTERNOON (7) 4:1;44:8;89:10,11,	answered (1) 5:9 anticipated (1) 48:11 apologize (10)	13:13;27:4;39:20; 46:14;49:9;59:8; 77:21;78:16;82:1; 83:21;84:21;85:3; 88:13	bad (5) 39:2;58:4,16;78:1; 89:1 base (2)

	1 A	ND COST RECOVER	Ý	
based (9)	61:5,7,10,12,19,20;	63:7	69:9;78:14;80:17;	15;66:4,12,15;71:7;
9:1;10:18;36:16;	62:2,4,7,9,10,10,11;	came (7)	81:23;86:16,17	75:1,3,5;89:7,9;90:9,
41:20;42:22;67:18;	63:23;64:8,11	24:3;78:19;80:4,8;	certainty (1)	11;92:20;95:19;96:2,
				7
80:21;88:7,10	bit (3)	81:4,5;85:19	77:1	· •
basically (4)	25:17;71:17;87:17	can (41)	Chairman (2)	coal (3)
6:2;13:5;43:6,7	blended (1)	4:4,5;12:14;14:3;	18:5;27:18	18:6;36:13;77:18
basis (10)	16:2	20:21;21:3;22:6,10;	Chamberlin (3)	coal-fired (1)
6:4;7:9;8:16,21;	board (15)	23:9,13,22;24:21,23;	17:8,9;93:3	47:13
9:11;10:12;24:2;	36:10,19;38:7;	30:12,15;31:17;	chance (1)	Column (3)
25:21;36:21;82:16	46:15;75:12;81:15;	34:19;39:7,21;44:4;	90:4	7:7,8,9
<b>Bates</b> (22)	87:14;88:1;89:3,15;	45:22;54:8,12,23;	Change (6)	combined-cycle (1)
4:16;5:1;7:2;	90:17;91:3,12,19;	55:16,22;56:5;57:1,4,	15:16;40:19;41:8,	51:2
11:14;15:8;38:11,13;	92:5	8;60:10,14,15;64:3;	15;43:8;62:2	comment (1)
41:6,7;65:20,22;	both (2)	66:18;80:2;91:10;	changed (4)	30:2
66:13,17;69:1,4,12;	15:21;92:2	94:12,21;95:4;96:3	36:14;51:22;52:1,3	Commission (20)
74:4;79:14;80:3;	bottom (9)	cancel (1)	changes (1)	15:6,11,20;19:20;
		42:5		
90:4;92:3;94:3	13:16;57:19;60:22;		36:22	29:23;30:3,19;32:3;
became (1)	64:7;69:16;71:16,21;	cancellation (1)	changing (2)	34:2,13;38:9,15;
42:14	94:15,23	41:17	35:15,16	46:23;47:16;49:13;
become (1)	break (5)	cap (1)	characterization (5)	57:22;58:5;59:21;
39:4	4:22;18:15;21:3;	53:5	37:15;48:3;59:5;	60:10;69:3
becoming (1)	95:23;96:8	capability (1)	63:13;79:8	Commissioner (1)
42:18	bring (2)	14:15	check (3)	75:1
beg (1)	51:15;54:12	capacities (2)	19:4;41:10,13	Commissioners (1)
65:18	broke (1)	71:23;74:13	choice (2)	19:18
began (3)	4:13	capacity (11)	7:16;57:8	Commission's (2)
6:19;7:11;38:2	brought (1)	48:23;50:6,22;	chose (1)	45:2,6
begin (2)	10:1	51:19;68:17;71:22;	53:10	Committee (10)
44:12;56:8	Btu (4)	72:7;73:12,16;74:2;	chosen (1)	32:17;38:6;42:9;
beginning (4)		88:20	16:13	
	5:20;11:16;16:13;			54:19;55:4,18;58:22;
41:7;44:19;46:20;	34:16	capital (19)	chronologically (1)	59:18;75:22;91:9
67:22	Btus (2)	36:23;38:6;39:11;	22:22	commodities (1)
begins (6)	9:21;10:5	48:8,10;75:7,16;	circled (1)	78:16
4:16;38:20;56:20;	budget (1)	78:14;80:13;81:8;	9:16	commodity (10)
67:18;68:2;69:5	37:1	82:5,13,15,18,19,23;	circles (1)	14:5;17:19;76:10;
belief (4)	budgeted (1)	83:12,21;91:9	6:2	77:10,14,17,21;78:2,
		capital-intensive (1)	clarification (1)	
63:3;77:2,4;88:19	37:20		` '	6,15
below (1)	build (9)	39:12	28:18	common (1)
68:4	45:19;46:8,11;	care (1)	clarifier (1)	88:10
benchmark (1)	47:21;48:21;49:22;	88:21	72:5	Company (8)
68:3	50:14;51:14;53:1	cared (2)	clarify (1)	23:12;28:7;45:4;
beneficial (2)	building (4)	86:16,18	5:18	59:3,23;61:4;76:14;
31:12,20	47:12;48:2,16;49:5	carried (1)	clarifying (1)	81:5
benefit (2)	built (3)			
` ,		10:6	29:18 Clear (1)	company's (2)
9:19;57:4	14:13;47:17;59:16	carryover (2)	Clean (1)	78:10;93:17
benefits (1)	burn (1)	16:23;17:14	66:7	compare (1)
40:7	48:21	case (10)	clear (5)	49:3
Bersak (3)	business (4)	15:20;16:2;20:17,	16:15;29:10;59:13;	compared (1)
19:14;20:18;21:8	33:22;35:7,17;58:1	18;49:11,12;56:16;	61:3,14	47:11
best (7)	buy (1)	82:3,5;93:9	clearly (2)	comparing (1)
24:8;48:3;76:23;	48:18	Catalytic (1)	42:10;47:6	73:14
		70:10		,
77:6,8;81:11;83:5	buying (1)		close (3)	completely (1)
better (3)	49:6	caution (1)	16:12;24:21;44:3	46:22
7:16;60:17;72:16		80:15	Club (1)	compliance (7)
beyond (3)	C	centralized (1)	65:8	37:12,15;38:4;
40:18;53:2;78:8		88:8	CMSR (44)	45:5,14;46:6;93:17
big (1)	calculator (4)	certain (2)	4:3,7,23;12:7;	complied (1)
69:16		37:14;63:20	18:11,19;20:8,11,20;	93:11
	72:11,14,17,23			
biggest (1)	calendar (1)	Certainly (20)	21:4,14;27:14;28:2;	comply (1)
88:16	8:14	6:19;7:18;25:19;	29:4,17;30:12;31:2;	37:20
Bill (25)	calendar-quarter (1)	27:3;28:22;30:16;	33:12;43:20;44:1;	complying (1)
42:12,14,15,15,18;	24:2	31:17;34:1;39:11;	59:10;60:4,13;62:8,	35:21
44:20;45:12,12;53:7;	calling (1)	58:1;60:8,11,14,15;	18;63:17;64:20;65:1,	component (3)
	Calling (1)			
	Cannig (1)	30.1,00.0,11,14,13,	10,03.17,01.20,03.1,	component (e)

	A	ND COST RECOVER	Ý	
82:12;83:22;84:6	4:11	48:4	96:14	31:19;45:6
computer (1)	context (3)	costs (7)	days (1)	desired (1)
32:1	31:21;36:1;56:23	39:12;45:18;68:6;	8:4	14:10
concerning (1)	contingencies (2)	78:14,17;83:18;	<b>DE</b> (1)	desk (1)
71:19	83:4,6	88:12	29:23	89:22
concluding (1)	continue (1)	counsel (4)	debate (2)	desulfurization (1)
45:10	82:17	25:12;65:18;90:1,2	9:5;54:18	95:1
conclusion (1)	continues (1)	counting (1)	debated (2)	detailed (3)
39:22	58:10	7:6	83:23;84:7	39:19;41:22;55:21
	contract (4)			details (1)
conclusions (1)		country (1)	decade (1)	
60:10	23:14,16,16;48:5	70:1	51:4	5:21
Concord (1)	contracted (3)	couple (3)	decided (5)	determination (3)
34:11	25:23;26:5,12	65:4,8;79:16	40:19;41:8,15;	59:22;87:23;88:2
concur (1)	contracting (1)	course (3)	43:5,7	determine (5)
70:22	26:8	58:7;77:10;86:20	decimal (1)	45:16;46:7,10,12,
conditions (2)	contracts (3)	Court (3)	9:20	17
51:22;52:3	17:16;41:18;80:18	67:23;74:18;82:9	decision (8)	determined (2)
conducted (3)	controls (1)	cover (2)	41:10,21;42:5;	80:13;81:8
39:19;40:10;42:17	95:6	11:17;96:13	58:3,4;59:1,2,6	development (4)
conferred (1)	conversation (1)	covered (1)	decision-makers (1)	39:4;54:20;80:7;
8:1	84:4	83:17	50:18	87:2
confident (3)	converts (1)	created (1)	decision-makers' (1)	differed (1)
9:1;72:21;77:13	17:19	48:15	50:9	36:15
confirming (1)	conveyed (1)	creating (1)	decision-maker's (1)	difference (2)
44:12	92:14	33:4	85:23	14:1:58:2
connection (1)	COO (1)	Creek (9)	decisions (4)	differences (1)
14:18	53:20	70:5;71:19,20;	40:1;57:23;58:6,16	91:14
Conservation (1)	cooling (4)	73:4,11;74:2;93:21;	declarative (1)	different (12)
44:9	82:2,3;83:11;86:4	94:8;95:11	23:20	7:20,20;19:21;
conservative (2)		· · · · · · · · · · · · · · · · · · ·	deems (1)	25:17;27:23;28:1;
	copies (2) 19:18;30:17	CROSS-EXAMINATION (3)	34:2	
10:4;58:14		4:11;44:6;65:5		56:6;57:9;65:13;
conservatively (1)	copy (10)	current (2)	defeat (2)	83:18;86:4,7
8:8	4:20;12:12,13;	69:20;81:1	61:5,8	differently (1)
consider (2)	18:5;19:12;24:18;	currently (1)	define (2)	26:6
37:7;86:23	30:16;54:12,13;90:3	68:8	7:12;16:18	digits (1)
consideration (3)	corner (2)	customarily (1)	definition (2)	80:17
9:5;34:11;89:2	66:23;67:3	33:18	23:19;32:11	diminished (2)
considered (2)	corporate (1)	customer (1)	definitive (2)	43:16;88:23
42:13;84:8	38:4	88:16	16:16;80:16	dioxide (1)
consistent (3)	Corporation's (1)	customers (6)	delivered (5)	95:6
15:3;33:1;40:2	34:12	40:8;46:13,18,20;	9:9;16:19;24:1;	direct (2)
construct (1)	correcting (1)	52:6;57:5	91:19,20	36:6;65:10
45:16	53:22		delivery (2)	directing (1)
constructed (3)	correctly (11)	$\mathbf{D}$	14:7,10	35:19
50:21;51:1,3	13:21;17:2,21;		demand (2)	directly (2)
constructing (2)	34:6;35:22,23;46:5;	daily (1)	14:14;39:7	11:7;62:6
45:18,21	47:14;58:18;75:9,19	6:7	depending (2)	disagree (3)
construction (10)	correlate (1)	Data (19)	33:22;35:20	5:13;46:1;50:16
36:20,23;37:18;	56:3	4:14;9:7,8,23;	Deposition (12)	discharge (1)
38:21;39:11;46:21;	correspondence (2)	14:22;15:21;18:2;	4:14;5:7;8:11;	87:8
68:5;74:10;77:21;	24:6;25:11	25:10,13;27:9;28:13;	10:15;14:17;32:6;	discovery (1)
78:17	cost (26)	33:21;34:4,4,9;	34:17,22;35:11;37:4;	27:12
Consultancy (1)	9:9;12:19;14:9;	42:23;68:5;89:19;	42:22;54:4	discussed (2)
		90:12		
77:3	16:19;48:8,9,16;		describe (3)	45:11;83:20
consultant (1)	49:5;53:5;59:8;	date (5)	7:1;10:9;81:12	<b>Discussion</b> (9)
17:16	61:21;68:3;69:17,21;	19:10;72:3,6;80:9,	described (4)	4:6;36:2;56:17;
consumers (1)	70:13;73:5;74:5;	12	21:12;33:14;48:1;	79:6;81:13;86:20;
39:2	79:23;80:6;83:12,21;	dated (1)	71:10	87:15,21;92:12
contain (1)	84:9,11;85:21;86:17;	66:8	describes (1)	discussions (2)
21:1	88:21	dates (2)	70:9	85:9,13
contained (1)	cost-of-service (1)	7:7;23:23	description (2)	dispatch (1)
92:8	48:19	day (5)	5:14;13:9	6:7
CONT'D (1)	cost-of-service-based (1)	7:20;29:7;30:5,20;	desire (2)	dispatching (1)

DE 11-250 PUBLIC		OF NEW HAMPSHIKE		SCRUBBER COSTS
		ND COST RECOVER		62 15 02 6
6:9	87:17;93:4	15:15,22;17:17,20;	examined (1)	62:15;83:6
dispute (1)	early (3)	19:1;22:13;33:4;	7:23	factoring (1)
27:13	53:7,14;63:22	42:9;48:23;50:12,23;	examining (1)	83:8
distributes (2)	easier (2)	54:19;71:18	50:18	factors (3)
20:4;71:4	16:18;19:3	Energy's (1)	Excellent (1)	14:15;39:10;67:9
divest (1)	easiest (1)	73:4	67:8	Facts (3)
52:11	6:21	engaged (1)	exchange (1)	33:23,23;90:20
divestiture (1)	economic (22)	80:6	59:13	Fair (3)
52:15				
	40:7;44:13,21;	engineering (1)	executed (1)	18:20;21:4;32:23
divide (3)	45:3,9,15;46:7,10,12;	88:11	41:19	fairly (1)
68:16;70:20;72:19	47:8;49:4;52:4;	England (6)	exhaustive (1)	13:9
divided (1)	54:19;78:7;81:20,22;	7:8,9,21;49:7;	33:5	falls (1)
74:12	82:4;83:2,8;85:8;	50:11;51:11	exhibit (34)	68:3
docket (7)	86:21,22	enough (2)	5:7;6:22;11:18;	familiar (7)
11:18;15:11;27:5;	effect (1)	18:20;21:4	12:4,5,10;20:7,23;	18:22;21:17;22:2;
29:23;30:3,20;73:8	75:11	enterprising (1)	21:13,15;24:17;25:7;	39:14,18;67:11;69:9
Doctors (1)	effectiveness (1)	90:2	26:5,7,9,10,18;27:7;	Fantastic (1)
96:6	88:21	entire (2)	28:19;29:13;32:19;	72:15
document (45)	effluent (1)	20:8;87:19	33:15;54:6,10;65:11,	far (3)
12:15;14:23;17:12;	87:8	entity (1)	16;71:3,11;75:7;	76:21;80:6;82:13
21:12,19;22:4,5,19;	effort (1)	48:20	89:19;93:5,22;94:12,	February (5)
25:5;28:12,23;29:9;	77:22	Environment (1)	22	7:22;21:23;22:14,
33:13,14;34:7;35:5;	efforts (1)	54:19	exhibits (1)	23;42:23
36:4;39:17;40:14,21;	88:14	environmental (6)	94:2	feel (1)
54:22;55:7,11;56:1;	eight (1)	81:17;82:20;83:5,	expansion (1)	56:23
60:9;66:11,17,20;	51:14	18;88:11;89:4	74:2	few (4)
67:11;69:7;70:3,15;	Eighteen (1)	equipment (1)		21:22;33:8;44:10;
			expected (1)	
71:4,10,14;73:7,8,18;	41:1	83:13	87:8	65:13
74:5,7;79:8;80:10;	eighty-one (1)	error (1)	expecting (1)	fewer (3)
89:21;90:10;92:6	73:1	53:23	85:20	88:19,19,20
documents (10)	Either (1)	escalation (2)	expedite (2)	FGD (2)
9:15;11:14;20:4;	67:4	10:3;11:7	22:6;66:23	68:6;95:12
22:12;29:12;79:6;	electricity (1)	essentially (1)	expensive (1)	figure (7)
81:14;87:15,18;	39:7	68:15	88:18	74:9;80:4,8;81:2,6;
91:18	electronic (1)	established (1)	experience (4)	86:2,10
dollars (2)	31:23	42:21	8:18;9:2,2;33:7	
				filed (2)
82:16;85:2	electronically (1)	estimate (10)	experiencing (2)	11:18;96:13
done (13)	31:16	15:22;69:17,21;	8:12;50:4	filing (3)
15:12,19;33:5;	else (9)	80:18,20,21;81:4,8;	explain (7)	34:12;69:2;95:11
39:15;42:3;45:13;	24:4,6;48:16;	84:16;87:4	6:18,21;13:23;	final (2)
46:15;53:6,9;57:23;	49:21;50:14;58:3;	EVA (21)	23:9;25:18;39:3;	80:20;81:3
61:17;63:4;73:11	92:17,18;95:20	6:16;7:10,21;8:13,	81:21	Financial (4)
door (1)	else's (1)	20;11:4;14:11;15:21;	explanation (1)	92:2,4,9,9
80:22	60:18	16:11;18:7;20:14;	51:7	financially (1)
				58:13
doubled (2)	elsewhere (1)	23:6,14,22;24:13,18;	expressly (1)	
38:22;73:16	70:1	25:15,20,23;26:13;	41:16	find (1)
down (8)	e-mails (2)	29:11	-	41:4
63:2,5,16;64:2,12,	19:13;21:8	EVA' (1)	$\mathbf{F}$	finding (2)
16;71:16,20	emerging (1)	17:17		22:7;67:1
draft (3)	39:6	even (3)	Fabish (19)	findings (1)
39:15;68:12;83:23	emissions (1)	24:11;35:15;50:17	65:1,3,6,7,17,21;	39:2
dramatically (1)	95:7	events (3)	66:2,5,6,19;71:2,5,8,	fine (2)
68:7	employ (1)	76:2,4,6	12;73:2;74:22;93:20;	18:16;67:4
				*
draw (2)	93:6	everybody (1)	94:1,13	first (17)
60:10;78:18	employees (1)	81:15	facilities (4)	10:21;17:23;20:6,
during (4)	53:16	exact (1)	47:21;88:6,9,12	19;30:10;41:9;45:23;
4:22;32:6;53:14;	end (6)	80:12	facility (6)	46:4;51:9;56:20;
86:20	13:12,15;29:7;	exactly (1)	47:13,13;48:2,17;	60:6;67:10;78:20;
	62:23;64:15;84:10	31:19	84:6;87:1	79:17,20;82:1;94:12
${f E}$	ended (1)	<b>EXAMINATION (1)</b>	fact (12)	five (1)
<del></del>	83:20	93:1	9:8;11:15;20:12,	72:3
earlier (5)	Energy (16)	examine (1)	13,22;24:13;31:9;	
carner (3)	Lucigy (10)	CAMILLE (1)	13,22,24.13,31.9,	flagged (1)
	10.02.12.4.14.00	24.2	26.6.51.17.50.00	02.17
45:1;48:1;69:6;	12:23;13:4;14:20;	34:3	36:6;51:17;58:22;	92:17

		AND COST RECOVER	V	
fleet (3)	frame (4)	6:9;48:20;50:5;	92:17	
				_
87:19;88:6,18	11:22;27:8;35:14;	52:12;71:22;72:7;	happy (3)	I
flipping (1)	73:12	95:9	5:18,20;41:12	
40:11	Frantz (1)	generation (6)	Harrison (1)	IACOPINO (6)
floor (1)	18:2	47:12,13,21;48:7,	96:6	` '
4:9	frequency (1)	17;85:15	headed (1)	4:23;66:4;75:2,3,5;
				89:7
flue (1)	23:21	generator's (1)	7:8	identification (3)
95:1	frequent (1)	48:9	hear (2)	21:13;33:15;71:11
focus (1)	36:21	generic (2)	31:13,15	identified (1)
85:6	Friday (2)	25:20;28:23	Hearing (2)	96:14
focused (1)	19:8;21:10	gentlemen (2)	4:2;96:12	
				identify (2)
19:22	Frignoca (17)	89:10;95:20	help (5)	10:11;36:22
focusing (3)	43:21,22;44:5,7,8;	given (4)	22:6;39:3;54:8;	II (2)
28:19;93:4;94:6	59:11,12;60:19,21;	7:3;14:6;32:13;	64:3;86:11	69:16;74:4
folded (1)	62:15,19,20,21;	62:3	helped (3)	illustrious (1)
85:4	63:12,21;64:22;71:4	goes (5)	53:12;56:14;69:6	
				91:6
folks (1)	Frignoca's (1)	11:2;18:18,20;	helps (1)	impact (3)
8:3	60:7	55:23;59:22	79:13	15:22;46:13,18
follow (2)	front (6)	Goldwasser (6)	Henry (1)	impacts (1)
11:14;39:23	17:3;25:7;56:9;	20:2,4;25:5;31:16,	14:7	46:19
Following (2)	66:20;79:6;80:9	23;33:13	herewith (3)	
				include (3)
36:18;55:20	fruition (1)	good (11)	21:12;33:14;71:10	20:14;76:6;87:3
force (1)	51:16	28:11;39:22;44:8;	Hi (1)	included (8)
88:7	<b>fuel</b> (4)	58:3,6;59:2;78:1;	65:7	19:2;22:11;77:3;
forecast (28)	7:15;9:9;16:19;	89:10,11,12;95:22	high (1)	82:15;83:20;85:12;
5:20;6:16;7:21,22;	51:1	great (7)	9:1	
				86:19;92:13
8:13,20;9:18,21;	fuels (4)	19:5;67:2,5;68:14,	higher (1)	including (2)
10:20,23;11:4;12:19,	6:8;7:13,15;8:3	20;69:1;71:1	8:17	52:12;83:19
23;13:4;14:19;16:11,	fulfilling (1)	greater (1)	hindsight (1)	inclusion (1)
12;17:18;24:18;	45:5	16:15	57:23	82:19
25:14;27:1;33:6;	full (3)	group (3)	historically (1)	
35:2,9,16,20;36:7,23	35:6;56:20;67:16	6:8;7:13;88:6	88:22	increase (1)
				77:14
forecasted (3)	fundamental (4)	growing (2)	history (1)	increases (3)
13:19;14:5;17:20	13:7,20;14:13,21	50:6;80:23	50:23	76:9;77:10;78:13
forecasting (2)	fundamentally (2)	guess (9)	Hmm-hmm (1)	incurring (1)
14:1;16:4	86:13;91:12	32:20;42:7;50:7;	72:2	45:18
· ·			hold (2)	
Forecasts (23)		63:1:6/1:13:77:3:		
Forecasts (23)	further (15)	63:1;64:15;72:5;		indicate (1)
11:2;14:11,13;	28:18;41:22;42:16,	63:1;64:15;72:5; 78:19;82:22;85:17	21:5;31:10	indicate (1) 76:2
11:2;14:11,13; 18:6;19:2;20:15;	28:18;41:22;42:16, 17;44:21;50:2;53:6;	78:19;82:22;85:17	21:5;31:10 holder (1)	76:2
11:2;14:11,13;	28:18;41:22;42:16,		21:5;31:10	76:2 indicated (2)
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8,	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22;	78:19;82:22;85:17	21:5;31:10 holder (1) 82:22	76:2 indicated (2) 25:12;42:10
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14;	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18;	78:19;82:22;85:17 <b>H</b>	21:5;31:10 holder (1) 82:22 HONIGBERG (39)	76:2 indicated (2) 25:12;42:10 indicates (2)
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13,	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18	78:19;82:22;85:17 <b>H Hachey's (2)</b>	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11,	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13, 14;33:4;35:13;36:15	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18 <b>future (6)</b>	78:19;82:22;85:17 <b>H Hachey's (2)</b> 4:16;65:17	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11, 19;20:8,11,20;21:4,	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5 indicators (1)
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13, 14;33:4;35:13;36:15 forever (2)	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18 future (6) 32:15,21;33:4,8;	78:19;82:22;85:17 <b>H Hachey's (2)</b> 4:16;65:17 <b>hairs (1)</b>	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11, 19;20:8,11,20;21:4, 14;27:14;28:2;29:4,	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13, 14;33:4;35:13;36:15 forever (2) 35:4,10	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18 future (6) 32:15,21;33:4,8; 81:17;82:14	78:19;82:22;85:17  H  Hachey's (2) 4:16;65:17 hairs (1) 61:23	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11, 19;20:8,11,20;21:4, 14;27:14;28:2;29:4, 17;30:12;31:2;33:12;	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5 indicators (1) 39:23
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13, 14;33:4;35:13;36:15 forever (2)	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18 future (6) 32:15,21;33:4,8;	78:19;82:22;85:17 <b>H Hachey's (2)</b> 4:16;65:17 <b>hairs (1)</b>	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11, 19;20:8,11,20;21:4, 14;27:14;28:2;29:4,	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5 indicators (1) 39:23 industry (2)
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13, 14;33:4;35:13;36:15 forever (2) 35:4,10 form (2)	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18 future (6) 32:15,21;33:4,8; 81:17;82:14 futures (1)	78:19;82:22;85:17  H  Hachey's (2) 4:16;65:17 hairs (1) 61:23 Hall (1)	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11, 19;20:8,11,20;21:4, 14;27:14;28:2;29:4, 17;30:12;31:2;33:12; 43:20;44:1;59:10;	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5 indicators (1) 39:23 industry (2) 34:4;39:12
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13, 14;33:4;35:13;36:15 forever (2) 35:4,10 form (2) 26:17;64:18	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18 future (6) 32:15,21;33:4,8; 81:17;82:14	78:19;82:22;85:17  H  Hachey's (2) 4:16;65:17 hairs (1) 61:23 Hall (1) 54:16	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11, 19;20:8,11,20;21:4, 14;27:14;28:2;29:4, 17;30:12;31:2;33:12; 43:20;44:1;59:10; 60:4,13;62:8,18;	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5 indicators (1) 39:23 industry (2) 34:4;39:12 information (23)
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13, 14;33:4;35:13;36:15 forever (2) 35:4,10 form (2) 26:17;64:18 fortune (2)	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18 future (6) 32:15,21;33:4,8; 81:17;82:14 futures (1) 14:3	78:19;82:22;85:17  H  Hachey's (2) 4:16;65:17 hairs (1) 61:23 Hall (1) 54:16 Hampshire (3)	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11, 19;20:8,11,20;21:4, 14;27:14;28:2;29:4, 17;30:12;31:2;33:12; 43:20;44:1;59:10; 60:4,13;62:8,18; 63:17;64:20;65:1,15;	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5 indicators (1) 39:23 industry (2) 34:4;39:12 information (23) 7:15,18;10:7;
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13, 14;33:4;35:13;36:15 forever (2) 35:4,10 form (2) 26:17;64:18 fortune (2) 78:1,2	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18 future (6) 32:15,21;33:4,8; 81:17;82:14 futures (1)	78:19;82:22;85:17  H  Hachey's (2) 4:16;65:17 hairs (1) 61:23 Hall (1) 54:16  Hampshire (3) 8:13;9:9;16:20	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11, 19;20:8,11,20;21:4, 14;27:14;28:2;29:4, 17;30:12;31:2;33:12; 43:20;44:1;59:10; 60:4,13;62:8,18; 63:17;64:20;65:1,15; 66:12,15;71:7;75:1;	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5 indicators (1) 39:23 industry (2) 34:4;39:12 information (23)
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13, 14;33:4;35:13;36:15 forever (2) 35:4,10 form (2) 26:17;64:18 fortune (2) 78:1,2 forward (6)	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18 future (6) 32:15,21;33:4,8; 81:17;82:14 futures (1) 14:3	78:19;82:22;85:17  H  Hachey's (2) 4:16;65:17 hairs (1) 61:23 Hall (1) 54:16 Hampshire (3) 8:13;9:9;16:20 hand (1)	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11, 19;20:8,11,20;21:4, 14;27:14;28:2;29:4, 17;30:12;31:2;33:12; 43:20;44:1;59:10; 60:4,13;62:8,18; 63:17;64:20;65:1,15; 66:12,15;71:7;75:1; 89:9;90:9,11;92:20;	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5 indicators (1) 39:23 industry (2) 34:4;39:12 information (23) 7:15,18;10:7; 11:12;25:20;26:6,8,
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13, 14;33:4;35:13;36:15 forever (2) 35:4,10 form (2) 26:17;64:18 fortune (2) 78:1,2	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18 future (6) 32:15,21;33:4,8; 81:17;82:14 futures (1) 14:3	78:19;82:22;85:17  H  Hachey's (2) 4:16;65:17 hairs (1) 61:23 Hall (1) 54:16  Hampshire (3) 8:13;9:9;16:20	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11, 19;20:8,11,20;21:4, 14;27:14;28:2;29:4, 17;30:12;31:2;33:12; 43:20;44:1;59:10; 60:4,13;62:8,18; 63:17;64:20;65:1,15; 66:12,15;71:7;75:1;	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5 indicators (1) 39:23 industry (2) 34:4;39:12 information (23) 7:15,18;10:7; 11:12;25:20;26:6,8, 12;27:1;28:11;33:19;
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13, 14;33:4;35:13;36:15 forever (2) 35:4,10 form (2) 26:17;64:18 fortune (2) 78:1,2 forward (6) 10:2,2,6;42:11;	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18 future (6) 32:15,21;33:4,8; 81:17;82:14 futures (1) 14:3	78:19;82:22;85:17  H  Hachey's (2) 4:16;65:17 hairs (1) 61:23 Hall (1) 54:16  Hampshire (3) 8:13;9:9;16:20 hand (1) 20:3	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11, 19;20:8,11,20;21:4, 14;27:14;28:2;29:4, 17;30:12;31:2;33:12; 43:20;44:1;59:10; 60:4,13;62:8,18; 63:17;64:20;65:1,15; 66:12,15;71:7;75:1; 89:9;90:9,11;92:20; 95:19;96:2,7	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5 indicators (1) 39:23 industry (2) 34:4;39:12 information (23) 7:15,18;10:7; 11:12;25:20;26:6,8, 12;27:1;28:11;33:19; 45:3,7;47:1;69:22;
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13, 14;33:4;35:13;36:15 forever (2) 35:4,10 form (2) 26:17;64:18 fortune (2) 78:1,2 forward (6) 10:2,2,6;42:11; 84:23;87:18	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18 future (6) 32:15,21;33:4,8; 81:17;82:14 futures (1) 14:3 G gas (18) 6:3;7:8,10,12;9:13,	78:19;82:22;85:17  H  Hachey's (2) 4:16;65:17 hairs (1) 61:23 Hall (1) 54:16 Hampshire (3) 8:13;9:9;16:20 hand (1) 20:3 handle (1)	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11, 19;20:8,11,20;21:4, 14;27:14;28:2;29:4, 17;30:12;31:2;33:12; 43:20;44:1;59:10; 60:4,13;62:8,18; 63:17;64:20;65:1,15; 66:12,15;71:7;75:1; 89:9;90:9,11;92:20; 95:19;96:2,7 hope (1)	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5 indicators (1) 39:23 industry (2) 34:4;39:12 information (23) 7:15,18;10:7; 11:12;25:20;26:6,8, 12;27:1;28:11;33:19; 45:3,7;47:1;69:22; 74:3;80:22;90:16;
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13, 14;33:4;35:13;36:15 forever (2) 35:4,10 form (2) 26:17;64:18 fortune (2) 78:1,2 forward (6) 10:2,2,6;42:11; 84:23;87:18 fossil (2)	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18 future (6) 32:15,21;33:4,8; 81:17;82:14 futures (1) 14:3 G gas (18) 6:3;7:8,10,12;9:13, 22;10:19;14:7;16:17;	78:19;82:22;85:17  H  Hachey's (2) 4:16;65:17 hairs (1) 61:23 Hall (1) 54:16 Hampshire (3) 8:13;9:9;16:20 hand (1) 20:3 handle (1) 18:17	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11, 19;20:8,11,20;21:4, 14;27:14;28:2;29:4, 17;30:12;31:2;33:12; 43:20;44:1;59:10; 60:4,13;62:8,18; 63:17;64:20;65:1,15; 66:12,15;71:7;75:1; 89:9;90:9,11;92:20; 95:19;96:2,7 hope (1) 27:15	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5 indicators (1) 39:23 industry (2) 34:4;39:12 information (23) 7:15,18;10:7; 11:12;25:20;26:6,8, 12;27:1;28:11;33:19; 45:3,7;47:1;69:22; 74:3;80:22;90:16; 91:11,13,17;92:1,8
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13, 14;33:4;35:13;36:15 forever (2) 35:4,10 form (2) 26:17;64:18 fortune (2) 78:1,2 forward (6) 10:2,2,6;42:11; 84:23;87:18 fossil (2) 51:1;87:20	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18 future (6) 32:15,21;33:4,8; 81:17;82:14 futures (1) 14:3 G gas (18) 6:3;7:8,10,12;9:13, 22;10:19;14:7;16:17; 34:15;35:7;36:12;	78:19;82:22;85:17  H  Hachey's (2) 4:16;65:17 hairs (1) 61:23 Hall (1) 54:16 Hampshire (3) 8:13;9:9;16:20 hand (1) 20:3 handle (1) 18:17 hands (6)	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11, 19;20:8,11,20;21:4, 14;27:14;28:2;29:4, 17;30:12;31:2;33:12; 43:20;44:1;59:10; 60:4,13;62:8,18; 63:17;64:20;65:1,15; 66:12,15;71:7;75:1; 89:9;90:9,11;92:20; 95:19;96:2,7 hope (1) 27:15 House (1)	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5 indicators (1) 39:23 industry (2) 34:4;39:12 information (23) 7:15,18;10:7; 11:12;25:20;26:6,8, 12;27:1;28:11;33:19; 45:3,7;47:1;69:22; 74:3;80:22;90:16; 91:11,13,17;92:1,8 inherent (2)
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13, 14;33:4;35:13;36:15 forever (2) 35:4,10 form (2) 26:17;64:18 fortune (2) 78:1,2 forward (6) 10:2,2,6;42:11; 84:23;87:18 fossil (2) 51:1;87:20 found (4)	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18 future (6) 32:15,21;33:4,8; 81:17;82:14 futures (1) 14:3 G gas (18) 6:3;7:8,10,12;9:13, 22;10:19;14:7;16:17; 34:15;35:7;36:12; 43:2;47:12;48:22;	78:19;82:22;85:17  H  Hachey's (2) 4:16;65:17 hairs (1) 61:23 Hall (1) 54:16 Hampshire (3) 8:13;9:9;16:20 hand (1) 20:3 handle (1) 18:17 hands (6) 12:15;25:5;33:13;	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11, 19;20:8,11,20;21:4, 14;27:14;28:2;29:4, 17;30:12;31:2;33:12; 43:20;44:1;59:10; 60:4,13;62:8,18; 63:17;64:20;65:1,15; 66:12,15;71:7;75:1; 89:9;90:9,11;92:20; 95:19;96:2,7 hope (1) 27:15 House (1) 42:10	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5 indicators (1) 39:23 industry (2) 34:4;39:12 information (23) 7:15,18;10:7; 11:12;25:20;26:6,8, 12;27:1;28:11;33:19; 45:3,7;47:1;69:22; 74:3;80:22;90:16; 91:11,13,17;92:1,8 inherent (2)
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13, 14;33:4;35:13;36:15 forever (2) 35:4,10 form (2) 26:17;64:18 fortune (2) 78:1,2 forward (6) 10:2,2,6;42:11; 84:23;87:18 fossil (2) 51:1;87:20	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18 future (6) 32:15,21;33:4,8; 81:17;82:14 futures (1) 14:3 G gas (18) 6:3;7:8,10,12;9:13, 22;10:19;14:7;16:17; 34:15;35:7;36:12;	78:19;82:22;85:17  H  Hachey's (2) 4:16;65:17 hairs (1) 61:23 Hall (1) 54:16 Hampshire (3) 8:13;9:9;16:20 hand (1) 20:3 handle (1) 18:17 hands (6)	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11, 19;20:8,11,20;21:4, 14;27:14;28:2;29:4, 17;30:12;31:2;33:12; 43:20;44:1;59:10; 60:4,13;62:8,18; 63:17;64:20;65:1,15; 66:12,15;71:7;75:1; 89:9;90:9,11;92:20; 95:19;96:2,7 hope (1) 27:15 House (1)	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5 indicators (1) 39:23 industry (2) 34:4;39:12 information (23) 7:15,18;10:7; 11:12;25:20;26:6,8, 12;27:1;28:11;33:19; 45:3,7;47:1;69:22; 74:3;80:22;90:16; 91:11,13,17;92:1,8 inherent (2) 81:19,21
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13, 14;33:4;35:13;36:15 forever (2) 35:4,10 form (2) 26:17;64:18 fortune (2) 78:1,2 forward (6) 10:2,2,6;42:11; 84:23;87:18 fossil (2) 51:1;87:20 found (4) 17:8;28:21;58:5;	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18 future (6) 32:15,21;33:4,8; 81:17;82:14 futures (1) 14:3 G gas (18) 6:3;7:8,10,12;9:13, 22;10:19;14:7;16:17; 34:15;35:7;36:12; 43:2;47:12;48:22; 51:2;77:12;95:1	78:19;82:22;85:17  H  Hachey's (2) 4:16;65:17 hairs (1) 61:23 Hall (1) 54:16 Hampshire (3) 8:13;9:9;16:20 hand (1) 20:3 handle (1) 18:17 hands (6) 12:15;25:5;33:13; 54:13;66:11;90:10	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11, 19;20:8,11,20;21:4, 14;27:14;28:2;29:4, 17;30:12;31:2;33:12; 43:20;44:1;59:10; 60:4,13;62:8,18; 63:17;64:20;65:1,15; 66:12,15;71:7;75:1; 89:9;90:9,11;92:20; 95:19;96:2,7 hope (1) 27:15 House (1) 42:10 Hub (1)	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5 indicators (1) 39:23 industry (2) 34:4;39:12 information (23) 7:15,18;10:7; 11:12;25:20;26:6,8, 12;27:1;28:11;33:19; 45:3,7;47:1;69:22; 74:3;80:22;90:16; 91:11,13,17;92:1,8 inherent (2) 81:19,21 inputs (1)
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13, 14;33:4;35:13;36:15 forever (2) 35:4,10 form (2) 26:17;64:18 fortune (2) 78:1,2 forward (6) 10:2,2,6;42:11; 84:23;87:18 fossil (2) 51:1;87:20 found (4) 17:8;28:21;58:5; 93:16	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18 future (6) 32:15,21;33:4,8; 81:17;82:14 futures (1) 14:3 G  gas (18) 6:3;7:8,10,12;9:13, 22;10:19;14:7;16:17; 34:15;35:7;36:12; 43:2;47:12;48:22; 51:2;77:12;95:1 gave (3)	78:19;82:22;85:17  H  Hachey's (2) 4:16;65:17 hairs (1) 61:23 Hall (1) 54:16 Hampshire (3) 8:13;9:9;16:20 hand (1) 20:3 handle (1) 18:17 hands (6) 12:15;25:5;33:13; 54:13;66:11;90:10 handwritten (2)	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11, 19;20:8,11,20;21:4, 14;27:14;28:2;29:4, 17;30:12;31:2;33:12; 43:20;44:1;59:10; 60:4,13;62:8,18; 63:17;64:20;65:1,15; 66:12,15;71:7;75:1; 89:9;90:9,11;92:20; 95:19;96:2,7 hope (1) 27:15 House (1) 42:10 Hub (1) 14:7	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5 indicators (1) 39:23 industry (2) 34:4;39:12 information (23) 7:15,18;10:7; 11:12;25:20;26:6,8, 12;27:1;28:11;33:19; 45:3,7;47:1;69:22; 74:3;80:22;90:16; 91:11,13,17;92:1,8 inherent (2) 81:19,21 inputs (1) 76:10
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13, 14;33:4;35:13;36:15 forever (2) 35:4,10 form (2) 26:17;64:18 fortune (2) 78:1,2 forward (6) 10:2,2,6;42:11; 84:23;87:18 fossil (2) 51:1;87:20 found (4) 17:8;28:21;58:5; 93:16 Foundation (1)	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18 future (6) 32:15,21;33:4,8; 81:17;82:14 futures (1) 14:3 G  gas (18) 6:3;7:8,10,12;9:13, 22;10:19;14:7;16:17; 34:15;35:7;36:12; 43:2;47:12;48:22; 51:2;77:12;95:1 gave (3) 4:14;27:22;33:2	78:19;82:22;85:17  H  Hachey's (2) 4:16;65:17 hairs (1) 61:23 Hall (1) 54:16 Hampshire (3) 8:13;9:9;16:20 hand (1) 20:3 handle (1) 18:17 hands (6) 12:15;25:5;33:13; 54:13;66:11;90:10 handwritten (2) 21:21;22:2	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11, 19;20:8,11,20;21:4, 14;27:14;28:2;29:4, 17;30:12;31:2;33:12; 43:20;44:1;59:10; 60:4,13;62:8,18; 63:17;64:20;65:1,15; 66:12,15;71:7;75:1; 89:9;90:9,11;92:20; 95:19;96:2,7 hope (1) 27:15 House (1) 42:10 Hub (1) 14:7 hurt (2)	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5 indicators (1) 39:23 industry (2) 34:4;39:12 information (23) 7:15,18;10:7; 11:12;25:20;26:6,8, 12;27:1;28:11;33:19; 45:3,7;47:1;69:22; 74:3;80:22;90:16; 91:11,13,17;92:1,8 inherent (2) 81:19,21 inputs (1) 76:10 in-service (1)
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13, 14;33:4;35:13;36:15 forever (2) 35:4,10 form (2) 26:17;64:18 fortune (2) 78:1,2 forward (6) 10:2,2,6;42:11; 84:23;87:18 fossil (2) 51:1;87:20 found (4) 17:8;28:21;58:5; 93:16 Foundation (1) 44:10	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18 future (6) 32:15,21;33:4,8; 81:17;82:14 futures (1) 14:3 G  gas (18) 6:3;7:8,10,12;9:13, 22;10:19;14:7;16:17; 34:15;35:7;36:12; 43:2;47:12;48:22; 51:2;77:12;95:1 gave (3) 4:14;27:22;33:2 general (1)	78:19;82:22;85:17  H  Hachey's (2) 4:16;65:17 hairs (1) 61:23 Hall (1) 54:16 Hampshire (3) 8:13;9:9;16:20 hand (1) 20:3 handle (1) 18:17 hands (6) 12:15;25:5;33:13; 54:13;66:11;90:10 handwritten (2) 21:21;22:2 handy (1)	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11, 19;20:8,11,20;21:4, 14;27:14;28:2;29:4, 17;30:12;31:2;33:12; 43:20;44:1;59:10; 60:4,13;62:8,18; 63:17;64:20;65:1,15; 66:12,15;71:7;75:1; 89:9;90:9,11;92:20; 95:19;96:2,7 hope (1) 27:15 House (1) 42:10 Hub (1) 14:7 hurt (2) 58:17;59:2	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5 indicators (1) 39:23 industry (2) 34:4;39:12 information (23) 7:15,18;10:7; 11:12;25:20;26:6,8, 12;27:1;28:11;33:19; 45:3,7;47:1;69:22; 74:3;80:22;90:16; 91:11,13,17;92:1,8 inherent (2) 81:19,21 inputs (1) 76:10 in-service (1) 72:6
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13, 14;33:4;35:13;36:15 forever (2) 35:4,10 form (2) 26:17;64:18 fortune (2) 78:1,2 forward (6) 10:2,2,6;42:11; 84:23;87:18 fossil (2) 51:1;87:20 found (4) 17:8;28:21;58:5; 93:16 Foundation (1) 44:10 four (9)	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18 future (6) 32:15,21;33:4,8; 81:17;82:14 futures (1) 14:3 G  gas (18) 6:3;7:8,10,12;9:13, 22;10:19;14:7;16:17; 34:15;35:7;36:12; 43:2;47:12;48:22; 51:2;77:12;95:1 gave (3) 4:14;27:22;33:2 general (1) 15:1	78:19;82:22;85:17  H  Hachey's (2) 4:16;65:17 hairs (1) 61:23 Hall (1) 54:16 Hampshire (3) 8:13;9:9;16:20 hand (1) 20:3 handle (1) 18:17 hands (6) 12:15;25:5;33:13; 54:13;66:11;90:10 handwritten (2) 21:21;22:2 handy (1) 94:4	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11, 19;20:8,11,20;21:4, 14;27:14;28:2;29:4, 17;30:12;31:2;33:12; 43:20;44:1;59:10; 60:4,13;62:8,18; 63:17;64:20;65:1,15; 66:12,15;71:7;75:1; 89:9;90:9,11;92:20; 95:19;96:2,7 hope (1) 27:15 House (1) 42:10 Hub (1) 14:7 hurt (2) 58:17;59:2 hypothetical (1)	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5 indicators (1) 39:23 industry (2) 34:4;39:12 information (23) 7:15,18;10:7; 11:12;25:20;26:6,8, 12;27:1;28:11;33:19; 45:3,7;47:1;69:22; 74:3;80:22;90:16; 91:11,13,17;92:1,8 inherent (2) 81:19,21 inputs (1) 76:10 in-service (1)
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13, 14;33:4;35:13;36:15 forever (2) 35:4,10 form (2) 26:17;64:18 fortune (2) 78:1,2 forward (6) 10:2,2,6;42:11; 84:23;87:18 fossil (2) 51:1;87:20 found (4) 17:8;28:21;58:5; 93:16 Foundation (1) 44:10	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18 future (6) 32:15,21;33:4,8; 81:17;82:14 futures (1) 14:3 G  gas (18) 6:3;7:8,10,12;9:13, 22;10:19;14:7;16:17; 34:15;35:7;36:12; 43:2;47:12;48:22; 51:2;77:12;95:1 gave (3) 4:14;27:22;33:2 general (1)	78:19;82:22;85:17  H  Hachey's (2) 4:16;65:17 hairs (1) 61:23 Hall (1) 54:16 Hampshire (3) 8:13;9:9;16:20 hand (1) 20:3 handle (1) 18:17 hands (6) 12:15;25:5;33:13; 54:13;66:11;90:10 handwritten (2) 21:21;22:2 handy (1)	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11, 19;20:8,11,20;21:4, 14;27:14;28:2;29:4, 17;30:12;31:2;33:12; 43:20;44:1;59:10; 60:4,13;62:8,18; 63:17;64:20;65:1,15; 66:12,15;71:7;75:1; 89:9;90:9,11;92:20; 95:19;96:2,7 hope (1) 27:15 House (1) 42:10 Hub (1) 14:7 hurt (2) 58:17;59:2	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5 indicators (1) 39:23 industry (2) 34:4;39:12 information (23) 7:15,18;10:7; 11:12;25:20;26:6,8, 12;27:1;28:11;33:19; 45:3,7;47:1;69:22; 74:3;80:22;90:16; 91:11,13,17;92:1,8 inherent (2) 81:19,21 inputs (1) 76:10 in-service (1) 72:6 install (4)
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13, 14;33:4;35:13;36:15 forever (2) 35:4,10 form (2) 26:17;64:18 fortune (2) 78:1,2 forward (6) 10:2,2,6;42:11; 84:23;87:18 fossil (2) 51:1;87:20 found (4) 17:8;28:21;58:5; 93:16 Foundation (1) 44:10 four (9) 6:2,6;9:15,20;10:2;	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18 future (6) 32:15,21;33:4,8; 81:17;82:14 futures (1) 14:3 G  gas (18) 6:3;7:8,10,12;9:13, 22;10:19;14:7;16:17; 34:15;35:7;36:12; 43:2;47:12;48:22; 51:2;77:12;95:1 gave (3) 4:14;27:22;33:2 general (1) 15:1	78:19;82:22;85:17  H  Hachey's (2) 4:16;65:17 hairs (1) 61:23 Hall (1) 54:16 Hampshire (3) 8:13;9:9;16:20 hand (1) 20:3 handle (1) 18:17 hands (6) 12:15;25:5;33:13; 54:13;66:11;90:10 handwritten (2) 21:21;22:2 handy (1) 94:4	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11, 19;20:8,11,20;21:4, 14;27:14;28:2;29:4, 17;30:12;31:2;33:12; 43:20;44:1;59:10; 60:4,13;62:8,18; 63:17;64:20;65:1,15; 66:12,15;71:7;75:1; 89:9;90:9,11;92:20; 95:19;96:2,7 hope (1) 27:15 House (1) 42:10 Hub (1) 14:7 hurt (2) 58:17;59:2 hypothetical (1) 63:9	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5 indicators (1) 39:23 industry (2) 34:4;39:12 information (23) 7:15,18;10:7; 11:12;25:20;26:6,8, 12;27:1;28:11;33:19; 45:3,7;47:1;69:22; 74:3;80:22;90:16; 91:11,13,17;92:1,8 inherent (2) 81:19,21 inputs (1) 76:10 in-service (1) 72:6 install (4) 59:1,7;70:9;87:5
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13, 14;33:4;35:13;36:15 forever (2) 35:4,10 form (2) 26:17;64:18 fortune (2) 78:1,2 forward (6) 10:2,2,6;42:11; 84:23;87:18 fossil (2) 51:1;87:20 found (4) 17:8;28:21;58:5; 93:16 Foundation (1) 44:10 four (9) 6:2,6;9:15,20;10:2; 11:13;23:12;72:8;	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18 future (6) 32:15,21;33:4,8; 81:17;82:14 futures (1) 14:3 G  gas (18) 6:3;7:8,10,12;9:13, 22;10:19;14:7;16:17; 34:15;35:7;36:12; 43:2;47:12;48:22; 51:2;77:12;95:1 gave (3) 4:14;27:22;33:2 general (1) 15:1 generally (1) 81:6	### T8:19;82:22;85:17  ### Hachey's (2) 4:16;65:17 hairs (1) 61:23 Hall (1) 54:16 Hampshire (3) 8:13;9:9;16:20 hand (1) 20:3 handle (1) 18:17 hands (6) 12:15;25:5;33:13; 54:13;66:11;90:10 handwritten (2) 21:21;22:2 handy (1) 94:4 happened (1) 43:9	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11, 19;20:8,11,20;21:4, 14;27:14;28:2;29:4, 17;30:12;31:2;33:12; 43:20;44:1;59:10; 60:4,13;62:8,18; 63:17;64:20;65:1,15; 66:12,15;71:7;75:1; 89:9;90:9,11;92:20; 95:19;96:2,7 hope (1) 27:15 House (1) 42:10 Hub (1) 14:7 hurt (2) 58:17;59:2 hypothetical (1) 63:9 hypothetically (1)	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5 indicators (1) 39:23 industry (2) 34:4;39:12 information (23) 7:15,18;10:7; 11:12;25:20;26:6,8, 12;27:1;28:11;33:19; 45:3,7;47:1;69:22; 74:3;80:22;90:16; 91:11,13,17;92:1,8 inherent (2) 81:19,21 inputs (1) 76:10 in-service (1) 72:6 install (4) 59:1,7;70:9;87:5 installations (1)
11:2;14:11,13; 18:6;19:2;20:15; 22:13;23:22,23;24:8, 14;25:3,21,23;26:14; 27:6;29:11;32:8,13, 14;33:4;35:13;36:15 forever (2) 35:4,10 form (2) 26:17;64:18 fortune (2) 78:1,2 forward (6) 10:2,2,6;42:11; 84:23;87:18 fossil (2) 51:1;87:20 found (4) 17:8;28:21;58:5; 93:16 Foundation (1) 44:10 four (9) 6:2,6;9:15,20;10:2;	28:18;41:22;42:16, 17;44:21;50:2;53:6; 61:20;63:3,15;64:22; 89:8;91:10;92:18; 95:18 future (6) 32:15,21;33:4,8; 81:17;82:14 futures (1) 14:3 G  gas (18) 6:3;7:8,10,12;9:13, 22;10:19;14:7;16:17; 34:15;35:7;36:12; 43:2;47:12;48:22; 51:2;77:12;95:1 gave (3) 4:14;27:22;33:2 general (1) 15:1 generally (1)	78:19;82:22;85:17  H  Hachey's (2)	21:5;31:10 holder (1) 82:22 HONIGBERG (39) 4:3,7;12:7;18:11, 19;20:8,11,20;21:4, 14;27:14;28:2;29:4, 17;30:12;31:2;33:12; 43:20;44:1;59:10; 60:4,13;62:8,18; 63:17;64:20;65:1,15; 66:12,15;71:7;75:1; 89:9;90:9,11;92:20; 95:19;96:2,7 hope (1) 27:15 House (1) 42:10 Hub (1) 14:7 hurt (2) 58:17;59:2 hypothetical (1) 63:9	76:2 indicated (2) 25:12;42:10 indicates (2) 57:13;68:5 indicators (1) 39:23 industry (2) 34:4;39:12 information (23) 7:15,18;10:7; 11:12;25:20;26:6,8, 12;27:1;28:11;33:19; 45:3,7;47:1;69:22; 74:3;80:22;90:16; 91:11,13,17;92:1,8 inherent (2) 81:19,21 inputs (1) 76:10 in-service (1) 72:6 install (4) 59:1,7;70:9;87:5

DE 11-230 I UDLIC		AND COST RECOVER	Ÿ	
installed (2)	Journal (2)	57:12,15,18;58:19;	53:4,9,14;61:16	looking (4)
73:5;95:8	38:16;40:2	60:23;61:6,10,18,22;		46:3;68:14;80:1;
installing (1)	July (1)	62:9,13;63:17,19;	41:21	94:3
47:11	36:10	64:3,10;65:18;66:16,	lengthy (1)	looks (2)
instance (1)	June (6)	21;67:4,7,13,18,21;	13:9	25:17;72:18
58:21	37:23;42:4;65:12;	68:12,18,23;69:2,8,	less (5)	lot (1)
Instead (3)	66:8;68:13;79:4	11,13,15,19;70:4,8,	73:6;74:6,17;80:6;	27:18
17:16;41:16;92:7	00.8,08.13,79.4	12,14,17,22;71:15;	82:13	lots (1)
intake (1)	K	72:1,5,14,16,21;73:9,		33:3
86:15	N.		11:17	low (3)
0 0 1 - 0	Varifican (1)	19;74:8,12,16,19;		` '
intended (1)	Kaufman (1)	75:6,14,18,23;76:3,8,	letters (1)	8:15;9:4;32:16
78:9	96:6	12,17,19,22;77:7,13,	24:5	lower (3)
intentional (1)	keep (2)	19;78:1,8,15,21,23;	life (2)	67:2;74:14,15
91:4	24:23;36:14	79:7,10,12,15;80:3,5,	82:23;83:1	lowest-cost (1)
interchange (1)	key (4)	11,15;81:9,11,19,23;		57:4
31:14	76:9;92:2,4,10	82:12;83:10;84:4,15,	49:18;50:12;51:8;	3.7
nterest (1)	kilowatt (7)	18,20;85:11,14;86:6,	73:19;77:7	M
13:14	68:9,9,10,15;	9,11,13;87:2,7,12,21;		
internal (2)	70:21;72:20;74:19	88:2,5;89:11,23;90:4,	30:6;31:11	maintain (1)
75:7;93:12	kind (2)	13,19;91:1,5,22;92:7,		11:11
Internet (1)	7:14;82:21	16;93:3,8,14,16,23;	32:7,8;37:5;40:23;	maintains (1)
28:22	knew (2)	94:5,11,14,17,20;	41:7;57:6;69:21	22:12
interpret (3)	9:6;80:21	95:3,5,14,17	Lines (6)	maintenance (2)
60:12;77:16;78:5	knowledge (1)	LargeI (1)	30:21;34:17;35:1;	88:7,14
interpretation (4)	24:9	72:10	40:13,16;41:5	major (2)
32:12;60:7;77:20;	known (1)	larger (1)	list (1)	46:20;74:1
78:12	33:6	74:13	11:4	majority (1)
INTERROGATORIES (2)	knows (1)	Large's (1)	listed (2)	41:18
75:5;89:9	28:7	63:9	73:7;76:6	making (7)
interrupt (1)	2011	last (12)	lists (5)	9:17;10:4;51:10;
28:4	$\mathbf{L}$	16:23;17:15;19:8;	11:3;70:15;71:22;	58:6;59:23;83:3;89:2
interrupts (3)	E	40:9;46:19;47:3;	72:2;94:16	managed (1)
67:23;74:18;82:9	lack (1)	51:4;58:11;62:23;	little (1)	88:22
into (12)	30:3	67:22;68:1;84:2	87:17	management (1)
17:1,20;27:12;	language (1)	late (2)	location (3)	93:12
17.1,20,27.12,	Tanguage (1)		location (3)	93.14
15.1 11.16.5.51.5.				
45:4,14;46:5;54:5;	58:11	4:4;96:14	14:8,10;88:8	managing (2)
72:23;81:16;82:3;	58:11 Large (262)	4:4;96:14 later (6)	14:8,10;88:8 Long (25)	managing (2) 35:21;45:20
72:23;81:16;82:3; 83:8;85:4	58:11 <b>Large (262)</b> 4:17,21;5:3,17;6:6,	4:4;96:14 later (6) 15:5,12;20:1;43:6,	14:8,10;88:8 <b>Long (25)</b> 5:5,12;29:22;32:6,	managing (2) 35:21;45:20 Manchester (1)
72:23;81:16;82:3; 83:8;85:4 investment (4)	58:11 <b>Large (262)</b> 4:17,21;5:3,17;6:6, 13,17,19;7:3,6;10:7,	4:4;96:14 <b>later (6)</b> 15:5,12;20:1;43:6, 9;87:5	14:8,10;88:8 <b>Long (25)</b> 5:5,12;29:22;32:6, 17,21;34:17;37:4;	managing (2) 35:21;45:20 Manchester (1) 88:10
72:23;81:16;82:3; 83:8;85:4 investment (4) 39:23;80:13;81:8;	58:11 Large (262) 4:17,21;5:3,17;6:6, 13,17,19;7:3,6;10:7, 9,16,22;11:5,10,13,	4:4;96:14 later (6) 15:5,12;20:1;43:6, 9;87:5 law (9)	14:8,10;88:8 <b>Long (25)</b> 5:5,12;29:22;32:6, 17,21;34:17;37:4; 51:18;53:19,20;55:3,	managing (2) 35:21;45:20 Manchester (1) 88:10 mandate (5)
72:23;81:16;82:3; 83:8;85:4 investment (4) 39:23;80:13;81:8; 82:5	58:11 Large (262) 4:17,21;5:3,17;6:6, 13,17,19;7:3,6;10:7, 9,16,22;11:5,10,13, 20,23;12:18,21;13:2,	4:4;96:14 later (6) 15:5,12;20:1;43:6, 9;87:5 law (9) 35:22;40:20;41:9,	14:8,10;88:8 <b>Long (25)</b> 5:5,12;29:22;32:6, 17,21;34:17;37:4; 51:18;53:19,20;55:3, 8,9,16;57:11,20;	managing (2) 35:21;45:20 Manchester (1) 88:10 mandate (5) 37:12,16;44:18;
72:23;81:16;82:3; 83:8;85:4 investment (4) 39:23;80:13;81:8; 82:5 IRP (5)	58:11 Large (262) 4:17,21;5:3,17;6:6, 13,17,19;7:3,6;10:7, 9,16,22;11:5,10,13, 20,23;12:18,21;13:2, 8,22;14:3;15:1,9,14,	4:4;96:14 later (6) 15:5,12;20:1;43:6, 9;87:5 law (9) 35:22;40:20;41:9, 16;42:18;43:8;44:9;	14:8,10;88:8 <b>Long (25)</b> 5:5,12;29:22;32:6, 17,21;34:17;37:4; 51:18;53:19,20;55:3, 8,9,16;57:11,20; 58:21;60:12;61:2,6;	managing (2) 35:21;45:20 Manchester (1) 88:10 mandate (5) 37:12,16;44:18; 52:23;60:3
72:23;81:16;82:3; 83:8;85:4 investment (4) 39:23;80:13;81:8; 82:5 IRP (5) 11:17;19:11;23:6;	58:11 Large (262) 4:17,21;5:3,17;6:6, 13,17,19;7:3,6;10:7, 9,16,22;11:5,10,13, 20,23;12:18,21;13:2, 8,22;14:3;15:1,9,14, 17;16:1,5,8;17:4,7,	4:4;96:14 later (6) 15:5,12;20:1;43:6, 9;87:5 law (9) 35:22;40:20;41:9, 16;42:18;43:8;44:9; 46:11;47:20	14:8,10;88:8  Long (25) 5:5,12;29:22;32:6, 17,21;34:17;37:4; 51:18;53:19,20;55:3, 8,9,16;57:11,20; 58:21;60:12;61:2,6; 62:5,11;88:5;95:23	managing (2) 35:21;45:20 Manchester (1) 88:10 mandate (5) 37:12,16;44:18; 52:23;60:3 mankind (1)
72:23;81:16;82:3; 83:8;85:4 investment (4) 39:23;80:13;81:8; 82:5 IRP (5) 11:17;19:11;23:6; 24:21;29:23	58:11 <b>Large (262)</b> 4:17,21;5:3,17;6:6, 13,17,19;7:3,6;10:7, 9,16,22;11:5,10,13, 20,23;12:18,21;13:2, 8,22;14:3;15:1,9,14, 17;16:1,5,8;17:4,7, 10,13,22;18:23;19:3,	4:4;96:14 later (6) 15:5,12;20:1;43:6, 9;87:5 law (9) 35:22;40:20;41:9, 16;42:18;43:8;44:9; 46:11;47:20 LCIRP (7)	14:8,10;88:8  Long (25) 5:5,12;29:22;32:6, 17,21;34:17;37:4; 51:18;53:19,20;55:3, 8,9,16;57:11,20; 58:21;60:12;61:2,6; 62:5,11;88:5;95:23  long-range (2)	managing (2) 35:21;45:20 Manchester (1) 88:10 mandate (5) 37:12,16;44:18; 52:23;60:3 mankind (1) 33:6
72:23;81:16;82:3; 83:8;85:4 investment (4) 39:23;80:13;81:8; 82:5 IRP (5) 11:17;19:11;23:6; 24:21;29:23 ISO-New (3)	58:11 Large (262) 4:17,21;5:3,17;6:6, 13,17,19;7:3,6;10:7, 9,16,22;11:5,10,13, 20,23;12:18,21;13:2, 8,22;14:3;15:1,9,14, 17;16:1,5,8;17:4,7, 10,13,22;18:23;19:3, 6;21:20;22:3,6,16,20;	4:4;96:14 later (6) 15:5,12;20:1;43:6, 9;87:5 law (9) 35:22;40:20;41:9, 16;42:18;43:8;44:9; 46:11;47:20 LCIRP (7) 12:2;13:4;16:4,21;	14:8,10;88:8  Long (25) 5:5,12;29:22;32:6, 17,21;34:17;37:4; 51:18;53:19,20;55:3, 8,9,16;57:11,20; 58:21;60:12;61:2,6; 62:5,11;88:5;95:23  long-range (2) 13:17;16:4	managing (2) 35:21;45:20 Manchester (1) 88:10 mandate (5) 37:12,16;44:18; 52:23;60:3 mankind (1) 33:6 manner (1)
72:23;81:16;82:3; 83:8;85:4 investment (4) 39:23;80:13;81:8; 82:5 IRP (5) 11:17;19:11;23:6; 24:21;29:23 ISO-New (3) 49:6;50:11;51:11	58:11 Large (262) 4:17,21;5:3,17;6:6, 13,17,19;7:3,6;10:7, 9,16,22;11:5,10,13, 20,23;12:18,21;13:2, 8,22;14:3;15:1,9,14, 17;16:1,5,8;17:4,7, 10,13,22;18:23;19:3, 6;21:20;22:3,6,16,20; 23:5,8,11,15,19;24:8,	4:4;96:14 later (6) 15:5,12;20:1;43:6, 9;87:5 law (9) 35:22;40:20;41:9, 16;42:18;43:8;44:9; 46:11;47:20 LCIRP (7) 12:2;13:4;16:4,21; 24:12;27:2;29:9	14:8,10;88:8  Long (25) 5:5,12;29:22;32:6, 17,21;34:17;37:4; 51:18;53:19,20;55:3, 8,9,16;57:11,20; 58:21;60:12;61:2,6; 62:5,11;88:5;95:23  long-range (2) 13:17;16:4  Long's (5)	managing (2) 35:21;45:20 Manchester (1) 88:10 mandate (5) 37:12,16;44:18; 52:23;60:3 mankind (1) 33:6 manner (1) 93:11
72:23;81:16;82:3; 83:8;85:4 investment (4) 39:23;80:13;81:8; 82:5 IRP (5) 11:17;19:11;23:6; 24:21;29:23 ISO-New (3) 49:6;50:11;51:11 issue (3)	58:11 Large (262) 4:17,21;5:3,17;6:6, 13,17,19;7:3,6;10:7, 9,16,22;11:5,10,13, 20,23;12:18,21;13:2, 8,22;14:3;15:1,9,14, 17;16:1,5,8;17:4,7, 10,13,22;18:23;19:3, 6;21:20;22:3,6,16,20; 23:5,8,11,15,19;24:8, 16,21;25:2,8,16,19;	4:4;96:14 later (6) 15:5,12;20:1;43:6, 9;87:5 law (9) 35:22;40:20;41:9, 16;42:18;43:8;44:9; 46:11;47:20 LCIRP (7) 12:2;13:4;16:4,21; 24:12;27:2;29:9 learned (2)	14:8,10;88:8  Long (25) 5:5,12;29:22;32:6, 17,21;34:17;37:4; 51:18;53:19,20;55:3, 8,9,16;57:11,20; 58:21;60:12;61:2,6; 62:5,11;88:5;95:23 long-range (2) 13:17;16:4 Long's (5) 34:22;54:4;56:19;	managing (2) 35:21;45:20 Manchester (1) 88:10 mandate (5) 37:12,16;44:18; 52:23;60:3 mankind (1) 33:6 manner (1) 93:11 many (2)
72:23;81:16;82:3; 83:8;85:4 investment (4) 39:23;80:13;81:8; 82:5 IRP (5) 11:17;19:11;23:6; 24:21;29:23 ISO-New (3) 49:6;50:11;51:11	58:11 Large (262) 4:17,21;5:3,17;6:6, 13,17,19;7:3,6;10:7, 9,16,22;11:5,10,13, 20,23;12:18,21;13:2, 8,22;14:3;15:1,9,14, 17;16:1,5,8;17:4,7, 10,13,22;18:23;19:3, 6;21:20;22:3,6,16,20; 23:5,8,11,15,19;24:8,	4:4;96:14 later (6) 15:5,12;20:1;43:6, 9;87:5 law (9) 35:22;40:20;41:9, 16;42:18;43:8;44:9; 46:11;47:20 LCIRP (7) 12:2;13:4;16:4,21; 24:12;27:2;29:9	14:8,10;88:8  Long (25) 5:5,12;29:22;32:6, 17,21;34:17;37:4; 51:18;53:19,20;55:3, 8,9,16;57:11,20; 58:21;60:12;61:2,6; 62:5,11;88:5;95:23  long-range (2) 13:17;16:4  Long's (5)	managing (2) 35:21;45:20 Manchester (1) 88:10 mandate (5) 37:12,16;44:18; 52:23;60:3 mankind (1) 33:6 manner (1) 93:11
72:23;81:16;82:3; 83:8;85:4 investment (4) 39:23;80:13;81:8; 82:5 IRP (5) 11:17;19:11;23:6; 24:21;29:23 ISO-New (3) 49:6;50:11;51:11 issue (3) 86:5,6;94:6	58:11 Large (262) 4:17,21;5:3,17;6:6, 13,17,19;7:3,6;10:7, 9,16,22;11:5,10,13, 20,23;12:18,21;13:2, 8,22;14:3;15:1,9,14, 17;16:1,5,8;17:4,7, 10,13,22;18:23;19:3, 6;21:20;22:3,6,16,20; 23:5,8,11,15,19;24:8, 16,21;25:2,8,16,19;	4:4;96:14 later (6) 15:5,12;20:1;43:6, 9;87:5 law (9) 35:22;40:20;41:9, 16;42:18;43:8;44:9; 46:11;47:20 LCIRP (7) 12:2;13:4;16:4,21; 24:12;27:2;29:9 learned (2)	14:8,10;88:8  Long (25) 5:5,12;29:22;32:6, 17,21;34:17;37:4; 51:18;53:19,20;55:3, 8,9,16;57:11,20; 58:21;60:12;61:2,6; 62:5,11;88:5;95:23 long-range (2) 13:17;16:4 Long's (5) 34:22;54:4;56:19;	managing (2) 35:21;45:20 Manchester (1) 88:10 mandate (5) 37:12,16;44:18; 52:23;60:3 mankind (1) 33:6 manner (1) 93:11 many (2)
72:23;81:16;82:3; 83:8;85:4 investment (4) 39:23;80:13;81:8; 82:5 IRP (5) 11:17;19:11;23:6; 24:21;29:23 ISO-New (3) 49:6;50:11;51:11 issue (3) 86:5,6;94:6	58:11  Large (262) 4:17,21;5:3,17;6:6, 13,17,19;7:3,6;10:7, 9,16,22;11:5,10,13, 20,23;12:18,21;13:2, 8,22;14:3;15:1,9,14, 17;16:1,5,8;17:4,7, 10,13,22;18:23;19:3, 6;21:20;22:3,6,16,20; 23:5,8,11,15,19;24:8, 16,21;25:2,8,16,19; 26:8,11,15,19,23;	4:4;96:14 later (6) 15:5,12;20:1;43:6, 9;87:5 law (9) 35:22;40:20;41:9, 16;42:18;43:8;44:9; 46:11;47:20 LCIRP (7) 12:2;13:4;16:4,21; 24:12;27:2;29:9 learned (2) 32:20;91:6	14:8,10;88:8  Long (25) 5:5,12;29:22;32:6, 17,21;34:17;37:4; 51:18;53:19,20;55:3, 8,9,16;57:11,20; 58:21;60:12;61:2,6; 62:5,11;88:5;95:23  long-range (2) 13:17;16:4  Long's (5) 34:22;54:4;56:19; 64:6,13	managing (2) 35:21;45:20 Manchester (1) 88:10 mandate (5) 37:12,16;44:18; 52:23;60:3 mankind (1) 33:6 manner (1) 93:11 many (2) 89:13;91:14
72:23;81:16;82:3; 83:8;85:4 investment (4) 39:23;80:13;81:8; 82:5 IRP (5) 11:17;19:11;23:6; 24:21;29:23 ISO-New (3) 49:6;50:11;51:11 issue (3) 86:5,6;94:6 item (1) 84:23	58:11  Large (262) 4:17,21;5:3,17;6:6, 13,17,19;7:3,6;10:7, 9,16,22;11:5,10,13, 20,23;12:18,21;13:2, 8,22;14:3;15:1,9,14, 17;16:1,5,8;17:4,7, 10,13,22;18:23;19:3, 6;21:20;22:3,6,16,20; 23:5,8,11,15,19;24:8, 16,21;25:2,8,16,19; 26:8,11,15,19,23; 29:8;30:1,9,14,23; 31:8,12,20;32:11;	4:4;96:14 later (6) 15:5,12;20:1;43:6, 9;87:5 law (9) 35:22;40:20;41:9, 16;42:18;43:8;44:9; 46:11;47:20 LCIRP (7) 12:2;13:4;16:4,21; 24:12;27:2;29:9 learned (2) 32:20;91:6 led (3) 39:10;64:8;87:23	14:8,10;88:8  Long (25) 5:5,12;29:22;32:6, 17,21;34:17;37:4; 51:18;53:19,20;55:3, 8,9,16;57:11,20; 58:21;60:12;61:2,6; 62:5,11;88:5;95:23 long-range (2) 13:17;16:4 Long's (5) 34:22;54:4;56:19; 64:6,13 long-term (8)	managing (2) 35:21;45:20 Manchester (1) 88:10 mandate (5) 37:12,16;44:18; 52:23;60:3 mankind (1) 33:6 manner (1) 93:11 many (2) 89:13;91:14 March (9) 22:1,14,23;42:23;
72:23;81:16;82:3; 83:8;85:4 investment (4) 39:23;80:13;81:8; 82:5 IRP (5) 11:17;19:11;23:6; 24:21;29:23 ISO-New (3) 49:6;50:11;51:11 issue (3) 86:5,6;94:6 item (1) 84:23	58:11  Large (262) 4:17,21;5:3,17;6:6, 13,17,19;7:3,6;10:7, 9,16,22;11:5,10,13, 20,23;12:18,21;13:2, 8,22;14:3;15:1,9,14, 17;16:1,5,8;17:4,7, 10,13,22;18:23;19:3, 6;21:20;22:3,6,16,20; 23:5,8,11,15,19;24:8, 16,21;25:2,8,16,19; 26:8,11,15,19,23; 29:8;30:1,9,14,23; 31:8,12,20;32:11; 33:1;34:8,19,21,23;	4:4;96:14 later (6) 15:5,12;20:1;43:6, 9;87:5 law (9) 35:22;40:20;41:9, 16;42:18;43:8;44:9; 46:11;47:20 LCIRP (7) 12:2;13:4;16:4,21; 24:12;27:2;29:9 learned (2) 32:20;91:6 led (3)	14:8,10;88:8  Long (25) 5:5,12;29:22;32:6, 17,21;34:17;37:4; 51:18;53:19,20;55:3, 8,9,16;57:11,20; 58:21;60:12;61:2,6; 62:5,11;88:5;95:23 long-range (2) 13:17;16:4 Long's (5) 34:22;54:4;56:19; 64:6,13 long-term (8) 17:18;32:8,13,14; 33:6;35:13,19;36:7	managing (2) 35:21;45:20 Manchester (1) 88:10 mandate (5) 37:12,16;44:18; 52:23;60:3 mankind (1) 33:6 manner (1) 93:11 many (2) 89:13;91:14 March (9) 22:1,14,23;42:23;
72:23;81:16;82:3; 83:8;85:4 investment (4) 39:23;80:13;81:8; 82:5 IRP (5) 11:17;19:11;23:6; 24:21;29:23 ISO-New (3) 49:6;50:11;51:11 issue (3) 86:5,6;94:6 item (1) 84:23 items (2) 47:7;86:14	58:11  Large (262)  4:17,21;5:3,17;6:6, 13,17,19;7:3,6;10:7, 9,16,22;11:5,10,13, 20,23;12:18,21;13:2, 8,22;14:3;15:1,9,14, 17;16:1,5,8;17:4,7, 10,13,22;18:23;19:3, 6;21:20;22:3,6,16,20; 23:5,8,11,15,19;24:8, 16,21;25:2,8,16,19; 26:8,11,15,19,23; 29:8;30:1,9,14,23; 31:8,12,20;32:11; 33:1;34:8,19,21,23; 35:6,23;36:5,8,18;	4:4;96:14 later (6) 15:5,12;20:1;43:6, 9;87:5 law (9) 35:22;40:20;41:9, 16;42:18;43:8;44:9; 46:11;47:20 LCIRP (7) 12:2;13:4;16:4,21; 24:12;27:2;29:9 learned (2) 32:20;91:6 led (3) 39:10;64:8;87:23 ledger (1) 42:12	14:8,10;88:8  Long (25) 5:5,12;29:22;32:6, 17,21;34:17;37:4; 51:18;53:19,20;55:3, 8,9,16;57:11,20; 58:21;60:12;61:2,6; 62:5,11;88:5;95:23 long-range (2) 13:17;16:4 Long's (5) 34:22;54:4;56:19; 64:6,13 long-term (8) 17:18;32:8,13,14; 33:6;35:13,19;36:7 look (30)	managing (2) 35:21;45:20 Manchester (1) 88:10 mandate (5) 37:12,16;44:18; 52:23;60:3 mankind (1) 33:6 manner (1) 93:11 many (2) 89:13;91:14 March (9) 22:1,14,23;42:23; 46:21;52:6,13;54:15; 72:1
72:23;81:16;82:3; 83:8;85:4 investment (4) 39:23;80:13;81:8; 82:5 IRP (5) 11:17;19:11;23:6; 24:21;29:23 ISO-New (3) 49:6;50:11;51:11 issue (3) 86:5,6;94:6 item (1) 84:23 items (2) 47:7;86:14 IV (1)	58:11  Large (262) 4:17,21;5:3,17;6:6, 13,17,19;7:3,6;10:7, 9,16,22;11:5,10,13, 20,23;12:18,21;13:2, 8,22;14:3;15:1,9,14, 17;16:1,5,8;17:4,7, 10,13,22;18:23;19:3, 6;21:20;22:3,6,16,20; 23:5,8,11,15,19;24:8, 16,21;25:2,8,16,19; 26:8,11,15,19,23; 29:8;30:1,9,14,23; 31:8,12,20;32:11; 33:1;34:8,19,21,23; 35:6,23;36:5,8,18; 37:9,14;38:2,13,19,	4:4;96:14 later (6) 15:5,12;20:1;43:6, 9;87:5 law (9) 35:22;40:20;41:9, 16;42:18;43:8;44:9; 46:11;47:20 LCIRP (7) 12:2;13:4;16:4,21; 24:12;27:2;29:9 learned (2) 32:20;91:6 led (3) 39:10;64:8;87:23 ledger (1) 42:12 left (4)	14:8,10;88:8  Long (25) 5:5,12;29:22;32:6, 17,21;34:17;37:4; 51:18;53:19,20;55:3, 8,9,16;57:11,20; 58:21;60:12;61:2,6; 62:5,11;88:5;95:23  long-range (2) 13:17;16:4  Long's (5) 34:22;54:4;56:19; 64:6,13  long-term (8) 17:18;32:8,13,14; 33:6;35:13,19;36:7  look (30) 5:8;8:10;12:1;15:7,	managing (2) 35:21;45:20 Manchester (1) 88:10 mandate (5) 37:12,16;44:18; 52:23;60:3 mankind (1) 33:6 manner (1) 93:11 many (2) 89:13;91:14 March (9) 22:1,14,23;42:23; 46:21;52:6,13;54:15; 72:1 mark (3)
72:23;81:16;82:3; 83:8;85:4 investment (4) 39:23;80:13;81:8; 82:5 IRP (5) 11:17;19:11;23:6; 24:21;29:23 ISO-New (3) 49:6;50:11;51:11 issue (3) 86:5,6;94:6 item (1) 84:23 items (2) 47:7;86:14 IV (1) 75:16	58:11  Large (262) 4:17,21;5:3,17;6:6, 13,17,19;7:3,6;10:7, 9,16,22;11:5,10,13, 20,23;12:18,21;13:2, 8,22;14:3;15:1,9,14, 17;16:1,5,8;17:4,7, 10,13,22;18:23;19:3, 6;21:20;22:3,6,16,20; 23:5,8,11,15,19;24:8, 16,21;25:2,8,16,19; 26:8,11,15,19,23; 29:8;30:1,9,14,23; 31:8,12,20;32:11; 33:1;34:8,19,21,23; 35:6,23;36:5,8,18; 37:9,14;38:2,13,19, 23;39:9,18;40:4,11,	4:4;96:14 later (6) 15:5,12;20:1;43:6, 9;87:5 law (9) 35:22;40:20;41:9, 16;42:18;43:8;44:9; 46:11;47:20 LCIRP (7) 12:2;13:4;16:4,21; 24:12;27:2;29:9 learned (2) 32:20;91:6 led (3) 39:10;64:8;87:23 ledger (1) 42:12 left (4) 7:7;79:18,20;86:14	14:8,10;88:8  Long (25) 5:5,12;29:22;32:6, 17,21;34:17;37:4; 51:18;53:19,20;55:3, 8,9,16;57:11,20; 58:21;60:12;61:2,6; 62:5,11;88:5;95:23  long-range (2) 13:17;16:4  Long's (5) 34:22;54:4;56:19; 64:6,13  long-term (8) 17:18;32:8,13,14; 33:6;35:13,19;36:7 look (30) 5:8;8:10;12:1;15:7, 18;16:21,22;18:14;	managing (2) 35:21;45:20 Manchester (1) 88:10 mandate (5) 37:12,16;44:18; 52:23;60:3 mankind (1) 33:6 manner (1) 93:11 many (2) 89:13;91:14 March (9) 22:1,14,23;42:23; 46:21;52:6,13;54:15; 72:1 mark (3) 20:22;71:2,9
72:23;81:16;82:3; 83:8;85:4 investment (4) 39:23;80:13;81:8; 82:5 IRP (5) 11:17;19:11;23:6; 24:21;29:23 ISO-New (3) 49:6;50:11;51:11 issue (3) 86:5,6;94:6 item (1) 84:23 items (2) 47:7;86:14 IV (1) 75:16 Ivy (1)	58:11  Large (262)  4:17,21;5:3,17;6:6, 13,17,19;7:3,6;10:7, 9,16,22;11:5,10,13, 20,23;12:18,21;13:2, 8,22;14:3;15:1,9,14, 17;16:1,5,8;17:4,7, 10,13,22;18:23;19:3, 6;21:20;22:3,6,16,20; 23:5,8,11,15,19;24:8, 16,21;25:2,8,16,19; 26:8,11,15,19,23; 29:8;30:1,9,14,23; 31:8,12,20;32:11; 33:1;34:8,19,21,23; 35:6,23;36:5,8,18; 37:9,14;38:2,13,19, 23;39:9,18;40:4,11, 15,22;41:3,12;42:1,7;	4:4;96:14 later (6) 15:5,12;20:1;43:6, 9;87:5 law (9) 35:22;40:20;41:9, 16;42:18;43:8;44:9; 46:11;47:20 LCIRP (7) 12:2;13:4;16:4,21; 24:12;27:2;29:9 learned (2) 32:20;91:6 led (3) 39:10;64:8;87:23 ledger (1) 42:12 left (4) 7:7;79:18,20;86:14 left-hand (1)	14:8,10;88:8  Long (25) 5:5,12;29:22;32:6, 17,21;34:17;37:4; 51:18;53:19,20;55:3, 8,9,16;57:11,20; 58:21;60:12;61:2,6; 62:5,11;88:5;95:23 long-range (2) 13:17;16:4  Long's (5) 34:22;54:4;56:19; 64:6,13 long-term (8) 17:18;32:8,13,14; 33:6;35:13,19;36:7 look (30) 5:8;8:10;12:1;15:7, 18;16:21,22;18:14; 20:19,21;23:22;	managing (2) 35:21;45:20 Manchester (1) 88:10 mandate (5) 37:12,16;44:18; 52:23;60:3 mankind (1) 33:6 manner (1) 93:11 many (2) 89:13;91:14 March (9) 22:1,14,23;42:23; 46:21;52:6,13;54:15; 72:1 mark (3) 20:22;71:2,9 marked (9)
72:23;81:16;82:3; 83:8;85:4 investment (4) 39:23;80:13;81:8; 82:5 IRP (5) 11:17;19:11;23:6; 24:21;29:23 ISO-New (3) 49:6;50:11;51:11 issue (3) 86:5,6;94:6 item (1) 84:23 items (2) 47:7;86:14 IV (1) 75:16	58:11  Large (262)  4:17,21;5:3,17;6:6, 13,17,19;7:3,6;10:7, 9,16,22;11:5,10,13, 20,23;12:18,21;13:2, 8,22;14:3;15:1,9,14, 17;16:1,5,8;17:4,7, 10,13,22;18:23;19:3, 6;21:20;22:3,6,16,20; 23:5,8,11,15,19;24:8, 16,21;25:2,8,16,19; 26:8,11,15,19,23; 29:8;30:1,9,14,23; 31:8,12,20;32:11; 33:1;34:8,19,21,23; 35:6,23;36:5,8,18; 37:9,14;38:2,13,19, 23;39:9,18;40:4,11, 15,22;41:3,12;42:1,7; 43:3,12,14,16,18;	4:4;96:14 later (6) 15:5,12;20:1;43:6, 9;87:5 law (9) 35:22;40:20;41:9, 16;42:18;43:8;44:9; 46:11;47:20 LCIRP (7) 12:2;13:4;16:4,21; 24:12;27:2;29:9 learned (2) 32:20;91:6 led (3) 39:10;64:8;87:23 ledger (1) 42:12 left (4) 7:7;79:18,20;86:14 left-hand (1) 94:22	14:8,10;88:8  Long (25) 5:5,12;29:22;32:6, 17,21;34:17;37:4; 51:18;53:19,20;55:3, 8,9,16;57:11,20; 58:21;60:12;61:2,6; 62:5,11;88:5;95:23 long-range (2) 13:17;16:4 Long's (5) 34:22;54:4;56:19; 64:6,13 long-term (8) 17:18;32:8,13,14; 33:6;35:13,19;36:7 look (30) 5:8;8:10;12:1;15:7, 18;16:21,22;18:14; 20:19,21;23:22; 24:17;33:18;35:2,8;	managing (2) 35:21;45:20 Manchester (1) 88:10 mandate (5) 37:12,16;44:18; 52:23;60:3 mankind (1) 33:6 manner (1) 93:11 many (2) 89:13;91:14 March (9) 22:1,14,23;42:23; 46:21;52:6,13;54:15; 72:1 mark (3) 20:22;71:2,9 marked (9) 20:7;21:7,13;26:4,
72:23;81:16;82:3; 83:8;85:4 investment (4) 39:23;80:13;81:8; 82:5 IRP (5) 11:17;19:11;23:6; 24:21;29:23 ISO-New (3) 49:6;50:11;51:11 issue (3) 86:5,6;94:6 item (1) 84:23 items (2) 47:7;86:14 IV (1) 75:16 Ivy (1) 44:8	58:11  Large (262)  4:17,21;5:3,17;6:6, 13,17,19;7:3,6;10:7, 9,16,22;11:5,10,13, 20,23;12:18,21;13:2, 8,22;14:3;15:1,9,14, 17;16:1,5,8;17:4,7, 10,13,22;18:23;19:3, 6;21:20;22:3,6,16,20; 23:5,8,11,15,19;24:8, 16,21;25:2,8,16,19; 26:8,11,15,19,23; 29:8;30:1,9,14,23; 31:8,12,20;32:11; 33:1;34:8,19,21,23; 35:6,23;36:5,8,18; 37:9,14;38:2,13,19, 23;39:9,18;40:4,11, 15,22;41:3,12;42:1,7; 43:3,12,14,16,18; 44:15,23;45:22;46:9,	4:4;96:14 later (6) 15:5,12;20:1;43:6, 9;87:5 law (9) 35:22;40:20;41:9, 16;42:18;43:8;44:9; 46:11;47:20 LCIRP (7) 12:2;13:4;16:4,21; 24:12;27:2;29:9 learned (2) 32:20;91:6 led (3) 39:10;64:8;87:23 ledger (1) 42:12 left (4) 7:7;79:18,20;86:14 left-hand (1) 94:22 legal (2)	14:8,10;88:8  Long (25) 5:5,12;29:22;32:6, 17,21;34:17;37:4; 51:18;53:19,20;55:3, 8,9,16;57:11,20; 58:21;60:12;61:2,6; 62:5,11;88:5;95:23 long-range (2) 13:17;16:4  Long's (5) 34:22;54:4;56:19; 64:6,13 long-term (8) 17:18;32:8,13,14; 33:6;35:13,19;36:7 look (30) 5:8;8:10;12:1;15:7, 18;16:21,22;18:14; 20:19,21;23:22; 24:17;33:18;35:2,8; 45:17;48:15;49:3,21;	managing (2) 35:21;45:20 Manchester (1) 88:10 mandate (5) 37:12,16;44:18; 52:23;60:3 mankind (1) 33:6 manner (1) 93:11 many (2) 89:13;91:14 March (9) 22:1,14,23;42:23; 46:21;52:6,13;54:15; 72:1 mark (3) 20:22;71:2,9 marked (9) 20:7;21:7,13;26:4, 7;33:11,15;71:11;
72:23;81:16;82:3; 83:8;85:4 investment (4) 39:23;80:13;81:8; 82:5 IRP (5) 11:17;19:11;23:6; 24:21;29:23 ISO-New (3) 49:6;50:11;51:11 issue (3) 86:5,6;94:6 item (1) 84:23 items (2) 47:7;86:14 IV (1) 75:16 Ivy (1)	58:11  Large (262) 4:17,21;5:3,17;6:6, 13,17,19;7:3,6;10:7, 9,16,22;11:5,10,13, 20,23;12:18,21;13:2, 8,22;14:3;15:1,9,14, 17;16:1,5,8;17:4,7, 10,13,22;18:23;19:3, 6;21:20;22:3,6,16,20; 23:5,8,11,15,19;24:8, 16,21;25:2,8,16,19; 26:8,11,15,19,23; 29:8;30:1,9,14,23; 31:8,12,20;32:11; 33:1;34:8,19,21,23; 35:6,23;36:5,8,18; 37:9,14;38:2,13,19, 23;39:9,18;40:4,11, 15,22;41:3,12;42:1,7; 43:3,12,14,16,18; 44:15,23;45:22;46:9, 22;47:4,15,23;48:19;	4:4;96:14 later (6) 15:5,12;20:1;43:6, 9;87:5 law (9) 35:22;40:20;41:9, 16;42:18;43:8;44:9; 46:11;47:20 LCIRP (7) 12:2;13:4;16:4,21; 24:12;27:2;29:9 learned (2) 32:20;91:6 led (3) 39:10;64:8;87:23 ledger (1) 42:12 left (4) 7:7;79:18,20;86:14 left-hand (1) 94:22 legal (2) 85:15;91:6	14:8,10;88:8  Long (25) 5:5,12;29:22;32:6, 17,21;34:17;37:4; 51:18;53:19,20;55:3, 8,9,16;57:11,20; 58:21;60:12;61:2,6; 62:5,11;88:5;95:23  long-range (2) 13:17;16:4  Long's (5) 34:22;54:4;56:19; 64:6,13  long-term (8) 17:18;32:8,13,14; 33:6;35:13,19;36:7 look (30) 5:8;8:10;12:1;15:7, 18;16:21,22;18:14; 20:19,21;23:22; 24:17;33:18;35:2,8; 45:17;48:15;49:3,21; 50:23;51:9;54:23;	managing (2) 35:21;45:20 Manchester (1) 88:10 mandate (5) 37:12,16;44:18; 52:23;60:3 mankind (1) 33:6 manner (1) 93:11 many (2) 89:13;91:14 March (9) 22:1,14,23;42:23; 46:21;52:6,13;54:15; 72:1 mark (3) 20:22;71:2,9 marked (9) 20:7;21:7,13;26:4, 7;33:11,15;71:11; 89:18
72:23;81:16;82:3; 83:8;85:4 investment (4) 39:23;80:13;81:8; 82:5 IRP (5) 11:17;19:11;23:6; 24:21;29:23 ISO-New (3) 49:6;50:11;51:11 issue (3) 86:5,6;94:6 item (1) 84:23 items (2) 47:7;86:14 IV (1) 75:16 Ivy (1) 44:8	58:11  Large (262) 4:17,21;5:3,17;6:6, 13,17,19;7:3,6;10:7, 9,16,22;11:5,10,13, 20,23;12:18,21;13:2, 8,22;14:3;15:1,9,14, 17;16:1,5,8;17:4,7, 10,13,22;18:23;19:3, 6;21:20;22:3,6,16,20; 23:5,8,11,15,19;24:8, 16,21;25:2,8,16,19; 26:8,11,15,19,23; 29:8;30:1,9,14,23; 31:8,12,20;32:11; 33:1;34:8,19,21,23; 35:6,23;36:5,8,18; 37:9,14;38:2,13,19, 23;39:9,18;40:4,11, 15,22;41:3,12;42:1,7; 43:3,12,14,16,18; 44:15,23;45:22;46:9, 22;47:4,15,23;48:19; 49:8,11,14,17;50:1,4,	4:4;96:14 later (6) 15:5,12;20:1;43:6, 9;87:5 law (9) 35:22;40:20;41:9, 16;42:18;43:8;44:9; 46:11;47:20 LCIRP (7) 12:2;13:4;16:4,21; 24:12;27:2;29:9 learned (2) 32:20;91:6 led (3) 39:10;64:8;87:23 ledger (1) 42:12 left (4) 7:7;79:18,20;86:14 left-hand (1) 94:22 legal (2) 85:15;91:6 legislative (3)	14:8,10;88:8  Long (25) 5:5,12;29:22;32:6, 17,21;34:17;37:4; 51:18;53:19,20;55:3, 8,9,16;57:11,20; 58:21;60:12;61:2,6; 62:5,11;88:5;95:23  long-range (2) 13:17;16:4  Long's (5) 34:22;54:4;56:19; 64:6,13  long-term (8) 17:18;32:8,13,14; 33:6;35:13,19;36:7 look (30) 5:8;8:10;12:1;15:7, 18;16:21,22;18:14; 20:19,21;23:22; 24:17;33:18;35:2,8; 45:17;48:15;49:3,21; 50:23;51:9;54:23; 67:6;68:20;69:12;	managing (2) 35:21;45:20 Manchester (1) 88:10 mandate (5) 37:12,16;44:18; 52:23;60:3 mankind (1) 33:6 manner (1) 93:11 many (2) 89:13;91:14 March (9) 22:1,14,23;42:23; 46:21;52:6,13;54:15; 72:1 mark (3) 20:22;71:2,9 marked (9) 20:7;21:7,13;26:4, 7;33:11,15;71:11; 89:18 market (11)
72:23;81:16;82:3; 83:8;85:4 investment (4) 39:23;80:13;81:8; 82:5 IRP (5) 11:17;19:11;23:6; 24:21;29:23 ISO-New (3) 49:6;50:11;51:11 issue (3) 86:5,6;94:6 item (1) 84:23 items (2) 47:7;86:14 IV (1) 75:16 Ivy (1) 44:8	58:11  Large (262)  4:17,21;5:3,17;6:6, 13,17,19;7:3,6;10:7, 9,16,22;11:5,10,13, 20,23;12:18,21;13:2, 8,22;14:3;15:1,9,14, 17;16:1,5,8;17:4,7, 10,13,22;18:23;19:3, 6;21:20;22:3,6,16,20; 23:5,8,11,15,19;24:8, 16,21;25:2,8,16,19; 26:8,11,15,19,23; 29:8;30:1,9,14,23; 31:8,12,20;32:11; 33:1;34:8,19,21,23; 35:6,23;36:5,8,18; 37:9,14;38:2,13,19, 23;39:9,18;40:4,11, 15,22;41:3,12;42:1,7; 43:3,12,14,16,18; 44:15,23;45:22;46:9, 22;47:4,15,23;48:19; 49:8,11,14,17;50:1,4, 16;51:13;52:1,8,15,	4:4;96:14 later (6) 15:5,12;20:1;43:6, 9;87:5 law (9) 35:22;40:20;41:9, 16;42:18;43:8;44:9; 46:11;47:20 LCIRP (7) 12:2;13:4;16:4,21; 24:12;27:2;29:9 learned (2) 32:20;91:6 led (3) 39:10;64:8;87:23 ledger (1) 42:12 left (4) 7:7;79:18,20;86:14 left-hand (1) 94:22 legal (2) 85:15;91:6 legislative (3) 44:18;45:8;62:1	14:8,10;88:8  Long (25) 5:5,12;29:22;32:6, 17,21;34:17;37:4; 51:18;53:19,20;55:3, 8,9,16;57:11,20; 58:21;60:12;61:2,6; 62:5,11;88:5;95:23  long-range (2) 13:17;16:4  Long's (5) 34:22;54:4;56:19; 64:6,13  long-term (8) 17:18;32:8,13,14; 33:6;35:13,19;36:7 look (30) 5:8;8:10;12:1;15:7, 18;16:21,22;18:14; 20:19,21;23:22; 24:17;33:18;35:2,8; 45:17;48:15;49:3,21; 50:23;51:9;54:23; 67:6;68:20;69:12; 71:16,20;85:23;	managing (2) 35:21;45:20 Manchester (1) 88:10 mandate (5) 37:12,16;44:18; 52:23;60:3 mankind (1) 33:6 manner (1) 93:11 many (2) 89:13;91:14 March (9) 22:1,14,23;42:23; 46:21;52:6,13;54:15; 72:1 mark (3) 20:22;71:2,9 marked (9) 20:7;21:7,13;26:4, 7;33:11,15;71:11; 89:18 market (11) 17:19;49:7,11,12,
72:23;81:16;82:3; 83:8;85:4 investment (4) 39:23;80:13;81:8; 82:5 IRP (5) 11:17;19:11;23:6; 24:21;29:23 ISO-New (3) 49:6;50:11;51:11 issue (3) 86:5,6;94:6 item (1) 84:23 items (2) 47:7;86:14 IV (1) 75:16 Ivy (1) 44:8 J Jacobs (3) 77:3;93:10,15	58:11  Large (262)  4:17,21;5:3,17;6:6, 13,17,19;7:3,6;10:7, 9,16,22;11:5,10,13, 20,23;12:18,21;13:2, 8,22;14:3;15:1,9,14, 17;16:1,5,8;17:4,7, 10,13,22;18:23;19:3, 6;21:20;22:3,6,16,20; 23:5,8,11,15,19;24:8, 16,21;25:2,8,16,19; 26:8,11,15,19,23; 29:8;30:1,9,14,23; 31:8,12,20;32:11; 33:1;34:8,19,21,23; 35:6,23;36:5,8,18; 37:9,14;38:2,13,19, 23;39:9,18;40:4,11, 15,22;41:3,12;42:1,7; 43:3,12,14,16,18; 44:15,23;45:22;46:9, 22;47:4,15,23;48:19; 49:8,11,14,17;50:1,4, 16;51:13;52:1,8,15, 20;53:2,9,15,20;54:3,	4:4;96:14 later (6) 15:5,12;20:1;43:6, 9;87:5 law (9) 35:22;40:20;41:9, 16;42:18;43:8;44:9; 46:11;47:20 LCIRP (7) 12:2;13:4;16:4,21; 24:12;27:2;29:9 learned (2) 32:20;91:6 led (3) 39:10;64:8;87:23 ledger (1) 42:12 left (4) 7:7;79:18,20;86:14 left-hand (1) 94:22 legal (2) 85:15;91:6 legislative (3) 44:18;45:8;62:1 Legislature (10)	14:8,10;88:8  Long (25) 5:5,12;29:22;32:6, 17,21;34:17;37:4; 51:18;53:19,20;55:3, 8,9,16;57:11,20; 58:21;60:12;61:2,6; 62:5,11;88:5;95:23  long-range (2) 13:17;16:4  Long's (5) 34:22;54:4;56:19; 64:6,13  long-term (8) 17:18;32:8,13,14; 33:6;35:13,19;36:7 look (30) 5:8;8:10;12:1;15:7, 18;16:21,22;18:14; 20:19,21;23:22; 24:17;33:18;35:2,8; 45:17;48:15;49:3,21; 50:23;51:9;54:23; 67:6;68:20;69:12; 71:16,20;85:23; 94:15,22	managing (2) 35:21;45:20 Manchester (1) 88:10 mandate (5) 37:12,16;44:18; 52:23;60:3 mankind (1) 33:6 manner (1) 93:11 many (2) 89:13;91:14 March (9) 22:1,14,23;42:23; 46:21;52:6,13;54:15; 72:1 mark (3) 20:22;71:2,9 marked (9) 20:7;21:7,13;26:4, 7;33:11,15;71:11; 89:18 market (11) 17:19;49:7,11,12, 15;20;50:13;51:11,
72:23;81:16;82:3; 83:8;85:4 investment (4) 39:23;80:13;81:8; 82:5 IRP (5) 11:17;19:11;23:6; 24:21;29:23 ISO-New (3) 49:6;50:11;51:11 issue (3) 86:5,6;94:6 item (1) 84:23 items (2) 47:7;86:14 IV (1) 75:16 Ivy (1) 44:8  J Jacobs (3)	58:11  Large (262)  4:17,21;5:3,17;6:6, 13,17,19;7:3,6;10:7, 9,16,22;11:5,10,13, 20,23;12:18,21;13:2, 8,22;14:3;15:1,9,14, 17;16:1,5,8;17:4,7, 10,13,22;18:23;19:3, 6;21:20;22:3,6,16,20; 23:5,8,11,15,19;24:8, 16,21;25:2,8,16,19; 26:8,11,15,19,23; 29:8;30:1,9,14,23; 31:8,12,20;32:11; 33:1;34:8,19,21,23; 35:6,23;36:5,8,18; 37:9,14;38:2,13,19, 23;39:9,18;40:4,11, 15,22;41:3,12;42:1,7; 43:3,12,14,16,18; 44:15,23;45:22;46:9, 22;47:4,15,23;48:19; 49:8,11,14,17;50:1,4, 16;51:13;52:1,8,15,	4:4;96:14 later (6) 15:5,12;20:1;43:6, 9;87:5 law (9) 35:22;40:20;41:9, 16;42:18;43:8;44:9; 46:11;47:20 LCIRP (7) 12:2;13:4;16:4,21; 24:12;27:2;29:9 learned (2) 32:20;91:6 led (3) 39:10;64:8;87:23 ledger (1) 42:12 left (4) 7:7;79:18,20;86:14 left-hand (1) 94:22 legal (2) 85:15;91:6 legislative (3) 44:18;45:8;62:1	14:8,10;88:8  Long (25) 5:5,12;29:22;32:6, 17,21;34:17;37:4; 51:18;53:19,20;55:3, 8,9,16;57:11,20; 58:21;60:12;61:2,6; 62:5,11;88:5;95:23  long-range (2) 13:17;16:4  Long's (5) 34:22;54:4;56:19; 64:6,13  long-term (8) 17:18;32:8,13,14; 33:6;35:13,19;36:7 look (30) 5:8;8:10;12:1;15:7, 18;16:21,22;18:14; 20:19,21;23:22; 24:17;33:18;35:2,8; 45:17;48:15;49:3,21; 50:23;51:9;54:23; 67:6;68:20;69:12; 71:16,20;85:23;	managing (2) 35:21;45:20 Manchester (1) 88:10 mandate (5) 37:12,16;44:18; 52:23;60:3 mankind (1) 33:6 manner (1) 93:11 many (2) 89:13;91:14 March (9) 22:1,14,23;42:23; 46:21;52:6,13;54:15; 72:1 mark (3) 20:22;71:2,9 marked (9) 20:7;21:7,13;26:4, 7;33:11,15;71:11; 89:18 market (11) 17:19;49:7,11,12,

	A	AND COST RECOVERY	Y	
13:6;14:20	middle (1)	67:18;79:3	26:13	obligations (1)
marketing (1)	67:17	mostly (1)	next (8)	45:5
7:13		18:6		
	midway (1)		13:10,16;15:18;	obtaining (1)
marketplace (1)	56:22	move (4)	57:17;58:10,19;	7:14
50:11	might (8)	29:19;32:4;42:11;	94:21;96:4	obviously (3)
marking (1)	26:21;46:1;58:2,2,	44:2	NHPUC (1)	5:12;18:8;37:22
21:5	4;86:23;88:2;90:5	moved (3)	33:23	OCA (3)
marks (1)	migration (1)	45:4,14;46:5	night (1)	90:17,21;91:8
28:9	52:5	much (5)	21:10	occur (1)
math (1)	million (27)	9:5,11;74:13;	nor (2)	82:6
70:23	5:19;9:21;10:5;	81:14;91:12	11:7;52:10	occurred (1)
may (10)	11:16;16:13;34:15;	multiple-unit (1)	normal (2)	78:3
13:18;33:21;34:3;	37:21;40:9;70:13,19;	69:23	57:21;58:7	occurring (1)
40:18;60:12;61:12;	72:19;74:9;80:1,14;	must (1)	Northeast (1)	70:1
73:10,10;76:6;86:11	81:7;82:5,19;83:14;	14:8	25:22	October (7)
Maybe (4)	84:13,16,18,20,21;		notations (1)	15:12,14;19:9;
22:10;38:10;48:2;	86:3,3,18;87:3	N	21:22	21:11;22:22;34:12,
	mind (1)	11		14
88:23		12.	notes (1)	
McDonald (1)	9:12	name (2)	22:2	off (6)
8:2	mine (1)	44:8;65:7	notice (3)	4:5,6;21:5;47:18;
mean (9)	60:8	Narrative (1)	30:20;31:3;32:4	79:18,20
7:19;10:14,15;	minimize (1)	24:5	notion (1)	offer (1)
	9:10	national (1)	94:8	9:22
25:17;27:6;28:3;				
64:4;77:17;78:6	minute (5)	34:4	November (3)	offered (1)
means (3)	4:4;30:23;31:8;	natural (11)	21:23;22:14,23	18:8
60:17,18;74:3	38:12;54:23	7:12;9:13,22;	NPDES (8)	official (2)
meant (1)	minutes (1)	10:19;16:17;34:15;	83:7,13,19;84:1,7;	30:19;32:4
				*
46:6	65:4	36:12;43:2;47:12;	85:1,10;86:6	old (1)
median (1)	mirrored (1)	48:21;51:2	NU (2)	83:7
68:10	48:7	necessarily (2)	26:17;37:23	once (2)
meet (1)	mistaken (1)	30:18;50:1	number (10)	36:9;45:14
39:7	29:15	necessary (4)	13:12;15:2;32:19;	one (32)
meeting (1)	mitigation (1)	41:19,23;51:20;	53:4;61:13;66:13;	6:15;8:22;18:5;
89:16	37:18	83:16	69:4;71:6;74:17;	20:1;21:9,22,23;
megawattage (4)	mix (1)	necessity (1)	80:16	22:1;26:3,20;27:6;
70:15;71:22;72:13;	88:15	51:13	numbers (10)	28:18;29:5;33:16;
73:3	MMBtu (5)	need (10)	6:22;8:1,10,19;	39:13;40:18;46:4;
megawatts (11)	5:6,15;6:14;10:18;	20:22;44:21;50:21;	9:16;13:20;16:11;	47:7;50:19;60:19;
70:16,20;72:8,9,9,	11:8	59:18;60:11;65:18;	56:6;69:1;92:13	67:20;68:23;76:9;
9;88:20;94:9,16,18;	mode (3)	71:13;73:9;86:23;	Numeral (2)	79:3,18;87:13;92:3,
95:13	45:5,15;46:6	87:11	74:4;75:16	13;94:1,2;95:7,12
member (2)	model (1)	needed (2)	numerical (1)	ones (2)
53:15,17	48:15	38:3;60:1	92:11	19:22;20:1
members (1)	moment (6)	NEEDLEMAN (28)	numerous (1)	One-sixty (1)
85:15	22:16;45:11;60:20;	12:3,11,15;18:12,	78:23	17:6
mentioned (2)	62:9;73:22;93:21	13;20:16;21:2;27:11;	NYMEX (7)	ongoing (1)
47:8;53:3	monitored (1)	28:16,17;29:14,18;	7:18,20;8:22;14:3;	82:23
merchant (2)	45:7	30:8;59:4;60:5,6;		only (10)
* *			15:4,21;16:12	
48:4,9	Monitoring (1)	63:6;64:17;66:10,11;	NYMEX-plus (3)	20:13;23:9,17;
mercury (1)	75:16	90:6,8,10;92:21,22;	7:9;8:16,21	26:20;37:10;51:16;
89:4	monthly (6)	93:2;96:1,5		62:23;64:15;75:20;
Merrimack (10)	75:21;76:1,16,18;	needs (4)	0	93:19
49:2,20,23;50:15;	77:11;79:1	82:14,18,23;83:19	- U	operate (1)
	*		0-1-(0)	
52:12;64:9,11;66:7;	months (1)	New (14)	Oak (9)	82:17
82:14;88:15	6:11	7:8,9,21;8:12;9:9;	70:5;71:19,20;	operated (1)
method (2)	more (11)	10:7;16:20;37:19;	73:4,11;74:2;93:21;	88:5
16:3,9	13:18;23:20;35:20;	47:21;48:17;49:22;	94:7;95:11	operating (2)
Methodology (2)	38:22;49:18;50:12;	50:14;51:14,19	Object (3)	49:19;73:23
12:19;14:17	51:8;73:16;88:18;	Newington (1)	59:4;63:6;64:18	operation (1)
methods (2)	92:11;95:7	6:3	objection (1)	88:17
13:18;14:2	morning (2)	news (1)	64:21	operator (1)
microphone (1)	47:9;51:21	39:2	obligation (1)	71:18
<u> </u>				
44:3	most (2)	newsletter (1)	37:10	opinion (4)
	1	1		<u> </u>

	F	AND COST RECOVER	Y	
58:2;60:16,17;77:6	34:21;55:21;92:1	8:23	4:2;30:21;96:10,	presented (1)
opportunity (1)	pair (1)	percent (3)	11,12	23:20
55:17	95:8	8:19;10:6;95:7	point (18)	presents (1)
opposed (3)	papers (3)	performed (1)	9:3;14:6,7,10;	58:1
62:4;77:4;85:4	12:22;24:23;26:9	27:4	16:17;18:8;32:13;	president (2)
opposition (2)	paragraph (8)	period (1)	42:19;50:17,20;	53:18,21
61:7;62:6	16:23;39:1;56:20;	9:4	61:11;62:3;66:21;	press (1)
option (1)	57:1;58:12;67:16;	permit (4)	80:8,23;83:17;84:8;	72:22
39:6	68:2;70:6	83:7;84:1,7;85:10	85:2	presuming (2)
orally (2)	paragraphs (1)	permittable (1)	pointed (1)	74:8;82:16
91:20;92:14	17:15	87:9	19:10	pretend (1)
order (1)	Pardon (1)	person (6)	Policies (2)	78:11
34:13	43:13	5:11,18;76:13;	75:8;93:17	pretty (2)
Original (1)	part (14)	77:6,8;81:12	portion (3)	29:10;81:14
72:6	11:21;38:17;45:23;	personally (1)	33:17;47:17;55:2	previously (2)
others (2)	47:15;55:1;56:17;	31:10	position (2)	7:23;67:14
9:5;89:13	76:20;77:3;82:8;	perspective (2)	63:14,23	price (19)
out (14)	84:2,10,12,13;85:1	45:4;51:2	possibilities (1)	5:6,15;6:3;7:20;
18:8;19:10;20:3,	particular (4)	pertains (1)	53:11	8:16,21,22;10:12,18;
13;27:15;44:23;	19:11;28:12;68:2;	52:8	possible (2)	11:9;34:15;36:12,13;
56:23;57:6;81:3,6;	94:3	peruse (1)	95:10,14	43:2;59:8;68:15,16;
85:18;86:2,10;88:15	particularly (2)	55:20	potential (1)	76:10;81:1
output (1)	35:14;37:6	picking (1)	82:2	priced (1)
48:22	parties (2)	8:22	power (14)	39:6
outside (1) 84:9	19:19;20:12	piece (1) 26:12	38:21;48:18,21;	prices (15)
over (10)	pass (3) 44:20;59:19;61:19		49:6,22;50:14,21;	7:12,18;8:12;9:14;
7:19;8:4;13:16;		<b>pile (1)</b> 26:9	51:10,15;57:4,9; 71:19,20;93:21	10:19;14:20;16:17; 17:19,20;43:10;
15:18;42:14;58:5,5,	<b>passed (5)</b> 42:16;45:13;64:1,	place (4)	PowerAdvocate (2)	77:10,14;78:3,6,15
9;68:7;94:21	8,11	8:8;33:21;57:15;	39:14;66:9	primary (1)
Oversight (1)	passing (1)	82:22	PowerAdvocate's (1)	13:6
32:17	53:7	places (3)	65:12	prior (4)
own (1)	past (5)	9:20;59:18;65:13	power-plant (1)	74:9;78:3;80:8;
93:11	44:13;49:16;51:5;	plan (1)	39:4	81:7
	68:7;73:17	13:17	practice (1)	probably (3)
P	Pat (1)	planning (7)	35:18	6:20;7:16;65:13
	55:8	30:4;31:11;33:22;	precise (1)	Procedures (5)
package (4)	Patch (39)	85:7;86:1,1,21	9:18	75:8,15;93:5,12,18
19:2;22:12;56:9,13	4:8,10,12;5:2;12:5,	plans (1)	predict (3)	proceeding (1)
packet (2)				
	8.9.17:17:4:18:4.21:	83:3	32:15.21:33:8	
	8,9,17;17:4;18:4,21; 19:17;20:5,10;21:6,	83:3 plant (20)	32:15,21;33:8 prefiled (1)	55:2
20:9;22:20	19:17;20:5,10;21:6,	plant (20)	32:15,21;33:8 <b>prefiled (1)</b> 41:2	55:2 process (7)
20:9;22:20 page (77)	19:17;20:5,10;21:6, 16;22:8,9;24:21;	<b>plant (20)</b> 39:6;48:4,21;	<b>prefiled (1)</b> 41:2	55:2
20:9;22:20 page (77) 5:1;7:2;11:14;12:1,	19:17;20:5,10;21:6, 16;22:8,9;24:21; 27:17;29:1,19,21;	plant (20) 39:6;48:4,21; 49:22;50:15,21;	prefiled (1) 41:2 premise (2)	55:2 process (7) 5:21;7:11;10:9; 33:22;45:8;62:1;85:1
20:9;22:20 page (77)	19:17;20:5,10;21:6, 16;22:8,9;24:21;	<b>plant (20)</b> 39:6;48:4,21;	<b>prefiled (1)</b> 41:2	55:2 <b>process (7)</b> 5:21;7:11;10:9;
20:9;22:20 page (77) 5:1;7:2;11:14;12:1, 8,9,18,20;13:10,10,	19:17;20:5,10;21:6, 16;22:8,9;24:21; 27:17;29:1,19,21; 30:10,15,22;31:6,7;	plant (20) 39:6;48:4,21; 49:22;50:15,21; 51:15;63:2,5,16;64:2,	prefiled (1) 41:2 premise (2) 45:22;46:1	55:2 process (7) 5:21;7:11;10:9; 33:22;45:8;62:1;85:1 procurement (2)
20:9;22:20 page (77) 5:1;7:2;11:14;12:1, 8,9,18,20;13:10,10, 16,17;15:8,15,18;	19:17;20:5,10;21:6, 16;22:8,9;24:21; 27:17;29:1,19,21; 30:10,15,22;31:6,7; 32:2,5;34:21;40:22;	plant (20) 39:6;48:4,21; 49:22;50:15,21; 51:15;63:2,5,16;64:2, 16;71:20;77:18;	prefiled (1) 41:2 premise (2) 45:22;46:1 preparation (3)	55:2 process (7) 5:21;7:11;10:9; 33:22;45:8;62:1;85:1 procurement (2) 7:16;13:18
20:9;22:20 page (77) 5:1;7:2;11:14;12:1, 8,9,18,20;13:10,10, 16,17;15:8,15,18; 16:21;17:4,13,14;	19:17;20:5,10;21:6, 16;22:8,9;24:21; 27:17;29:1,19,21; 30:10,15,22;31:6,7; 32:2,5;34:21;40:22; 45:11;54:13;65:20,	plant (20) 39:6;48:4,21; 49:22;50:15,21; 51:15;63:2,5,16;64:2, 16;71:20;77:18; 82:17;83:1;84:22; 85:22;86:2;93:21 plants (4)	prefiled (1) 41:2 premise (2) 45:22;46:1 preparation (3) 53:19;83:2;91:5 prepare (3) 53:13;56:14;69:6	55:2 process (7) 5:21;7:11;10:9; 33:22;45:8;62:1;85:1 procurement (2) 7:16;13:18 produce (2) 49:12;74:14 produced (2)
20:9;22:20 page (77) 5:1;7:2;11:14;12:1, 8,9,18,20;13:10,10, 16,17;15:8,15,18; 16:21;17:4,13,14; 30:5,21;32:7,8,18,19;	19:17;20:5,10;21:6, 16;22:8,9;24:21; 27:17;29:1,19,21; 30:10,15,22;31:6,7; 32:2,5;34:21;40:22; 45:11;54:13;65:20, 23;66:3,14;89:17	plant (20) 39:6;48:4,21; 49:22;50:15,21; 51:15;63:2,5,16;64:2, 16;71:20;77:18; 82:17;83:1;84:22; 85:22;86:2;93:21	prefiled (1) 41:2 premise (2) 45:22;46:1 preparation (3) 53:19;83:2;91:5 prepare (3) 53:13;56:14;69:6 prepared (9)	55:2 process (7) 5:21;7:11;10:9; 33:22;45:8;62:1;85:1 procurement (2) 7:16;13:18 produce (2) 49:12;74:14 produced (2) 11:15;47:1
20:9;22:20 page (77) 5:1;7:2;11:14;12:1, 8,9,18,20;13:10,10, 16,17;15:8,15,18; 16:21;17:4,13,14; 30:5,21;32:7,8,18,19; 34:10,22;35:11;37:5;	19:17;20:5,10;21:6, 16;22:8,9;24:21; 27:17;29:1,19,21; 30:10,15,22;31:6,7; 32:2,5;34:21;40:22; 45:11;54:13;65:20, 23;66:3,14;89:17 pause (1)	plant (20) 39:6;48:4,21; 49:22;50:15,21; 51:15;63:2,5,16;64:2, 16;71:20;77:18; 82:17;83:1;84:22; 85:22;86:2;93:21 plants (4)	prefiled (1) 41:2 premise (2) 45:22;46:1 preparation (3) 53:19;83:2;91:5 prepare (3) 53:13;56:14;69:6	55:2 process (7) 5:21;7:11;10:9; 33:22;45:8;62:1;85:1 procurement (2) 7:16;13:18 produce (2) 49:12;74:14 produced (2)
20:9;22:20 page (77) 5:1;7:2;11:14;12:1, 8,9,18,20;13:10,10, 16,17;15:8,15,18; 16:21;17:4,13,14; 30:5,21;32:7,8,18,19; 34:10,22;35:11;37:5; 38:11,13;40:6,12,13, 16;41:1,7;54:15; 55:12,16;56:6,8,20;	19:17;20:5,10;21:6, 16;22:8,9;24:21; 27:17;29:1,19,21; 30:10,15,22;31:6,7; 32:2,5;34:21;40:22; 45:11;54:13;65:20, 23;66:3,14;89:17 pause (1) 41:17	plant (20) 39:6;48:4,21; 49:22;50:15,21; 51:15;63:2,5,16;64:2, 16;71:20;77:18; 82:17;83:1;84:22; 85:22;86:2;93:21 plants (4) 38:21;51:3;71:19;	prefiled (1) 41:2 premise (2) 45:22;46:1 preparation (3) 53:19;83:2;91:5 prepare (3) 53:13;56:14;69:6 prepared (9)	55:2 process (7) 5:21;7:11;10:9; 33:22;45:8;62:1;85:1 procurement (2) 7:16;13:18 produce (2) 49:12;74:14 produced (2) 11:15;47:1 produces (1) 25:20
20:9;22:20 page (77) 5:1;7:2;11:14;12:1, 8,9,18,20;13:10,10, 16,17;15:8,15,18; 16:21;17:4,13,14; 30:5,21;32:7,8,18,19; 34:10,22;35:11;37:5; 38:11,13;40:6,12,13, 16;41:1,7;54:15; 55:12,16;56:6,8,20; 57:17,19;58:10;	19:17;20:5,10;21:6, 16;22:8,9;24:21; 27:17;29:1,19,21; 30:10,15,22;31:6,7; 32:2,5;34:21;40:22; 45:11;54:13;65:20, 23;66:3,14;89:17 pause (1) 41:17 pay (1)	plant (20) 39:6;48:4,21; 49:22;50:15,21; 51:15;63:2,5,16;64:2, 16;71:20;77:18; 82:17;83:1;84:22; 85:22;86:2;93:21 plants (4) 38:21;51:3;71:19; 87:20 plant's (1) 59:16	prefiled (1) 41:2 premise (2) 45:22;46:1 preparation (3) 53:19;83:2;91:5 prepare (3) 53:13;56:14;69:6 prepared (9) 5:5,10,11,16;6:8, 15;40:17,18;58:8 preparing (3)	55:2 process (7) 5:21;7:11;10:9; 33:22;45:8;62:1;85:1 procurement (2) 7:16;13:18 produce (2) 49:12;74:14 produced (2) 11:15;47:1 produces (1) 25:20 product (1)
20:9;22:20 page (77) 5:1;7:2;11:14;12:1, 8,9,18,20;13:10,10, 16,17;15:8,15,18; 16:21;17:4,13,14; 30:5,21;32:7,8,18,19; 34:10,22;35:11;37:5; 38:11,13;40:6,12,13, 16;41:1,7;54:15; 55:12,16;56:6,8,20; 57:17,19;58:10; 60:22,23;62:16,16,	19:17;20:5,10;21:6, 16;22:8,9;24:21; 27:17;29:1,19,21; 30:10,15,22;31:6,7; 32:2,5;34:21;40:22; 45:11;54:13;65:20, 23;66:3,14;89:17 pause (1) 41:17 pay (1) 33:3	plant (20)     39:6;48:4,21;     49:22;50:15,21;     51:15;63:2,5,16;64:2,     16;71:20;77:18;     82:17;83:1;84:22;     85:22;86:2;93:21 plants (4)     38:21;51:3;71:19;     87:20 plant's (1)     59:16 platform (8)	prefiled (1) 41:2 premise (2) 45:22;46:1 preparation (3) 53:19;83:2;91:5 prepare (3) 53:13;56:14;69:6 prepared (9) 5:5,10,11,16;6:8, 15;40:17,18;58:8	55:2 process (7) 5:21;7:11;10:9; 33:22;45:8;62:1;85:1 procurement (2) 7:16;13:18 produce (2) 49:12;74:14 produced (2) 11:15;47:1 produces (1) 25:20 product (1) 48:22
20:9;22:20 page (77) 5:1;7:2;11:14;12:1, 8,9,18,20;13:10,10, 16,17;15:8,15,18; 16:21;17:4,13,14; 30:5,21;32:7,8,18,19; 34:10,22;35:11;37:5; 38:11,13;40:6,12,13, 16;41:1,7;54:15; 55:12,16;56:6,8,20; 57:17,19;58:10; 60:22,23;62:16,16, 22;64:7;65:20,22;	19:17;20:5,10;21:6, 16;22:8,9;24:21; 27:17;29:1,19,21; 30:10,15,22;31:6,7; 32:2,5;34:21;40:22; 45:11;54:13;65:20, 23;66:3,14;89:17 pause (1) 41:17 pay (1) 33:3 people (4) 7:13;33:3;57:5; 76:14	plant (20)     39:6;48:4,21;     49:22;50:15,21;     51:15;63:2,5,16;64:2,     16;71:20;77:18;     82:17;83:1;84:22;     85:22;86:2;93:21 plants (4)     38:21;51:3;71:19;     87:20 plant's (1)     59:16 platform (8)     63:1,5,16;64:1,4,4,	prefiled (1) 41:2 premise (2) 45:22;46:1 preparation (3) 53:19;83:2;91:5 prepare (3) 53:13;56:14;69:6 prepared (9) 5:5,10,11,16;6:8, 15;40:17,18;58:8 preparing (3) 5:19;6:14;11:8 present (2)	55:2 process (7) 5:21;7:11;10:9; 33:22;45:8;62:1;85:1 procurement (2) 7:16;13:18 produce (2) 49:12;74:14 produced (2) 11:15;47:1 produces (1) 25:20 product (1) 48:22 production (1)
20:9;22:20  page (77) 5:1;7:2;11:14;12:1, 8,9,18,20;13:10,10, 16,17;15:8,15,18; 16:21;17:4,13,14; 30:5,21;32:7,8,18,19; 34:10,22;35:11;37:5; 38:11,13;40:6,12,13, 16;41:1,7;54:15; 55:12,16;56:6,8,20; 57:17,19;58:10; 60:22,23;62:16,16, 22;64:7;65:20,22; 66:13;67:1,6,7,17;	19:17;20:5,10;21:6, 16;22:8,9;24:21; 27:17;29:1,19,21; 30:10,15,22;31:6,7; 32:2,5;34:21;40:22; 45:11;54:13;65:20, 23;66:3,14;89:17 pause (1) 41:17 pay (1) 33:3 people (4) 7:13;33:3;57:5; 76:14 per (17)	plant (20) 39:6;48:4,21; 49:22;50:15,21; 51:15;63:2,5,16;64:2, 16;71:20;77:18; 82:17;83:1;84:22; 85:22;86:2;93:21 plants (4) 38:21;51:3;71:19; 87:20 plant's (1) 59:16 platform (8) 63:1,5,16;64:1,4,4, 7,15	prefiled (1) 41:2 premise (2) 45:22;46:1 preparation (3) 53:19;83:2;91:5 prepare (3) 53:13;56:14;69:6 prepared (9) 5:5,10,11,16;6:8, 15;40:17,18;58:8 preparing (3) 5:19;6:14;11:8 present (2) 40:7;54:1	55:2 process (7) 5:21;7:11;10:9; 33:22;45:8;62:1;85:1 procurement (2) 7:16;13:18 produce (2) 49:12;74:14 produced (2) 11:15;47:1 produces (1) 25:20 product (1) 48:22 production (1) 14:14
20:9;22:20 page (77) 5:1;7:2;11:14;12:1, 8,9,18,20;13:10,10, 16,17;15:8,15,18; 16:21;17:4,13,14; 30:5,21;32:7,8,18,19; 34:10,22;35:11;37:5; 38:11,13;40:6,12,13, 16;41:1,7;54:15; 55:12,16;56:6,8,20; 57:17,19;58:10; 60:22,23;62:16,16, 22;64:7;65:20,22; 66:13;67:1,6,7,17; 71:17,19,21;73:4;	19:17;20:5,10;21:6, 16;22:8,9;24:21; 27:17;29:1,19,21; 30:10,15,22;31:6,7; 32:2,5;34:21;40:22; 45:11;54:13;65:20, 23;66:3,14;89:17 pause (1) 41:17 pay (1) 33:3 people (4) 7:13;33:3;57:5; 76:14 per (17) 5:5,15,19;6:14;	plant (20)     39:6;48:4,21;     49:22;50:15,21;     51:15;63:2,5,16;64:2,     16;71:20;77:18;     82:17;83:1;84:22;     85:22;86:2;93:21 plants (4)     38:21;51:3;71:19;     87:20 plant's (1)     59:16 platform (8)     63:1,5,16;64:1,4,4,     7,15 play (1)	prefiled (1) 41:2 premise (2) 45:22;46:1 preparation (3) 53:19;83:2;91:5 prepare (3) 53:13;56:14;69:6 prepared (9) 5:5,10,11,16;6:8, 15;40:17,18;58:8 preparing (3) 5:19;6:14;11:8 present (2) 40:7;54:1 presentation (11)	55:2 process (7) 5:21;7:11;10:9; 33:22;45:8;62:1;85:1 procurement (2) 7:16;13:18 produce (2) 49:12;74:14 produced (2) 11:15;47:1 produces (1) 25:20 product (1) 48:22 production (1) 14:14 progress (1)
20:9;22:20 page (77) 5:1;7:2;11:14;12:1, 8,9,18,20;13:10,10, 16,17;15:8,15,18; 16:21;17:4,13,14; 30:5,21;32:7,8,18,19; 34:10,22;35:11;37:5; 38:11,13;40:6,12,13, 16;41:1,7;54:15; 55:12,16;56:6,8,20; 57:17,19;58:10; 60:22,23;62:16,16, 22;64:7;65:20,22; 66:13;67:1,6,7,17; 71:17,19,21;73:4; 74:4;75:15;79:14;	19:17;20:5,10;21:6, 16;22:8,9;24:21; 27:17;29:1,19,21; 30:10,15,22;31:6,7; 32:2,5;34:21;40:22; 45:11;54:13;65:20, 23;66:3,14;89:17 pause (1) 41:17 pay (1) 33:3 people (4) 7:13;33:3;57:5; 76:14 per (17) 5:5,15,19;6:14; 9:20;10:5;11:16;	plant (20) 39:6;48:4,21; 49:22;50:15,21; 51:15;63:2,5,16;64:2, 16;71:20;77:18; 82:17;83:1;84:22; 85:22;86:2;93:21 plants (4) 38:21;51:3;71:19; 87:20 plant's (1) 59:16 platform (8) 63:1,5,16;64:1,4,4, 7,15 play (1) 83:7	prefiled (1) 41:2 premise (2) 45:22;46:1 preparation (3) 53:19;83:2;91:5 prepare (3) 53:13;56:14;69:6 prepared (9) 5:5,10,11,16;6:8, 15;40:17,18;58:8 preparing (3) 5:19;6:14;11:8 present (2) 40:7;54:1 presentation (11) 36:9,16;55:3,23;	55:2 process (7) 5:21;7:11;10:9; 33:22;45:8;62:1;85:1 procurement (2) 7:16;13:18 produce (2) 49:12;74:14 produced (2) 11:15;47:1 produces (1) 25:20 product (1) 48:22 production (1) 14:14 progress (1) 37:18
20:9;22:20 page (77) 5:1;7:2;11:14;12:1, 8,9,18,20;13:10,10, 16,17;15:8,15,18; 16:21;17:4,13,14; 30:5,21;32:7,8,18,19; 34:10,22;35:11;37:5; 38:11,13;40:6,12,13, 16;41:1,7;54:15; 55:12,16;56:6,8,20; 57:17,19;58:10; 60:22,23;62:16,16, 22;64:7;65:20,22; 66:13;67:1,6,7,17; 71:17,19,21;73:4; 74:4;75:15;79:14; 80:2,3;90:5,6,14;	19:17;20:5,10;21:6, 16;22:8,9;24:21; 27:17;29:1,19,21; 30:10,15,22;31:6,7; 32:2,5;34:21;40:22; 45:11;54:13;65:20, 23;66:3,14;89:17 pause (1) 41:17 pay (1) 33:3 people (4) 7:13;33:3;57:5; 76:14 per (17) 5:5,15,19;6:14; 9:20;10:5;11:16; 16:12;34:15;68:9,9,	plant (20)     39:6;48:4,21;     49:22;50:15,21;     51:15;63:2,5,16;64:2,     16;71:20;77:18;     82:17;83:1;84:22;     85:22;86:2;93:21 plants (4)     38:21;51:3;71:19;     87:20 plant's (1)     59:16 platform (8)     63:1,5,16;64:1,4,4,     7,15 play (1)     83:7 please (6)	prefiled (1) 41:2 premise (2) 45:22;46:1 preparation (3) 53:19;83:2;91:5 prepare (3) 53:13;56:14;69:6 prepared (9) 5:5,10,11,16;6:8, 15;40:17,18;58:8 preparing (3) 5:19;6:14;11:8 present (2) 40:7;54:1 presentation (11) 36:9,16;55:3,23; 56:4;78:19;79:2,4;	55:2 process (7) 5:21;7:11;10:9; 33:22;45:8;62:1;85:1 procurement (2) 7:16;13:18 produce (2) 49:12;74:14 produced (2) 11:15;47:1 produces (1) 25:20 product (1) 48:22 production (1) 14:14 progress (1) 37:18 Project (25)
20:9;22:20  page (77) 5:1;7:2;11:14;12:1, 8,9,18,20;13:10,10, 16,17;15:8,15,18; 16:21;17:4,13,14; 30:5,21;32:7,8,18,19; 34:10,22;35:11;37:5; 38:11,13;40:6,12,13, 16;41:1,7;54:15; 55:12,16;56:6,8,20; 57:17,19;58:10; 60:22,23;62:16,16, 22;64:7;65:20,22; 66:13;67:1,6,7,17; 71:17,19,21;73:4; 74:4;75:15;79:14; 80:2,3;90:5,6,14; 92:4,5;94:3,12,15,21	19:17;20:5,10;21:6, 16;22:8,9;24:21; 27:17;29:1,19,21; 30:10,15,22;31:6,7; 32:2,5;34:21;40:22; 45:11;54:13;65:20, 23;66:3,14;89:17 pause (1) 41:17 pay (1) 33:3 people (4) 7:13;33:3;57:5; 76:14 per (17) 5:5,15,19;6:14; 9:20;10:5;11:16; 16:12;34:15;68:9,9, 15;70:21;72:20;	plant (20)     39:6;48:4,21;     49:22;50:15,21;     51:15;63:2,5,16;64:2,     16;71:20;77:18;     82:17;83:1;84:22;     85:22;86:2;93:21 plants (4)     38:21;51:3;71:19;     87:20 plant's (1)     59:16 platform (8)     63:1,5,16;64:1,4,4,     7,15 play (1)     83:7 please (6)     30:9;40:12;60:20;	prefiled (1) 41:2 premise (2) 45:22;46:1 preparation (3) 53:19;83:2;91:5 prepare (3) 53:13;56:14;69:6 prepared (9) 5:5,10,11,16;6:8, 15;40:17,18;58:8 preparing (3) 5:19;6:14;11:8 present (2) 40:7;54:1 presentation (11) 36:9,16;55:3,23; 56:4;78:19;79:2,4; 82:8;87:14;91:17	55:2 process (7) 5:21;7:11;10:9; 33:22;45:8;62:1;85:1 procurement (2) 7:16;13:18 produce (2) 49:12;74:14 produced (2) 11:15;47:1 produces (1) 25:20 product (1) 48:22 production (1) 14:14 progress (1) 37:18 Project (25) 36:19;37:11,17;
20:9;22:20  page (77) 5:1;7:2;11:14;12:1, 8,9,18,20;13:10,10, 16,17;15:8,15,18; 16:21;17:4,13,14; 30:5,21;32:7,8,18,19; 34:10,22;35:11;37:5; 38:11,13;40:6,12,13, 16;41:1,7;54:15; 55:12,16;56:6,8,20; 57:17,19;58:10; 60:22,23;62:16,16, 22;64:7;65:20,22; 66:13;67:1,6,7,17; 71:17,19,21;73:4; 74:4;75:15;79:14; 80:2,3;90:5,6,14; 92:4,5;94:3,12,15,21 page-referenced (1)	19:17;20:5,10;21:6, 16;22:8,9;24:21; 27:17;29:1,19,21; 30:10,15,22;31:6,7; 32:2,5;34:21;40:22; 45:11;54:13;65:20, 23;66:3,14;89:17 pause (1) 41:17 pay (1) 33:3 people (4) 7:13;33:3;57:5; 76:14 per (17) 5:5,15,19;6:14; 9:20;10:5;11:16; 16:12;34:15;68:9,9, 15;70:21;72:20; 74:16,19;82:19	plant (20)     39:6;48:4,21;     49:22;50:15,21;     51:15;63:2,5,16;64:2,     16;71:20;77:18;     82:17;83:1;84:22;     85:22;86:2;93:21 plants (4)     38:21;51:3;71:19;     87:20 plant's (1)     59:16 platform (8)     63:1,5,16;64:1,4,4,     7,15 play (1)     83:7 please (6)     30:9;40:12;60:20;     65:19;66:22;86:12	prefiled (1) 41:2 premise (2) 45:22;46:1 preparation (3) 53:19;83:2;91:5 prepare (3) 53:13;56:14;69:6 prepared (9) 5:5,10,11,16;6:8, 15;40:17,18;58:8 preparing (3) 5:19;6:14;11:8 present (2) 40:7;54:1 presentation (11) 36:9,16;55:3,23; 56:4;78:19;79:2,4; 82:8;87:14;91:17 presentations (8)	55:2 process (7) 5:21;7:11;10:9; 33:22;45:8;62:1;85:1 procurement (2) 7:16;13:18 produce (2) 49:12;74:14 produced (2) 11:15;47:1 produces (1) 25:20 product (1) 48:22 production (1) 14:14 progress (1) 37:18 Project (25) 36:19;37:11,17; 38:7;41:19,22,23;
20:9;22:20  page (77) 5:1;7:2;11:14;12:1, 8,9,18,20;13:10,10, 16,17;15:8,15,18; 16:21;17:4,13,14; 30:5,21;32:7,8,18,19; 34:10,22;35:11;37:5; 38:11,13;40:6,12,13, 16;41:1,7;54:15; 55:12,16;56:6,8,20; 57:17,19;58:10; 60:22,23;62:16,16, 22;64:7;65:20,22; 66:13;67:1,6,7,17; 71:17,19,21;73:4; 74:4;75:15;79:14; 80:2,3;90:5,6,14; 92:4,5;94:3,12,15,21 page-referenced (1) 66:17	19:17;20:5,10;21:6, 16;22:8,9;24:21; 27:17;29:1,19,21; 30:10,15,22;31:6,7; 32:2,5;34:21;40:22; 45:11;54:13;65:20, 23;66:3,14;89:17 pause (1) 41:17 pay (1) 33:3 people (4) 7:13;33:3;57:5; 76:14 per (17) 5:5,15,19;6:14; 9:20;10:5;11:16; 16:12;34:15;68:9,9, 15;70:21;72:20; 74:16,19;82:19 perceive (1)	plant (20)     39:6;48:4,21;     49:22;50:15,21;     51:15;63:2,5,16;64:2,     16;71:20;77:18;     82:17;83:1;84:22;     85:22;86:2;93:21 plants (4)     38:21;51:3;71:19;     87:20 plant's (1)     59:16 platform (8)     63:1,5,16;64:1,4,4,     7,15 play (1)     83:7 please (6)     30:9;40:12;60:20;     65:19;66:22;86:12 plus (1)	prefiled (1) 41:2 premise (2) 45:22;46:1 preparation (3) 53:19;83:2;91:5 prepare (3) 53:13;56:14;69:6 prepared (9) 5:5,10,11,16;6:8, 15;40:17,18;58:8 preparing (3) 5:19;6:14;11:8 present (2) 40:7;54:1 presentation (11) 36:9,16;55:3,23; 56:4;78:19;79:2,4; 82:8;87:14;91:17 presentations (8) 53:13;75:12;78:23;	55:2 process (7) 5:21;7:11;10:9; 33:22;45:8;62:1;85:1 procurement (2) 7:16;13:18 produce (2) 49:12;74:14 produced (2) 11:15;47:1 produces (1) 25:20 product (1) 48:22 production (1) 14:14 progress (1) 37:18 Project (25) 36:19;37:11,17; 38:7;41:19,22,23; 42:6,11;52:9;66:7;
20:9;22:20  page (77) 5:1;7:2;11:14;12:1, 8,9,18,20;13:10,10, 16,17;15:8,15,18; 16:21;17:4,13,14; 30:5,21;32:7,8,18,19; 34:10,22;35:11;37:5; 38:11,13;40:6,12,13, 16;41:1,7;54:15; 55:12,16;56:6,8,20; 57:17,19;58:10; 60:22,23;62:16,16, 22;64:7;65:20,22; 66:13;67:1,6,7,17; 71:17,19,21;73:4; 74:4;75:15;79:14; 80:2,3;90:5,6,14; 92:4,5;94:3,12,15,21 page-referenced (1) 66:17 pages (6)	19:17;20:5,10;21:6, 16;22:8,9;24:21; 27:17;29:1,19,21; 30:10,15,22;31:6,7; 32:2,5;34:21;40:22; 45:11;54:13;65:20, 23;66:3,14;89:17 pause (1) 41:17 pay (1) 33:3 people (4) 7:13;33:3;57:5; 76:14 per (17) 5:5,15,19;6:14; 9:20;10:5;11:16; 16:12;34:15;68:9,9, 15;70:21;72:20; 74:16,19;82:19 perceive (1) 26:11	plant (20)     39:6;48:4,21;     49:22;50:15,21;     51:15;63:2,5,16;64:2,     16;71:20;77:18;     82:17;83:1;84:22;     85:22;86:2;93:21 plants (4)     38:21;51:3;71:19;     87:20 plant's (1)     59:16 platform (8)     63:1,5,16;64:1,4,4,     7,15 play (1)     83:7 please (6)     30:9;40:12;60:20;     65:19;66:22;86:12 plus (1)     82:4	prefiled (1) 41:2 premise (2) 45:22;46:1 preparation (3) 53:19;83:2;91:5 prepare (3) 53:13;56:14;69:6 prepared (9) 5:5,10,11,16;6:8, 15;40:17,18;58:8 preparing (3) 5:19;6:14;11:8 present (2) 40:7;54:1 presentation (11) 36:9,16;55:3,23; 56:4;78:19;79:2,4; 82:8;87:14;91:17 presentations (8) 53:13;75:12;78:23; 81:13;82:11;89:14,	55:2 process (7) 5:21;7:11;10:9; 33:22;45:8;62:1;85:1 procurement (2) 7:16;13:18 produce (2) 49:12;74:14 produced (2) 11:15;47:1 produces (1) 25:20 product (1) 48:22 production (1) 14:14 progress (1) 37:18 Project (25) 36:19;37:11,17; 38:7;41:19,22,23; 42:6,11;52:9;66:7; 68:16;69:16,21;70:9;
20:9;22:20 page (77) 5:1;7:2;11:14;12:1, 8,9,18,20;13:10,10, 16,17;15:8,15,18; 16:21;17:4,13,14; 30:5,21;32:7,8,18,19; 34:10,22;35:11;37:5; 38:11,13;40:6,12,13, 16;41:1,7;54:15; 55:12,16;56:6,8,20; 57:17,19;58:10; 60:22,23;62:16,16, 22;64:7;65:20,22; 66:13;67:1,6,7,17; 71:17,19,21;73:4; 74:4;75:15;79:14; 80:2,3;90:5,6,14; 92:4,5;94:3,12,15,21 page-referenced (1) 66:17	19:17;20:5,10;21:6, 16;22:8,9;24:21; 27:17;29:1,19,21; 30:10,15,22;31:6,7; 32:2,5;34:21;40:22; 45:11;54:13;65:20, 23;66:3,14;89:17 pause (1) 41:17 pay (1) 33:3 people (4) 7:13;33:3;57:5; 76:14 per (17) 5:5,15,19;6:14; 9:20;10:5;11:16; 16:12;34:15;68:9,9, 15;70:21;72:20; 74:16,19;82:19 perceive (1)	plant (20)     39:6;48:4,21;     49:22;50:15,21;     51:15;63:2,5,16;64:2,     16;71:20;77:18;     82:17;83:1;84:22;     85:22;86:2;93:21 plants (4)     38:21;51:3;71:19;     87:20 plant's (1)     59:16 platform (8)     63:1,5,16;64:1,4,4,     7,15 play (1)     83:7 please (6)     30:9;40:12;60:20;     65:19;66:22;86:12 plus (1)	prefiled (1) 41:2 premise (2) 45:22;46:1 preparation (3) 53:19;83:2;91:5 prepare (3) 53:13;56:14;69:6 prepared (9) 5:5,10,11,16;6:8, 15;40:17,18;58:8 preparing (3) 5:19;6:14;11:8 present (2) 40:7;54:1 presentation (11) 36:9,16;55:3,23; 56:4;78:19;79:2,4; 82:8;87:14;91:17 presentations (8) 53:13;75:12;78:23;	55:2 process (7) 5:21;7:11;10:9; 33:22;45:8;62:1;85:1 procurement (2) 7:16;13:18 produce (2) 49:12;74:14 produced (2) 11:15;47:1 produces (1) 25:20 product (1) 48:22 production (1) 14:14 progress (1) 37:18 Project (25) 36:19;37:11,17; 38:7;41:19,22,23; 42:6,11;52:9;66:7;

	I A	IND COST RECOVER	Y	
80:6;81:14;83:22;	6:8;8:3	readily (1)	references (1)	67:23;74:18;82:9
85:19;87:19;93:13	purport (1)	54:7	15:3	reports (10)
Project' (1)	25:14	reads (2)	referred (3)	23:3,9,12;27:21,22,
41:18	purpose (2)	17:15;69:20	14:12;27:2;54:20	23;28:6;76:16,18;
projections (1)	8:6;20:23	ready (1)	referring (9)	77:11
82:14	purposes (1)	36:3	25:22;29:9,12;	represent (1)
projects (2)	83:16	realities (1) 32:15	34:9;40:23;55:9;	19:20  Representative (1)
68:4;93:6 <b>provide</b> ( <b>12</b> )	put (1) 28:8	reality (3)	62:22;94:1;95:12	Representative (1) 55:8
4:20;17:18;24:13;	26.6	8:5;16:10;23:21	refers (1) 56:5	represented (1)
28:21;29:3,15;30:16;	Q	really (2)	reflects (1)	24:12
36:20;37:17;50:22;	Q	67:5;85:3	57:11	Reps (1)
61:4;76:18	quagmire (2)	reason (4)	refresh (1)	54:16
provided (25)	39:5,10	5:13;16:15;41:3;	95:15	Request (17)
10:10;11:11;14:6;	quarter (1)	52:22	regard (3)	4:15;8:11;10:11,
18:1,9;19:8;21:10;	52:1	reasonable (7)	15:3;50:17;73:11	14;14:22;18:2;25:10,
23:7,12;25:9,18;	quarterly (10)	8:7,8,9;33:3;34:2;	regarding (6)	13;27:9;28:13;31:3;
26:12,20;27:9,19,20;	17:18;23:7,19;	42:19;73:15	52:5,10;79:17;	32:3;34:9;43:4;45:2,
28:1,20;29:2,5;	24:13,14;25:14;	reasonably (3)	83:23;84:7;93:12	9;89:20
31:21;47:2;55:17;	27:21,22;28:8,10	39:6;44:3;45:20	region (2)	requested (1)
90:16;91:11	quickly (3)	reasons (1)	50:6,22	46:23
provides (4)	40:12;67:5;92:22	42:8	regional (1)	require (2)
6:23;55:3;88:8,11	quite (1)	rebuttal (2)	34:3	61:20;75:21
providing (2)	25:17	10:8;41:2	regulated (1)	required (1)
61:2;76:15	quotation (1)	recall (9)	48:7	46:11
proxy (2)	28:8	30:2,7,14;32:18;	regulations (1)	requirements (3)
49:8;82:22	quote (1)	87:20,21;93:7,15;	81:18	36:20;38:5;89:5
prudency (5)	32:20	94:10	relates (1)	respect (2)
57:7,14;58:23;	quoting (3)	recalls (1)	93:20	52:18;93:6
59:20;60:2	30:4;32:7;64:6	30:11	relationship (1)	responded (1)
prudent (2)	D	received (3)	48:20	91:7
33:21;34:3	R	19:14;25:11;80:19 recent (2)	reliable (3) 32:9;35:14;39:23	responding (1) 45:6
prudently (1)				
	DoCC (22)			
45:17	RaCC (23)	50:23;67:19	relied (1)	response (22)
45:17 <b>PSNH (31)</b>	36:19;37:11,17;	50:23;67:19 recently (1)	relied (1) 11:8	response (22) 4:14,18;5:8,9,11,
45:17 <b>PSNH (31)</b> 4:14;8:18;15:19;	36:19;37:11,17; 46:15;75:12,23;	50:23;67:19 recently (1) 69:22	relied (1) 11:8 rely (1)	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22;
45:17 <b>PSNH (31)</b> 4:14;8:18;15:19; 17:16,19;18:1,9;	36:19;37:11,17; 46:15;75:12,23; 76:18;77:11,15;78:4,	50:23;67:19 recently (1) 69:22 Recess (2)	relied (1) 11:8 rely (1) 33:19	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22; 18:1,22;20:6;21:7,18,
45:17 <b>PSNH (31)</b> 4:14;8:18;15:19; 17:16,19;18:1,9; 19:8;22:12;25:9;	36:19;37:11,17; 46:15;75:12,23; 76:18;77:11,15;78:4, 19;79:1,2;81:15;	50:23;67:19 recently (1) 69:22 Recess (2) 96:10,11	relied (1) 11:8 rely (1) 33:19 remaining (1)	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22; 18:1,22;20:6;21:7,18, 21;25:10;33:9,20;
45:17 <b>PSNH (31)</b> 4:14;8:18;15:19; 17:16,19;18:1,9; 19:8;22:12;25:9; 26:17;34:3;37:22;	36:19;37:11,17; 46:15;75:12,23; 76:18;77:11,15;78:4, 19;79:1,2;81:15; 82:8,10;89:14;90:17,	50:23;67:19 recently (1) 69:22 Recess (2) 96:10,11 reckless (1)	relied (1) 11:8 rely (1) 33:19 remaining (1) 83:1	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22; 18:1,22;20:6;21:7,18, 21;25:10;33:9,20; 34:8;42:22;89:19;
45:17 <b>PSNH (31)</b> 4:14;8:18;15:19; 17:16,19;18:1,9; 19:8;22:12;25:9; 26:17;34:3;37:22; 40:8,17;47:20;48:2,5,	36:19;37:11,17; 46:15;75:12,23; 76:18;77:11,15;78:4, 19;79:1,2;81:15; 82:8,10;89:14;90:17, 22;91:11,18;92:3;	50:23;67:19 recently (1) 69:22 Recess (2) 96:10,11 reckless (1) 58:15	relied (1) 11:8 rely (1) 33:19 remaining (1) 83:1 remains (1)	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22; 18:1,22;20:6;21:7,18, 21;25:10;33:9,20; 34:8;42:22;89:19; 90:12
45:17 <b>PSNH (31)</b> 4:14;8:18;15:19; 17:16,19;18:1,9; 19:8;22:12;25:9; 26:17;34:3;37:22;	36:19;37:11,17; 46:15;75:12,23; 76:18;77:11,15;78:4, 19;79:1,2;81:15; 82:8,10;89:14;90:17, 22;91:11,18;92:3; 93:7	50:23;67:19 recently (1) 69:22 Recess (2) 96:10,11 reckless (1)	relied (1) 11:8 rely (1) 33:19 remaining (1) 83:1	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22; 18:1,22;20:6;21:7,18, 21;25:10;33:9,20; 34:8;42:22;89:19; 90:12 responses (2)
45:17 <b>PSNH (31)</b> 4:14;8:18;15:19; 17:16,19;18:1,9; 19:8;22:12;25:9; 26:17;34:3;37:22; 40:8,17;47:20;48:2,5, 17,23;49:19;51:9;	36:19;37:11,17; 46:15;75:12,23; 76:18;77:11,15;78:4, 19;79:1,2;81:15; 82:8,10;89:14;90:17, 22;91:11,18;92:3;	50:23;67:19 recently (1) 69:22 Recess (2) 96:10,11 reckless (1) 58:15 recollection (2)	relied (1) 11:8 rely (1) 33:19 remaining (1) 83:1 remains (1) 74:10	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22; 18:1,22;20:6;21:7,18, 21;25:10;33:9,20; 34:8;42:22;89:19; 90:12
45:17  PSNH (31)  4:14;8:18;15:19; 17:16,19;18:1,9; 19:8;22:12;25:9; 26:17;34:3;37:22; 40:8,17;47:20;48:2,5, 17,23;49:19;51:9; 52:3,10;53:13,16;	36:19;37:11,17; 46:15;75:12,23; 76:18;77:11,15;78:4, 19;79:1,2;81:15; 82:8,10;89:14;90:17, 22;91:11,18;92:3; 93:7 race (1)	50:23;67:19 recently (1) 69:22 Recess (2) 96:10,11 reckless (1) 58:15 recollection (2) 42:13;95:16	relied (1) 11:8 rely (1) 33:19 remaining (1) 83:1 remains (1) 74:10 remember (1)	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22; 18:1,22;20:6;21:7,18, 21;25:10;33:9,20; 34:8;42:22;89:19; 90:12 responses (2) 19:21;20:2
45:17  PSNH (31)  4:14;8:18;15:19; 17:16,19;18:1,9; 19:8;22:12;25:9; 26:17;34:3;37:22; 40:8,17;47:20;48:2,5, 17,23;49:19;51:9; 52:3,10;53:13,16; 61:14;62:4;80:5;	36:19;37:11,17; 46:15;75:12,23; 76:18;77:11,15;78:4, 19;79:1,2;81:15; 82:8,10;89:14;90:17, 22;91:11,18;92:3; 93:7 race (1) 90:7	50:23;67:19 recently (1) 69:22 Recess (2) 96:10,11 reckless (1) 58:15 recollection (2) 42:13;95:16 record (12)	relied (1) 11:8 rely (1) 33:19 remaining (1) 83:1 remains (1) 74:10 remember (1) 96:3	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22; 18:1,22;20:6;21:7,18, 21;25:10;33:9,20; 34:8;42:22;89:19; 90:12 responses (2) 19:21;20:2 responsibilities (1)
45:17  PSNH (31)  4:14;8:18;15:19; 17:16,19;18:1,9; 19:8;22:12;25:9; 26:17;34:3;37:22; 40:8,17;47:20;48:2,5, 17,23;49:19;51:9; 52:3,10;53:13,16; 61:14;62:4;80:5; 88:17;93:11  PSNH's (3) 48:8;63:3,23	36:19;37:11,17; 46:15;75:12,23; 76:18;77:11,15;78:4, 19;79:1,2;81:15; 82:8,10;89:14;90:17, 22;91:11,18;92:3; 93:7 race (1) 90:7 ran (1) 82:2 range (3)	50:23;67:19 recently (1) 69:22 Recess (2) 96:10,11 reckless (1) 58:15 recollection (2) 42:13;95:16 record (12) 4:5,6,8;8:11;10:11, 13;17:1;30:16;31:5; 43:3;54:5;76:21	relied (1) 11:8 rely (1) 33:19 remaining (1) 83:1 remains (1) 74:10 remember (1) 96:3 repeatedly (1) 35:12 rephrase (1)	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22; 18:1,22;20:6;21:7,18, 21;25:10;33:9,20; 34:8;42:22;89:19; 90:12 responses (2) 19:21;20:2 responsibilities (1) 11:21 responsibility (4) 36:13;37:7,8,16
45:17  PSNH (31)  4:14;8:18;15:19; 17:16,19;18:1,9; 19:8;22:12;25:9; 26:17;34:3;37:22; 40:8,17;47:20;48:2,5, 17,23;49:19;51:9; 52:3,10;53:13,16; 61:14;62:4;80:5; 88:17;93:11  PSNH's (3) 48:8;63:3,23  Public (1)	36:19;37:11,17; 46:15;75:12,23; 76:18;77:11,15;78:4, 19;79:1,2;81:15; 82:8,10;89:14;90:17, 22;91:11,18;92:3; 93:7 race (1) 90:7 ran (1) 82:2 range (3) 8:18;68:3,8	50:23;67:19 recently (1) 69:22 Recess (2) 96:10,11 reckless (1) 58:15 recollection (2) 42:13;95:16 record (12) 4:5,6,8;8:11;10:11, 13;17:1;30:16;31:5; 43:3;54:5;76:21 recourse (4)	relied (1) 11:8 rely (1) 33:19 remaining (1) 83:1 remains (1) 74:10 remember (1) 96:3 repeatedly (1) 35:12 rephrase (1) 50:7	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22; 18:1,22;20:6;21:7,18, 21;25:10;33:9,20; 34:8;42:22;89:19; 90:12 responses (2) 19:21;20:2 responsibilities (1) 11:21 responsibility (4) 36:13;37:7,8,16 responsible (3)
45:17  PSNH (31)  4:14;8:18;15:19; 17:16,19;18:1,9; 19:8;22:12;25:9; 26:17;34:3;37:22; 40:8,17;47:20;48:2,5, 17,23;49:19;51:9; 52:3,10;53:13,16; 61:14;62:4;80:5; 88:17;93:11  PSNH's (3) 48:8;63:3,23  Public (1) 57:21	36:19;37:11,17; 46:15;75:12,23; 76:18;77:11,15;78:4, 19;79:1,2;81:15; 82:8,10;89:14;90:17, 22;91:11,18;92:3; 93:7 race (1) 90:7 ran (1) 82:2 range (3) 8:18;68:3,8 Rate (3)	50:23;67:19 recently (1) 69:22 Recess (2) 96:10,11 reckless (1) 58:15 recollection (2) 42:13;95:16 record (12) 4:5,6,8;8:11;10:11, 13;17:1;30:16;31:5; 43:3;54:5;76:21 recourse (4) 57:6,7,8,14	relied (1) 11:8 rely (1) 33:19 remaining (1) 83:1 remains (1) 74:10 remember (1) 96:3 repeatedly (1) 35:12 rephrase (1) 50:7 replace (3)	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22; 18:1,22;20:6;21:7,18, 21;25:10;33:9,20; 34:8;42:22;89:19; 90:12 responses (2) 19:21;20:2 responsibilities (1) 11:21 responsibility (4) 36:13;37:7,8,16 responsible (3) 5:19;7:14;76:15
45:17  PSNH (31)  4:14;8:18;15:19; 17:16,19;18:1,9; 19:8;22:12;25:9; 26:17;34:3;37:22; 40:8,17;47:20;48:2,5, 17,23;49:19;51:9; 52:3,10;53:13,16; 61:14;62:4;80:5; 88:17;93:11  PSNH's (3) 48:8;63:3,23  Public (1) 57:21 published (1)	36:19;37:11,17; 46:15;75:12,23; 76:18;77:11,15;78:4, 19;79:1,2;81:15; 82:8,10;89:14;90:17, 22;91:11,18;92:3; 93:7 race (1) 90:7 ran (1) 82:2 range (3) 8:18;68:3,8 Rate (3) 15:16;32:16;46:17	50:23;67:19 recently (1) 69:22 Recess (2) 96:10,11 reckless (1) 58:15 recollection (2) 42:13;95:16 record (12) 4:5,6,8;8:11;10:11, 13;17:1;30:16;31:5; 43:3;54:5;76:21 recourse (4) 57:6,7,8,14 redirect (2)	relied (1) 11:8 rely (1) 33:19 remaining (1) 83:1 remains (1) 74:10 remember (1) 96:3 repeatedly (1) 35:12 rephrase (1) 50:7 replace (3) 49:22;50:15;51:10	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22; 18:1,22;20:6;21:7,18, 21;25:10;33:9,20; 34:8;42:22;89:19; 90:12 responses (2) 19:21;20:2 responsibilities (1) 11:21 responsibility (4) 36:13;37:7,8,16 responsible (3) 5:19;7:14;76:15 responsive (3)
45:17  PSNH (31)  4:14;8:18;15:19; 17:16,19;18:1,9; 19:8;22:12;25:9; 26:17;34:3;37:22; 40:8,17;47:20;48:2,5, 17,23;49:19;51:9; 52:3,10;53:13,16; 61:14;62:4;80:5; 88:17;93:11  PSNH's (3) 48:8;63:3,23  Public (1) 57:21  published (1) 69:22	36:19;37:11,17; 46:15;75:12,23; 76:18;77:11,15;78:4, 19;79:1,2;81:15; 82:8,10;89:14;90:17, 22;91:11,18;92:3; 93:7 race (1) 90:7 ran (1) 82:2 range (3) 8:18;68:3,8 Rate (3) 15:16;32:16;46:17 ratepayers (1)	50:23;67:19 recently (1) 69:22 Recess (2) 96:10,11 reckless (1) 58:15 recollection (2) 42:13;95:16 record (12) 4:5,6,8;8:11;10:11, 13;17:1;30:16;31:5; 43:3;54:5;76:21 recourse (4) 57:6,7,8,14 redirect (2) 92:21;93:1	relied (1) 11:8 rely (1) 33:19 remaining (1) 83:1 remains (1) 74:10 remember (1) 96:3 repeatedly (1) 35:12 rephrase (1) 50:7 replace (3) 49:22;50:15;51:10 replacement (1)	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22; 18:1,22;20:6;21:7,18, 21;25:10;33:9,20; 34:8;42:22;89:19; 90:12 responses (2) 19:21;20:2 responsibilities (1) 11:21 responsibility (4) 36:13;37:7,8,16 responsible (3) 5:19;7:14;76:15 responsive (3) 25:13;27:8;28:13
45:17  PSNH (31)  4:14;8:18;15:19; 17:16,19;18:1,9; 19:8;22:12;25:9; 26:17;34:3;37:22; 40:8,17;47:20;48:2,5, 17,23;49:19;51:9; 52:3,10;53:13,16; 61:14;62:4;80:5; 88:17;93:11  PSNH's (3) 48:8;63:3,23  Public (1) 57:21  published (1) 69:22  PUC (9)	36:19;37:11,17; 46:15;75:12,23; 76:18;77:11,15;78:4, 19;79:1,2;81:15; 82:8,10;89:14;90:17, 22;91:11,18;92:3; 93:7 race (1) 90:7 ran (1) 82:2 range (3) 8:18;68:3,8 Rate (3) 15:16;32:16;46:17 ratepayers (1) 57:13	50:23;67:19 recently (1) 69:22 Recess (2) 96:10,11 reckless (1) 58:15 recollection (2) 42:13;95:16 record (12) 4:5,6,8;8:11;10:11, 13;17:1;30:16;31:5; 43:3;54:5;76:21 recourse (4) 57:6,7,8,14 redirect (2) 92:21;93:1 reducing (1)	relied (1) 11:8 rely (1) 33:19 remaining (1) 83:1 remains (1) 74:10 remember (1) 96:3 repeatedly (1) 35:12 rephrase (1) 50:7 replace (3) 49:22;50:15;51:10 replacement (1) 49:1	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22; 18:1,22;20:6;21:7,18, 21;25:10;33:9,20; 34:8;42:22;89:19; 90:12 responses (2) 19:21;20:2 responsibilities (1) 11:21 responsibility (4) 36:13;37:7,8,16 responsible (3) 5:19;7:14;76:15 responsive (3) 25:13;27:8;28:13 result (5)
45:17  PSNH (31)  4:14;8:18;15:19; 17:16,19;18:1,9; 19:8;22:12;25:9; 26:17;34:3;37:22; 40:8,17;47:20;48:2,5, 17,23;49:19;51:9; 52:3,10;53:13,16; 61:14;62:4;80:5; 88:17;93:11  PSNH's (3) 48:8;63:3,23  Public (1) 57:21 published (1) 69:22  PUC (9) 89:16;90:16,21;	36:19;37:11,17; 46:15;75:12,23; 76:18;77:11,15;78:4, 19;79:1,2;81:15; 82:8,10;89:14;90:17, 22;91:11,18;92:3; 93:7 race (1) 90:7 ran (1) 82:2 range (3) 8:18;68:3,8 Rate (3) 15:16;32:16;46:17 ratepayers (1) 57:13 rates (1)	50:23;67:19 recently (1) 69:22 Recess (2) 96:10,11 reckless (1) 58:15 recollection (2) 42:13;95:16 record (12) 4:5,6,8;8:11;10:11, 13;17:1;30:16;31:5; 43:3;54:5;76:21 recourse (4) 57:6,7,8,14 redirect (2) 92:21;93:1 reducing (1) 95:6	relied (1) 11:8 rely (1) 33:19 remaining (1) 83:1 remains (1) 74:10 remember (1) 96:3 repeatedly (1) 35:12 rephrase (1) 50:7 replace (3) 49:22;50:15;51:10 replacement (1) 49:1 replicated (1)	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22; 18:1,22;20:6;21:7,18, 21;25:10;33:9,20; 34:8;42:22;89:19; 90:12 responses (2) 19:21;20:2 responsibilities (1) 11:21 responsibility (4) 36:13;37:7,8,16 responsible (3) 5:19;7:14;76:15 responsive (3) 25:13;27:8;28:13 result (5) 16:8;27:19;42:15;
45:17  PSNH (31)  4:14;8:18;15:19; 17:16,19;18:1,9; 19:8;22:12;25:9; 26:17;34:3;37:22; 40:8,17;47:20;48:2,5, 17,23;49:19;51:9; 52:3,10;53:13,16; 61:14;62:4;80:5; 88:17;93:11  PSNH's (3) 48:8;63:3,23  Public (1) 57:21 published (1) 69:22  PUC (9) 89:16;90:16,21; 91:8,20,21;94:2,7;	36:19;37:11,17; 46:15;75:12,23; 76:18;77:11,15;78:4, 19;79:1,2;81:15; 82:8,10;89:14;90:17, 22;91:11,18;92:3; 93:7 race (1) 90:7 ran (1) 82:2 range (3) 8:18;68:3,8 Rate (3) 15:16;32:16;46:17 ratepayers (1) 57:13 rates (1) 15:23	50:23;67:19 recently (1) 69:22 Recess (2) 96:10,11 reckless (1) 58:15 recollection (2) 42:13;95:16 record (12) 4:5,6,8;8:11;10:11, 13;17:1;30:16;31:5; 43:3;54:5;76:21 recourse (4) 57:6,7,8,14 redirect (2) 92:21;93:1 reducing (1) 95:6 Reduction (1)	relied (1) 11:8 rely (1) 33:19 remaining (1) 83:1 remains (1) 74:10 remember (1) 96:3 repeatedly (1) 35:12 rephrase (1) 50:7 replace (3) 49:22;50:15;51:10 replacement (1) 49:1 replicated (1) 24:10	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22; 18:1,22;20:6;21:7,18, 21;25:10;33:9,20; 34:8;42:22;89:19; 90:12 responses (2) 19:21;20:2 responsibilities (1) 11:21 responsibility (4) 36:13;37:7,8,16 responsible (3) 5:19;7:14;76:15 responsive (3) 25:13;27:8;28:13 result (5) 16:8;27:19;42:15; 74:14,15
45:17  PSNH (31)  4:14;8:18;15:19; 17:16,19;18:1,9; 19:8;22:12;25:9; 26:17;34:3;37:22; 40:8,17;47:20;48:2,5, 17,23;49:19;51:9; 52:3,10;53:13,16; 61:14;62:4;80:5; 88:17;93:11  PSNH's (3) 48:8;63:3,23  Public (1) 57:21 published (1) 69:22  PUC (9) 89:16;90:16,21; 91:8,20,21;94:2,7; 95:11	36:19;37:11,17; 46:15;75:12,23; 76:18;77:11,15;78:4, 19;79:1,2;81:15; 82:8,10;89:14;90:17, 22;91:11,18;92:3; 93:7 race (1) 90:7 ran (1) 82:2 range (3) 8:18;68:3,8 Rate (3) 15:16;32:16;46:17 ratepayers (1) 57:13 rates (1) 15:23 rather (3)	50:23;67:19 recently (1) 69:22 Recess (2) 96:10,11 reckless (1) 58:15 recollection (2) 42:13;95:16 record (12) 4:5,6,8;8:11;10:11, 13;17:1;30:16;31:5; 43:3;54:5;76:21 recourse (4) 57:6,7,8,14 redirect (2) 92:21;93:1 reducing (1) 95:6 Reduction (1) 70:10	relied (1) 11:8 rely (1) 33:19 remaining (1) 83:1 remains (1) 74:10 remember (1) 96:3 repeatedly (1) 35:12 rephrase (1) 50:7 replace (3) 49:22;50:15;51:10 replacement (1) 49:1 replicated (1) 24:10 report (16)	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22; 18:1,22;20:6;21:7,18, 21;25:10;33:9,20; 34:8;42:22;89:19; 90:12 responses (2) 19:21;20:2 responsibilities (1) 11:21 responsibility (4) 36:13;37:7,8,16 responsible (3) 5:19;7:14;76:15 responsive (3) 25:13;27:8;28:13 result (5) 16:8;27:19;42:15; 74:14,15 resumed (2)
45:17  PSNH (31)  4:14;8:18;15:19; 17:16,19;18:1,9; 19:8;22:12;25:9; 26:17;34:3;37:22; 40:8,17;47:20;48:2,5, 17,23;49:19;51:9; 52:3,10;53:13,16; 61:14;62:4;80:5; 88:17;93:11  PSNH's (3) 48:8;63:3,23  Public (1) 57:21 published (1) 69:22  PUC (9) 89:16;90:16,21; 91:8,20,21;94:2,7; 95:11 pull (1)	36:19;37:11,17; 46:15;75:12,23; 76:18;77:11,15;78:4, 19;79:1,2;81:15; 82:8,10;89:14;90:17, 22;91:11,18;92:3; 93:7 race (1) 90:7 ran (1) 82:2 range (3) 8:18;68:3,8 Rate (3) 15:16;32:16;46:17 ratepayers (1) 57:13 rates (1) 15:23 rather (3) 8:9;10:19;50:13	50:23;67:19 recently (1) 69:22 Recess (2) 96:10,11 reckless (1) 58:15 recollection (2) 42:13;95:16 record (12) 4:5,6,8;8:11;10:11, 13;17:1;30:16;31:5; 43:3;54:5;76:21 recourse (4) 57:6,7,8,14 redirect (2) 92:21;93:1 reducing (1) 95:6 Reduction (1) 70:10 refer (4)	relied (1) 11:8 rely (1) 33:19 remaining (1) 83:1 remains (1) 74:10 remember (1) 96:3 repeatedly (1) 35:12 rephrase (1) 50:7 replace (3) 49:22;50:15;51:10 replacement (1) 49:1 replicated (1) 24:10 report (16) 6:7;15:6,10,12;	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22; 18:1,22;20:6;21:7,18, 21;25:10;33:9,20; 34:8;42:22;89:19; 90:12 responses (2) 19:21;20:2 responsibilities (1) 11:21 responsibility (4) 36:13;37:7,8,16 responsible (3) 5:19;7:14;76:15 responsive (3) 25:13;27:8;28:13 result (5) 16:8;27:19;42:15; 74:14,15 resumed (2) 4:2;96:12
45:17  PSNH (31)  4:14;8:18;15:19; 17:16,19;18:1,9; 19:8;22:12;25:9; 26:17;34:3;37:22; 40:8,17;47:20;48:2,5, 17,23;49:19;51:9; 52:3,10;53:13,16; 61:14;62:4;80:5; 88:17;93:11  PSNH's (3) 48:8;63:3,23  Public (1) 57:21 published (1) 69:22  PUC (9) 89:16;90:16,21; 91:8,20,21;94:2,7; 95:11 pull (1) 12:21	36:19;37:11,17; 46:15;75:12,23; 76:18;77:11,15;78:4, 19;79:1,2;81:15; 82:8,10;89:14;90:17, 22;91:11,18;92:3; 93:7 race (1) 90:7 ran (1) 82:2 range (3) 8:18;68:3,8 Rate (3) 15:16;32:16;46:17 ratepayers (1) 57:13 rates (1) 15:23 rather (3) 8:9;10:19;50:13 rationale (1)	50:23;67:19 recently (1) 69:22 Recess (2) 96:10,11 reckless (1) 58:15 recollection (2) 42:13;95:16 record (12) 4:5,6,8;8:11;10:11, 13;17:1;30:16;31:5; 43:3;54:5;76:21 recourse (4) 57:6,7,8,14 redirect (2) 92:21;93:1 reducing (1) 95:6 Reduction (1) 70:10 refer (4) 55:15;56:19;57:17;	relied (1) 11:8 rely (1) 33:19 remaining (1) 83:1 remains (1) 74:10 remember (1) 96:3 repeatedly (1) 35:12 rephrase (1) 50:7 replace (3) 49:22;50:15;51:10 replacement (1) 49:1 replicated (1) 24:10 report (16) 6:7;15:6,10,12; 38:8,14;39:15;47:17;	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22; 18:1,22;20:6;21:7,18, 21;25:10;33:9,20; 34:8;42:22;89:19; 90:12 responses (2) 19:21;20:2 responsibilities (1) 11:21 responsibility (4) 36:13;37:7,8,16 responsible (3) 5:19;7:14;76:15 responsive (3) 25:13;27:8;28:13 result (5) 16:8;27:19;42:15; 74:14,15 resumed (2) 4:2;96:12 retired (1)
45:17  PSNH (31)  4:14;8:18;15:19; 17:16,19;18:1,9; 19:8;22:12;25:9; 26:17;34:3;37:22; 40:8,17;47:20;48:2,5, 17,23;49:19;51:9; 52:3,10;53:13,16; 61:14;62:4;80:5; 88:17;93:11  PSNH's (3) 48:8;63:3,23  Public (1) 57:21 published (1) 69:22  PUC (9) 89:16;90:16,21; 91:8,20,21;94:2,7; 95:11 pull (1) 12:21 purchase (4)	36:19;37:11,17; 46:15;75:12,23; 76:18;77:11,15;78:4, 19;79:1,2;81:15; 82:8,10;89:14;90:17, 22;91:11,18;92:3; 93:7 race (1) 90:7 ran (1) 82:2 range (3) 8:18;68:3,8 Rate (3) 15:16;32:16;46:17 ratepayers (1) 57:13 rates (1) 15:23 rather (3) 8:9;10:19;50:13 rationale (1) 42:2	50:23;67:19 recently (1) 69:22 Recess (2) 96:10,11 reckless (1) 58:15 recollection (2) 42:13;95:16 record (12) 4:5,6,8;8:11;10:11, 13;17:1;30:16;31:5; 43:3;54:5;76:21 recourse (4) 57:6,7,8,14 redirect (2) 92:21;93:1 reducing (1) 95:6 Reduction (1) 70:10 refer (4) 55:15;56:19;57:17; 75:6	relied (1) 11:8 rely (1) 33:19 remaining (1) 83:1 remains (1) 74:10 remember (1) 96:3 repeatedly (1) 35:12 rephrase (1) 50:7 replace (3) 49:22;50:15;51:10 replacement (1) 49:1 replicated (1) 24:10 report (16) 6:7;15:6,10,12; 38:8,14;39:15;47:17; 65:12;68:12;75:21;	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22; 18:1,22;20:6;21:7,18, 21;25:10;33:9,20; 34:8;42:22;89:19; 90:12 responses (2) 19:21;20:2 responsibilities (1) 11:21 responsibility (4) 36:13;37:7,8,16 responsible (3) 5:19;7:14;76:15 responsive (3) 25:13;27:8;28:13 result (5) 16:8;27:19;42:15; 74:14,15 resumed (2) 4:2;96:12 retired (1) 59:17
45:17  PSNH (31)  4:14;8:18;15:19; 17:16,19;18:1,9; 19:8;22:12;25:9; 26:17;34:3;37:22; 40:8,17;47:20;48:2,5, 17,23;49:19;51:9; 52:3,10;53:13,16; 61:14;62:4;80:5; 88:17;93:11  PSNH's (3) 48:8;63:3,23  Public (1) 57:21 published (1) 69:22  PUC (9) 89:16;90:16,21; 91:8,20,21;94:2,7; 95:11 pull (1) 12:21 purchase (4) 7:15;49:12,15,21	36:19;37:11,17; 46:15;75:12,23; 76:18;77:11,15;78:4, 19;79:1,2;81:15; 82:8,10;89:14;90:17, 22;91:11,18;92:3; 93:7 race (1) 90:7 ran (1) 82:2 range (3) 8:18;68:3,8 Rate (3) 15:16;32:16;46:17 ratepayers (1) 57:13 rates (1) 15:23 rather (3) 8:9;10:19;50:13 rationale (1) 42:2 read (18)	50:23;67:19 recently (1) 69:22 Recess (2) 96:10,11 reckless (1) 58:15 recollection (2) 42:13;95:16 record (12) 4:5,6,8;8:11;10:11, 13;17:1;30:16;31:5; 43:3;54:5;76:21 recourse (4) 57:6,7,8,14 redirect (2) 92:21;93:1 reducing (1) 95:6 Reduction (1) 70:10 refer (4) 55:15;56:19;57:17; 75:6 reference (9)	relied (1) 11:8 rely (1) 33:19 remaining (1) 83:1 remains (1) 74:10 remember (1) 96:3 repeatedly (1) 35:12 rephrase (1) 50:7 replace (3) 49:22;50:15;51:10 replacement (1) 49:1 replicated (1) 24:10 report (16) 6:7;15:6,10,12; 38:8,14;39:15;47:17; 65:12;68:12;75:21; 76:1;77:14;79:2,22;	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22; 18:1,22;20:6;21:7,18, 21;25:10;33:9,20; 34:8;42:22;89:19; 90:12 responses (2) 19:21;20:2 responsibilities (1) 11:21 responsibility (4) 36:13;37:7,8,16 responsible (3) 5:19;7:14;76:15 responsive (3) 25:13;27:8;28:13 result (5) 16:8;27:19;42:15; 74:14,15 resumed (2) 4:2;96:12 retired (1) 59:17 retirement (3)
45:17  PSNH (31)  4:14;8:18;15:19; 17:16,19;18:1,9; 19:8;22:12;25:9; 26:17;34:3;37:22; 40:8,17;47:20;48:2,5, 17,23;49:19;51:9; 52:3,10;53:13,16; 61:14;62:4;80:5; 88:17;93:11  PSNH's (3) 48:8;63:3,23  Public (1) 57:21 published (1) 69:22  PUC (9) 89:16;90:16,21; 91:8,20,21;94:2,7; 95:11 pull (1) 12:21 purchase (4) 7:15;49:12,15,21 purchased (1)	36:19;37:11,17; 46:15;75:12,23; 76:18;77:11,15;78:4, 19;79:1,2;81:15; 82:8,10;89:14;90:17, 22;91:11,18;92:3; 93:7 race (1) 90:7 ran (1) 82:2 range (3) 8:18;68:3,8 Rate (3) 15:16;32:16;46:17 ratepayers (1) 57:13 rates (1) 15:23 rather (3) 8:9;10:19;50:13 rationale (1) 42:2 read (18) 13:20;17:1,2,20;	50:23;67:19 recently (1) 69:22 Recess (2) 96:10,11 reckless (1) 58:15 recollection (2) 42:13;95:16 record (12) 4:5,6,8;8:11;10:11, 13;17:1;30:16;31:5; 43:3;54:5;76:21 recourse (4) 57:6,7,8,14 redirect (2) 92:21;93:1 reducing (1) 95:6 Reduction (1) 70:10 refer (4) 55:15;56:19;57:17; 75:6 reference (9) 4:13;12:4;16:16;	relied (1) 11:8 rely (1) 33:19 remaining (1) 83:1 remains (1) 74:10 remember (1) 96:3 repeatedly (1) 35:12 rephrase (1) 50:7 replace (3) 49:22;50:15;51:10 replacement (1) 49:1 replicated (1) 24:10 report (16) 6:7;15:6,10,12; 38:8,14;39:15;47:17; 65:12;68:12;75:21; 76:1;77:14;79:2,22; 93:10	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22; 18:1,22;20:6;21:7,18, 21;25:10;33:9,20; 34:8;42:22;89:19; 90:12 responses (2) 19:21;20:2 responsibilities (1) 11:21 responsibility (4) 36:13;37:7,8,16 responsible (3) 5:19;7:14;76:15 responsive (3) 25:13;27:8;28:13 result (5) 16:8;27:19;42:15; 74:14,15 resumed (2) 4:2;96:12 retired (1) 59:17 retirement (3) 49:1;52:18,20
45:17  PSNH (31)  4:14;8:18;15:19; 17:16,19;18:1,9; 19:8;22:12;25:9; 26:17;34:3;37:22; 40:8,17;47:20;48:2,5, 17,23;49:19;51:9; 52:3,10;53:13,16; 61:14;62:4;80:5; 88:17;93:11  PSNH's (3) 48:8;63:3,23  Public (1) 57:21 published (1) 69:22  PUC (9) 89:16;90:16,21; 91:8,20,21;94:2,7; 95:11 pull (1) 12:21 purchase (4) 7:15;49:12,15,21 purchased (1) 50:13	36:19;37:11,17; 46:15;75:12,23; 76:18;77:11,15;78:4, 19;79:1,2;81:15; 82:8,10;89:14;90:17, 22;91:11,18;92:3; 93:7 race (1) 90:7 ran (1) 82:2 range (3) 8:18;68:3,8 Rate (3) 15:16;32:16;46:17 ratepayers (1) 57:13 rates (1) 15:23 rather (3) 8:9;10:19;50:13 rationale (1) 42:2 read (18) 13:20;17:1,2,20; 19:12;23:6;31:17;	50:23;67:19 recently (1) 69:22 Recess (2) 96:10,11 reckless (1) 58:15 recollection (2) 42:13;95:16 record (12) 4:5,6,8;8:11;10:11, 13;17:1;30:16;31:5; 43:3;54:5;76:21 recourse (4) 57:6,7,8,14 redirect (2) 92:21;93:1 reducing (1) 95:6 Reduction (1) 70:10 refer (4) 55:15;56:19;57:17; 75:6 reference (9) 4:13;12:4;16:16; 70:5;79:22;90:5,14;	relied (1) 11:8 rely (1) 33:19 remaining (1) 83:1 remains (1) 74:10 remember (1) 96:3 repeatedly (1) 35:12 rephrase (1) 50:7 replace (3) 49:22;50:15;51:10 replacement (1) 49:1 replicated (1) 24:10 report (16) 6:7;15:6,10,12; 38:8,14;39:15;47:17; 65:12;68:12;75:21; 76:1;77:14;79:2,22; 93:10 reported (5)	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22; 18:1,22;20:6;21:7,18, 21;25:10;33:9,20; 34:8;42:22;89:19; 90:12 responses (2) 19:21;20:2 responsibilities (1) 11:21 responsibility (4) 36:13;37:7,8,16 responsible (3) 5:19;7:14;76:15 responsive (3) 25:13;27:8;28:13 result (5) 16:8;27:19;42:15; 74:14,15 resumed (2) 4:2;96:12 retired (1) 59:17 retirement (3) 49:1;52:18,20 review (9)
45:17 PSNH (31) 4:14;8:18;15:19; 17:16,19;18:1,9; 19:8;22:12;25:9; 26:17;34:3;37:22; 40:8,17;47:20;48:2,5, 17,23;49:19;51:9; 52:3,10;53:13,16; 61:14;62:4;80:5; 88:17;93:11 PSNH's (3) 48:8;63:3,23 Public (1) 57:21 published (1) 69:22 PUC (9) 89:16;90:16,21; 91:8,20,21;94:2,7; 95:11 pull (1) 12:21 purchase (4) 7:15;49:12,15,21 purchased (1) 50:13 purchases (3)	36:19;37:11,17; 46:15;75:12,23; 76:18;77:11,15;78:4, 19;79:1,2;81:15; 82:8,10;89:14;90:17, 22;91:11,18;92:3; 93:7 race (1) 90:7 ran (1) 82:2 range (3) 8:18;68:3,8 Rate (3) 15:16;32:16;46:17 ratepayers (1) 57:13 rates (1) 15:23 rather (3) 8:9;10:19;50:13 rationale (1) 42:2 read (18) 13:20;17:1,2,20; 19:12;23:6;31:17; 34:5,8;35:22,23;	50:23;67:19 recently (1) 69:22 Recess (2) 96:10,11 reckless (1) 58:15 recollection (2) 42:13;95:16 record (12) 4:5,6,8;8:11;10:11, 13;17:1;30:16;31:5; 43:3;54:5;76:21 recourse (4) 57:6,7,8,14 redirect (2) 92:21;93:1 reducing (1) 95:6 Reduction (1) 70:10 refer (4) 55:15;56:19;57:17; 75:6 reference (9) 4:13;12:4;16:16; 70:5;79:22;90:5,14; 91:2;95:11	relied (1) 11:8 rely (1) 33:19 remaining (1) 83:1 remains (1) 74:10 remember (1) 96:3 repeatedly (1) 35:12 rephrase (1) 50:7 replace (3) 49:22;50:15;51:10 replacement (1) 49:1 replicated (1) 24:10 report (16) 6:7;15:6,10,12; 38:8,14;39:15;47:17; 65:12;68:12;75:21; 76:1;77:14;79:2,22; 93:10 reported (5) 10:19;73:3;74:9;	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22; 18:1,22;20:6;21:7,18, 21;25:10;33:9,20; 34:8;42:22;89:19; 90:12 responses (2) 19:21;20:2 responsibilities (1) 11:21 responsibility (4) 36:13;37:7,8,16 responsible (3) 5:19;7:14;76:15 responsive (3) 25:13;27:8;28:13 result (5) 16:8;27:19;42:15; 74:14,15 resumed (2) 4:2;96:12 retired (1) 59:17 retirement (3) 49:1;52:18,20 review (9) 57:7,14,22;58:23;
45:17 PSNH (31) 4:14;8:18;15:19; 17:16,19;18:1,9; 19:8;22:12;25:9; 26:17;34:3;37:22; 40:8,17;47:20;48:2,5, 17,23;49:19;51:9; 52:3,10;53:13,16; 61:14;62:4;80:5; 88:17;93:11 PSNH's (3) 48:8;63:3,23 Public (1) 57:21 published (1) 69:22 PUC (9) 89:16;90:16,21; 91:8,20,21;94:2,7; 95:11 pull (1) 12:21 purchase (4) 7:15;49:12,15,21 purchased (1) 50:13	36:19;37:11,17; 46:15;75:12,23; 76:18;77:11,15;78:4, 19;79:1,2;81:15; 82:8,10;89:14;90:17, 22;91:11,18;92:3; 93:7 race (1) 90:7 ran (1) 82:2 range (3) 8:18;68:3,8 Rate (3) 15:16;32:16;46:17 ratepayers (1) 57:13 rates (1) 15:23 rather (3) 8:9;10:19;50:13 rationale (1) 42:2 read (18) 13:20;17:1,2,20; 19:12;23:6;31:17;	50:23;67:19 recently (1) 69:22 Recess (2) 96:10,11 reckless (1) 58:15 recollection (2) 42:13;95:16 record (12) 4:5,6,8;8:11;10:11, 13;17:1;30:16;31:5; 43:3;54:5;76:21 recourse (4) 57:6,7,8,14 redirect (2) 92:21;93:1 reducing (1) 95:6 Reduction (1) 70:10 refer (4) 55:15;56:19;57:17; 75:6 reference (9) 4:13;12:4;16:16; 70:5;79:22;90:5,14;	relied (1) 11:8 rely (1) 33:19 remaining (1) 83:1 remains (1) 74:10 remember (1) 96:3 repeatedly (1) 35:12 rephrase (1) 50:7 replace (3) 49:22;50:15;51:10 replacement (1) 49:1 replicated (1) 24:10 report (16) 6:7;15:6,10,12; 38:8,14;39:15;47:17; 65:12;68:12;75:21; 76:1;77:14;79:2,22; 93:10 reported (5)	response (22) 4:14,18;5:8,9,11, 13;6:1;14:16,22; 18:1,22;20:6;21:7,18, 21;25:10;33:9,20; 34:8;42:22;89:19; 90:12 responses (2) 19:21;20:2 responsibilities (1) 11:21 responsibility (4) 36:13;37:7,8,16 responsible (3) 5:19;7:14;76:15 responsive (3) 25:13;27:8;28:13 result (5) 16:8;27:19;42:15; 74:14,15 resumed (2) 4:2;96:12 retired (1) 59:17 retirement (3) 49:1;52:18,20 review (9)

		AND COST RECOVER	V	SCREDDER COSTS
reviewed (3)	46:8,11;47:12;49:5;	services (3)	67:9	splitting (1)
5:16,17;67:13	52:8;53:1,5;59:1,7;	88:8,11,12	six (3)	61:22
		SESSION (1)	51:14;73:1,17	spoke (2)
reviewing (1)	61:21;69:23;70:10;	, ,		
18:17	84:9,10;85:4;93:13	4:1	Sixty-seven (1)	9:6;47:23
reviews (15)	Scrubber's (1)	set (2)	66:14	spoken (1)
14:23;17:12;21:19;	59:15	50:12;79:5	size (1)	7:23
22:19;34:7;35:5;	search (1)	several (2)	68:4	spread (4)
36:4;40:14,21;55:7,	33:5	8:4;68:7	slides (1)	36:11,14;37:2;
11;56:1;70:3;73:18;	second (9)	shape (1)	56:6	92:15
92:6	10:3;19:15;21:9;	61:10	Smagula (4)	spreadsheets (1)
right (18)	39:1;60:8;67:15;	shared (3)	8:2;77:7;81:11;	24:9
9:11;38:5,17;	71:13;82:12;95:4	90:20,22;91:8	85:14	stack (1)
44:16;51:5;54:15;	secondary (6)	short (1)	smart (1)	25:2
61:8;67:1,15;74:20;	84:5,22;85:21;	51:17	33:2	Staff (9)
84:16,19;86:7;88:5;	86:7;87:1,4	shortage (1)	SNL (1)	81:16;85:16;88:10,
91:15;93:13;94:6;	Section (6)	50:5	74:9	18;89:16;90:21;
96:7	12:23;13:16;15:15;	shorten (1)	SO2 (1)	91:20,21;92:14
right-hand (2)	19:11;58:20;75:19	22:10	95:6	standard (1)
66:23;67:2	seeking (1)	short-term (2)	somebody (5)	57:21
risen (1)	50:14	35:2,9	48:16;58:3;79:17,	stark (1)
68:7	seem (2)		20;92:18	8:5
		show (7)		
rising (1)	29:8;42:19	17:23;19:7,12,15;	someone (3)	start (1)
39:7	seemed (1)	24:9;33:9;39:21	49:21;50:14;54:8	26:17
risk (4)	8:23	showed (1)	somewhere (1)	started (2)
36:21;38:6;58:1;	seems (5)	14:16	89:21	10:5;84:15
91:9	8:14;14:22;28:6,	shown (2)	sorry (14)	starting (2)
risks (4)	11;40:1	68:4;74:6	7:3;12:7,21;28:3;	8:8;16:17
37:19,19;46:14;	select (1)	shows (1)	38:10;40:5,11;54:11;	starting-point (1)
81:17	10:12	31:23	56:2;68:1;79:15;	9:13
role (2)	selected (1)	shut (6)	81:9;84:2,15	state (1)
56:21;83:7	9:20	63:1,5,16;64:2,12,	sort (3)	16:19
Roman (3)	Selective (1)	16	13:11;33:17;83:3	stated (3)
69:16;74:4;75:16	70:10	shutdown (1)	Sounds (1)	41:16;42:8;51:19
round (1)	Senate (19)	64:9	27:11	statement (6)
44:23	42:12,12;45:11;	side (2)	source (2)	15:1;30:7,11,14;
rounded (2)	53:7;54:2,18;55:4,	42:12;94:23	9:7,8	31:9,13
74:20,21	18;58:22;61:7,7,10,	Sierra (1)	sources (1)	statements (1)
rules (2)	18,20;62:6,9,10;	65:8	33:18	59:23
75:20;78:10	64:11,14	signed (1)	SP (5)	<b>Station (10)</b>
	sense (4)	11:17	4:23;66:4;75:3,5;	49:2,20,23;50:15;
run-up (1)				
78:2	24:22;36:1;52:11;	significance (1)	89:7	52:13;64:9,12;66:7;
	84:13	36:11	speak (1)	82:15;88:15
$\mathbf{S}$	sensitivities (1)	significant (4)	55:17	stations (1)
-	92:10	29:6;76:9;83:22;	speaking (1)	88:20
sadly (1)	sensitivity (1)	84:6	62:5	status (3)
30:5	36:11	significantly (5)	speaks (1)	37:11;41:21;85:10
same (4)	sent (1)	27:23;43:17,18;	60:9	Steam (1)
8:15;52:17;90:21;	21:8	74:6;88:23	specific (12)	34:11
		similar-sized (1)	10:20,22;16:16;	still (2)
91:12	sentence (13)			
saying (7)	10:21;16:23;17:15;	68:10	24:1;25:22;45:3,9;	11:11;89:21
24:15;26:4,16;	35:6;56:22;58:12;	simplest (2)	80:16;82:13,21;	stipulate (2)
48:14;51:6;60:12;	62:23;67:22;68:1;	6:23;85:17	83:10,12	20:12,22
61:15	69:20;90:23;91:2;	simplified (1)	specifically (5)	straight (1)
scenario (3)	95:4	9:12	77:12;80:5;82:1;	96:9
49:21;51:15;52:21	separate (3)	simply (1)	91:23;95:17	straight-lined (1)
scenarios (1)	19:13;85:5;96:13	63:13	specifics (1)	83:15
92:9	September (14)	simulate (1)	39:19	stream (1)
	18:3,9;20:6;38:9,			82:15
Science (1)		48:6	specified (1)	
42:8	14;44:13;47:2,3,16;	single (1)	82:20	streamlined (1)
screen (2)	49:16;51:22;52:13;	90:6	speculation (1)	9:12
86:15,15	69:2;73:7	singular (1)	63:8	Street (2)
	69:2;73:7 <b>Service (4)</b>	singular (1) 14:8	63:8 spent (2)	Street (2) 38:15;40:2
86:15,15				, ,

			E INVESTIGATION OF	-
05.22		AND COST RECOVER		26.14
95:23	47:5;48:14;50:3;	9:7,8	try (3)	36:14
Strike (1)	54:10;55:6;56:2;	though (2)	13:14;60:11;86:11	updates (2)
73:22	58:14;72:7;73:20;	8:23;24:11	trying (10)	36:21;37:18
strikes (1)	74:11;78:12;84:4;	three (8)	7:11;24:22;36:1;	updating (2)
26:13	89:23;90:1;96:1	9:19;19:13,15,21;	57:3;81:2,5;85:6,22;	37:2,3
strong (1)	sustain (1)	20:1;21:8,8;80:17	86:2,10	upgrades (1)
88:2	64:21	Tillotson (1)	turn (4)	86:16
struggled (1)	system (3)	85:14	15:7;38:12;93:22;	upon (7)
8:21	68:17;95:8,12	times (1)	94:21	9:1;11:8;14:14;
studies (2)	systems (2)	53:4	Turning (1)	33:19,22;41:20;
45:12,13	68:6,11	titled (1)	58:9	80:21
study (22)	00.0,11	92:2	two (19)	upper (1)
	T		` ,	66:22
42:14,18;44:20;	1	today (5)	4:18;8:1,19,22;	
53:6;56:18;59:15,19;	(1) (1)	11:12;30:18;45:1;	9:19;13:5;14:1;21:7;	use (2)
61:5,8,12,15,17,21;	table (1)	57:16;75:20	23:3,9,17;26:3;	5:23;6:16
62:4,10,11,12,17;	67:16	together (1)	27:23;42:7;46:3;	used (11)
63:4,15,23;64:8	Takeaways (3)	94:19	53:10;59:18;81:23;	6:4;10:12;11:7;
subject (4)	92:2,4,11	token (1)	86:14	14:18;16:2,6,9;29:8;
19:4;39:16;41:10,	talk (2)	8:15	type (1)	58:9;77:17;91:18
13	4:3;34:10	told (1)	39:5	using (2)
submitted (1)	talked (2)	32:17	types (2)	13:19;73:3
47:16	8:3;18:14	tonight (1)	29:11,12	Utilities (3)
subordinates (1)	talking (5)	4:5	typically (4)	25:23;39:3;57:21
35:19	50:8,9;51:5;59:6,7	top (4)	14:6;32:9;35:13;	utility (1)
Subpart (1)	talks (2)	12:20;17:14;62:16;	78:13	33:21
74:3		67:8	78.13	utilize (5)
,	13:3,4		TT	` /
Subsection (1)	team (6)	Total (5)	U	15:20;16:13;27:2;
69:18	37:17;53:15,17;	70:13;72:12;94:9,		66:22;68:19
substantially (3)	85:15;88:10;91:6	18;95:13	under (5)	utilized (4)
8:15,17;73:6	technologies (1)	totally (2)	23:13;73:23;74:3;	27:3;34:14;48:8;
success (1)	70:11	58:8,9	85:19;96:13	83:15
32:16	Technology (1)	4 a a la i a (1)	3 3 4 3 (4)	
32.10	recimology (1)	touching (1)	underlaid (1)	
	42:9	6:20	underlaid (1) 78:6	V
suggested (1) 16:3	42:9	6:20	78:6	V
suggested (1) 16:3	42:9 telling (1)	6:20 tower (4)	78:6 <b>underlying</b> (1)	
suggested (1) 16:3 suggesting (1)	42:9 <b>telling (1)</b> 24:11	6:20 tower (4) 82:2,3;83:11;86:4	78:6 underlying (1) 78:16	validate (3)
suggested (1) 16:3 suggesting (1) 87:22	42:9 telling (1) 24:11 tend (1)	6:20 tower (4) 82:2,3;83:11;86:4 track (1)	78:6 underlying (1) 78:16 underneath (1)	validate (3) 22:16;33:19;34:5
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4)	42:9 <b>telling (1)</b> 24:11 <b>tend (1)</b> 27:14	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23	78:6 underlying (1) 78:16 underneath (1) 69:17	validate (3) 22:16;33:19;34:5 valuable (1)
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4;	42:9 telling (1) 24:11 tend (1) 27:14 term (3)	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2)	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1)	validate (3) 22:16;33:19;34:5 valuable (1) 34:1
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5)
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1)	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3)	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5)	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6)	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11;
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1) 14:17	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3) 5:14;37:2;47:8	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5) 27:9;28:20;33:10;	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6) 34:18;35:1,8;47:6,	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11; 40:7
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1) 14:17 sulfur (1)	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3) 5:14;37:2;47:8 testified (8)	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5) 27:9;28:20;33:10; 35:16;89:20	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6) 34:18;35:1,8;47:6, 20;75:9	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11; 40:7 values (2)
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1) 14:17 sulfur (1) 95:6	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3) 5:14;37:2;47:8 testified (8) 29:22;51:21;53:3,	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5) 27:9;28:20;33:10; 35:16;89:20 transcript (8)	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6) 34:18;35:1,8;47:6, 20;75:9 undertaking (1)	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11; 40:7 values (2) 6:6;7:17
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1) 14:17 sulfur (1) 95:6 summarized (1)	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3) 5:14;37:2;47:8 testified (8) 29:22;51:21;53:3, 12;54:1;57:11;61:6;	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5) 27:9;28:20;33:10; 35:16;89:20 transcript (8) 30:5,9,17,20;31:4;	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6) 34:18;35:1,8;47:6, 20;75:9 undertaking (1) 86:22	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11; 40:7 values (2) 6:6;7:17 Vancho (8)
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1) 14:17 sulfur (1) 95:6 summarized (1) 92:10	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3) 5:14;37:2;47:8 testified (8) 29:22;51:21;53:3, 12;54:1;57:11;61:6; 69:6	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5) 27:9;28:20;33:10; 35:16;89:20 transcript (8) 30:5,9,17,20;31:4; 32:1;54:4;57:11	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6) 34:18;35:1,8;47:6, 20;75:9 undertaking (1) 86:22 undertook (1)	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11; 40:7 values (2) 6:6;7:17 Vancho (8) 70:22;72:16,22;
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1) 14:17 sulfur (1) 95:6 summarized (1)	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3) 5:14;37:2;47:8 testified (8) 29:22;51:21;53:3, 12;54:1;57:11;61:6;	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5) 27:9;28:20;33:10; 35:16;89:20 transcript (8) 30:5,9,17,20;31:4;	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6) 34:18;35:1,8;47:6, 20;75:9 undertaking (1) 86:22	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11; 40:7 values (2) 6:6;7:17 Vancho (8)
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1) 14:17 sulfur (1) 95:6 summarized (1) 92:10	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3) 5:14;37:2;47:8 testified (8) 29:22;51:21;53:3, 12;54:1;57:11;61:6; 69:6	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5) 27:9;28:20;33:10; 35:16;89:20 transcript (8) 30:5,9,17,20;31:4; 32:1;54:4;57:11	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6) 34:18;35:1,8;47:6, 20;75:9 undertaking (1) 86:22 undertook (1)	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11; 40:7 values (2) 6:6;7:17 Vancho (8) 70:22;72:16,22;
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1) 14:17 sulfur (1) 95:6 summarized (1) 92:10 summer (10)	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3) 5:14;37:2;47:8 testified (8) 29:22;51:21;53:3, 12;54:1;57:11;61:6; 69:6 testifying (1) 62:11	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5) 27:9;28:20;33:10; 35:16;89:20 transcript (8) 30:5,9,17,20;31:4; 32:1;54:4;57:11 transportation (1)	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6) 34:18;35:1,8;47:6, 20;75:9 undertaking (1) 86:22 undertook (1) 10:10	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11; 40:7 values (2) 6:6;7:17 Vancho (8) 70:22;72:16,22; 73:1;78:13;82:7,10; 89:12
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1) 14:17 sulfur (1) 95:6 summarized (1) 92:10 summer (10) 14:19;16:6,10; 39:15;42:21;46:16;	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3) 5:14;37:2;47:8 testified (8) 29:22;51:21;53:3, 12;54:1;57:11;61:6; 69:6 testifying (1) 62:11 testimony (34)	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5) 27:9;28:20;33:10; 35:16;89:20 transcript (8) 30:5,9,17,20;31:4; 32:1;54:4;57:11 transportation (1) 14:9 treatment (6)	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6) 34:18;35:1,8;47:6, 20;75:9 undertaking (1) 86:22 undertook (1) 10:10 unfortunately (1) 95:17	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11; 40:7 values (2) 6:6;7:17 Vancho (8) 70:22;72:16,22; 73:1;78:13;82:7,10; 89:12 variance (1)
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1) 14:17 sulfur (1) 95:6 summarized (1) 92:10 summer (10) 14:19;16:6,10; 39:15;42:21;46:16; 47:10,18;49:4;82:7	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3) 5:14;37:2;47:8 testified (8) 29:22;51:21;53:3, 12;54:1;57:11;61:6; 69:6 testifying (1) 62:11 testimony (34) 4:16;10:8;15:5;	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5) 27:9;28:20;33:10; 35:16;89:20 transcript (8) 30:5,9,17,20;31:4; 32:1;54:4;57:11 transportation (1) 14:9 treatment (6) 84:5,22;85:21;	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6) 34:18;35:1,8;47:6, 20;75:9 undertaking (1) 86:22 undertook (1) 10:10 unfortunately (1) 95:17 units (14)	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11; 40:7 values (2) 6:6;7:17 Vancho (8) 70:22;72:16,22; 73:1;78:13;82:7,10; 89:12 variance (1) 8:20
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1) 14:17 sulfur (1) 95:6 summarized (1) 92:10 summer (10) 14:19;16:6,10; 39:15;42:21;46:16; 47:10,18;49:4;82:7 supplier (1)	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3) 5:14;37:2;47:8 testified (8) 29:22;51:21;53:3, 12;54:1;57:11;61:6; 69:6 testifying (1) 62:11 testimony (34) 4:16;10:8;15:5; 28:9;29:10;33:17;	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5) 27:9;28:20;33:10; 35:16;89:20 transcript (8) 30:5,9,17,20;31:4; 32:1;54:4;57:11 transportation (1) 14:9 treatment (6) 84:5,22;85:21; 86:8;87:1,4	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6) 34:18;35:1,8;47:6, 20;75:9 undertaking (1) 86:22 undertook (1) 10:10 unfortunately (1) 95:17 units (14) 6:10;70:6,11,16;	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11; 40:7 values (2) 6:6;7:17 Vancho (8) 70:22;72:16,22; 73:1;78:13;82:7,10; 89:12 variance (1) 8:20 varieties (1)
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1) 14:17 sulfur (1) 95:6 summarized (1) 92:10 summer (10) 14:19;16:6,10; 39:15;42:21;46:16; 47:10,18;49:4;82:7 supplier (1) 57:9	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3) 5:14;37:2;47:8 testified (8) 29:22;51:21;53:3, 12;54:1;57:11;61:6; 69:6 testifying (1) 62:11 testimony (34) 4:16;10:8;15:5; 28:9;29:10;33:17; 34:10;38:8,18;40:6;	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5) 27:9;28:20;33:10; 35:16;89:20 transcript (8) 30:5,9,17,20;31:4; 32:1;54:4;57:11 transportation (1) 14:9 treatment (6) 84:5,22;85:21; 86:8;87:1,4 trigger (1)	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6) 34:18;35:1,8;47:6, 20;75:9 undertaking (1) 86:22 undertook (1) 10:10 unfortunately (1) 95:17 units (14) 6:10;70:6,11,16; 71:23;72:4,4,8;	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11; 40:7 values (2) 6:6;7:17 Vancho (8) 70:22;72:16,22; 73:1;78:13;82:7,10; 89:12 variance (1) 8:20 varieties (1) 61:13
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1) 14:17 sulfur (1) 95:6 summarized (1) 92:10 summer (10) 14:19;16:6,10; 39:15;42:21;46:16; 47:10,18;49:4;82:7 supplier (1) 57:9 supply (1)	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3) 5:14;37:2;47:8 testified (8) 29:22;51:21;53:3, 12;54:1;57:11;61:6; 69:6 testifying (1) 62:11 testimony (34) 4:16;10:8;15:5; 28:9;29:10;33:17; 34:10;38:8,18;40:6; 41:2,5,14;43:7;	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5) 27:9;28:20;33:10; 35:16;89:20 transcript (8) 30:5,9,17,20;31:4; 32:1;54:4;57:11 transportation (1) 14:9 treatment (6) 84:5,22;85:21; 86:8;87:1,4 trigger (1) 76:5	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6) 34:18;35:1,8;47:6, 20;75:9 undertaking (1) 86:22 undertook (1) 10:10 unfortunately (1) 95:17 units (14) 6:10;70:6,11,16; 71:23;72:4,4,8; 73:17;94:8,16,18;	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11; 40:7 values (2) 6:6;7:17 Vancho (8) 70:22;72:16,22; 73:1;78:13;82:7,10; 89:12 variance (1) 8:20 varieties (1) 61:13 variety (1)
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1) 14:17 sulfur (1) 95:6 summarized (1) 92:10 summer (10) 14:19;16:6,10; 39:15;42:21;46:16; 47:10,18;49:4;82:7 supplier (1) 57:9 supply (1) 14:14	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3) 5:14;37:2;47:8 testified (8) 29:22;51:21;53:3, 12;54:1;57:11;61:6; 69:6 testifying (1) 62:11 testimony (34) 4:16;10:8;15:5; 28:9;29:10;33:17; 34:10;38:8,18;40:6; 41:2,5,14;43:7; 44:16;46:5;53:19;	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5) 27:9;28:20;33:10; 35:16;89:20 transcript (8) 30:5,9,17,20;31:4; 32:1;54:4;57:11 transportation (1) 14:9 treatment (6) 84:5,22;85:21; 86:8;87:1,4 trigger (1) 76:5 triggering (3)	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6) 34:18;35:1,8;47:6, 20;75:9 undertaking (1) 86:22 undertook (1) 10:10 unfortunately (1) 95:17 units (14) 6:10;70:6,11,16; 71:23;72:4,4,8; 73:17;94:8,16,18; 95:9,13	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11; 40:7 values (2) 6:6;7:17 Vancho (8) 70:22;72:16,22; 73:1;78:13;82:7,10; 89:12 variance (1) 8:20 varieties (1) 61:13 variety (1) 83:18
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1) 14:17 sulfur (1) 95:6 summarized (1) 92:10 summer (10) 14:19;16:6,10; 39:15;42:21;46:16; 47:10,18;49:4;82:7 supplier (1) 57:9 supply (1) 14:14 support (2)	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3) 5:14;37:2;47:8 testified (8) 29:22;51:21;53:3, 12;54:1;57:11;61:6; 69:6 testifying (1) 62:11 testimony (34) 4:16;10:8;15:5; 28:9;29:10;33:17; 34:10;38:8,18;40:6; 41:2,5,14;43:7; 44:16;46:5;53:19; 54:21;56:19;57:20;	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5) 27:9;28:20;33:10; 35:16;89:20 transcript (8) 30:5,9,17,20;31:4; 32:1;54:4;57:11 transportation (1) 14:9 treatment (6) 84:5,22;85:21; 86:8;87:1,4 trigger (1) 76:5 triggering (3) 76:2,4,6	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6) 34:18;35:1,8;47:6, 20;75:9 undertaking (1) 86:22 undertook (1) 10:10 unfortunately (1) 95:17 units (14) 6:10;70:6,11,16; 71:23;72:4,4,8; 73:17;94:8,16,18; 95:9,13 up (19)	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11; 40:7 values (2) 6:6;7:17 Vancho (8) 70:22;72:16,22; 73:1;78:13;82:7,10; 89:12 variance (1) 8:20 varieties (1) 61:13 variety (1) 83:18 various (1)
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1) 14:17 sulfur (1) 95:6 summarized (1) 92:10 summer (10) 14:19;16:6,10; 39:15;42:21;46:16; 47:10,18;49;4;82:7 supplier (1) 57:9 supply (1) 14:14 support (2) 11:6;88:13	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3) 5:14;37:2;47:8 testified (8) 29:22;51:21;53:3, 12;54:1;57:11;61:6; 69:6 testifying (1) 62:11 testimony (34) 4:16;10:8;15:5; 28:9;29:10;33:17; 34:10;38:8,18;40:6; 41:2,5,14;43:7; 44:16;46:5;53:19; 54:21;56:19;57:20; 59:14;61:2,4;62:5;	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5) 27:9;28:20;33:10; 35:16;89:20 transcript (8) 30:5,9,17,20;31:4; 32:1;54:4;57:11 transportation (1) 14:9 treatment (6) 84:5,22;85:21; 86:8;87:1,4 trigger (1) 76:5 triggering (3) 76:2,4,6 true (6)	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6) 34:18;35:1,8;47:6, 20;75:9 undertaking (1) 86:22 undertook (1) 10:10 unfortunately (1) 95:17 units (14) 6:10;70:6,11,16; 71:23;72:4,4,8; 73:17;94:8,16,18; 95:9,13 up (19) 4:19;12:12;15:21;	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11; 40:7 values (2) 6:6;7:17 Vancho (8) 70:22;72:16,22; 73:1;78:13;82:7,10; 89:12 variance (1) 8:20 varieties (1) 61:13 variety (1) 83:18 various (1) 56:5
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1) 14:17 sulfur (1) 95:6 summarized (1) 92:10 summer (10) 14:19;16:6,10; 39:15;42:21;46:16; 47:10,18;49:4;82:7 supplier (1) 57:9 supply (1) 14:14 support (2) 11:6;88:13 supports (1)	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3) 5:14;37:2;47:8 testified (8) 29:22;51:21;53:3, 12;54:1;57:11;61:6; 69:6 testifying (1) 62:11 testimony (34) 4:16;10:8;15:5; 28:9;29:10;33:17; 34:10;38:8,18;40:6; 41:2,5,14;43:7; 44:16;46:5;53:19; 54:21;56:19;57:20; 59:14;61:2,4;62:5; 63:10;64:6,10,13;	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5) 27:9;28:20;33:10; 35:16;89:20 transcript (8) 30:5,9,17,20;31:4; 32:1;54:4;57:11 transportation (1) 14:9 treatment (6) 84:5,22;85:21; 86:8;87:1,4 trigger (1) 76:5 triggering (3) 76:2,4,6 true (6) 6:17;11:20;23:5,	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6) 34:18;35:1,8;47:6, 20;75:9 undertaking (1) 86:22 undertook (1) 10:10 unfortunately (1) 95:17 units (14) 6:10;70:6,11,16; 71:23;72:4,4,8; 73:17;94:8,16,18; 95:9,13 up (19) 4:19;12:12;15:21; 18:14;24:9,19,21;	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11; 40:7 values (2) 6:6;7:17 Vancho (8) 70:22;72:16,22; 73:1;78:13;82:7,10; 89:12 variance (1) 8:20 varieties (1) 61:13 variety (1) 83:18 various (1) 56:5 varying (1)
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1) 14:17 sulfur (1) 95:6 summarized (1) 92:10 summer (10) 14:19;16:6,10; 39:15;42:21;46:16; 47:10,18;49:4;82:7 supplier (1) 57:9 supply (1) 14:14 support (2) 11:6;88:13 supports (1) 6:9	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3) 5:14;37:2;47:8 testified (8) 29:22;51:21;53:3, 12;54:1;57:11;61:6; 69:6 testifying (1) 62:11 testimony (34) 4:16;10:8;15:5; 28:9;29:10;33:17; 34:10;38:8,18;40:6; 41:2,5,14;43:7; 44:16;46:5;53:19; 54:21;56:19;57:20; 59:14;61:2,4;62:5; 63:10;64:6,10,13; 65:16;68:22;75:9;	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5) 27:9;28:20;33:10; 35:16;89:20 transcript (8) 30:5,9,17,20;31:4; 32:1;54:4;57:11 transportation (1) 14:9 treatment (6) 84:5,22;85:21; 86:8;87:1,4 trigger (1) 76:5 triggering (3) 76:2,4,6 true (6) 6:17;11:20;23:5, 15;56:4;60:14	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6) 34:18;35:1,8;47:6, 20;75:9 undertaking (1) 86:22 undertook (1) 10:10 unfortunately (1) 95:17 units (14) 6:10;70:6,11,16; 71:23;72:4,4,8; 73:17;94:8,16,18; 95:9,13 up (19) 4:19;12:12;15:21; 18:14;24:9,19,21; 50:12;54:12;71:6;	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11; 40:7 values (2) 6:6;7:17 Vancho (8) 70:22;72:16,22; 73:1;78:13;82:7,10; 89:12 variance (1) 8:20 varieties (1) 61:13 variety (1) 83:18 various (1) 56:5 varying (1) 7:18
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1) 14:17 sulfur (1) 95:6 summarized (1) 92:10 summer (10) 14:19;16:6,10; 39:15;42:21;46:16; 47:10,18;49:4;82:7 supplier (1) 57:9 supply (1) 14:14 support (2) 11:6;88:13 supports (1) 6:9 supposed (1)	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3) 5:14;37:2;47:8 testified (8) 29:22;51:21;53:3, 12;54:1;57:11;61:6; 69:6 testifying (1) 62:11 testimony (34) 4:16;10:8;15:5; 28:9;29:10;33:17; 34:10;38:8,18;40:6; 41:2,5,14;43:7; 44:16;46:5;53:19; 54:21;56:19;57:20; 59:14;61:2,4;62:5; 63:10;64:6,10,13; 65:16;68:22;75:9; 79:13;90:15;91:16	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5) 27:9;28:20;33:10; 35:16;89:20 transcript (8) 30:5,9,17,20;31:4; 32:1;54:4;57:11 transportation (1) 14:9 treatment (6) 84:5,22;85:21; 86:8;87:1,4 trigger (1) 76:5 triggering (3) 76:2,4,6 true (6) 6:17;11:20;23:5, 15;56:4;60:14 trust (1)	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6) 34:18;35:1,8;47:6, 20;75:9 undertaking (1) 86:22 undertook (1) 10:10 unfortunately (1) 95:17 units (14) 6:10;70:6,11,16; 71:23;72:4,4,8; 73:17;94:8,16,18; 95:9,13 up (19) 4:19;12:12;15:21; 18:14;24:9,19,21; 50:12;54:12;71:6; 72:13;73:21;74:13;	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11; 40:7 values (2) 6:6;7:17 Vancho (8) 70:22;72:16,22; 73:1;78:13;82:7,10; 89:12 variance (1) 8:20 varieties (1) 61:13 variety (1) 83:18 various (1) 56:5 varying (1) 7:18 Ventures (3)
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1) 14:17 sulfur (1) 95:6 summarized (1) 92:10 summer (10) 14:19;16:6,10; 39:15;42:21;46:16; 47:10,18;49:4;82:7 supplier (1) 57:9 supply (1) 14:14 support (2) 11:6;88:13 supports (1) 6:9 supposed (1) 76:2	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3) 5:14;37:2;47:8 testified (8) 29:22;51:21;53:3, 12;54:1;57:11;61:6; 69:6 testifying (1) 62:11 testimony (34) 4:16;10:8;15:5; 28:9;29:10;33:17; 34:10;38:8,18;40:6; 41:2,5,14;43:7; 44:16;46:5;53:19; 54:21;56:19;57:20; 59:14;61:2,4;62:5; 63:10;64:6,10,13; 65:16;68:22;75:9; 79:13;90:15;91:16 then-CEO (1)	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5) 27:9;28:20;33:10; 35:16;89:20 transcript (8) 30:5,9,17,20;31:4; 32:1;54:4;57:11 transportation (1) 14:9 treatment (6) 84:5,22;85:21; 86:8;87:1,4 trigger (1) 76:5 triggering (3) 76:2,4,6 true (6) 6:17;11:20;23:5, 15;56:4;60:14 trust (1) 81:16	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6) 34:18;35:1,8;47:6, 20;75:9 undertaking (1) 86:22 undertook (1) 10:10 unfortunately (1) 95:17 units (14) 6:10;70:6,11,16; 71:23;72:4,4,8; 73:17;94:8,16,18; 95:9,13 up (19) 4:19;12:12;15:21; 18:14;24:9,19,21; 50:12;54:12;71:6;	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11; 40:7 values (2) 6:6;7:17 Vancho (8) 70:22;72:16,22; 73:1;78:13;82:7,10; 89:12 variance (1) 8:20 varieties (1) 61:13 variety (1) 83:18 various (1) 56:5 varying (1) 7:18
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1) 14:17 sulfur (1) 95:6 summarized (1) 92:10 summer (10) 14:19;16:6,10; 39:15;42:21;46:16; 47:10,18;49:4;82:7 supplier (1) 57:9 supply (1) 14:14 support (2) 11:6;88:13 supports (1) 6:9 supposed (1)	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3) 5:14;37:2;47:8 testified (8) 29:22;51:21;53:3, 12;54:1;57:11;61:6; 69:6 testifying (1) 62:11 testimony (34) 4:16;10:8;15:5; 28:9;29:10;33:17; 34:10;38:8,18;40:6; 41:2,5,14;43:7; 44:16;46:5;53:19; 54:21;56:19;57:20; 59:14;61:2,4;62:5; 63:10;64:6,10,13; 65:16;68:22;75:9; 79:13;90:15;91:16	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5) 27:9;28:20;33:10; 35:16;89:20 transcript (8) 30:5,9,17,20;31:4; 32:1;54:4;57:11 transportation (1) 14:9 treatment (6) 84:5,22;85:21; 86:8;87:1,4 trigger (1) 76:5 triggering (3) 76:2,4,6 true (6) 6:17;11:20;23:5, 15;56:4;60:14 trust (1)	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6) 34:18;35:1,8;47:6, 20;75:9 undertaking (1) 86:22 undertook (1) 10:10 unfortunately (1) 95:17 units (14) 6:10;70:6,11,16; 71:23;72:4,4,8; 73:17;94:8,16,18; 95:9,13 up (19) 4:19;12:12;15:21; 18:14;24:9,19,21; 50:12;54:12;71:6; 72:13;73:21;74:13;	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11; 40:7 values (2) 6:6;7:17 Vancho (8) 70:22;72:16,22; 73:1;78:13;82:7,10; 89:12 variance (1) 8:20 varieties (1) 61:13 variety (1) 83:18 various (1) 56:5 varying (1) 7:18 Ventures (3)
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1) 14:17 sulfur (1) 95:6 summarized (1) 92:10 summer (10) 14:19;16:6,10; 39:15;42:21;46:16; 47:10,18;49:4;82:7 supplier (1) 57:9 supply (1) 14:14 support (2) 11:6;88:13 supports (1) 6:9 supposed (1) 76:2	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3) 5:14;37:2;47:8 testified (8) 29:22;51:21;53:3, 12;54:1;57:11;61:6; 69:6 testifying (1) 62:11 testimony (34) 4:16;10:8;15:5; 28:9;29:10;33:17; 34:10;38:8,18;40:6; 41:2,5,14;43:7; 44:16;46:5;53:19; 54:21;56:19;57:20; 59:14;61:2,4;62:5; 63:10;64:6,10,13; 65:16;68:22;75:9; 79:13;90:15;91:16 then-CEO (1) 53:18	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5) 27:9;28:20;33:10; 35:16;89:20 transcript (8) 30:5,9,17,20;31:4; 32:1;54:4;57:11 transportation (1) 14:9 treatment (6) 84:5,22;85:21; 86:8;87:1,4 trigger (1) 76:5 triggering (3) 76:2,4,6 true (6) 6:17;11:20;23:5, 15;56:4;60:14 trust (1) 81:16	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6) 34:18;35:1,8;47:6, 20;75:9 undertaking (1) 86:22 undertook (1) 10:10 unfortunately (1) 95:17 units (14) 6:10;70:6,11,16; 71:23;72:4,4,8; 73:17;94:8,16,18; 95:9,13 up (19) 4:19;12:12;15:21; 18:14;24:9,19,21; 50:12;54:12;71:6; 72:13;73:21;74:13; 79:23;81:4,5;83:20;	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11; 40:7 values (2) 6:6;7:17 Vancho (8) 70:22;72:16,22; 73:1;78:13;82:7,10; 89:12 variance (1) 8:20 varieties (1) 61:13 variety (1) 83:18 various (1) 56:5 varying (1) 7:18 Ventures (3) 17:17;19:1;22:13
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1) 14:17 sulfur (1) 95:6 summarized (1) 92:10 summer (10) 14:19;16:6,10; 39:15;42:21;46:16; 47:10,18;49:4;82:7 supplier (1) 57:9 supply (1) 14:14 support (2) 11:6;88:13 supports (1) 6:9 supposed (1) 76:2 sure (24) 18:16;19:6;20:17;	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3) 5:14;37:2;47:8 testified (8) 29:22;51:21;53:3, 12;54:1;57:11;61:6; 69:6 testifying (1) 62:11 testimony (34) 4:16;10:8;15:5; 28:9;29:10;33:17; 34:10;38:8,18;40:6; 41:2,5,14;43:7; 44:16;46:5;53:19; 54:21;56:19;57:20; 59:14;61:2,4;62:5; 63:10;64:6,10,13; 65:16;68:22;75:9; 79:13;90:15;91:16 then-CEO (1) 53:18 thinking (2)	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5) 27:9;28:20;33:10; 35:16;89:20 transcript (8) 30:5,9,17,20;31:4; 32:1;54:4;57:11 transportation (1) 14:9 treatment (6) 84:5,22;85:21; 86:8;87:1,4 trigger (1) 76:5 triggering (3) 76:2,4,6 true (6) 6:17;11:20;23:5, 15;56:4;60:14 trust (1) 81:16 trustees (9) 38:7;75:13;87:14;	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6) 34:18;35:1,8;47:6, 20;75:9 undertaking (1) 86:22 undertook (1) 10:10 unfortunately (1) 95:17 units (14) 6:10;70:6,11,16; 71:23;72:4,4,8; 73:17;94:8,16,18; 95:9,13 up (19) 4:19;12:12;15:21; 18:14;24:9,19,21; 50:12;54:12;71:6; 72:13;73:21;74:13; 79:23;81:4,5;83:20; 89:21;90:2 update (3)	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11; 40:7 values (2) 6:6;7:17 Vancho (8) 70:22;72:16,22; 73:1;78:13;82:7,10; 89:12 variance (1) 8:20 varieties (1) 61:13 variety (1) 83:18 various (1) 56:5 varying (1) 7:18 Ventures (3) 17:17;19:1;22:13 version (1) 75:10
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1) 14:17 sulfur (1) 95:6 summarized (1) 92:10 summer (10) 14:19;16:6,10; 39:15;42:21;46:16; 47:10,18;49:4;82:7 supplier (1) 57:9 supply (1) 14:14 support (2) 11:6;88:13 supports (1) 6:9 supposed (1) 76:2 sure (24) 18:16;19:6;20:17; 26:2;28:14;29:6;	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3) 5:14;37:2;47:8 testified (8) 29:22;51:21;53:3, 12;54:1;57:11;61:6; 69:6 testifying (1) 62:11 testimony (34) 4:16;10:8;15:5; 28:9;29:10;33:17; 34:10;38:8,18;40:6; 41:2,5,14;43:7; 44:16;46:5;53:19; 54:21;56:19;57:20; 59:14;61:2,4;62:5; 63:10;64:6,10,13; 65:16;68:22;75:9; 79:13;90:15;91:16 then-CEO (1) 53:18 thinking (2) 81:1;91:23	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5) 27:9;28:20;33:10; 35:16;89:20 transcript (8) 30:5,9,17,20;31:4; 32:1;54:4;57:11 transportation (1) 14:9 treatment (6) 84:5,22;85:21; 86:8;87:1,4 trigger (1) 76:5 triggering (3) 76:2,4,6 true (6) 6:17;11:20;23:5, 15;56:4;60:14 trust (1) 81:16 trustees (9) 38:7;75:13;87:14; 88:1;89:3,15;90:18;	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6) 34:18;35:1,8;47:6, 20;75:9 undertaking (1) 86:22 undertook (1) 10:10 unfortunately (1) 95:17 units (14) 6:10;70:6,11,16; 71:23;72:4,4,8; 73:17;94:8,16,18; 95:9,13 up (19) 4:19;12:12;15:21; 18:14;24:9,19,21; 50:12;54:12;71:6; 72:13;73:21;74:13; 79:23;81:4,5;83:20; 89:21;90:2 update (3) 37:10;38:1;42:3	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11; 40:7 values (2) 6:6;7:17 Vancho (8) 70:22;72:16,22; 73:1;78:13;82:7,10; 89:12 variance (1) 8:20 varieties (1) 61:13 variety (1) 83:18 various (1) 56:5 varying (1) 7:18 Ventures (3) 17:17;19:1;22:13 version (1) 75:10 versus (1)
suggested (1) 16:3 suggesting (1) 87:22 suggestion (4) 9:17;87:17;88:4; 89:3 suggests (1) 14:17 sulfur (1) 95:6 summarized (1) 92:10 summer (10) 14:19;16:6,10; 39:15;42:21;46:16; 47:10,18;49:4;82:7 supplier (1) 57:9 supply (1) 14:14 support (2) 11:6;88:13 supports (1) 6:9 supposed (1) 76:2 sure (24) 18:16;19:6;20:17;	42:9 telling (1) 24:11 tend (1) 27:14 term (3) 51:17,18;76:5 terms (3) 5:14;37:2;47:8 testified (8) 29:22;51:21;53:3, 12;54:1;57:11;61:6; 69:6 testifying (1) 62:11 testimony (34) 4:16;10:8;15:5; 28:9;29:10;33:17; 34:10;38:8,18;40:6; 41:2,5,14;43:7; 44:16;46:5;53:19; 54:21;56:19;57:20; 59:14;61:2,4;62:5; 63:10;64:6,10,13; 65:16;68:22;75:9; 79:13;90:15;91:16 then-CEO (1) 53:18 thinking (2)	6:20 tower (4) 82:2,3;83:11;86:4 track (1) 24:23 trades (2) 14:4,5 TransCanada (5) 27:9;28:20;33:10; 35:16;89:20 transcript (8) 30:5,9,17,20;31:4; 32:1;54:4;57:11 transportation (1) 14:9 treatment (6) 84:5,22;85:21; 86:8;87:1,4 trigger (1) 76:5 triggering (3) 76:2,4,6 true (6) 6:17;11:20;23:5, 15;56:4;60:14 trust (1) 81:16 trustees (9) 38:7;75:13;87:14;	78:6 underlying (1) 78:16 underneath (1) 69:17 under-oath (1) 28:5 understood (6) 34:18;35:1,8;47:6, 20;75:9 undertaking (1) 86:22 undertook (1) 10:10 unfortunately (1) 95:17 units (14) 6:10;70:6,11,16; 71:23;72:4,4,8; 73:17;94:8,16,18; 95:9,13 up (19) 4:19;12:12;15:21; 18:14;24:9,19,21; 50:12;54:12;71:6; 72:13;73:21;74:13; 79:23;81:4,5;83:20; 89:21;90:2 update (3)	validate (3) 22:16;33:19;34:5 valuable (1) 34:1 value (5) 5:22;30:4,6;31:11; 40:7 values (2) 6:6;7:17 Vancho (8) 70:22;72:16,22; 73:1;78:13;82:7,10; 89:12 variance (1) 8:20 varieties (1) 61:13 variety (1) 83:18 various (1) 56:5 varying (1) 7:18 Ventures (3) 17:17;19:1;22:13 version (1) 75:10

viable (1)         Witness (30)         38:93:916:42:21;         2 (1)         26 (1)         26 (1)         27:8           siew (3)         11:92:28:19:25:6;         38:10:44:20:82:1         21:19:22:81:92:56;         08-103 (3)         20 (4)         20 (4)         27:8           viewed (3)         10:34:41:79:37;         40:14:11:54:13:55:36:4         90 (2)         15:61:17:38         34:18:35:14:17;         20:00:00         7:28         72:8           50:10         63:19:66:11/03:35         1         200 (0)         38:22         27:7 (1)         54:10         54:10         54:10         54:10         54:10         54:10         72:24         77:11         72:17         71:10         54:10         54:10         54:10         54:10         54:10         54:10         54:10         54:10         54:10         54:10         54:10         54:10         72:23         77:27         72:9         72:9         72:9         72:9         72:17         72:17         72:0         72:18         72:18         72:18         72:18         72:18         72:18         11:71:25:13:23:23:33:23:33         73:18         72:23:34:14:13:36:10         72:23:34:14:13:36:10         72:23:34:14:13:36:10         73:13:35:36:36:33         73:13:35:36:36:32         72:23:34:14:13:36:10         73:13:35:	DE 11-250 PUBLIC	SERVICE COMPANY			SCRUBBER COSTS
14231.77.12   34.16   37.18   34.18.35   1.7   228   246   (1)   34.18.35   1.7   228   246   (1)   34.18.35   1.7   228   246   (1)   34.18.35   1.7   228   246   (1)   34.18.35   1.7   2000 (1)   38.22   231.17   2010 (1)   38.22   231.17   2010 (1)   38.22   231.17   2010 (1)   38.22   231.17   2010 (1)   38.22   231.17   2010 (1)   38.22   231.18	vioble (1)		38:0:30:16:42:21:		261 (1)
view (3)         31:10;4420;82:1         21:19;22:81;92:56;         08-103 (3)         20 (4)         26 (4)         26 (4)         31:10;4420;82:1         26 (4)         33:10;4420;82:1         26 (4)         33:10;4420;82:1         25:20;13:13:13         34:73;55:5364;36:4         90 (2)         15:61;16:11;23:8         15:61;16:11;23:8         15:61;16:11;23:8         21:15:5         200 (0)         38:22         27:28         27:17 (1)         28:21         28:21         28:21         28:21         28:21         28:21         28:21         28:21         28:21         28:21         28:21         28:21         28:21         28:21         28:21         28:16:22         29:23         27:23;34:143;36:10         38:14:69:2         38:14:69:2         38:14:69:2         38:14:69:2         38:14:69:2         38:14:69:2         38:14:69:2         38:14:69:2         38:14:69:2         38:14:69:2         38:14:69:2         38:14:69:2         38:14:69:2         38:14:69:2         38:14:69:2         38:14:69	` /				
33110,442,0032-1   viewed (3)   347,355,356.4   4014,21,541,355.7   4014,21,541,356.7   4014,21,541,356.7   4014,21,541,356.7   4014,21,541,341,341,341,341,341,341,341,341,341,3					
viewed (3)         347,355;3564;         09 (2)         65:16         27-17 (1)         25-10         25-11         25-10         25-11         25-10         25-11         25-10         25-11         25-10         25-11         25-10         25-11         25-11         25-11         25-11         25-11         25-11         25-11         25-11         2000 (1)         25-11         25-11         2000 (1)         25-11         2000 (1)         25-11         2000 (1)         25-11         2000 (1)         25-11         2000 (1)         25-11         2000 (1)         25-11         2000 (1)         27-12         2000 (1)         27-12         2000 (1)         27-12         2000 (1)         27-12         2000 (1)         27-12         2000 (1)         27-12         2000 (1)         27-12         2000 (1)         27-12         2000 (1)         27-12         2000 (1)         27-12         2000 (1)         27-12         2000 (1)         27-12         2000 (1)         27-12         2000 (1)         27-12         2000 (1)         27-12         2000 (1)         27-12         2000 (1)         27-12         2000 (1)         27-12         2000 (1)         27-12         2000 (1)         2000 (1)         2000 (1)         2000 (1)         2000 (1)         2000 (1)					
10:34:417:93:7   40:14:215:413:557,   15   2000 (1)   54:10   15:10   16:15:10:116:215   1   2005 (1)   7:22   20:15   1   2005 (1)   7:22   20:15   1   20:15   20:					
viewpoint (1)         50:10         69:1966:117:03;         1         38:22         28h (1)           violated (1)         63:18,76e:33:79:21;         33:18,76e:33:79:21;         1         2005 (1)         27:7         298 (1)           32:17         90:109:159:26         witnesses (2)         16:6         12:16,79:18         305;21:32:8;38:14         11:17:22:19:23;         22d (2)         2000 (5)         72:9           walk (2)         91:3         90:62:11/12:10         40:13,13         10:20         23:1;26:22:32;24:34:43:610;         38:14:69:2         30:5,21:32:8;38:14         11:17:22:19:23;         30:20         30:01:11,118:26:22;         30:01:118:26:22;         30:01:118:26:22;         30:01:118:26:22;         30:01:118:26:22;         30:01:118:26:22;         30:01:118:26:22;					
Solidord   Table   T			22:1,15		
violated (1)         73:18;76:23:79:21:         73:18;76:23:79:21:         20:10:19:15:92:6         30:5,21;32:8;38:14         20:75         298 (1)           wonder (1)         18:6         10:12:16:79:18         148 (1)         20:75         20:007 (5)         72:9           walk (2)         wondering (1)         40:13,13         19:23:22:32,323:23.3         3         3           Wall (2)         82:22:88:3         1135 (2)         37:23:40:18;24:4;         32:32:23:23:23:23.3         3         3         3         3         3         3         60:12:81:49:23:         3         3         3         3         60:28:14:92:33:         3         40:13,13         19:23:22:32:32:32:33.3         3         3         3         42:22:23:33:34:26:22         3         3         42:22:23:33:34:26:22         3<			_		
23:17   90:109:15:92:6   149   300:7(5)   11:17.22:19:23;   200 (2)   38:14:69:2   2008 (37)   61:28:14:9:23;   20:33:14:14:14:13:13:14:14:14:13:13:14:14:13:13:14:14:14:13:13:14:14:14:13:13:14:14:14:13:13:14:14:14:13:13:14:14:14:13:14:14:13:14:14:13:14:14:13:14:14:13:14:14:14:13:14:14:13:14:14:13:14:14:14:13:14:14:14:13:14:14:14:13:14:14:14:13:14:14:14:13:14:14:14:14:14:14:14:14:14:14:14:14:14:	50:10	63:19;66:11;70:3;	1	2005 (1)	7:22
voluminous (1)         witnesses (2)         30.5,21;32:8;38:14         11:17,22:19:23;         2nd (2)         38:14,69:2         2nd (2)         38:14,69:2         38:18         40:13,13         19:23:22:23:23:23         32:23:24:33:3         40:13,13         19:23:22:23:23:23:3         34:20:33:40:184:36:10         37:23:40:184:36:10         37:23:40:184:36:10         37:23:40:184:36:10         37:23:40:184:37:47         34:20:19         34:20:19         34:20:19         34:20:19         34:20:19         34:20:19         34:20:19         34:20:19         34:20:19         34:20:19         34:20:19         34:20:19         34:20:19         34:20:19         34:20:19         35:19         34:20:19         34:20:19         34:20:19         34:20:19         34:20:19         34:20:19         34:20:19	violated (1)	73:18;76:23;79:21;		27:7	298 (1)
voluminous (1)         witnesses (2)         30.5,21;32:8;38:14         11:17,22:19:23;         2nd (2)           W         15:6         wonder (1)         4:2         23:12:62:22         38:14;69:2           walk (2)         wondering (1)         40:13,13         19:23         10:261 (1)         10:11,18;26:22         3           Wall (2)         82:22:88:3         1135 (2)         72:18,19         37:23;41;43:6:10;         67:6,7           38:15;40:2         word (2)         72:18,19         31:11,18(2)         37:23;44:13,437:11;         342 (2)           wants (1)         7:17,32:12;37:6;         75:793:5         51:22;52:26,13;         34:12,14         34:2 (2)           wastewater (6)         work (5)         21:85:3         122 (5)         82:8         82:8         33:1(2)           86:8871,4         waster (1)         85:18         29:13         29:13         71:57,911;93:22;         33:13,142;14         34:12,14         34:12,14           96:15,883;74         85:18         29:13         22:21:55:5         33:12,15         42:14;94:21:50:10;         66:02;22:36:22;         34:14         44:19:42:34:36;,11;         44:19:42:34:36;,11;         46:17;         36:00         32:22:38:13;         32:10;         36:00         32:22:22:22:22;         33:1	23:17	90:10;91:5;92:6	1 (4)	2007 (5)	72:9
18.6	voluminous (1)	witnesses (2)	30:5,21;32:8;38:14	11:17,22;19:23;	2nd (2)
W         wonder (1)         4:2         2008 (37)         3         3           walk (2)         nondering (1)         40:13,13         10:20         6:12,814,9:23; 19:23,223,23,233,23         3           walk (2)         word (2)         82:22,288:3         1135 (2)         27:218,19         37:23,40:158,424; 342 (2)         342 (2)           sastewater (6)         63:8         56,32,17,720; 118 (2)         118 (2)         37:23,40:158,424; 342 (2)         342 (2)           wastewater (6)         work (5)         21:85:3         12 (2)         37:75,93:5         51:22,522,6.13; 341,377; 311,282,2.81; 7         34:12,141,347; 11; 34; 22; 34; 34; 22         34:12,141,347; 11; 34; 22; 34; 34; 22         34:12,141,347; 11; 34; 22; 34; 34; 22         34:12,141,347; 11; 34; 22; 34; 34; 22         34:12,141,347; 11; 34; 22; 34; 34; 34; 22         34:12,141,347; 11; 34; 22; 34; 34; 34; 22         34:12,141,347; 11; 34; 22; 34; 34; 34; 22         34:12,141,347; 11; 34; 22; 34; 34; 34; 22         34:12,141,347; 11; 34; 22; 34; 34; 34; 22         34:12,141,347; 11; 34; 22; 34; 34; 34; 22         34:12,141,347; 11; 34; 22; 34; 34; 34; 22         34:12,141,347; 11; 34; 22; 34; 34; 34; 22         34:12,141,347; 11; 34; 22; 34; 34; 34; 34; 34; 34; 34; 34; 34; 34					
Walk (2)         15.6         10 (2)         66.12,8:14,9:23;         3           walk (2)         91:3         10-261 (1)         11.13,13:12         91:3         10-261 (1)         11.13,13:12         3         10.261 (1)         11.13,13:12         3         10.261 (1)         11.13,13:12         3         10.11,13:13:12         3         342 (2)         3         3         42 (2)         3         3         42 (2)         3         3         42 (2)         3         42 (2)         3         342 (2)         3         42 (2)         6         6         7         6         6         6         7         7         8         10.21,11,18,26:22:         3         42 (2)         342 (2)	-	wonder (1)			,
walk (2)         walk (2)         40;13,13         19:23;22:23:23:23:3         3 (2)           Walk (2)         Walk (2)         82:22;88:3         10.261 (1)         10.11;82:62:22         37:23;40:18;42:4;         34:22         342 (2)         342 (2)         342 (2)         342 (2)         342 (2)         342 (2)         342 (2)         342 (2)         342 (2)         342 (2)         342 (2)         342 (2)         342 (2)         342 (2)         342 (2)         342 (2)         342 (2)         342 (2)         343 (1)         342 (2)	$\mathbf{W}$				3
walk (2)         91:3         10-261 (1)         10.11,18,26-22;         3 (7-6,7)           Wall (2)         82:22,88:3         uord (2)         29:23         27:22,341,43,610;         37:23,40;18,42;         34:22,1           38:15,40;2         words (1)         7:17;32:12;37:6;         118 (2)         43:1,11,44;13,47;11;         96:10,11           63:8         56:3,21,77;20         75:793:5         51:22,52;2,61;         31 (2)           84:5,22,85;21;         53:18,673,82:20,         21:33,75;40;13,13         65:12,668,88:13;         312 (1)           86:15         85:18         29:13         19:23,222;22,22;3;         34:4(4)           86:15         85:18         29:13         19:23,222;22,22,23;         34 (4)           98:18         29:13         19:23,222;22,22,23;         34 (4)           98:18         29:13         19:23,222;22,22,23;         34 (4)           98:18         29:13         19:23,222;22,22,22,23;         34 (4)           98:19         37:23,381,3         71:57,911;93:22;         44:19;46:21;50:10;         56:20           98:30         37:23,381,3         71:57,911;93:22;         44:19;46:21;50:10;         64:7         24:17;25;7;26:5           98:31         99:78         77:83,14;18;3.10;         15:					
1013;13:12	walk (2)				3(2)
Wall (2) 38:15;40:2 words (6) wants (1)         82:22;88:3 words (6)         1135 (2) 7:18;19         37:23;40:18;42:4; 49:51,65:50:10,17; 31:22;52:2,613; 31:11;44:13;47:11; 96:10,11         34:11;144:13;47:11; 96:10,11         312 (2)           wastewater (6) 84:5,22;85:21; 68:88:31; 4 water (1)         86:18 worked (1)         21:81;3         37:5;40:13,13         55:12;66:68:68:13; 73:19;22:2,22;23:17         312 (2)         33:10;1					
3815/40-2 works (6)         vords (6)         72:18,19         43:1,11:44:13:47:11;         96:10.11           65:8         56:3,21;77:20         75:79:35:         51:22;52:2,61:31;         34:12,14           84:5,22;85:21;         86:35:18;67:3,82:20, 86:87:1,4         21:85:3         12 (3)         45:12;25:2,26:13;         32:12,15         72:9           86:15         way (13)         working (2)         123 (2)         41:11;42:54:36:11;         34:02         34 (4)         56:20           38:19:40:23         working (2)         123 (2)         41:11;42:54:36:11;         45:02:23;62:22;         34 (4)         56:20           86:15         working (2)         123 (2)         41:11;42:54:36:11;         45:02:23;62:22;         34 (4)         66:7         85:18         29:13         19:23;22:22;22;23;         44:11;42:54:36:11;         36:02         34 (4)         66:7         82:13         19:23;22:22;22;23;         44:11;44:66:15:01;         66:7         66:15         44:11;44:66:15:01;         66:7         44:11;44:62:35:01;         34:12         34:11         34:13         44:11;44:63:37;         44:11;44:62:15:01:01;         36:02         38:02         38:02         38:02         38:02         38:02         38:02         38:02         38:02         38:02         38:02         38:02<	*				
wants (1)         7:17;32:12;37:6;         118 (2)         49:5,16:50:10,17;         31 (2)           63:8         56:3,21;77:20         75:7;93:5         51:2;25:2,6,13;         34:12,14           84:5,22:85:21;         53:18:673;82:20,         12 (3)         37:5;40:13,13         51:2;26:8(8:8);         73:13;78:22,2;81:7         72:9           86:15         85:18         29:13         2009 (17)         33 (1)         56:20           86:15         85:18         29:13         2009 (17)         33 (4)         36 (0)         32:22;23;23;23         34 (4)         60:22,23;62:22;         33 (1)         56:20           98:30         95:51         209:13         33:12,15         44:19:46:21;50:10;         56:20         33 (1)         56:20           98:21;94:23         vorthing (2)         123 (2)         44:11;42:5;43:6,11;         44:19;46:21;50:10;         46:7         20:22;23;81:3         34:14         60:22,23;62:22;         36:6         62:23;38:13         71:5,7,9,11;93:22;         36:16;43:37,14;         36:6         32:20;23;81:3         71:5,7,9,11;93:22;         36:16;43:37,14;         36:6         24:17;25,7;26:5         36:0         24:18;23:19         30:21         20:23         38:2         20:23         38:2         20:23         38:2         39:33					
63:8 wastewater (6) 84:5,22;85:21; 86:8,87:1,4 21:85:3 21:25:3 85:8,87:1,4 21:85:3 122 (5) 85:18 85:18 85:18 92:13 22:21;55:5 33:12,15 34:12,14 312.10 72:9 37:5,40:13,13 73:13,78:22,22;81:7; 82:8 33:10 72:9 36:16,21,23;24:3; 92:8,35:3,9;50:11; 93:12,22:1;55:5 33:12,15 44:19;46:21;50:10; 56:16,21,23;24:3; 92:8,35:3,9;50:11; 93:12,22:1;55:5 33:12,15 44:19;46:21;50:10; 56:20 34:60 60:22,23,62:22; 64:7 36:60 34:60					
wastewater (6)         work (5)         12 (3)         65:12:66:8:68:13;         73:13:78:22.22;81:7;         72:9         33:18:67:3;82:20,         73:13:78:22.22;81:7;         72:9         33:10         42:12:45:13:36:11;         42:12:45:13:36:11;         42:12:45:13:36:11;         42:12:45:13:36:11;         44:11:42:54:34:61;         66:02:23:62:22;         66:02:23:62:22;         66:02:23:62:22;         66:02:23:62:22;         66:02:23:62:22;         66:02:23:62:22;         66:02:23:62:22;         66:02:23:62:22;         66:02:23:62:22;         66:02:23:62:22;         66:02:23:62:22;         66:02:23:62:22;         66:02:23:62:22;         66:02:23:62:22;         36:00         67:12:66:80:22         79:13:13         79:02:23         38:02         19:02:13:13         79:13:14         1					
84:5,22:85:21; 53:18,67:3;82:20, 21:85:3 worked (1) 86:15 worked (1) 86:15 worked (1) 21:13,15;26:7,9; 2009 (17) 33:10, 56:20 34 (4) 66:22,23;62:22; 64:7, 64:7,91:19:32:22,22,23; 44 (4) 66:22,3;62:22; 64:7, 64:7,91:19:32:22,22,23; 44 (4) 66:22,3;62:22; 64:7,91:19:19:19:19:19:19:19:19:19:19:19:19:1					
86:8.87:1.4 water (1) worked (1) 21:13,15;26:7.9; 82:18 2009 (17) 56:20 34 (4) 56:16,21,23;24:3; 29:8,35:3,950:11; 55:5,83:5,85:17; 37:22,38:1,3 71:5,79,11;93:22; 20-page (1) 55:26,14;53:7,14; 36:60 23:3;29:2;32:22; 13 (2) 14:11;42:5,43:6,11; 60:22,23;62:22; 60:22,23:62	` ,				
water (1)         worked (1)         21:13,15;26:7,9; 29:13         2009 (17)         56:20           86:15         85:18 working (2)         29:13         19:23;22:22,22,23; 4:11;25:43:6,11; 60:22,23:62:22; 61:62,23:33:24:5         34 (4)           6:16,21,23;24:3; 29:8353,9:50:11; 55:5,83:5;85:17; 88:21;94:23         worthwhile (3) 37:22;38:1,3 71:25;59:13;13         124 (6) 71:5,7,9,11;93:22; 72:26:5, 10,18;28:19         25:6,14;35:7,14; 36:60         66:022,23:62:22; 64:7,25:7,26:5, 61:7, 64:7         64:1         65:7         7         7 <td></td> <td></td> <td></td> <td></td> <td></td>					
86:15 way (13) way (13) c1:6,21,23;24:3; 298,35:3,9;50:11; 55:5,83:5,85:17; 37:22;38:1,3 38:21,15 44:19,462;15:0:10; 52:4,14;58:7,14; 52:4,14;58:3,7,14; 52:4,14;58:3,7,14; 52:4,14;58:3,7,14; 52:4,14;58:3,7,14; 52:4,14;58:3,7,14; 52:4,14;58:2,15  44:11,42:5,43:6,11; 52:4,14;58:2,15 52:4,14;58:7,14; 52:10 30:21 2010 (3) 18:2;27:7 2012 (2) 4 2013 (1) 20:10 20:12 44:19,462:12,45:12,53:7; 15:14,430:21;51:4 152 (11) 20:12 20:13 20:10 30:21 20:10 30:21 20:10 30:21 20:10 20:12 20:12 20:12 20:12 20:12 20:12 20:12 20:12 20:12 20:13 20:10 30:21 20:10 30:21 20:10 30:21 20:10 20:12					
way (13)         working (2)         123 (2)         41:11:42:5:43:6.11;         60:22,23;62:22;         60:21,23;72:23:16;         70:21,25:74;16;         80:10,18;28:19         30:21         118:3         2010 (3)         80:21         12:14 (10)         12:7:7         30:31         10:22,21         4         4         4         4         4         4         4         4         4         4         4         4					
6.16.21,23:24:3; 29:8;35:3,9;50:11; 88:21;94:23         22:21;55:5 worthwhile (3) 37:22;38:1,3 writing (1) 91:19         33:12,15 124 (6) 94:12         44:19:46:21;50:10; 52:6,14;53:7,14; 54:15;63:22         36 (6) 24:17:25:7;26:5, 10,18;28:19         24:17:25:7;26:5, 10,18;28:19         36 (6) 24:17:25:7;26:5, 10,18;28:19         24:17:25:7;26:5, 10,18;28:19         36 (6) 24:17:25:7;26:5, 10,18;28:19         24:17:25:7;26:5, 10,18;28:19         38 (2) 24:17:25:7;26:5, 10,18;28:19         24:17:25:7;26:5, 10,18;28:19         38 (2) 24:17:25:7;26:5, 10,18;28:19         38 (2) 24:17:25:7;26:5, 10,18;28:19         39 (3) 57:17:62:16,16           Y         30:21         12th (1)         20:23         38 (2) 20:023         38 (2) 20:023         38 (2) 20:023         38 (2) 24:17:25:7;26:5, 10,18;28:19         39 (3)         57:17:62:16,16         44:19:46:21;50:10; 54:15;50:12         20:23         38 (2)         38 (2)         24:17:25:7;26:5, 10,18;28:19         39 (3)         57:17:62:16,16         44:19:46:21;50:10; 55:13,14;29:23         39 (3)         57:17:62:16,16         44:19:46:21;50:10; 55:13,14;29:23         39 (3)         57:17:62:16,16         44:19:46:21;50:10; 55:13,14;29:23         39 (3)         57:17:62:16,16         44:18;20:22         44:18;20:22         44:18;20:22         44:18;24:22         42:12:41:22         42:12:45:12;53:7; 72:17;7:13         4:00 (1)         4:15;10:15;14:17;17:10         4:00 (1)         4:15;10:15;14:17;17:10         4:00 (1) <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
29:8.35:3,9:50:11; 555:5,83.5;85:17; 88:2194:23 wys (1) 81:23 week (1) 29:8 yeek (1) 29:9 19:8 yeer (12) 68:6,95:1 year (12) 77:5,7,9:11;93:22; 15:3,14;29:23 year (12) 77:5,7,9:11;93:22; 15:3,14;29:23 year (12) 77:5,7,9:11;93:22; 15:3,14;29:23 year (12) 77:15,43:0:21;51:4 year (12) 91:10 152 (11) 91:11;51:1; 57:15;72:12;74:6; 83:20,23;84:6;89:18; 94:18 year (5) Whereupon (1) 96:11 year (1) 10:2;51:4,14;68:8; 73:17 year (2) 79:8,21 15th (1) 15:12 15th (1) 15:13 34:18;35:1;55:12, 16(4) 17th (3) 17th (4) 17th (3) 17th (3) 17th (3) 17th (3) 17th (3) 17th (3) 17th (4) 17th (3) 17th (3) 17th (3) 17th (4) 17th (3) 17th (3) 17th (4) 17th (4) 17th (4) 17th (5) 17th (7) 17th (7) 17th (7) 17th (7)					
555:83:5;83:17; 88:21:94:23 ways (1) 81:23 week (1) 35:7 wet (2) 68:6;95:1 what's (11) 9:10,11;51:1; 9:10,11;51:1; 9:11,11;11; 9:10,11;51:1; 94:18 Whereupon (1) 96:11 Whole (3) 96:11 Whole (3) 55:15 Whose (1) 65:15 Whose (1) 65:15 Whose (1) 65:15 Whose (1) 90:12 Wisconsin (2) 79:18,21   Zach (1) 15 (3)  Zach (1) 16 (3) 18:3 18:3 18:3 1910 (3) 18:2023 38 (2) 18:2;27:7 39 (3) 15:13,14;29:23 39 (3) 57:17;62:16,16  2011 (1) 2012 (2) 4 (6) 4(6) 15:14;30:21;51:4 2014 (2) 24:18 24:18 24:18 25:16 25:11 155 (2) 155 (3) 15:14;30:21;51:4 2014 (2) 24:18 24:18 24:19;223 25:16 24:11 200-page (1) 10.18;28:19 38 (2) 18:2;27:7 39 (3) 57:17;62:16,16  4 (6) 4 (6) 4 (6) 4 (6) 4 (6) 4 (7) 20:12 4 (9) 4 (9) 4 (1) 20:12 4 (1) 20:12 15 (3) 15:14;30:21;51:4 20:14 (2) 20:12 15 (3) 15:14;30:21;51:4 20:14 (2) 20:12 15 (3) 15:14;30:21;51:4 20:14 (2) 20:12 15 (3) 15:14;30:21;51:4 20:14 (2) 24:18 24:17;25:7;26:5, 10.18;28:19 39 (3) 57:17;62:16,16  4 (6) 4 (6) 4 (6) 4 (7) 20:12 4 (9) 4 (6) 4 (6) 4 (1) 4 (1) 4 (1) 4 (2) 4 (2) 4 (2) 4 (2) 4 (2) 4 (2) 4 (2) 4 (3) 4 (4) 4 (6) 4 (1) 4 (2) 4 (2) 4 (2) 4 (3) 4 (4) 4 (6)			*		
88:21;94:23 ways (1) ways (1) sl::9       writing (1) 91::19       94:12 200-page (1) 20:23       10,18;28:19       38 (2) 38 (2) 18::29:27:7         week (1) 23:3;29:2;32:22; 19:8       59:19;78:5       15:5;54:15       2011 (1) 5:13,14;29:23       39 (3) 57:17;62:16,16         weren't (1) 35:7       Y       14 (1) 73:21       27:7       2012 (2) 72       4         wet (2) 68:6;95:1       year (12) 7:78:14;18:3,10; 35:17;43:6,9,10; 42:12;45:12;53:7; 2013 (1)       24:18 24:18 22:143:10:15;14:17; 24:18       4:15;10:15;14:17; 24:18       4:15;10:15;14:17; 22:24:34:90:14         what's (11) 9:10,11;51:1; 57:15;72:12;74:6; 83:20,23;84:6;89:18; 94:18       82:16 years (5) 155 (2) 65:11 412 (2) 41:6,7 96:12       20:10 96:12 412 (2) 41:6,7 96:12       42:12;45:12;53:7; 2014 (2) 42:17;33:13 4:00 (1) 96:12       42:0 (1) 96:12 412 (2) 41:6,7 96:12         whole (3) 57:1;84:4;95:5       73:17 year-by-year (1) 155 (2) 65:11 412 (2) 41:6,7 99:15       15:19,18 11 42 (2) 41:6,7 99:15       42:12;19,18 12 12:19,18 12					
ways (1)       91:19       12th (1)       20:23       38 (2)         81:23       wrong (5)       18:3       2010 (3)       18:2;27:7         week (1)       23:3;29:2;32:22;       13 (2)       15:15,14;29:23       39 (3)         19:8       59:19;78:5       14 (1)       27:7       39 (3)         35:7       Y       30:21       2012 (2)       4         wet (2)       77:78:14;18:3,10;       15:14;30:21;51:4       24:18       4:15;10:15;14:17;         95:5,7       35:17;43:6,9,10;       42:12;45:12;53:7;       2013 (1)       4:15;10:15;14:17;         95:5,7       35:17;43:6,9,10;       42:12;45:12;53:7;       2014 (2)       4:15;10:15;14:17;         9:10,11;51:1;       72:3;82:19;83:14;       61:7,10,19,20;62:7,       72:1;73:13       4:00 (1)         9:10,11;51:1;       84:13       10,10;64:11       20-9 (1)       96:12       4:00 (1)         83:20,23;84:6;89:18;       94:18       years (5)       159 (3)       4:15;10:14       420 (1)         Whereupon (1)       96:11       years (5)       159 (3)       4:15;10:14       420 (1)         96:11       years (5)       15ch (1)       10:6       43 (1)         whole (3)       year (2)       96:8       <					
81:23 week (1)         wrong (5)         18:3 (2)         2010 (3)         18:2;27:7           week (1)         23:3;29:2;32:22;         13 (2)         15:13,14;29:23         39 (3)           weren't (1)         35:7         Y         30:21         2012 (2)         4           wet (2)         68:6;95:1         year (12)         15:(3)         10:2;5         2013 (1)         4 (6)           WFGD (2)         7:7;8:14;18:3,10;         35:17;43:6,9,10;         45:2 (11)         24:18         4:15;10:15;14:17;           95:5,7         35:17;43:6,9,10;         42:12;45:12;53:7;         2014 (2)         4:22;43:490:14           9:10,11;51:1;         84:13         10:10;64:11         155 (2)         72:1;73:13         4:00 (1)           9:10,11;51:1;         84:13         10:10;64:11         20:9 (1)         96:12           9:10,11;51:1;         84:13         155 (2)         61:7,10,19,20;62:7,         72:1;73:13         4:00 (1)           9:10,11;51:1;         84:13         10:2;51:4,14;68:8;         155 (2)         65:11         412 (2)         42:2;43:490:14           99:11         82:16         30:5,21         21 (2)         4:15;10:14         420 (1)           Whore (3)         79:18,21         15th (1)         10:6<					
week (1)         23:3;29:2;32:22;         13 (2)         15:13,14;29:23         39 (3)         57:17;62:16,16           weren't (1)         35:7         Y         14 (1)         20:12 (2)         4           wet (2)         68:6;95:1         year (12)         15:13,14;30:21;51:4         20:12 (2)         4           WFGD (2)         7:7;8:14;18:3,10;         15:2 (11)         24:18         4:15;10:15;14:17;           95:5,7         35:17;43:6,9,10;         42:12;45:12;53:7;         61:7,10,19,20;62:7,         72:1;73:13         4:00 (1)           9:10,11;51:1;         84:13         10,16;64:11         20-9 (1)         96:12         4:15;10:15;14:17;           94:18         year-by-year (1)         155 (2)         30:5,21         21 (2)         41:6,7           96:11         73:17         yesterday (2)         96:8         15-minute (1)         20:12         42:12;41:4;68:8;         12:1,9,18         21:1,9,18         21:1,2 (1)         79:15           Whose (1)         25:15         Z         160 (4)         34:18;35:1;55:12,         43:1(1)           65:15         Z         160 (4)         33:17;16:21;17:10,         42:12;17:10,         62:2         23-2(1)         470 (1)           wishin (1)         65:7         7 <td></td> <td></td> <td></td> <td></td> <td></td>					
19:8   59:19;78:5   15:5;54:15   2011 (1)   27:7   30:21   20:12   20:25   4   4   57:17;62:16,16					
weren't (1)         35:7         Y         30:21         2012 (2)         4           wet (2)         68:6;95:1         year (12)         15 (3)         10:2,5         2013 (1)         4 (6)           WFGD (2)         7:7;8:14;18:3,10;         35:17;43:6,9,10;         42:12;45:12;53:7;         2013 (1)         4 (6)           what's (11)         72:3;82:19;83:14;         42:12;45:12;53:7;         2014 (2)         42:22;43:4;90:14           9:10,11;51:1;         84:13         10,10;64:11         20-9 (1)         96:12         42:0 (1)           94:18         82:16         30:5,21         21 (2)         41:6,7         42:22;43:4;90:14           Whereupon (1)         96:11         73:17         73:17         159 (3)         4:15;10:14         420 (1)         420 (1)           96:11         73:17         10:2;51:4,14;68:8;         15-9 (3)         4:15;10:14         420 (1)         79:15           96:11         73:17         79:18,21         15th (1)         34:18;35:1;55:12,         43 (1)         49:15           Whose (1)         65:15         Z         160 (4)         23:41         470 (1)         80:3           45:12         79:18,21         17 (2)         52:2         54:6;68:13         24 (1)					
35:7 wet (2) (88:6;95:1)         year (12)         15 (3)         2012 (2)         4           68:6;95:1         year (12)         7:7;8:14;18:3,10;         15:14;30:21;51:4         2013 (1)         4 (6)           WFGD (2)         7:7;8:14;18:3,10;         35:17;43:6,9,10;         42:12;45:12;53:7;         2014 (2)         4:15;10:15;14:17;           95:5,7         35:17;43:6,9,10;         42:12;45:12;53:7;         2014 (2)         42:22;43:4;90:14           9:10,11;51:1;         84:13         10,10;64:11         20-9 (1)         96:12           97:15;72:12;74:6;         82:16         30:5,21         21 (2)         41:6,7           83:20,23;84:6;89:18;         94:18         years (5)         159 (3)         4:15;10:14         420 (1)           96:11         10:2;51:4,14;68:8;         12:1,9,18         2-1/2 (1)         79:15           96:11         73:17         yesterday (2)         96:8         23 (4)         89:19           57:1;84:4;95:5         79:18,21         15th (1)         34:18;35:1;55:12,         431 (1)           Whose (1)         20:12         Zach (1)         13:17;16:21;17:10,         6:22         92:4           20:12         71:18;73:4         90:7         79:13         32:7         92:5		59:19;78:5			57:17;62:16,16
wet (2)         gear (12)         15 (3)         10:2,5         4 (6)           WFGD (2)         7:7;8:14;18:3,10;         35:17;43:6,9,10;         42:12;45:12;53:7;         24:18         4:15;10:15;14:17;           95:5,7         35:17;43:6,9,10;         42:12;45:12;53:7;         2014 (2)         42:22;43:4;90:14           9:10,11;51:1;         84:13         year-by-year (1)         83:20,23;84:6;89:18;         year-by-year (1)         30:5,21         21 (2)         41:6,7           83:20,23;84:6;89:18;         year (5)         10:2;51:4,14;68:8;         12:1,9,18         2-1/2 (1)         79:15           96:11         73:17         yesterday (2)         96:8         23 (4)         89:19           96:15         79:18,21         15th (1)         34:18;35:1;55:12,         470 (1)           Whose (1)         79:18,21         15(0)         34:18;35:1;55:12,         470 (1)           win (1)         20:12         Zach (1)         13:17;16:21;17:10,         6:22         92:4           Wisconsin (2)         71:18;73:4         17(2)         79:13         92:5           90:7         54:6;68:13         24 (1)         486 (1)           Wisconsin (2)         0         17th (3)         32:7         69:5           79:1		<b>T</b> 7			
68:6;95:1         year (12)         7:7;8:14;18:3,10; 35:17;43:6,9,10; 35:17;43:6,9,10; 72:3;82:19;83:14; 84:13         15:14;30:21;51:4 42:12;53:7; 2014 (2)         2013 (1) 24:18         4 (6) 24:18         4 (6) 24:18         4:15;10:15;14:17; 41:17; 42:12;53:7; 2014 (2)         4:15;10:15;14:17; 42:2;43:4;90:14         4:15;10:15;14:17; 42:2;43:4;90:14         4:10 (1) 24:18         4:15;10:15;14:17; 42:2;43:4;90:14         4:15;10:15;14:17; 42:2;43:4;90:14         4:10 (1) 24:18         4:15;10:15;14:17; 42:2;43:4;90:14         4:10 (1) 24:18         4:15;10:14         4:15;10:15;14:17; 42:2;43:4;90:14         4:15;10:15;14:17; 42:2;43:4;90:14         4:15;10:15;14:17; 42:2;43:4;90:14         4:10 (1) 96:12         96:12         4:16;7         4		Y			4
WFGD (2)         7:7;8:14;18:3,10;         35:17;43:6,9,10;         42:12;45:12;53:7;         24:18         4:15;10:15;14:17;         42:22;43:4;90:14         42:22;43:4;90:14         42:22;43:4;90:14         42:22;43:4;90:14         42:22;43:4;90:14         42:22;43:4;90:14         42:22;43:4;90:14         42:22;43:4;90:14         42:22;43:4;90:14         400 (1)         42:22;43:4;90:14         400 (1)         42:22;43:4;90:14         400 (1)         42:22;43:4;90:14         400 (1)         42:22;43:4;90:14         400 (1)         96:12         57:15;72:12;73:13         400 (1)         96:12         57:15;72:12;73:13         400 (1)         96:12         57:15;72:12;73:13         410 (1)         410 (1)         96:12         57:11         410 (1)         96:12         41:6,7         41:6,7         420 (1)         41:6,7         420 (1)         420		(12)			
95:5,7 what's (11) 9:10,11;51:1; 9:10,11;51:1; 83:20,23;84:6;89:18; 94:18 Whereupon (1) 96:11 Whole (3) 57:184:4;95:5 77:184:4;95:5 77:184:4;95:5 77:184:4;95:5 77:184:4;95:5 77:184:4;95:5 77:187:7 79:182:4 79:182 70:19 79:15 70:10 70:1					
what's (11)       72:3;82:19;83:14;       61:7,10,19,20;62:7, 10,19,20;62:7, 10,10;64:11       72:1;73:13       4:00 (1)         9:10,11;51:1;       57:15;72:12;74:6;       84:13       year-by-year (1)       155 (2)       65:11       412 (2)         83:20,23;84:6;89:18;       94:18       years (5)       159 (3)       4:15;10:14       420 (1)         Whereupon (1)       10:2;51:4,14;68:8;       12:1,9,18       2-1/2 (1)       79:15         96:11       73:17       15-minute (1)       10:6       43 (1)         whole (3)       yesterday (2)       96:8       23 (4)       89:19         57:1;84:4;95:5       79:18,21       15th (1)       34:18;35:1;55:12,       431 (1)         Whose (1)       56:15       Z       160 (4)       23-15 (1)       447 (1)         willing (1)       20:12       Zach (1)       13:17;16:21;17:10,       6:22       92:4         20:12       Zach (1)       13:17 (2)       79:13       92:5         90:7       54:6;68:13       24 (1)       486 (1)         Wisconsin (2)       0       17th (3)       32:7       69:5         71:18;73:4       94:4       40:16       25th (3)       493 (3)         89:12,13;74:4       40:16       25th (					
9:10,11;51:1; 57:15;72:12;74:6; 83:20,23;84:6;89:18; 94:18  Whereupon (1) 96:11 73:17 71:18;43:4;95:5  Whose (1) 65:15  Willing (1) 20:12  Wisconsin (2) 71:18;73:4  wished (1) 5:22 within (4) 68:3;76:14;82:7;  10,10;64:11 155 (2) 30:5,21 21 (2) 41:6,7 420 (1) 65:11 21:19,18 12:1,9,18 10:6 43 (1) 43 (1) 43 (1) 43 (1) 447 (1) 6:22 92:4 423-2 (1) 470 (1) 79:13 92:5 46:668:13 17th (3) 32:7 92:5  493 (3) 493 (3) 493 (3) 497 (2) 38:11,13					
57:15;72:12;74:6; 83:20,23;84:6;89:18; 94:18       year-by-year (1) 82:16 years (5)       155 (2) 30:5,21       65:11 21 (2)       412 (2) 41:6,7         Whereupon (1) 96:11       10:2;51:4,14;68:8; 73:17       159 (3) 10:2;51:4,14;68:8; 73:17       159 (3) 12:1,9,18       2-1/2 (1) 10:6       79:15         whole (3) 57:1;84:4;95:5       yesterday (2) 79:18,21       96:8 15th (1) 15:12       23 (4) 15:12       89:19 34:18;35:1;55:12, 16       89:19 34:18;35:1;55:12, 16       80:3 431 (1)         65:15 willing (1) 20:12       Zach (1) 65:7       13 17 (2) 54:6;68:13       23-15 (1) 23-15 (1) 79:13       447 (1) 470 (1) 79:13         Wisconsin (2) 71:18;73:4 wished (1) 5:22       0 94:4 94:4       17th (3) 19:9;21:11;66:8 40:16       25 (3) 40:16;41:1;78:22 25th (3) 79:4,5;81:7       493 (3) 497 (2) 38:11,13         within (4) 68:3;76:14;82:7;       08 (11) 14:19;16:7,10;       2       26 (1)					, ,
83:20,23;84:6;89:18; 94:18       82:16 years (5)       30:5,21 159 (3)       4:15;10:14 420 (1)         Whereupon (1) 96:11       10:2;51:4,14;68:8; 73:17       15:minute (1) 10:6 43 (1)       79:15 43 (1)         whole (3) yesterday (2) 57:1;84:4;95:5       79:18,21       15th (1) 34:18;35:1;55:12, 431 (1)       89:19 34:18;35:1;55:12, 431 (1)         Whose (1) 65:15       Z       160 (4) 23-15 (1) 447 (1)       80:3 447 (1)         willing (1) 20:12 win (1) 90:7       Zach (1) 17 (2) 79:13 92:5 92:5 92:5 92:5 92:5 92:5 92:5 92:5				, ,	
94:18       years (5)       159 (3)       4:15;10:14       420 (1)         Whereupon (1)       10:2;51:4,14;68:8;       73:17       79:15         whole (3)       yesterday (2)       96:8       23 (4)       89:19         57:1;84:4;95:5       79:18,21       15th (1)       34:18;35:1;55:12,       431 (1)         Whose (1)       2       15:12       16       80:3         65:15       2       160 (4)       23-15 (1)       447 (1)         willing (1)       13:17;16:21;17:10,       6:22       92:4         20:12       2ach (1)       13       23-2 (1)       470 (1)         win (1)       65:7       17 (2)       79:13       92:5         54:6;68:13       24 (1)       486 (1)         71:18;73:4       19:9;21:11;66:8       32:7       69:5         wished (1)       94:4       40:16       25th (3)       493 (3)         within (4)       68:3;76:14;82:7;       14:19;16:7,10;       2       26 (1)	57:15;72:12;74:6;	year-by-year (1)			412 (2)
Whereupon (1)       10:2;51:4,14;68:8;       12:1,9,18       2-1/2 (1)       79:15         96:11       73:17       96:8       23 (4)       89:19         57:1;84:4;95:5       79:18,21       15th (1)       34:18;35:1;55:12,       431 (1)         Whose (1)       20:12       160 (4)       23-15 (1)       447 (1)         willing (1)       20:12       2ach (1)       13       23-2 (1)       470 (1)         90:7       17 (2)       79:13       92:5         Wisconsin (2)       54:6;68:13       24 (1)       486 (1)         71:18;73:4       94:4       18 (1)       40:16;41:1;78:22       69:12,13;74:4         wished (1)       94:4       40:16       25th (3)       497 (2)         within (4)       08 (11)       79:4,5;81:7       38:11,13         68:3;76:14;82:7;       14:19;16:7,10;       2       26 (1)	83:20,23;84:6;89:18;	82:16		21 (2)	41:6,7
96:11       73:17       15-minute (1)       10:6       43 (1)         whole (3)       yesterday (2)       96:8       23 (4)       89:19         57:1;84:4;95:5       79:18,21       15th (1)       34:18;35:1;55:12,       431 (1)         Whose (1)       2       15:12       16       80:3         65:15       Z       160 (4)       23-15 (1)       447 (1)         willing (1)       13:17;16:21;17:10,       6:22       92:4         20:12       Zach (1)       13       23-2 (1)       470 (1)         win (1)       65:7       17 (2)       79:13       92:5         90:7       54:6;68:13       24 (1)       486 (1)         Wisconsin (2)       71:18;73:4       19:9;21:11;66:8       25 (3)       493 (3)         wished (1)       94:4       40:16       25th (3)       497 (2)         within (4)       08 (11)       79:4,5;81:7       38:11,13         68:3;76:14;82:7;       14:19;16:7,10;       2       26 (1)					
96:11       73:17       yesterday (2)       96:8       10:6       43 (1)         57:1;84:4;95:5       79:18,21       15th (1)       34:18;35:1;55:12,       431 (1)         Whose (1)       2       15th (1)       34:18;35:1;55:12,       431 (1)         Whose (1)       15:12       16       80:3         65:15       Z       160 (4)       23-15 (1)       447 (1)         willing (1)       13:17;16:21;17:10,       6:22       92:4         23-2 (1)       470 (1)       470 (1)         win (1)       65:7       17 (2)       79:13       92:5         90:7       54:6;68:13       24 (1)       486 (1)         Wisconsin (2)       19:9;21:11;66:8       25 (3)       493 (3)         wished (1)       94:4       40:16       25th (3)       497 (2)         within (4)       08 (11)       79:4,5;81:7       38:11,13         68:3;76:14;82:7;       14:19;16:7,10;       2       26 (1)	Whereupon (1)	10:2;51:4,14;68:8;			79:15
whole (3)       yesterday (2)       96:8       23 (4)       89:19         57:1;84:4;95:5       79:18,21       15th (1)       34:18;35:1;55:12,       431 (1)         Whose (1)       2       15:12       16       80:3         65:15       2       160 (4)       23-15 (1)       447 (1)         willing (1)       13:17;16:21;17:10,       6:22       92:4         20:12       2ach (1)       13       23-2 (1)       470 (1)         win (1)       65:7       17 (2)       79:13       92:5         90:7       54:6;68:13       24 (1)       486 (1)         Wisconsin (2)       0       17th (3)       32:7       69:5         71:18;73:4       94:4       40:16       25 (3)       493 (3)         wished (1)       94:4       40:16       25th (3)       497 (2)         within (4)       08 (11)       79:4,5;81:7       38:11,13         68:3;76:14;82:7;       14:19;16:7,10;       2       26 (1)					
57:1;84:4;95:5       79:18,21       15th (1)       34:18;35:1;55:12,       431 (1)         Whose (1)       15:12       16       80:3         65:15       Z       160 (4)       23-15 (1)       447 (1)         willing (1)       13:17;16:21;17:10,       6:22       92:4         yein (1)       23-2 (1)       470 (1)         yein (1)       65:7       17 (2)       79:13       92:5         yein (2)       54:6;68:13       24 (1)       486 (1)         yein (2)       71:18;73:4       19:9;21:11;66:8       25 (3)       493 (3)         wished (1)       94:4       40:16       25th (3)       497 (2)         within (4)       08 (11)       79:4,5;81:7       38:11,13         68:3;76:14;82:7;       14:19;16:7,10;       2       26 (1)	whole (3)		` /	23 (4)	
Whose (1)     Z     15:12     16     80:3       willing (1)     20:12     Zach (1)     13:17;16:21;17:10,     6:22     92:4       win (1)     65:7     17 (2)     79:13     92:5       90:7     54:6;68:13     24 (1)     486 (1)       Wisconsin (2)     17th (3)     32:7     69:5       71:18;73:4     19:9;21:11;66:8     25 (3)     493 (3)       wished (1)     94:4     40:16     25th (3)     497 (2)       within (4)     08 (11)     79:4,5;81:7     38:11,13       68:3;76:14;82:7;     14:19;16:7,10;     2     26 (1)	57:1;84:4;95:5	79:18,21	15th (1)	34:18;35:1;55:12,	431 (1)
65:15     Z     160 (4)     23-15 (1)     447 (1)       willing (1)     13:17;16:21;17:10,     6:22     92:4       win (1)     23-2 (1)     470 (1)       win (1)     65:7     17 (2)     79:13     92:5       90:7     54:6;68:13     24 (1)     486 (1)       Wisconsin (2)     17th (3)     32:7     69:5       71:18;73:4     19:9;21:11;66:8     25 (3)     493 (3)       wished (1)     94:4     40:16     25th (3)     497 (2)       within (4)     08 (11)     79:4,5;81:7     38:11,13       68:3;76:14;82:7;     14:19;16:7,10;     2     26 (1)		,		16	
willing (1)       20:12       Zach (1)       13:17;16:21;17:10,       6:22       92:4         win (1)       65:7       17 (2)       79:13       92:5         90:7       54:6;68:13       24 (1)       486 (1)         Wisconsin (2)       17th (3)       32:7       69:5         71:18;73:4       19:9;21:11;66:8       25 (3)       493 (3)         wished (1)       94:4       40:16       25th (3)       497 (2)         within (4)       08 (11)       79:4,5;81:7       38:11,13         68:3;76:14;82:7;       14:19;16:7,10;       2       26 (1)		$\mathbf{Z}$	160 (4)	23-15 (1)	
20:12	willing (1)				
win (1)       65:7       17 (2)       79:13       92:5         90:7       54:6;68:13       24 (1)       486 (1)         Wisconsin (2)       17th (3)       32:7       69:5         71:18;73:4       19:9;21:11;66:8       25 (3)       493 (3)         wished (1)       94:4       40:16       25th (3)       497 (2)         within (4)       08 (11)       79:4,5;81:7       38:11,13         68:3;76:14;82:7;       14:19;16:7,10;       2       26 (1)		Zach (1)			
90:7 Wisconsin (2) 71:18;73:4 wished (1) 5:22 within (4) 68:3;76:14;82:7;  90:7  54:6;68:13 17th (3) 19:9;21:11;66:8 19:9;21:11;66:8 18 (1) 18 (1) 486 (1) 69:5 493 (3) 493 (3) 40:16;41:1;78:22 25th (3) 79:4,5;81:7 26 (1)  24 (1) 32:7 486 (1) 69:5 493 (3) 497 (2) 38:11,13	win (1)				
Wisconsin (2)     0     17th (3)     32:7     69:5       71:18;73:4     19:9;21:11;66:8     25 (3)     493 (3)       wished (1)     18 (1)     40:16;41:1;78:22     69:12,13;74:4       5:22     94:4     40:16     25th (3)     497 (2)       within (4)     08 (11)     79:4,5;81:7     38:11,13       68:3;76:14;82:7;     14:19;16:7,10;     2     26 (1)					
71:18;73:4 wished (1) 5:22 94:4 008 (11) 68:3;76:14;82:7;  19:9;21:11;66:8 18 (1) 18 (1) 40:16;41:1;78:22 25th (3) 79:4,5;81:7 26 (1)  493 (3) 69:12,13;74:4 497 (2) 38:11,13	Wisconsin (2)	0			
wished (1)     000493 (1)     18 (1)     40:16;41:1;78:22     69:12,13;74:4       5:22     94:4     40:16     25th (3)     497 (2)       within (4)     08 (11)     79:4,5;81:7     38:11,13       68:3;76:14;82:7;     14:19;16:7,10;     2     26 (1)					
5:22 94:4 40:16 <b>25th (3)</b> 79:4,5;81:7 <b>497 (2)</b> 68:3;76:14;82:7; 14:19;16:7,10; <b>2 25th (3)</b> 79:4,5;81:7 <b>26 (1)</b>	wished (1)	000493 (1)			` '
<b>within (4)</b> 68:3;76:14;82:7;  08 (11) 14:19;16:7,10;  2 79:4,5;81:7 26 (1)	, ,	` ′			
68:3;76:14;82:7; 14:19;16:7,10; <b>2 26</b> (1)	within (4)				
			2		, i

	AND COST RECOVERY						
-							
5	9						
5 (15)	9 (2)						
38:8,11,17;40:6,13,	66:3,5						
16;41:1;68:21;70:6;	9:00 (1)						
71:23;72:4;75:15;	54:15						
04.9 19.05.12							
94:8,18;95:13	90 (1)						
5:30 (1)	95:7						
96:9	992 (3)						
525 (5)	4:17;5:2;11:14						
70:16,20;94:9,20;							
95:13							
(							
6							
( (B)							
6 (7)							
7:7;34:10;71:23;							
72:4;94:19;95:13;							
96:14							
6-201 (2)							
89:20;90:8							
<b>6-202 (1)</b> 33:10							
<b>63 (1)</b> 37:5							
<b>638 (1)</b> 18:2							
662 (2)							
15:8,15							
663 (1)							
15:19							
668 (1)							
7:2							
682 (2)							
74:16,19							
7 1.10,17	_						
7							
	-						
7 (4)							
7:8,9;71:23;72:4							
72 (2)							
32:7;35:11							
73 (4)							
12:5,10;32:8;35:11							
<b>75</b> (3)							
8:19;32:18,19							
<b>75-percent</b> (1)							
8:19							
774 (2)							
72:19;74:12							
	1						
8							
	1						
8 (4)							
70:6;71:23;72:4;							
94:8							
8/8/2014 (1)							
90:12							
88 (2)							
34:17,22							
8th (1)							
41:11							
-	1	I	1	<u> </u>			