## In Re:

DE 10-195
PSNH/LAIDLAW BERLIN BIOPOWER

## DAY 5-AFTERNOON SESSION ONLY <br> February 8, 2011

STEVEN E. PATNAUDE, LCR NO. 52

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| State of new hampshire <br> pUBLIC UTILITIES COMMISSION <br> February 8, 2011-2:08 p.m. <br> DAY 5 Concord, New Hampshire <br> AFTERNOON SESSION ONLY <br> RE: DE 10-195 <br> PUBLIC SERVICE CO. OF NEW HAMPSHIRE: <br> Petition for Approval of Power <br> Purchase Agreement between PSNH <br> and Laidlaw Berlin BioPower, LLC. <br> PRESENT: Chairman Thomas B. Getz, Presiding Commissioner Clifton C. Below Commissioner Amy L. Ignatius <br> Sandy Deno, Clerk <br> APPEARANCES: Reptg. Public Service Co. of New Hampshire: Robert A. Bersak, Esq. <br> Reptg. the City of Berlin: <br> Christopher Boldt, Esq. (Donahue, Tucker...) Keriann Roman, Esq. (Donahue, Tucker...) <br> Keriann Roman, Esq. (Donahue, Tucker...) <br> Reptg. Bridgewater Power, Pinetree Power, Pinetree Power-Tamworth, DG Whitefield Power, Springfield Power \& Indeck Energy-Alexandria: David J. Shulock, Esq. (Brown, Olson \& Gould) <br> Reptg. Clean Power Development: <br> James T. Rodier, Esq. <br> Reptg. Edrest Properties, LLC: <br> Jonathan Edwards <br> COURT REPORTER: Steven E. Patnaude, LCR No. 52 |  |
| ```APPEARANCES: (Con t in u e d) Reptg. Residential Ratepayers: Meredith Hatfield, Esq., Consumer Advocate Kenneth E. Traum, Asst. Consumer Advocate Office of Consumer Advocate Reptg. PUC Staff: Suzanne G. Amidon, Esq. Edward N. Damon, Esq. Thomas C. Frantz, Director/Electric Div. George R. McCluskey, Electric Division``` | PROCEEDING <br> (Hearing resumed at 2:08 p.m.) <br> CHAIRMAN GETZ: Okay. We're back on the <br> record in DE 10-195. Anything to address before we turn to Mr. Bersak? <br> MS. HATFIELD: Mr. Chairman, I can <br> report that I've spoken with all of the parties about the need for briefs or request for briefs. And, I think it's fair to say that the parties, other than Staff, Staff, I understand, is not taking a position, but I think it's fair to say that the other parties agree that, in light of potential time delays that a briefing schedule could create, as well as the expense of briefs, that the parties, other than Staff, will not be asking for briefs and don't believe that they're necessary. But, of course, the Commission has the discretion to request them. <br> CHAIRMAN GETZ: Okay. Then, of course, <br> the notion would be closing statements, without briefs, from a substantial majority of the parties? <br> MS. HATFIELD: Yes. <br> CHAIRMAN GETZ: Okay. Which I would <br> take that the closing statements would be of some length. <br> 23 I'm thinking to the issue of whether we're going to get <br> 24 done today, or I think our schedule is open tomorrow, if |

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But let me put all that aside for now, and move ahead with cross-examination and see where we are. But, Ms. Amidon?

MS. AMIDON: If I may, there's a representative from Councilor Burton's office in the room, and she did provide prior to -- right at the lunch break a copy of an additional letter from Councilor Burton. So, you will find that in the file. We have arranged for it to be filed in the Docketbook. And, I just wanted to point that out to you, that there is an additional filing in there.

CHAIRMAN GETZ: Okay. Thank you. Anything else?
(No verbal response)
CHAIRMAN GETZ: All right. Mr. Bersak.
MR. BERSAK: Thank you, Mr. Chairman. Good afternoon, Mr. McCluskey.

WITNESS McCLUSKEY: Good afternoon. MR. BERSAK: And, Mr. Frantz.
WITNESS FRANTZ: Good afternoon.
CROSS-EXAMINATION (resumed)




Purchase Agreement which we filed here for approval?
Q. And, is it also true, you're not a logger, but you do own a chainsaw?
A. (Franz) True.

You described the use of the NIMS II model as an input/output model. Am I correct in my understanding of that that you input various economic assumptions, and then the model then predicts certain output economic results?
relationships of an economy. It portrays what industries purchase directly from other industries, as well as what households purchase as final demand. And, through the use of an input/output model, which includes a lot of other actual matrices, you get multiplier effects that show what an increase in $\$ 1$ million worth of final demand will actually require from the particular industry, as well as the other industries upstream from that industry.
able to get through you very quickly here. Is it correct to say that your testimony was limited to a discussion of the economic benefits of the Power
we had to come back tomorrow.

7 A. (Frantz) The relationships in input/output are highly

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| 1 | that from now through 2025 that there will be |  |
| :--- | :--- | :--- |
| 2 |  | sufficient Class I RECs produced to satisfy the RPS |
| 3 |  | needs throughout the region? |
| 4 | A. | (Frantz) I haven't done that analysis. And, I believe |
| 5 |  | that's probably question better for Mr. McCluskey. |
| 6 | Q. | But is it possible that there may not be enough RECs |
| 7 |  | generated to satisfy the legal demands in the region? |
| 8 | A. | (Frantz) Again, I think that's a question that's |
| 9 |  | contained in Mr. McCluskey's testimony. |
| 10 | Q. | Are you familiar with any new plants actually being |
| 11 |  | constructed in the region that would supply Class I |
| 12 |  | RECs? |
| 13 | A. | (Frantz) Biomass facilities or others? |
| 14 | Q. | Either one. |
| 15 | A. | (Frantz) Well, obviously, there's some wind projects |
| 16 |  | that are getting built that would qualify for Class I |
| 17 |  | RECs. |
| 18 | Q. | Do wind projects provide a substantial number of RECs, |
| 19 |  | as compared to, say, a biomass plant? |
| 20 | A. | (Frantz) It depends on the capacity factor. Most wind |
| 21 | facilities have a capacity factor somewhere between the |  |
| 22 | high 20s and very low 30s for onshore, and offshore is |  |
| 23 | probably in the 40s. |  |
| 24 | Q. You were asked this morning by Mr. Edwards about the |  |

Page 10
Q. With only a small piece of Alexandria I believe that's
qualified for Class I?
A. (Frantz) Correct.
Q. If the REC value forecast in Mr. McCluskey's testimony was, for whatever reason, incorrect, wouldn't that have an impact on the input/output model results that you performed and enhance on your testimony?
A. (Frantz) Well, to the extent that the variables that go into the input/output change. For example, if there's less over-market costs to ratepayers in the State of New Hampshire, that would affect what those multipliers are for income and output and potentially jobs. And, to the degree that they're higher than what I looked at, likewise, they would have greater effect on loss of jobs and output.
Q. Over again on Page 6 of your testimony, down on Line 20, you testified that, "Stated another way, creating a subsidy for this project or any other, for that matter, doesn't create wealth for the economy as a whole. It simply transfers wealth. Above market payments for electricity leave the total electricity-using group
"existing wood plants". By and large, do those plants produce Class I RECs?
Q. With only a small piece of Alexandria I believe that's qualified for Class I?
A. (Frantz) Correct.

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| 1 | analysis of the PPA "is whether the PPA prices reflect |
| :--- | :--- |
| 2 | the lowest prices necessary for the facility to receive |
| 3 | financing and earn a reasonable return." Is that |
| 4 | correct? |
| 5 | A. |
| 6 | (McCluskey) That's correct. |
| 7 | Thank you. So, it seems that you agree that the |
| 8 | ability to receive financing is a crucial element of |
| 9 | whether a PPA meets the public interest, is that |
| 10 | A.(McCluskey) If a particular project cannot be financed, <br> 11 |
| 12 | there would be little point in spending time reviewing |
| 13 | it. So, yes, if the goal is to develop renewable |
| 14 | resources through long-term contracts, then one of the |
| 15 | issues that has to be addressed is whether the project |
| 16 | Q. |

Page 14
A. (McCluskey) Certainly, no project that I'm familiar with is financed 100 percent with equity, at least no renewable project.
Q. I reviewed your biography or your resumé at GRM-1, and I don't see any listing of experience of working for a developer, such as Laidlaw. Do you have such experience working for a developer?
A. (McCluskey) I don't. No.
Q. Have you ever dealt directly with investment bankers on behalf of a developer to obtain financing for a new project?
A. (McCluskey) No, I have not.
Q. Mr. McCluskey, you're probably aware that the Commission opened a docket involving a complaint against Public Service Company of New Hampshire, Docket Number DE 09-067, involving Clean Power Development and Concord Steam?
A. (McCluskey) I'm aware of it, but that's probably the extent of my knowledge. I certainly have not read any materials from that particular filing.
Q. And, both of those entities, both Concord Steam and Clean Power Development, are or were full party intervenors in this proceeding, is that correct?
A. (McCluskey) They were. That's correct.
Q. Would it surprise you that a key basis of Concord -- of Clean Power Development's complaint initiating that docket was that, without a PPA, they cannot get financing for their project?
A. (McCluskey) As I said, I wasn't -- I'm not familiar with any of the materials that are submitted in that docket.
Q. On Page 9, at Line 8, of your testimony you discuss your view of the cost of the PPA. You answer the question "Could the final price tag be higher?" And, your response was "It could." Let me ask the other question. Could the final price tag be lower?
A. (McCluskey) Yes. I believe what I was referring to there, with regard to it being higher, the price tag being the total cost paid by PSNH over of the term of the agreement. Clearly, the more megawatt-hours generated by the project, the greater will be the payments by PSNH. That will depend critically on capacity factor, the actual capacity factor of the facility. So, to the extent that increase is relative to the 87.5 that we've used in our analysis, then the costs will go up. If the actual capacity factor is lower, the total costs will go down over the 20 -year term.

Page 16
Q. And, if wood prices decreased?
A. (McCluskey) If wood prices decreased relative to the $\$ 34$, again, on average, over the 20 -year term, then, yes, there would be a reduction in the total price tag.
Q. So, prices could be higher, prices could be lower, correct?
A. (McCluskey) That's right.
Q. And, we really don't know where the prices are going to be, do we?
A. (McCluskey) Well, the Company did do -- did develop the indicative prices for energy from the assumption that fuel prices would grow over time at a 2.5 percent per annum. Now, --
Q. That would -- I'm sorry.
A. (McCluskey) If I could finish. Clearly, if they grow less faster or if they decline, then, obviously, the energy prices will move in the same relationship.
Q. And, those "if"s that you just mentioned, there are certainly possibilities?
A. (McCluskey) It's possible that fuel costs would go down. I'm not sure whether anybody's really expecting or projecting that, but it's possible.
Q. Under the PPA, is it your understanding that the energy price is composed of a Base Energy Charge and a Wood

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| 1 | Price Adjustment? |
| :--- | :--- |
| 2 | A. (McCluskey) There's three components to the energy |
| 3 | price. There's the fuel component, fuel costs, which |
| 4 | I've said is assumed to start at \$34, and increase over |
| 5 | time. There's an O\&M component. And, the fuel |
| 6 | component also can increase, depending on how Schiller |
| 7 | costs vary, relative to the base price. So, there's |
| 8 | essentially three components. There's the fuel |
| 9 | adjustment, the fuel, base fuel cost, and there's the |
| 10 | O\&M component of the energy price. |
| 11 | Q. I believe you're talking about somewhere around Page 15 |
| 12 | of your testimony, where you state your view that |
| 13 | "\$21.80 per megawatt-hour" of the energy price is a |
| 14 | constant amount that "does not change over the term and |
| 15 | appears to represent the levelized charge that will |
| 16 | collect over the 20-year term the estimated O\&M costs |
| 17 | for the facility." |
| 18 | A.(McCluskey) What page was this? <br> 19 Q. I believe it's on Page 15, Line 7. |
| 20 | A.(McCluskey) I don't believe it's there. <br> 21 Q. Let's see. How about -- oh, Page 7, Line 15. |
| 22 | Sometimes I'm dyslexic when I write down my references. |
| 23 | Page 7, Line 15. I'm sorry, Mr. McCluskey. And, |
| 24 | you're talking about the O\&M charges, that's the |

Page 18
$1 \quad$ " $\$ 21.80$ per megawatt-hour" that's on lane?
A. (McCluskey) That's correct, yes.
Q. You acknowledge on I believe it's Page 6 [33?], Line 33 [6?], that Laidlaw is subject to the risk that O\&M costs will rise more than they expect", correct?
A. (McCluskey) Yes. Because there is no tracker on O\&M costs, like there is on fuel costs, this fixed O\&M component could actually turn out to be higher or lower than actual O\&M costs, so there's a risk to Laidlaw, to the owner of the project.
Q. But several pages later, on Page 30, Line 20, you testify that O\&M costs "are effectively collected on a dollar-for-dollar basis through the energy prices in the PPA."
A. (McCluskey) Page 30?
Q. Yes, sir.
A. (McCluskey) Line?
Q. Line 20. Hopefully, I don't have that one reversed, too. You just testified that "there is no tracker". That the prices of or the costs of O\&M could rise differently than what was anticipated. So, is there truly a dollar-for-dollar collection of O\&M in the PPA?
A. (McCluskey) You're correct. I think the point that I was trying to make was that, in developing this price
of $\$ 21.80$, the parties, Laidlaw, PSNH, the both of them, projected out over time over the 20 years what the O\&M costs would be. And, they assumed inflation, and then they turned that stream of nominal costs into a levelized price. And, so, I think what's been agreed is a -- they have attempted to project what those costs would be and reflect that in the levelized charge. I accept that it's not a guarantee of full recovery, but I think it's an attempt to cover reasonably estimated O\&M costs over the life of the project.
Q. But you do agree that, as you said on Page 6, that the risk of O\&M costs growing at a rate differently than anticipated lies with the developer?
A. (McCluskey) That's correct. And, I think I actually say that in my testimony. The risks to do with the capital costs of the project and O\&M is on the developer.
Q. Let's turn to the Wood Price Adjustment. The Wood Price Adjustment utilizes the price of wood paid by PSNH at Schiller Station as an index, is that correct?
A. (McCluskey) That's correct. You're referring to a particular page?
Q. No, just in general.
A. (McCluskey) Okay.

## Page 20

1 Q. Just in general. It's your understanding that the Wood Price Adjustment is an index based upon the price of wood at Schiller?
A. (McCluskey) That's correct.
Q. No tricks on that one. Do you agree that, as an index, that the Wood Price Adjustment is intended to increase the payment to Laidlaw when the cost of wood in the market goes up and decrease as money goes down?
A. (McCluskey) It's intended to track, as you said, Schiller costs.
Q. Are you aware of any other readily available public, verifiable source of wood price information that could be used as an index, other than the Schiller prices?
A. (McCluskey) I'm not aware, but I haven't studied it. And, I don't believe I take a position against the Wood Price Adjustment.
Q. No, I don't believe you did either.
A. (McCluskey) Thank you.
Q. Appreciate that one.
A. (McCluskey) We're on the same page.
Q. Okay. At the bottom of Page 6, and continuing on Page 7 of your testimony, you discuss how the energy price is calculated, is that correct?
A. (McCluskey) Yes.

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1 Q. What you referred to as the "Energy Price" is called

2
3
4
4
5
6

11 A. (McCluskey) I don't recall. Are you referring to the

19 Q. Yes. This is -- I'm looking at the -- I believe the
24 A. (McCluskey) It is the conversion of dollars per ton of

Page 22
1 fuel costs to a -- oh, that's the Wood Price
2 Adjustment. Is that what you're referring to?
Q. Yes, there's two pieces there. So, one of them, the third line down, says "Adjusted Base Price [is the]
Base Price plus the Wood Price Adjustment", correct?
A. (McCluskey) Correct.
Q. And, the Wood Price Adjustment is above that, "1.8 times the actual average dollars per ton minus $\$ 34$ per ton", correct?
A. (McCluskey) That's correct.
Q. Now, those look to me to be relatively simple calculations to be made?
A. (McCluskey) I agree with that.
Q. And, there is actually only one variable there, is that correct?
A. (McCluskey) The actual average price per ton.

17 Q. Correct. Thanks. I'd like you to turn to a new

23 A. (McCluskey) If you could give me a moment.
24 Q. Sure. It's the chart, like this [indicating].

1 A. (McCluskey) Yes. It's just finding it in this -- yes, I think I have it.
Q. Let me give you this one. You can have this one, which is super-sized. Make it a little bit easier and I'll give you a blue pen. It appears that the price of energy at the Locational Marginal Price is what's depicted on the left in red, is that correct?
A. (McCluskey) The marginal energy prices in the wholesale market is on the left.
Q. And, it appears that over this short time frame that's depicted here, about 7 years, that the Locational Marginal Price varied from about $\$ 40$ up to $\$ 80$, is that correct?
A. (McCluskey) Yes. On -- these are average annual prices.
Q. Yes. Unfortunately, because there was not much time between last Tuesday's session and today, I'm going to have to ask you to do some simple calculations with me, if you could please indulge me.

Do you recall that, on Tuesday, Mr.
Traum discussed data in Attachment PSNH Rebuttal 7, which is at the end of PSNH's rebuttal testimony?
A. (McCluskey) I don't recall.
Q. Do you have a copy of PSNH Attachment -- or, Attachment

Page 24
$1 \quad$ PSNH Rebuttal 7 available to you?
A. (McCluskey) PSNH's rebuttal testimony?
Q. Yes. It should be the last page of the rebuttal testimony.
A. (McCluskey) You're referring to Page 37?
Q. Let's see. Is it 37? I'll tell you here in a second. Forty-five. I believe, Page Number 45. And, up in the top left it should say "Attachment PSNH Rebuttal 7". Do you have that, Mr. McCluskey?
A. (McCluskey) Yes, I do.
Q. Thank you. Now, Attachment PSNH Rebuttal 7 shows wood prices from 2004 to 2010, is that correct?
A. (McCluskey) Yes.
Q. These prices were for Concord Steam Corporation. But, during the earlier years in that period, in the 2004, '05, '06, '07, those kind of years, Schiller 5 was not yet converted to burn wood, was it?
A. (McCluskey) In the 2004 period, is that what you're saying?
Q. Yes.
A. (McCluskey) I'll accept that.
Q. So, let's just use these prices as what Mr. Traum referred to in his testimony as a "proxy" for wood prices. The last column on Attachment PSNH Rebuttal 7

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Q. And, for each year, do you see at the bottom of each yearly grouping that there's an annual price noted, an average annual price noted, such as " $\$ 17.51$ " per ton for the year 2004?
A. (McCluskey) Yes, I see that.
Q. If you use $\$ 17.51$ as a proxy wood price, what would the resulting price of energy be using the PPA's energy price formula that we just discussed on the top of Page 10 of the PPA? Am I correct that you would first take that wood price of 17.51, and subtract the base wood price of $\$ 34$ ?
A. (McCluskey) That's correct.
Q. And, that would give you a negative $\$ 16.49$ ?
A. (Frantz) Correct.

17 A. (McCluskey) Correct.
18 Q. And, then, you would multiply that difference by the
19 wood price conversion factor of 1.8 to get a negative
$20 \quad \$ 29.68$ ?
A. (McCluskey) That's correct.
Q. And, that amount is negative, because the wood price for that year was, in fact, less than the base wood price. Do you agree with that?

Page 26
A. (McCluskey) I agree with that.
Q. Okay. Then, you subtract that negative amount or, basically, you subtract 26.98 from the base energy price of 83 , and you agree that you would get a price of $\$ 53.32$ per megawatt-hour for that year?
A. (McCluskey) Yes.
Q. Can you take that blue marker I gave you and put a dot on that super-sized copy of Staff Exhibit 15 I provided you, and put a dot at the intersection of the year 2004 and \$53.32?
A. (McCluskey) Okay.
Q. Thank you. Now, the next year, on Attachment PSNH Rebuttal 7, for 2005, it said that the average price of wood per ton for that year was " $\$ 20.80$ ". Do you see that?
A. (McCluskey) Yes.

17 Q. And, will you accept that, if you were to go through
18 that same set of calculations, that the resulting price
19 under the PPA's energy formula would be $\$ 59.24$ per
20 megawatt-hour?
21 A. (McCluskey) I'll accept that subject to check.
22 Q. Okay. If you could just put a dot there for 2005 at
23
24 A. (McCluskey) Okay. green line. So, you want me to insert them starting with 2004, I see.
Q. Yes.
A. (McCluskey) Yes.
Q. Well, I can tell you what. You know, to save you from that, I think I've got one that is actually completed.
(Atty. Bersak distributing documents.)
MR. BERSAK: What is the next PSNH exhibit number?

MS. DENO: Nineteen.
MR. BERSAK: I'd like to mark the amended version of Staff Exhibit 15 as "PSNH Exhibit 19", so we can refer to it from here on, Mr. Chairman.

CHAIRMAN GETZ: So marked.
(The document, as described, was

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herewith marked as PSNH Exhibit 19 for identification.)
WITNESS McCLUSKEY: So, just for clarification, Mr. Bersak?

MR. BERSAK: Yes.
WITNESS McCLUSKEY: These fuel prices starting in 2004, these are not Schiller prices, isn't that correct?

MR. BERSAK: That is correct. As we discussed earlier, Schiller was not operating in these earlier years, and so we have to use a proxy.

WITNESS McCLUSKEY: And, the proxy is Concord Steam, is that what you're saying?

MR. BERSAK: Correct. So, to kind of show the relative increase/decrease of wood prices using the PPA's energy formula historically.

WITNESS McCLUSKEY: But, importantly, they are not Schiller prices?

MR. BERSAK: That is correct. Schiller did not burn wood in those early years.

WITNESS McCLUSKEY: That's correct.
MR. BERSAK: So, it wouldn't have been a good idea for us to be buying wood. I'm not sure that would have been a prudent decision.

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## BY MR. BERSAK:

Q. If you were to connect the dots, which I read out to you, you'd have a blue line intertwined in, you know, amongst the red line that you had put on your chart. Do you see that blue line?
A. (McCluskey) Yes.
Q. And, this is a representation of how the PPA's energy price calculation would have worked historically, using known wood prices for Concord Steam, versus known energy prices, is that correct?
A. (McCluskey) For Concord Steam, yes. That appears to be the case.
Q. Using this comparison, would the energy prices determined using the PPA's energy pricing formula have compared favorably to what you represented as the average locational marginal price of energy?
A. (McCluskey) You're asking me whether the marginal energy prices compare favorably with Concord Steam's energy prices?
Q. I'm just saying, the blue line that has been graphed, connecting the dots which were just put on this chart, would that line represent energy prices that compare favorably with the locational marginal pricing for those years?

Page 30
A. (McCluskey) In some periods, they appear to be below. In some periods, they appear to be above. But these are not Laidlaw PPA energy prices as was stated in the heading, in the title of the chart that you provided.
Q. True.
A. (McCluskey) That's the important difference.
Q. I think we realize that. I don't think -- the Laidlaw plant hasn't been built yet, has it?
A. (McCluskey) Yes. But the title claimed that the "Laidlaw PPA energy prices compared favorably" --
Q. Okay. Putting that aside, --
A. (McCluskey) If I could finish my statement. Compared favorably with historic wholesale electricity prices. You are now saying that these prices that were plotted have nothing to do with the Laidlaw project. It's based on Concord Steam fuel prices. If the Company had explained that in its testimony, and had a correct title in the chart, we would have saved ourselves a lot of time.
Q. You do have the Rebuttal Testimony of Mr. Long, Mr. Large, and Mr. Labrecque available?
A. (McCluskey) I do.
Q. Could you turn to Page 4. Beginning at Line 30. Isn't it true that, beginning on Line 30, that that testimony

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| 1 |  | same on both graphs? |
| :--- | :--- | :--- |
| 2 | A. | (McCluskey) Yes, I think so. |
| 3 | Q. | So, if a pricing mechanism, such as the one in the PPA |
| 4 |  | was in use during this 2003 to 2010 time frame, it |
| 5 |  | appears it would have provided energy pricing that was |
| 6 |  | less volatile, but roughly in the same average or same |
| 7 |  | ballpark as LMP, would you agree with that? |
| 8 | A. | (McCluskey) Not necessarily. The prices that we have |
| 9 |  | just plotted I believe reflect the fuel cost component |
| 10 |  | of the energy price. Correct? Do these include the |
| 11 |  | \$2.80 as well? In that case, yes. That would be the |
| 12 |  | case. |
| 13 | Q. | Thank you. |
| 14 | A. | (McCluskey) Based on the Concord Steam fuel prices. |
| 15 | Q. | I believe you have some awareness of the LaCapra |
| 16 |  | Associates consulting firm, am I correct? |
| 17 | A. | (McCluskey) Yes. |
| 18 | Q. | Your GRM-1 exhibit indicates that you were a Senior |
| 19 |  | Consultant with LaCapra for approximately six years? |
| 20 | A. | (McCluskey) Correct. |
| 21 | Q. | LaCapra prepared a report entitled "Analysis of a |
| 22 |  | Renewable Portfolio Standard for the State of North |
| 23 |  | Carolina." Are you familiar with that document? |
| 24 | A. | (McCluskey) Was this during my period? |

Page 34
Q. It might have been begun when you were there, perhaps.

4 A. (McCluskey) In that case, I'm not aware of it.
Q. Would you disagree with a finding that LaCapra made that "one of the bases for instituting an RPS law was to hedge against price volatility or increasing fuel costs"?

MS. AMIDON: Mr. Chairman, I object, because Mr. McCluskey just said that he wasn't aware of this report.

CHAIRMAN GETZ: Well, I think the general conclusion is something that he can pursue.

WITNESS McCLUSKEY: If you could give me the question again. Recognize that you asked me to comment on a conclusion where I haven't read the -MR. BERSAK: Okay.

## BY MR. BERSAK:

Q. One of the conclusions in the LaCapra report, in the summary, at iv in that report, was that one of the reasons for instituting an RPS law was to provide a "hedge against volatile or increasing fuel costs." You agree that that's a reason perhaps for adopting RPS requirements?
A. (McCluskey) I've heard that argument. It's not the most obvious one, obvious objective. But I've heard that argument. Actually, I heard it at LaCapra and elsewhere.
Q. If you look back at PSNH Exhibit 19, at that line that we plotted using actual wood prices. Now, I think that we agreed -- that you agreed that the energy pricing formula produced a result that was less volatile than the locational marginal price of energy, based on the stability of energy prices under this pricing mechanism in the PPA, wouldn't such a pricing mechanism be consistent with such a view that RPSs could provide a hedge against price volatility?
A. (McCluskey) Well, this particular trend that you plotted just reflects the fuel prices during that period. It may be that the -- there was very little volatility in fuel prices at that time, which does not suggest that it's always going to be that way.
Q. I think what you're telling me is those things I hear on TV on the investment ads, --
A. (McCluskey) If I could finish -- if I could finish my statement.
Q. -- that past results are not indicative of future performance?
A. (McCluskey) I was trying to finish the statement and you just interrupted me.
Q. Well, I'm sorry.
A. (McCluskey) We've looked at a very narrow period. There may have been very little volatility in the prices that Concord Steam was experiencing. That does not indicate that, prior to that period or after that period there would be no volatility, significant volatility in fuel prices. So, just pointing to this trend does not demonstrate that there will always be less volatility in the energy prices for a renewable project, compared with the wholesale market.
Q. So, you're saying that renewable projects may be more volatile than the market in general?
A. (McCluskey) In certain periods.
Q. So, you disagree -- you disagree with the Legislature then, is that correct?
A. (McCluskey) I'm not sure what you're referring to.
Q. Isn't it true that in RSA 362-F:1, that one of the purposes that the Legislature cited for enacting RPS was to "stabilize future energy costs by reducing exposure to rising and volatile fossil fuel prices"?
A. (McCluskey) That's the -- that's the Legislature's opinion.

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Q. I'm sorry, I couldn't hear you.
A. (McCluskey) That's the Legislature's opinion. I'm not

3 agreeing or disagreeing with it. I haven't actually
4
5
6 Q. But, whether the Legislature is right or wrong, they
7 create the law that we must follow, is that correct?
8 A. (McCluskey) They do.
Q. Let's take a look back again one more time at PSNH

10 Exhibit 19. And, you have a green line that you
11 plotted on that original chart, which was Staff
12

14 A. (McCluskey) That's correct. Under the assumption --
Q. And, so, --
A. (McCluskey) Under the assumption of $\$ 34$ a ton,

18 Q . So, the 2.5 percent annual adjustment was something
$19 \quad$ like an inflation factor to get that upward trajectory?
A. (McCluskey) Correct.
Q. So, it's hardly a sophisticated analysis, is it?
A. (McCluskey) It wasn't intended to be. It was just plotting the energy prices that were reflected in Mr. Labrecque's Attachment RCL-1.
Q. Do you recall last Tuesday that you criticized the

Levitan capacity prices because "at the end of the period, for example, he simply adjusts it using some -something like an inflation factor. So, it's hardly a sophisticated analysis that resulted in the capacity prices for the back-end of this forecast period", at the end of the period. Do recall that testimony?
A. (McCluskey) I think there's a big difference between a piece of work that is intended to be a capacity price forecast for the ISO-New England forward capacity market, and the depicting on this chart of energy prices that are reflected in the Company's own exhibit.
Q. But you stated earlier during your testimony that we really don't know what wood prices are going to be going forward, do we?
A. (McCluskey) We don't. But the Company, in its wisdom, decided to use a base of $\$ 34$, increasing that 2.5 percent annually. I'm not criticizing that as a bad assumption. Rather than use something else, we simply used the projection, forecast, whatever you want to call it, that the Company had in its own exhibits.
Q. You stated earlier that the $\$ 83$ price was only accurate if the price of wood at Schiller is $\$ 34$, correct? A. (McCluskey) That's correct.
Q. But you are aware, and we've discussed it many times,
that the wood price at Schiller today is not $\$ 34$, but is $\$ 27$ per ton, correct?
A. (McCluskey) Well, I believe that refers to the month of January of this year. Time will tell whether that's an aberration. We just don't have sufficient data. And, I would -- the $\$ 34$ that we are talking about as the base price is based on, it's my understanding, it's based on recent prices at Schiller. The last three years result in an average price of $\$ 33.75$ per ton, excluding the last quarter, which was unavailable, the last quarter of 2010.
Q. But, if one were to use the present $\$ 27$ per ton price for wood at Schiller, will you agree that the resulting energy price would be $\$ 70.40$ per megawatt-hour under the energy price formula in the PPA?
A. (McCluskey) If that proved -- if $\$ 27$ proved to be an average annual price, say, for 2014, the first year of the term, then that would be the energy price.
Q. Okay.
A. (McCluskey) If it turns out to be something closer to historic prices at Schiller, then the energy price will be substantially higher than that.
Q. I think the one thing that we agree on so far, Mr.

Page 40
Q. Anything can be forecast, like the weather. But it doesn't mean it's going to be an accurate forecast.
A. (McCluskey) What's your definition of "accurate"? Perfect foresight? If that's your definition, then I would agree; we don't have perfect foresight. Can we reasonably project where prices are going to go based on reasonable inputs and reasonable methods? Then, yes. I think developing a forecast is absolutely necessary for PSNH to be able to demonstrate that it's made prudent decisions with regard to the purchase of fuels, the construction of facilities. All businesses need to utilize forecasts to help them in their decision-making. To throw up your hands and say "we have no idea where the prices for the important products that our business depends on is a recipe for disaster.

And, I'm sure, if a utility were to say that, and then come in and seek recovery of the costs that resulted from that kind of decision-making, then there would be some questions about the prudency of
$\square$ Page 42
significant factors driving your ultimate
16 recommendation that the PPA does not satisfy the public interest?
18 A. (McCluskey) Yes, it's the primary concern. Let me say, 19 we think the prices need to be adjusted, primarily the REC prices in the PPA.
Q. That's consistent with what you said last Tuesday, where you said "The major issues, in my opinion, are the excessive REC prices, and the requirement to purchase more RECs than is actually needed."
suggesting that -- I will leave it at that.
Q. On Page 7, Line 3, of your testimony, you testified that, "Over the 20-year [period], PSNH will pay approximately $\$ 1.6$ billion to Laidlaw for the products produced by the facility. About one-third of this total payment will be for the production and delivery of RECs to PSNH, a huge sum for a relatively small project." Is the cost of --
A. (McCluskey) Which page?
Q. Page 7, Line 3.
(McCluskey) Page 7.
those decisions. So, utilities need forecasts, even if we know that they are not accurate, meaning "100 percent foresight". They need those forecasts to help them make rational decisions.
Q. And, were similar forecasts used during the early days of the implementation of PURPA, which led to myriad rate orders issued by this Commission?
A. (McCluskey) I wasn't here at the time. I don't exactly know what the process was during the PURPA period.
Q. But you are aware that, ultimately, those rate orders created substantial over-market costs for consumers, correct?
A. (McCluskey) I'm aware that -- they did a little bit more than forecast. They actually established the prices based on those forecasts. And, it was not the forecasts that got them into trouble, it was the pricing approach. Very few long-term contracts, the acquisition of fuels are not done based on a single forecast today. There are a number of ways of working in indices in order to cover for movements in important price inputs, in order to protect both the buyer and the seller. So, I would agree that the methods used to establish those prices were questionable at best. And, I'm sure they wouldn't be repeated again. No one is

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A. (McCluskey) That's correct.
Q. You testified in your direct testimony, on Page 7, I believe that was, Page 7, that "PSNH will pay approximately $\$ 1.6$ billion to Laidlaw." Does that $\$ 1.6$ billion that we -- that the Company will pay take into account the present drop in fuel cost to $\$ 27$ per ton?
A. (McCluskey) No. This calculation is based on the $\$ 34 \mathrm{a}$ ton, increasing at 2.5 percent annually.
Q. So, a change in fuel -- in wood price, from $\$ 34$ per ton to $\$ 27$ per ton, significantly changes the cost of the PPA, doesn't it?
A. (McCluskey) If it were $\$ 27$ a ton over 20 years, is that what you're saying?
Q. Over 20 years, or if the fuel prices vary from what you have put into your testimony or what you've based your testimony on?
A. (McCluskey) I've already agreed that the energy prices are subject to actual fuel costs at Schiller. And, hence, the actual payments by PSNH will go up and down, depending on how they compared to the base price. That's reflected in Mr. Labrecque's attachment, and that's also reflected in this calculation.
Q. So, your testimony that "PSNH will pay $\$ 1.6$ billion" is

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pay under the PPA?
A. (McCluskey) We'll know that it will be higher than -- I suspect it will be higher, because there are other factors, fuel costs. So, if there was a drop in fuel costs that offset the improving capacity factor, then it could come out to be 1.6. Who knows where it's going to come out? But there are a number of factors that could have the figure much higher than this. There are a number of factors that could have it much lower than this.
Q. So, which is the amount that PSNH will pay?
A. (McCluskey) Well, I think this is a reasonable estimate, based on the assumptions that we used to develop it.
Q. So, you don't know?
A. (McCluskey) It's, as I said, it's based on an assumption -- on assumptions. And, so, it's a valid number, based on the assumptions that were used to calculate it.
Q. If you turn to your next page on your testimony, Page 8 , over at Line 14. You testify that, "Over the first five years, the REC price is 80 percent of the Renewables Products Payment applicable to the period during which the RECs were produced. During the next

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19 Q. So, the price over the course of the PPA drops from
five years, the REC price is 75 percent of the applicable Renewable Products Payment. During the subsequent five years, the REC price is 70 percent of the applicable Renewables Products Payment. Finally, during the remaining five years of the term, the REC price is 50 percent of the applicable Renewable Products Payment." And, then, you continue: "The Renewable Products Payments is defined in the PPA as the alternative compliance payment (ACP) schedule set forth in RSA 362-F." Do you see that testimony? (McCluskey) Yes, I do.
Q. So, in general, as you described it, under the PPA, for the first five years, the price of RECs is 80 percent of the ACP, then 75 for the next five years, 70 for the third set of five years, and, for the final five years, PSNH would pay 50 percent of the alternative compliance price for RECs? 80 percent down to 50 percent, which is a 37 and a half percent decrease over the course of the 20-year term?
A. (McCluskey) But the ACP itself is rising. You're making --
A. (McCluskey) Let me finish. The ACP is assumed to be rising. So, there's two things happening. You have a rising ACP , and you have a increasing discount to the ACP. And, I don't have the numbers in front of me, but I believe the effect is to have the REC prices falling, if that's the way you're going to go.
Q. The ACP rises with inflation, is that -- is that a correct understanding?
A. (McCluskey) I think, for modeling purposes, the Company used 2.5 percent.
Q. What does the law require this Commission to do to set the ACP price?
A. (McCluskey) I believe it is the Consumer Price Index, I believe is what the Commission has to use.
Q. So, if the ACP is moving up with the Consumer Price Index, then, in about, in constant dollars more or less, over the course of the term of the PPA, it would be over a 37 percent decrease in what PSNH is paying for those RECs, would you agree with that?
A. (McCluskey) Well, the -- I'm looking at the price stream for RECs. It starts at 53.80, and the very last figure is 53.76. And, there's movement up and there's movement down. So, it's not a constant increase or decrease.

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Q. Doesn't the RPS law require a load-serving entity, such as PSNH, to obtain and retire more Class I RECs each year of the RPS law?
A. (McCluskey) Yes.
Q. And, I think you've heard me have a discussion with other witnesses that, from 2010, when the PPA was filed for approval with this Commission, through 2025, that the requirement for Class I RECs rose by 1,600 percent under the law, from a 1 percent requirement to a 16 percent requirement?
A. (McCluskey) I don't recall you saying that, but I'll accept that's what happens.
Q. Thank you. And, during that time period, from 2010 to 2025, is it your opinion that there will be increased load throughout New Hampshire, increased electric load?
A. (McCluskey) Energy Service load or total?
Q. Total load, for all load-serving entities in the State of New Hampshire.
A. (McCluskey) Well, that's going to depend on many factors. Growth in the economy being a major one. Again, I haven't studied that recently. I'm not sure what the latest forecasts are for the state. In this -- in the environment of energy efficiency programs, who knows where we're going to end up. If the economy

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| 1 | continues to be on its knees, then who knows where the |
| :---: | :---: |
| 2 | total load is going to go in this state. |
| 3 | Q. As we go through time, and as the legal requirement for |
| 4 | more utilization of Class I RECs grows by that |
| 5 | 1,600 percent figure we talked about, under the PPA |
| 6 | PSNH would be paying, as we discussed earlier, |
| 7 | 80 percent, 75 percent, 70 percent, then, ultimately, |
| 8 | 50 percent of the ACP to obtain those increasing |
| 9 | numbers of RECs, is that correct? |
| 10 | A.(McCluskey) That's what the PPA says. <br> 11 Q. Now, beside biomass generation, what else does the New |
| 12 | Hampshire RPS define as a "Class I renewable resource"? |
| 13 | A. (McCluskey) Well, I know wind is included in that. |
| 14 | What else have we got? |
| 15 | MS. AMIDON: Mr. Chairman, did you want |
| 16 | me to provide him with a statute book, so he can answer |
| 17 | these questions, which are really based on the |
| 18 | understanding -- |
| 19 | CHAIRMAN GETZ: He appears to have it. |
| 20 | BY MR. BERSAK: |
| 21 | Q. Thank you. Let me just go through, I'm not asking if |
| 22 | you remember it: "Wind, geothermal energy, hydrogen |
| 23 | derived from biomass fuels or methane gas, ocean |
| 24 | thermal, wave, current or tidal energy, methane gas, |

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1 solar hot water heating systems used instead of 2 electric hot water heating, and solar not used 3 elsewhere." Does that sound roughly what the law defines as "Class I resources"?
A. (McCluskey) Yes, that's correct.
Q. Do you think sufficient wind generation will be built in New Hampshire to fulfill Class I REC needs?
A. (McCluskey) I am confident of it. As the request for proposals in Massachusetts demonstrated, that there is an abundance of developers out there that are willing to provide RECs. And, so, I think, if the -- if solicitation is used, then that would be the incentive for those developers to come forward and offer their products.
Q. And, you think those will all be developed in New Hampshire?
A. (McCluskey) It would depend on the terms of the RPF -sorry, the requests for proposals.
Q. Do you recall a figure in Mr. Sansoucy's testimony that I believe it was something like 7,500 wind turbines would have to be built to satisfy the needs of the Class I RECs in New Hampshire?
A. (McCluskey) I don't recall that testimony.

24 Q. If the demand for RECs grows by the 1,600 , or perhaps
even larger, depending upon load growth, if the supply of RECs does not keep up with the demand created by law, then would you expect the price of RECs to rise?
A. (McCluskey) If the supply was not able to keep up with that demand growth, then supply and demand would indicate that prices would rise.
Q. Is there any limit --
A. (McCluskey) But, if prices rise, it provides the incentive for that supplier to come forward. And, I think the Synapse study is a good example of that. They used a detailed supply/demand model, and starting with the potential for different types of renewable resources. And, they determined that all of the RPS requirements in each of the New England states could be met with those potential resources, and at prices significantly below the REC price that we're showing in the PPA.
Q. And, if there are not sufficient REC generating resources, do you agree that the only limit on the upward price of RECs would be the alternative compliance price?
A. (McCluskey) If the price mechanism were not to work in this region, which is an enormous "if", then -- then prices would rise, and the ACP would come into effect.

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Q. Last Tuesday, and again this morning, Mr. Edwards asked a series of cross-examination questions concerning constraints on the Coos transmission loop. Do you recall those questions?
A. (McCluskey) I recall him asking one question. I don't recall a series.
Q. His concerns appeared to be whether there was enough capacity on that loop to handle all the generation that might interconnect to it. Is it your understanding, under Section 9.8 of the PPA, that, if the facility is required to curtail deliveries of any products, pursuant to the interconnection agreement or ISO-New England notifications, that PSNH will have no obligation to pay for any products that aren't delivered due to such curtailment?
A. (McCluskey) I will assume that's what it says.
Q. So, if Mr. Edwards' concerns over limited transmission capacity came to fruition, and if generation at Laidlaw was, in fact, curtailed for any reason, nothing would be delivered and PSNH wouldn't be paying for anything, would it?
A. (McCluskey) Well, I understood his question to be more about development, rather than constraints, after the project were developed. I thought he was asking, "if

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A. (McCluskey) The biomass facilities tend to, on their own, without subsidy, are unable to compete with marginal units. So -- and that may be because of their fuel prices. So, in order to have these things built, in order to generate Class I RECs, you need to be able to cover the uneconomic portion of their operating costs. And, at the same time, you need to have the REC price established, such that, overall, the investor is going to achieve the targeted return that they need for this particular project. So, I see the REC price as achieving those two things in combination. It's covering for any uneconomic costs and ensuring that they get the return that they expect. And, if there were no economic -- uneconomic costs, then why would they be eligible for RPS payments. So, that's how I view it.

Earlier I described the shortfall as an "insufficiency". The revenue requirements of the project are not sufficiently covered by their energy and capacity prices. And, so, they need this additional stream of revenues to cover for that insufficiency and ensure that the return -- the targeted return is achieved. Whether you want to call that a "subsidy" or just part of making this policy

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work, that's up to you. But that's how I view what's going on here. That's the thought process behind the RPS law.
Q. If the alternative compliance price is set too low, wouldn't that hinder the development of new renewable generation?
A. (McCluskey) The purpose of the alternative compliance price is to cap the prices that are paid. So, presumably, the Legislature had the idea that, while it's good to have some kind of subsidy to ensure that these types of resources get built, there has to be a limit to what ratepayers would pay. So, they established this cap, recognizing that there's going to be a market for RECs, and that there could be supply/demand conditions which force prices up. Those conditions would be a shortage of supply. So, the cap would come into effect, if, for various reasons, there was a shortage of supply, and the Legislature has said "we need to cap the cost subsidy", whatever.
Q. But, if the ACP was set at a low level, such that the price of energy that a renewable generator could make is one thing, and if the REC price that it needed to meet its cost of new entry into the marketplace, pushed the price above the ACP , then the ACP would limit what

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1 load-serving entities were willing to pay, correct?
A. (McCluskey) Well, it would. But I doubt whether -legislators are advised by pretty bright people, who are real advocates of renewable generation. They generally know what types of resources, the kind of revenues that those resources need in order to make them get built, to be competitive. And, so, I don't think legislators, with their advisors, would set the price at a level that would prevent the very thing that they're looking for, which is to promote the development of these resources.
Q. But, ultimately, it's the energy marketplace that tell whether they've done a good job or not.
A. (McCluskey) Correct. If you find the market prices for RECs substantially below that level, the market -- the market is telling you that there's a sufficient supply of these RECs, where we can afford to pay them less, rather than more.
Q. Now, speaking of supply, did you have a chance to review the chart that was appended to PSNH's rebuttal testimony, which was labeled "Attachment PSNH Rebuttal 6"? That's the chart that came from the 2010 ISO-New England Regional Plan?
A. (McCluskey) I don't believe I looked at it, but just

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1
give me a moment -
Q. Certainly.
A. (McCluskey) -- and I'll look through the testimony. "Attachment 6", did you say?
Q. Yes.
A. (McCluskey) Okay. As I said, I -- this is the Concord Monitor piece?
Q. No, the next one.
A. (McCluskey) Oh, that's 5.
Q. If you look on the bottom, it says -- I'm sorry. It's Attachment PSNH Rebuttal 6, it's on Page 44, Bates number.
A. (McCluskey) Forty-four. Yes, I see that.
Q. The one that says on the bottom, "Source: Page 134 of the 2010 ISO-New England Regional System Plan".
A. (McCluskey) Yes.
Q. If you just take a look at that chart, just in case you're not familiar with it. My question is going to be, do you disagree with this ISO-New England chart, what it depicts?
A. (McCluskey) Well, the straight line seems to be the demand for RECs in the region, over time. And, you seem to be showing different levels of development of what's in the queue at the moment. That seems to be a

7 Q. So, you disagree with this chart from ISO-New England?
8 A. (McCluskey) From what I can -- as I said, this is the first time I've looked at it. That's my initial reaction to it. I don't want it to be read that I'm critical of the ISO. But that's my view of this, of what this chart appears to be depicting.
Q. You think it's likely that there's going to be substantial changes in projects that are going to be developed in years 2012, 2013, 2014, from what's depicted in this chart?
A. (McCluskey) I think what's going to be developed is going to depend very much on what the REC prices are going to be. If the market signal is there to develop these resources, then the market will respond. Developers will respond.
Q. But wouldn't it seem reasonable that, if a plant was expected to be on line in 2014, it would be in the ISO queue by this time?

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A. (McCluskey) Again, I don't know much about when developers have to submit to the queue. But you would think that they would want to get their projects in early for the early years of this, of what's shown in this particular exhibit.
Q. If you look at --

7 A. (McCluskey) That does not prevent others from coming along in subsequent years and adding themselves to the queue.
Q. Oh, absolutely. But, if you look at this chart, look at 2014, the year when the Laidlaw project is expected to come on line, if this Power Purchase Agreement is approved. And, then, if you just take the middle block, for example, let's not take the 20 percent extreme low, let's not take the 60 percent number, extreme high, with those percentages being the percentages of projects that are in the queue getting developed, let's take the middle one, the 40 percent number. In 2014, doesn't this chart from ISO show that there are insufficient RECs -- insufficient renewable generation to supply the REC needs of the region?
A. (McCluskey) Correct. But it also says that -- the caption says, up here, says "also can be met with behind-the-meter projects, imports, new projects not in

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the queue, and Alternative Compliance Payments." That's my point.
Q. Absolutely. From your familiarity with the industry in your 30 years of doing this business, as you testified to this morning, is it likely that behind-the-meter projects are going to have a substantial impact on the need for RECs?
A. (McCluskey) One would think they are going to be incremental supply. But, again, it depends at the kind of dollars that you throw at them.
Q. As we just discussed, is it likely for a project that we hope to have on line in 2014 that is not going to be in the queue and reflective in these numbers?
A. (McCluskey) I couldn't comment on whether it's likely or unlikely.
Q. So, as the ISO chart states, RPSs -- RPS needs could also be met by paying the alternative compliance price, is that correct?
A. (McCluskey) It could. I mentioned the Synapse report. Synapse did a -- what I'd consider to be -- they hired a firm to do a sophisticated supply/demand analysis for the REC market in New England. And, started with all the potential resources that could be used to meet the various state RPSs. And, they have determined, right

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throughout the period that's shown in this chart, that there's more than sufficient supply to meet the increasing requirements of the region, at prices that are substantially below what you're showing in the PPA. So, that analysis itself shows that this chart really is naive. This does not replace, in my mind, a
sophisticated supply/demand analysis of the REC market.
Q. So, you're saying that "ISO is wrong and Synapse is right"?
A. (McCluskey) I'm saying that Synapse did a supply/demand analysis. And, that's the thing that you should look to, in order to get some feel for whether the demands can be met and at appropriate prices.
Q. Have you prepared your own analysis of regional RPS needs and the renewable sources that are likely to be available to meet those needs?
A. (McCluskey) No, there's no need for me. The Synapse did that. And, actually, PSNH, along with other electric utilities in the region, hired them to do that. So, why would Staff need to spend its resources doing the same work that Synapse was hired to do.
Q. Suppose ISO was right, and suppose, in 2014, the need for RECs outpaced the supply. What would be the market price that a load-serving entity would have to pay to "Article 5.1 to the PPA requires PSNH to purchase all of the RECs produced by the facility. Is this obligation consistent with PSNH's Class I obligation under the RPS?" Do you see that?
A. (McCluskey) Yes.
Q. And, you see that, underneath that, your answer was "No, for two reasons." Do you see that?
A. (McCluskey) Yes.
Q. You go onto say that, "RSA 362-F:3 requires each provider of electricity to obtain and retire RECs sufficient in number and class type to meet or exceed specified percentages of total megawatt-hours of electricity supplied by the provider to its end-use customers." Is that correct?
A. (McCluskey) Correct.
Q. So, is it your position that PSNH's REC purchase requirement under the PPA is not sufficient to meet or exceed the RPS requirement?

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A. (McCluskey) It's my position that the, in certain years, the purchase of all RECs produced by Laidlaw will exceed PSNH's obligation.
Q. And, didn't the law say that a load-serving entity, such as PSNH, is required to either meet or exceed the RPS percentages?
A. (McCluskey) It does say that. That's correct.
Q. Then, PSNH's purchase of RECs under the PPA, would, in fact, comply with the RPS law, wouldn't it?
A. (McCluskey) PSNH would be making that at a cost in excess of --
Q. That's not the question, Mr. McCluskey. Your testimony was whether PSNH's purchase of RECs would be consistent with its RPS obligation under the law, and you're answer was "no." You went onto say that, "the law requires that PSNH and other load-serving entities to meet or exceed the requirement. And, you testified that "PSNH would be exceeding the requirement, but we wouldn't be complying with the law." How can that be?
A. (McCluskey) I stand corrected --
Q. Thank you.
A. (McCluskey) -- on that issue.
Q. You're aware that throughout New England there are RPS laws in other states where the need for various classes

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| 1 | of RECs, including what we call "Class I RECs", grow |
| :--- | :--- |
| 2 | substantially over time, is that correct? |
| 3 | A. (McCluskey) That's correct. |
| 4 | Q. If no significant new generation can be financed, where |
| 5 | would all these new RECs come from? |
| 6 | A. (McCluskey) It's hard to imagine that outcome, and I'll |
| 7 | explain why. You say that, if they "couldn't be |
| 8 | financed", then, obviously, the supply would be |
| 9 | insufficient to meet demand, and prices would rise up |
| 10 | to the ACP. And, my understanding is that the ACP |
| 11 | revenues are intended to be used for the development of |
| 12 | renewable resources. So, on the one hand, we are |
| 13 | having -- you're essentially postulating that the |
| 14 | revenues produced from an ACP, when returned back to |
| 15 | developers, are not going to be sufficient to have |
| 16 | these projects financed. And that, as I indicated |
| 17 | before, I'm sure the legislators were advised that that |
| 18 | would not be the case. The revenues generated in this |
| 19 | hypothetical through ACP payments should be sufficient |
| 20 | to entice developers to build projects and have prices |
| 21 | that will ensure that the project gets financed. So, |
| 22 | the -- I have trouble with the hypothetical that we're |
| 23 | going to have a situation that these projects do not |
| 24 | get financed throughout the region. |

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Q. But you testified earlier that, ultimately, it's going to be the marketplace that determines whether that ACP was set at the correct level or not?
A. (McCluskey) Correct. The marketplace, the prices in the marketplace will adjust if there's insufficient supply coming forward. And, if the -- somehow the ACP prevents that from happening, because it was set too low, I'm sure the advocates of the RPS policies would have the legislation changed in order to increase the $A C P$, in order to make sure that didn't happen.
Q. If prices did, for whatever reason, for RECs hit the ACP, wouldn't it be more economic to pay a fraction of the ACP price, instead of the full ACP price, in order to meet an RPS obligation?
A. (McCluskey) If there were just two alternatives, should we pay the ACP or a fraction of it?
Q. It is an obvious question.
(McCluskey) Yes, it kind of is.
Q. Okay. You are listening, I appreciate that.
(McCluskey) Sometimes.
Q. So, under that scenario, if PSNH was able to purchase these RECs at a fraction of the ACP price, any excess RECs could easily be resold into the market at a profit, correct?
A. (McCluskey) It's either that, or Synapse. Did you

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me a discovery question on that?
Q. No, but I'm just reading your testimony. It says, "using the current price -- market price as a benchmark". So, I suppose you used the current market as a benchmark. That's on Line 14. Do you see that, Mr. McCluskey?
A. (McCluskey) Yes.
Q. Okay. Thanks. For that benchmark price to remain stable, your testimony necessarily implies, it's your opinion a supply of Class I RECs will grow with market need, and that hence, within the next 14 years there will be at least a 1,600 percent increase in Class I renewable generation. Do you really think that's a reasonable assumption, given the marketplace today?
A. (McCluskey) Okay. Could you just go through that again.
Q. Surely. You used --
A. (McCluskey) I apologize.
Q. You used the current market price of RECs as a benchmark to arrive at your $\$ 125$ million above-market cost of RECs under the PPA.
A. (McCluskey) Okay.
Q. For that benchmark price to remain stable, your testimony implies that the supply of Class I RECs will

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A. (McCluskey) If I could finish? If the -- if the supply
A. (McCluskey) It can go many ways. Almost certain, we're going to have ups and downs, where there's more supply and less supply and prices are responding accordingly. But we appear to be in a downward trend at the moment for Class I. Whether that continues, it's difficult, certainly difficult for me, not having done the supply/demand analysis that has been done by Synapse, and they believe that prices will rise, and then will fall significantly. An important component of that analysis, I have to say, is the assumed market price of energy at that time. In fact, Synapse is projecting that wholesale energy prices will rise to such a level, which will reduce the pressure on REC prices, in fact,

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grow with the market need. And that, hence, within the next 14 years, there will be a 1,600 percent increase in Class I renewable generation. My question is, do you believe that's a reasonable assumption?
A. (McCluskey) It's possible. If the --
Q. It's possible, but is it reasonable?
keeps track with the increasing demand, then it's quite possible that we have REC prices that stay reasonably flat.
Q. That's a big "if", isn't it? and they believe that prices will rise, and then will
it will force REC prices down. And, so, it's not just -- it's not just this relationship between supply and demand. There are other factors, important factors, like the market price of energy, which have a significant impact on what a developer needs in order to achieve the targeted return that they're looking for.
Q. If, as you recommend, the Laidlaw Power Purchase Agreement is not approved, do you really reasonably think that there is likely to be any significant increase in Class I generation in New Hampshire, to keep up with the legislatively mandated 1,600 percent increase in Class I REC needs?
A. (McCluskey) Let's get it clear that I think you chose your word carefully. Staff is not recommending rejection of the PPA. We are recommending approval of the PPA, with conditions. We are fully behind a renewable project in Berlin and having the Company having the ability to purchase the facility at the end of the term. We are not recommending -- Staff is not recommending rejection. And, we just feel that it's overpriced. And, also, there's this issue of the quantity that has to be purchased. We feel that, with conditions imposed, that this project will survive.
Q. Thank you for that clarification, Mr. McCluskey. On Page 13, Line 2. You testify -- you can skip there. That "suppliers of RECs will be paid for energy delivered to PSNH's end-use customers rather than to PSNH's distribution system. The cost associated with the difference (i.e., distribution system losses) is to be shouldered by the REC supplier. Under the PPA, however, PSNH's REC payment obligation is based on the number of RECs delivered to its distribution system, which means that the cost of the lost RECs will be shouldered by PSNH customers. The net result is that PSNH retail customers will face REC prices that are higher than indicated in the PPA." Okay?
A. (McCluskey) That's correct.
Q. Under the RPS law, isn't it true that the number of RECs required by a load-serving entity is based on specified "percentages of total megawatt-hours of electricity supplied by the provider to its end-use customers"?
A. (McCluskey) To its end-use customers, that's correct.
Q. And, doesn't the RPS law define a "renewable energy certificate" to be "the record that identifies and represents each megawatt-hour generated by a renewable energy generating source"?

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1 A. (McCluskey) I'll accept that it says that.
Q. And, that's at 362-F:2, III, in case you would like to look it up. So, under the RPS law, the need for RECs is based upon retail megawatt-hours delivered, is that correct?
A. (McCluskey) That's how I interpret the law, yes.
Q. But the law measures the actual RECs based on megawatt-hours generated?
A. (McCluskey) As I said, I accept that it says that.
Q. But, in your testimony, you say, "instead of basing a REC on a megawatt-hour generated by a renewable source, it should be measured by a megawatt-hour delivered to the retail customer by a renewable source." It appears your testimony varies from the definitions contained in the law?
A. (McCluskey) No. My testimony is saying that the need for PSNH to purchase RECs should be based on a certain percentage of their retail load, not the -- what is delivered at wholesale.
Q. So, where are these "lost RECs" you're talking about?
A. (McCluskey) The lost RECs -- the prices that are charged by Laidlaw to PSNH are based on energy delivered to --
Q. We're talking about REC -- energy or RECs now?

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A. (McCluskey) Well, a REC is a megawatt-hour.
Q. No. A REC is a REC. A REC is a certificate. A REC is a subsidy, it's a transfer of wealth.
A. (McCluskey) Uh-huh.
Q. A REC is a REC. So, we're talking about the price of RECs right now, correct, because you're talking about "lost RECs"?
A. (McCluskey) Correct. structure of the PPA.
Q. So, you're suggesting the Legislature needs to change the law?
A. (McCluskey) No. I'm suggesting that PSNH should be purchasing sufficient RECs to meet its retail load times some percentage. It shouldn't be purchasing any more than that, because, in doing so, it's increasing the costs.
Q. Since the RPS law defines a "renewable energy certificate" to be "the record that identifies and represents each megawatt-hour generated by a renewable energy generating source." By statute, isn't it true that a REC is determined at the source, not at the retail customer level?
A. (McCluskey) Well, I'm reading the statute, RSA 362-F:3. And, it says that they must -- the minimum requirement is to acquire "megawatt-hours of electricity supplied by the provider to its end-use customers."
Q. Correct. So, how many RECs you need under the statute, if I'm not mistaken, is determined by what is delivered. So, you determine the percentage of your load that's required for that year and you determine how many megawatt-hours' worth of RECs you need. But, when you actually purchase the RECs, it is not true that under the law the computation of what constitutes
a "REC" is done at the generating source.
Otherwise, Mr. McCluskey, depending upon where a generator is ultimately selling their RECs, the number of RECs it produces are going to vary. If it sells its RECs right in town, there might be less losses than if it sold them from a plant in New Hampshire to a REC consumer in Connecticut. How would you keep track of how many RECs were produced when you don't have any idea where, you know, that there's differences in line losses based upon geographic delivered ones?

MS. AMIDON: Well, objection. I think there's a lot of questions buried in that, with a lot of assumptions. And, frankly, Mr. Chairman, I think that the witnesses could use a break, if the court stenographer also could use a break at this point, it might be a good time.

CHAIRMAN GETZ: Well, I actually am very concerned about the court reporter, because if he can't go any longer, then there's no transcript and none of this ever happened. But --
(Laughter.)
CHAIRMAN GETZ: Well, off the record for a second.

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(Brief off-the-record discussion ensued.)
CHAIRMAN GETZ: Well, let's take ten minutes, and then come in and we'll just do as much as we can with the remainder of the cross. All right. So, let's just take a brief recess.
(Whereupon a recess was taken at $3: 54$
p.m. and the hearing resumed at $4: 15$
p.m.)

CHAIRMAN GETZ: Okay. Mr. Bersak.
MR. BERSAK: Thank you, Mr. Chairman.
BY MR. BERSAK:
Q. I think where we left off was, we were trying to figure out where we could find the "lost RECs".
A. (McCluskey) Yes. All I'm saying in this response that starts on Page 12 is that the RECs are priced based on megawatt-hours or RECs delivered to PSNH's distribution system, not to PSNH's end-use customers. PSNH has an obligation to purchase so many RECs, certain percentage of the retail load. So, there's, in effect, megawatt-hours lost in the distribution system. And, so, on a per megawatt-hour delivered to retail customers, the price in effect is higher than what's indicated in the PPA. That's simply my point. That

Q. I believe a REC is a certificate that represents a megawatt-hour of generation.
A. (McCluskey) Well, you can argue in your brief.
Q. You're right. Well, hopefully, we don't have one. What's the difference between a "benchmark" and a "forecast"?
A. (McCluskey) If you're using a forecast of energy prices as a benchmark to determine whether the price is above or below, there is no difference. The use of the term "benchmark" is the, essentially, the same as the "forecast" that you're using in that calculation.
Q. Do you recall earlier we talked about how you used the current REC market price as a benchmark to calculate your $\$ 125$ million above-market cost of RECs, do you recall that?
A. (McCluskey) I do. And, I think I said I wasn't sure what was used in that $\$ 125$ million figure. I'd have to refer to my exhibits.
Q. Well, whatever it was that was included, it was a benchmark?
A. (McCluskey) It was -- some benchmark was used, yes.
Q. On your next page of testimony, when discussing "migration", you say that the current migration rate "does not represent a forecast for the future but current REC price "does not represent the forecast for the future, but is simply the current level of REC price, and then point out the significant cost risk if developers are unable to build new generation to satisfy REC needs.
A. (McCluskey) Are you referring to what I said? I thought we were talking about "migration", on Page 15?
Q. Well, I'm talking about, when you talked about "migration", you used the current level, but then said "it doesn't represent a forecast for the future." But, when you used the benchmark for REC pricing, you didn't qualify it by saying "it doesn't represent a forecast with significant cost risks into the future."
A. (McCluskey) Cost risks? We use -- I've just said, we use a forecast to determine whether the PPA prices, whether we're talking about energy or RECs, is above or below. But I'm not understanding where the cost risk is. It's simply an estimate of how cost-effective the

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1 PPA prices are.
2 Q. Wouldn't your calculation of the cost of RECs likely be more accurate to be using the forecast prices, rather than today's price as a benchmark?
A. (McCluskey) I think that's correct. I should be using the long-term forecasts, as developed by Synapse, in order to determine what the above-market price is. If you're saying that I used the current price, that would surprise me. But I will certainly check that.
Q. All I can do is read what you testified to, Mr. McCluskey, saying "using the current market price as a benchmark", on Page 14, Line 14.

Let's turn to the Cumulative Reduction
Fund. Mr. Long described this aspect of the PPA as an "innovative mechanism designed to protect customers over the long term from excessively enriching the developer." Are you familiar with that description by Mr. Long?
A. (McCluskey) Sorry, I was thinking about the prior -Q. Okay, let me ask you again.
A. (McCluskey) -- the prior discussion.
Q. Mr. Long described the Cumulative Reduction fund as an "innovative mechanism designed to protect customers over the long-term from excessively enriching the

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2 A. (McCluskey) I do.
Q. And, in a nutshell, you would agree that the Cumulative
Reduction Fund accumulates over or under-market cost of energy from the PPA on a nominal basis?
6 A. (McCluskey) Correct. It does.
Q. Suppose we had the identical PPA, but it did not have a

8 Cumulative Reduction Fund. Would customers gain value 9 by the elimination of that Cumulative Reduction Fund 10 aspect?
A. (McCluskey) I would hope they would. So, I think what you're postulating is, in these negotiations, if there wasn't a cumulative reduction account, then there would be a less of an obligation on Laidlaw. And, one would hope that PSNH, as a result of that, would be able to negotiate lower prices through the PPA.
Q. But, if PSNH wasn't able to negotiate lower prices through the PPA, for, say, reasons of financeability, would the elimination of the CRF add any value to customers?
A. (McCluskey) Well, you seem to be -- if we weren't able to renegotiate the prices, would it provide any value to customers? Well, of course, it wouldn't. I've argued that, if you eliminate a particular provision,

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13 A. (McCluskey) Yes. I'm not sure what the connection is

23 A. (McCluskey) We have two criticisms, that both --
24 Q. Right. But one of them --
A. (McCluskey) One is the interest and the other one is the capping of the amounts that can be repaid to customers.
Q. And, your testimony states, "Not accumulating interest is a detriment to customers, and a benefit to PSNH, because it requires PSNH to make a larger investment to acquire the facility and a consequent higher return on rate base."
A. (McCluskey) That's correct.
Q. Are you implying that PSNH purposefully designed a CRF to benefit itself, rather than its customers?
A. (McCluskey) No, I'm not implying anything. I'm just stating the fact how it works. That, if there's a lower balance in the Cumulative Reduction Account, then the remaining investment that is needed in order to acquire the facility goes into PSNH's rate base, and it earns a return on that rate base. So, to the extent it's got to make a larger capital investment in order to acquire the facility, it benefits from that by a higher return. That's what it's in business to do, to earn a return.
Q. Is there a certainty that, at the end of the 20-year period of the PPA, that PSNH will acquire the facility and put it into a cost-of-service rate base?

Page 84
1 A. (McCluskey) There's not a certainty.
Q. If it's not a certainty, how does that benefit PSNH?
A. (McCluskey) PSNH has the option to acquire the facility. And, I guess the price that it has to pay, less the balance in the Cumulative Reduction Account, it will make a determination at that time as to whether it's worthwhile making that investment, based on its determination of the market value of the facility going forward.
Q. If PSNH does not acquire the facility and put it into rate base, how does it benefit from the lack of interest?
A. (McCluskey) Well, I think the answer is obvious. If it doesn't acquire the facility, there's no investment to go into rate base. So, it doesn't earn a return.
Which leaves the question "what happens to the Cumulative Reduction Account?"
Q. You are aware, Mr. McCluskey, that the purchase option is transferable to a third party?
A. (McCluskey) That's correct.
Q. And that, likewise, the amount in the Cumulative Reduction Fund are transferable to a third party?
A. (McCluskey) Correct.
Q. So, presumably, one of the answers to your question of

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of the day to attend to other things. And, so, -- and, that's what we were discussing during the break, is how we're going to wrap up this hearing and take care of a number of other things that have to be done. So, I don't know if three hours is going to take care of all of this. But what we're inclined to do is start at 9:00 and work our way through it. But, just letting you -- putting you on notice, there may be a couple hour break, if we have to come back sometime in the range of 2:00 to 3:00, depending on how far we get in the 9:00 to 12:00 period.

So, is there anything we need to address before we recess for the day?
(No verbal response)
CHAIRMAN GETZ: Okay. Hearing nothing, then we'll see you at 9:00 tomorrow morning. Thank you, everyone.

MR. BERSAK: Thank you.
(Whereupon the hearing adjourned at 4:33
p.m. and the hearing to reconvene on

February 9, 2011, commencing at 9:00
a.m.)

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|  |  | $\begin{aligned} & 16: 12 ; 37: 17,18 ; 38: 18 \\ & 43: 9 ; 47: 10 \end{aligned}$ | $\begin{aligned} & 33 \text { (1) } \\ & 18: 4 \end{aligned}$ | $\begin{aligned} & 17: 19,21,23 ; 20: 22 ; \\ & 23: 11,21 ; 24: 1,8,11,24 ; \\ & 26: 13 ; 42: 2,10,11 ; 43: 2,3 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| \$ | 0 |  |  |  |
| \$1 (1) | 05 (1) | $\begin{gathered} \mathbf{2 : 0 0}(\mathbf{1}) \\ 89: 9 \end{gathered}$ | 46:10;53:19 | 7,500 (1) |
| 6:22 | 24:16 |  | 362-F1 (1) | 50:20 |
| \$1.6 (4) | 06 (1) | $\begin{array}{\|c\|} \hline \mathbf{2 : 0 8}(\mathbf{1}) \\ 4: 2 \end{array}$ | 36:19 | 70 (3) |
| 42:4;43:4,5, 24$\mathbf{\$ 1 2 5} \mathbf{( 5 )}$ | 24:16 |  | 362-F2 (1) | 46:3,14;49:7 |
|  | 07 (1) | 20 (11) | 72:2 | 72.92 (1) |
| $\begin{aligned} & 67: 15,21 ; 68: 20 ; 78: 14, \\ & 17 \end{aligned}$ | $24: 16$ | $\begin{aligned} & 10: 20 ; 18: 11,18 ; 19: 2 \\ & 43: 13,15 ; 53: 18 ; 60: 14 \end{aligned}$ | $\begin{array}{\|l} \text { 362-F3 (2) } \\ \text { 63:15;74:14 } \end{array}$ | $\begin{gathered} 27: 8 \\ \mathbf{7 5 ( 4 )} \end{gathered}$ |
|  | 09-067 (1) | $\begin{aligned} & \text { 43:13,15;53:18;60:14; } \\ & \text { 85:6;86:12;87:1 } \end{aligned}$ | $\begin{aligned} & \text { 63:15;74:14 } \\ & \mathbf{3 7 ( 4 )} \end{aligned}$ | $\begin{array}{\|l\|} 75 \text { (4) } \\ 46: 1,14 ; 49: 7 ; 67: 6 \end{array}$ |
| \$16.49 (1) | 14:16 | 2003 (2) | 37 (4) 24:5,6;46:20;47:18 | 46:1,14;49:7;67:6 |
| $\$ 17.51(2)$ | 1 | 31:3;33:4 | 4 | 8 |
| \$2.80 (1) | 1 (1) | $\begin{aligned} & 24: 12,15,18 ; 25: 6 ; \\ & 26: 9 ; 27: 11 ; 28: 7 \end{aligned}$ |  |  |
|  |  |  |  | 8 15:8;45:21 |
| \$20.80 (1) | 1,600 (6) | $\begin{gathered} 2005(\mathbf{2}) \\ 26: 13,22 \end{gathered}$ | 30:23;79:3 | 80 (4) |
| 26:14 | 48:8;49:5;50:24; |  | 4:15 (1) | 45:22;46:13,20;49:7 |
| \$21.80 (3) | 68:12;69:2;70:12 | $\begin{aligned} & 2006(2) \\ & 27: 3 ; 34: 3 \end{aligned}$ | 76:8 | 83 (1) |
| 17:13;18:1;19:1 | 1.6 (2) |  | 4:33 (1) | 26:4 |
| \$27 (6) | $44: 12 ; 45: 6$ | 2007 (1) | 89:18 | 87.5 (3) |
| 39:3,13,17;43:6,11,13 | $1.8(2)$ | $\begin{gathered} 27: 6 \\ 2008(2) \end{gathered}$ | 40 (1) | 15:21;44:10,16 |
| \$29.68 (1) | $\begin{aligned} & 22: 7 ; 25: 19 \\ & 10(6) \end{aligned}$ |  | 40s (1) | 9 |
| 25:20 |  | 27:6,8 |  |  |
| \$33.75 (1) | $\begin{aligned} & 21: 16,18,21 ; 25: 11 ; \\ & 54: 10,11 \end{aligned}$ | 2009 (1) | 9:23 | $\begin{aligned} & 9(4) \\ & 15: 8 ; 53: 18 ; 85: 8 ; 89: 20 \end{aligned}$ |
| \$34 (11) | 10:00 (1) | 2010 (7) | 58:11 |  |
| 16:3;17:4;22:8;25:13; | 88:20 |  | 45 (1) | 15:8;53:18;85:8;89:20 $9.8 \text { (1) }$ |
| 37:16;38:17,23;39:2,7; | $\begin{aligned} & 100(2) \\ & 14: 2 ; 41: 3 \end{aligned}$ | $\begin{aligned} & \text { 48:6,13;57:22;58:15 } \\ & \mathbf{2 0 1 1} \text { (1) } \end{aligned}$ | 24:7 | $\begin{array}{r} 52: 10 \\ 9: 00(7) \end{array}$ |
| 43:8,10 |  |  |  |  |
| \$40 (1) | 10-195 (1)$4: 4$ | 89:20 | 5 | $\begin{aligned} & 88: 6,20,23 ; 89: 6,10,15, \\ & 20 \end{aligned}$ |
| 23:12 |  | $2012(1)$ 59 |  |  |
| \$53.32 (2) | $\begin{array}{\|l} 12(3) \\ 63: 4,6: 76: 16 \end{array}$ | 59:15 | 5 (2) | 90s (2) |
| 26:5,10 |  | $59: 15$$2014(7)$ |  | 44:22,23 |
| \$59.24 (2) | 12:00 (1) |  | 5.1 (1) | A |
| \$63.94 (1)$27: 4$ | 13 (1) | $\begin{aligned} & 39: 18 ; 59: 15,23 ; 60: 11, \\ & 19 ; 61: 12 ; 62: 22 \end{aligned}$ | 50 (4) |  |
|  |  |  | 46:6,16,20;49:8 | aberration (1) |
| \$64.60 (1) | 134 (1) | 2018 (1) | $\mathbf{5 3 . 7 6}$ (1) | $\begin{gathered} \text { 39:6 } \\ \text { ability (2) } \end{gathered}$ |
| 27:6 |  | 27:7 | 47:22 |  |
| \$70.40 (1) | 14 (14) | 2025 (3)$9: 1 ; 48: 7,1$20s $(1)$ | 53.80 (1) | $\begin{aligned} & 13: 7 ; 70: 19 \\ & \text { able (11) } \end{aligned}$ |
| 39:15 | 45:21;67:14,16,16,19, |  | 47:21 |  |
| \$72.92 (1) | $19,20,21 ; 68: 5,11 ; 69: 2$ <br> 80.12 12:86:12 | $\begin{array}{r} \text { 20s (1) } \\ 9: 22 \end{array}$ | 6 | $\begin{aligned} & 6: 1 ; 40: 13 ; 51: 4 ; 55: 5 \\ & 66: 21 ; 67: 5,7 ; 81: 15,17 \\ & 21 ; 87: 20 \end{aligned}$ |
| $\$ 80(1)$$23: 12$ | 15 (14) | $\begin{aligned} & \text { 20-year (6) } \\ & 15 \cdot 2 \cdot 16 \cdot 3 \cdot 17 \cdot 16 . \end{aligned}$ | 6 |  |
|  | 17:11,19,21,23;22:19; | 15:23;16:3;17:16; | 6 (8) | above (7) |
| \$83 (1) | $\begin{aligned} & 26: 8 ; 27: 21 ; 37: 12 ; 67: 18, \\ & 19,20,21 ; 79: 3,13 \end{aligned}$ | $\begin{aligned} & 42: 3 ; 46: 21 ; 83: 22 \\ & \mathbf{2 6 . 9 8 ( \mathbf { 1 } )} \\ & 26: 3 \end{aligned}$ | $\begin{aligned} & 7: 17 ; 10: 19 ; 18: 3 ; \\ & 19: 11 ; 20: 21 ; 57: 22 ; 58: 4, \\ & 11 \\ & \mathbf{6 . 1 . 2}(\mathbf{2}) \end{aligned}$ | $\begin{aligned} & 7: 23 ; 10: 23 ; 22: 7 ; 30: 2 ; \\ & \text { 56:24;78:8;79:22 } \\ & \text { above-market (5) } \\ & \text { 67:15,21;68:20;78:14; } \\ & 80: 7 \end{aligned}$ |
| 38:22 |  |  |  |  |
|  | 16 (1) |  |  |  |
|  | $17(3)$ | 3 | 6.1.2 $21: 4,16$ |  |
| [33] (1) | 17 12:23;63:4,617.51 (1) |  | 60 (1) | $\begin{aligned} & \text { Absolutely (6) } \\ & 7: 4 ; 12: 7,21 ; 40: 12 ; \end{aligned}$ |
| 18:3 |  |  | 60:15 |  |
| [6] (1) | 25:12 | $\begin{aligned} & \text { 7:17;42:2,10;54:12 } \\ & \mathbf{3 : 0 0}(\mathbf{1}) \end{aligned}$ | 63 (1) | 60:10;61:3 <br> abundance (1) |
| 18:4 | 19 (8) |  | 27:5 |  |
| $\begin{aligned} & \text { [indicating] (1) } \\ & 22: 24 \end{aligned}$ | $\begin{aligned} & 27: 21 ; 28: 1 ; 32: 7,12 \\ & 35: 5 ; 37: 10 ; 82: 21 ; 85: 6 \end{aligned}$ | $\begin{gathered} 89: 9 \\ \mathbf{3 : 5 4}(\mathbf{1}) \end{gathered}$ | 63.94 (1) | $\begin{gathered} 50: 10 \\ \text { accept }(8) \end{gathered}$ |
|  |  |  | 27:6 |  |
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## DAY 5 - AFTERNOON SESSION ONLY - February 8, 2011

 DE 10-195 PSNH/LAIDLAW BERLIN BIOPOWER

