August 24, 2010-1:31 p.m. Public Utilities Commission 21 South Fruit Street Suite 10
Concord, New Hampshire

DAY 2
AFTERNOON SESSION ONLY

> RE: Application of Laidlaw Berlin Biopower for a Certificate of Site and Facility for a 70 MW Biomass Fueled Energy Facility in Berlin, Coos County, New Hampshire. (Hearing on the merits)

PRESENT:
Thomas Burack, Cmsr. (Presiding as Chairman)

Amy Ignatius, Cmsr. William Janelle, Asst. Dir. Elizabeth Muzzey, Dir. Harry Stewart, Dir. Craig Wright, Asst. Dir. Donald Kent, Administrator Christopher Northrop Michael Harrington

SITE EVALUATION SUBCOMMITTEE:
Dept. of Environmental Services

Public Utilities Commission Dept. of Transportation N.H. Div. of Historical Res. Water Division - DES
Air Resources Division - DES Dept. of Resources \& Econ. Dev. Office of Energy \& Planning Public Utilities Commission

Counsel for the Committee: Michael Iacopino, Esq.

COURT REPORTER: STEVEN E. PATNAUDE, LCR No. 52

ALSO PRESENT:

REPTG. THE APPLICANT:
(Laidlaw Berlin BioPower)

REPTG. CITY OF BERLIN:

REPTG. CLEAN POWER DEVELOPMENT: James T. Rodier, Esq. COUNSEL FOR THE PUBLIC:

Barry Needleman, Esq. Gregory H. Smith, Esq. Cathryn E. Vaughn, Esq. (McLane, Graf, Raulerson \& Middleton)

Merritt Schnipper, Esq. (Downs Rachlin Martin)
K. Allen Brooks, Esq. Peter C. L. Roth, Esq. Senior Asst. Attys. General N.H. Dept. of Justice

[WITNESS PANEL: Bravakis~Mongan~Richmond]

PROCEEDING
(Hearing resumed at 1:31 p.m.)
CHAIRMAN BURACK: We're going to go ahead and get started. I note that Mr. Rodier is not back yet, but, Mr. Gabler, I feel we need to proceed. I hope you understand that.

MR. GABLER: Yes.
CHAIRMAN BURACK: Okay. I'm going to turn things to Attorney Iacopino to ask questions initially of this panel, and then we'll open it up to the Subcommittee.

MR. IACOPINO: Thank you.
BY MR. IACOPINO:
Q. First, I have some questions that have come up during this morning's testimony. I'm going to go through those first. But then I'm going to ask if you would all please have a copy of Clean Power Development Exhibit 1 available. That's the prefiled testimony of Mr. Liston. Okay. So, I'm going to ask you some questions based on that in a few minutes. Okay.

But my first question stemming from what was testified to this morning goes to Mr . Richmond. During your examination by counsel for the City, you indicate that, essentially, the way that you work is
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
that you develop a protocol, the protocol involves sourcing from the local area, as was in this case, you made provisions for that is what you -- is what you testified to.

And, I guess my question is, when you say "you make provisions for that", what are you talking about? What kind of provisions do you make?
A. (Richmond) I believe that's of a confidential nature in our supply agreement.
Q. How about generally in your business?
A. (Richmond) That we will focus on the local suppliers first, and we do that with all of our accounts. All of our accounts come in with some favorites, some local in-town suppliers or maybe the municipality in town or something, and we always accommodate them, and it's no different with this contract.
Q. And, it appeared to me from your direct testimony that you had an amount of business that stemmed from something called "BCAP" --
A. (Richmond) Correct.
Q. -- that you don't -- no longer have. Can you please explain what "BCAP" is?
A. (Richmond) "BCAP" was the federal "Biomass Crop Assistance Program". It was a subsidy to biomass
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
providers, such as us, to the -- what they call then a "BCF", a "Biomass Conversion Facility". It's a program that's still running. It's idled right now. They're looking at it. It's run by the USDA. It was paid out by the FSA, the Farm Service Agency. And, we were hired by the two Boralex facilities in Maine, the Whitefield facility, and the Springfield facility, in addition to our current markets, to run their BCAP Program for them. So, for the life of the Program, we were handling 100 percent of the procurement at those additional facilities.
Q. And, they received subsidies?
A. (Richmond) The supplier received the subsidies. No money from BCAP goes to the BCF, the Biomass Conversion Facility, which is the burning plant.
Q. So, it goes to you?
A. (Richmond) It went to us, and then it was disbursed to the suppliers.
Q. And, when you say "suppliers", you mean the "loggers"?
A. (Richmond) The loggers, correct.
Q. All right. You also mentioned, Mr. Richmond, in your testimony, you mentioned the phrase, when you were talking about the wood basket, that "Schiller is limited, because of 180 degrees, they don't have --
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
because they're on the East Coast", you also indicated, "and they're seeing quotas everyplace". Can you please explain to us what you mean by the "quotas" that they're seeing?
A. (Richmond) That they are -- it's not an open-door policy on deliveries. Each individual supplier, us included, cannot simply deliver as much as we want to any market in New England today. They all restrict how much each supplier can put in. So, you're on quota. You might make 100 loads a week, yet you can only get rid of 20.
Q. Who sets the quotas?
A. (Richmond) The facilities. Some facilities, if we're just a supplier, such as the Springfield facility, for instance, would tell us "you have $x$ amount of loads this week", and we would disperse that among the suppliers. If we are handling the procurement, then we know how many loads the facility is going to allow us to bring in, and we disburse that among all of the suppliers to the facility.
Q. And, finally, Mr. Richmond, the last -- well, one of the last things that you testified about was if you -well, actually, what you said was that you did not see that your suppliers would "change their logging
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
practices in a way that they are chasing down every twig and branch." I might understand they might not "chase down every twig and branch", but if there is a new demand from, say, a Laidlaw plant, do you believe that there would be any change in the amount of tops and branches that are, in fact, taken off of these sites to satisfy that new demand?
A. (Richmond) Absolutely. There's -- a site today would, if they were end of quota and couldn't get rid of all the loads, they would be prone to leave that biomass right in the woods or around the landing. And, that dead tree over there, they might not take it, because they don't have a market to get rid of it. If you had open markets, then, yes, they would grab that tree, and they might bring that top out along with that log, because they have a market to get rid of it. So, right now, they very well could be leaving good biomass on the ground because they don't have a market to get rid of it.
Q. Do you, because of your experience and history in the industry, especially in the northern forest, do you have any idea on how we could maybe estimate what that increased usage of the tops and branches might be?
A. (Richmond) Well, when we need information from our
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
loggers, we simply do a poll. So, if we had a question such as that, we wanted an answer, we would put it in with their checks every week and ask them to please fill it out and send it back, so --
Q. In your history, have you ever asked such a question or polled your loggers on that sort of question?
A. (Richmond) We have two licensed foresters on the payroll at Cousineau that go out and monitor the jobs. I never personally have asked that question. If we were running short on fiber, and one of my foresters saw excess fiber being left, he would ask the question. But, no, I have never had an opportunity to.
Q. And, in your company, when those questions are asked, is there any follow-up with any kind of documentation, memos or some kind of tally sheets or anything like that?
A. (Richmond) We have internal tracking on a number of things. And, yes, that would be one of them; potential supply from a logger -- how much were curtailed in the output of a single logger, yes, we track that, their potential.
Q. And, obviously, I understand these are internal business records that belong to Cousineau. But is there any opportunity for the industry to profit from
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
that by allowing, you know, studies to be done on those questions that are raised and tracked through your company, and likely through other companies that do the same as you?
A. (Richmond) Yes. I mean, there's other places besides us to get that information. An outfit such as the New Hampshire Timberland Owners Association would readily have that available and they deal with the loggers and other entities such as that. That information is out there.
Q. All right. Mr. Bravakis, before I get into the testimony of Mr . Liston with you, I just want to go over your background a little bit, okay? Because I know that you've answered a lot of the wood supply questions for the Applicant, and I just want to understand exactly what -- I mean, I've read your testimony. But I want to sort of understand a little more about what your actual roles were, starting with Chiptec.
A. (Bravakis) Okay.
Q. Okay. If I understand it correctly, you created Chiptec Corporation?
A. (Bravakis) Well, let's -- we can back up a little further, if I may. As I explained in my testimony, I
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
graduated with a BA in Economics, but it was at a time when it was pretty fashionable for folks like myself to buy pieces of land in the "back to the land" movement, if you will. So, my wife and I bought a farm in Vermont. And, I actually started a firewood business, to the chagrin of my parents, but I did. And, that quickly, in a couple of years, I had a little business, with three or four people working, I realized that there are a lot of people in that business, and they're willing to work for less money than we were. So, I investigated, I learned about chipping technology and chipping gasification technology, and I became the first small-scale chipper contractor in the State of Vermont.
Q. Okay. Let me stop you there for a minute, because I want to ask you about each of those experiences.
A. (Bravakis) Okay.
Q. When you say you "began with a firewood business", were you actually in woods, --
A. (Bravakis) Yes.
Q. -- cutting the trees, --
A. (Bravakis) Yes.
Q. -- and preparing the firewood?
A. (Bravakis) I had a pair of horses, actually, and I
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
skidded the logs. And, I had three men that worked for me, and I had gotten a truck. And, my father wasn't pleased, but I did it.
Q. When I ask you questions, let me finish my question before you answer, so that the stenographer can get it all down. Okay. And, then, Chiptec is a -- as you just explained, is a small chipping contractor, basically?
A. (Bravakis) No.
Q. No. Okay.
A. (Bravakis) In my agricultural efforts, I had -- the firewood went into making wood chips, because I bought a farm that had land that had small trees on it that needed to cleared that wasn't suitable for firewood. I learned of a company that made -- a Vermont company that made a wood gasifier to go for home heating. And, I was also a maple sugar maker. So, I managed -- and I was part of the Tree Farm System as well, my farm was. And, I entered into the Current Use Program. So, I was involved in forestry practices, from producing firewood, wood chips, making maple syrup, and managing our woodlands under the Current Use, under a Tree Farm System.
Q. And, again, up to this point, are you in the woods
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
pretty much every day?
A. (Bravakis) I was pretty much doing the physical work. And, then, what happened was, I discovered this company in White River Junction that was making a small wood chip heating appliance that goes in a house. And, I said "well, if I sell those for you, I'll have a market for my wood chips", which I thought was a good thing. And, so, we made an arrangement, and I sold too many, they couldn't keep up with it. So, I basically bought the company and started Chiptec.
Q. And, then, I understand that you grew Chiptec to over \$2 million in sales?
A. (Bravakis) Uh-huh. I started it in 1986, and left in the year 2000.
Q. And, then, you got involved with Novus Energy, LLC?
A. (Bravakis) I started Novus Energy.
Q. And, can you tell us a little bit more about what Novus was or is?
A. (Bravakis) Basically, I did project development, consulting project development, biomass energy, a lot of combined heat and power projects under NYSERDA, for clients that were getting NYSERDA grants or grants in New Jersey, Clean Energy Fund. Typically, it would be businesses such as sawmills, that would want to convert
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
their wood waste into energy and make electricity out of it, and then use the steam for the dry kilns. So, that's what we did. We did project development, consulting work.
Q. And, then, from there, you joined Laidlaw?
A. (Bravakis) I was hired by Laidlaw, I was referred to Laidlaw through NYSERDA, because of my experience. And, I got hired by Laidlaw to help them procure a NYSERDA grant for a project they had, a combined heat and power project they had. And, we were successful, got a pretty significant grant, a million dollar grant for that. And, then, we just started working together.
Q. At what point, I mean, would you say that at some point your career sort of shifted from the forest to the boardroom?
A. (Bravakis) When I had children.
Q. Good. But how about in terms of when -- when was that, in terms of the history that you just explained to us?
A. (Bravakis) That was early to mid '80s.
Q. Okay. All right. Do you have in front of you CPD Exhibit Number 1, the Testimony of Mel Liston?
A. (Bravakis) I do.
Q. Okay. What I'm going to do, and these questions are for the panel, I expect that Mr. Bravakis and
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]

Mr. Mongan will have more of the answers than
Mr. Cousineau [Richmond?], only because it involved the Laidlaw study, a lot of it. What I'm going to do is I'm basically going to go through Mr. Liston's testimony, and give you an opportunity to respond to a number of his assertions that are in that testimony. And, the first part of his testimony I'd like you to look at is on Page 3. And, again, this is Clean Power Development Exhibit Number 1.
A. (Bravakis) Okay.
Q. Line 12. Do you have a --
A. (Bravakis) Yes.
Q. Okay. At Line $12, \mathrm{Mr}$. Liston states in his testimony that "LandVest noted that", and he's talking about the prior study done for the North Country -- for the Division of Forests \& Lands in 2008, that "LandVest noted that the lack of available low grade wood in the region may well have contributed, in fact, to the shutdown of the mills in Berlin and Groveton." And, I just -- and then he sites to a number of different newspaper articles and to LandVest's report from 2008. And, $I$ would just ask, first of all, is that a correct conclusion to draw, that "the lack of available low grade wood may have contributed to the shutdown of
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
those mills"?
A. (Bravakis) I'm going to take a first stab at this, and then Mr . Mongan can chime in. I think there's a little bit of a disconnect. The way it's portrayed by Mr. Liston is that there's a lack of available wood. But, if you read what they said, it's -- one of them is most likely due to the competition for low grade wood. I recently spoke extensively with one of the procurement foresters that was hired by Fraser to buy wood when the mill started up again. And, he said he was given a task to buy wood that was well below market. He advised his employer that he wouldn't be able to fuel the plant at that price. Not that there wasn't enough wood, but at the price that they needed. So, they basically worked with him. He worked, struggled through the first year. But he said, "by the second year, there was more wood than -- that the supply had increased, even at a lower price." And, he talked about " 800,000 tons a year". So that, I think that's -- the perception that "there isn't wood available" has to be tempered with the fact that "at what price". And, if you pay too little for it, you won't get, obviously.
Q. That raises two new questions for me. Okay. The first
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
one, you say you spoke with somebody?
A. (Bravakis) Yes.
Q. And, this is one of the reasons why I sort of went through your background to see what your experience in the woods actually was, because -- do you have any documentation of these interviews and conversations? Because you've testified a number of times about "we went out and we interviewed or we went out and we spoke to people." Is there any documentation of that conversation that you have?
A. (Bravakis) No. But --
Q. A memo, --
A. (Bravakis) I'm sorry.
Q. -- you know, some kind of e-mail or a memo or anything?
A. (Bravakis) No. The gentleman was here yesterday, it's Mr. Ed Witt. And, $I$ could get him to send a memo, if you like?
Q. I'm just trying to get a handled on what --
A. (Bravakis) I don't.
Q. -- what it's based on. Whether we're getting sort of it filtered through your perception of your conversation, or if there might be something that can give us, you know, a more direct view of the conversation. And, if I understand now what you're
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
saying is that, in Mr. Liston's testimony, beginning at Line 12 on Page 3, you believe that he's conflating the competition causing the shutdown of the mills, as opposed to the lack of wood, of low grade wood causing the shutdown of the mills?
A. (Bravakis) Maybe Mr. Mongan can answer that.
A. (Mongan) Sure. I can. I mean, I think that paragraph is as we meant it to state. It said "many factors caused the closure of the Groveton and Berlin mills, one of them likely due to the competition for low grade wood", which means "cost". Those mills were clearly not making money, and having to pay more than the bottom-of-the-barrel price for wood was a contributing factor, we think.
Q. Okay. The next page I'm going to ask you to go to is Page 4 of CPD Exhibit 1. And, at Line 19 through Line 25, Mr. Liston essentially states in his testimony that "For a long period of time the largest size forest derived biomass energy facility generally considered for development by the industry has been 50 megawatts." Do you agree with that statement?
A. (Bravakis) No.
Q. Why not?
A. (Bravakis) I'm going to start with this, and I'd like
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]

Mr. Richmond also to -- and Mr. Mongan to join in. As I understand it, in reading Mr. Liston's background, his experience is based on developing the biomass plants in the early '80s, what we call the "PURPA plants". And, when those were developed, it's my understanding that there wasn't a wood chip market. They were guarantied a very high price for their energy for a very long time. The construction costs were, to get back to what we were talking about yesterday, around 12 to $\$ 1,500$ per kilowatt, rather than the 4 to \$5,000 per kilowatt now. And, wood prices, and you can confirm, were $\$ 14$ to $\$ 15$ all day long, you could buy as much wood. So, it's very simple for somebody to say "I want to buy a plant -- build a plant, a 15-megawatt plant", which most of them were, "and I can get all the wood I need from right around me."

As Mr. Richmond said before, when they go out and procure fuel, they get it as close to the plant as they can. So, it makes sense that, if you can get all of your fuel as close to the plant, you wouldn't go any further. That's the old model.

Today, I think it's a whole different situation. You have construction costs, high; energy costs, low; wood costs, volatile. They go up, they go
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
down, but they're higher relative to everything else. And, you have trucks that are all linked by computers to try to get as much efficiency out of their hauls as they can.

So, having said that, I'd like Mr.
Richmond to describe today how wood flows in and around the markets around the Northeast.
A. (Richmond) Well, we get inquiries weekly on people wanting to build burning plants around the country, not just in New England. And, the first thing I notice in this paragraph is the constriction of 50 miles. Nobody has every told us, in this day and age, to buy wood within 50 miles. It's "is the wood there? How much am I going to pay on average? And, what do you got to do to get it?"

When fuel prices started going up years ago, people, first of all, bought new trucks. The average truck was getting 3, 4 miles a gallon; they went and bought the over-the-road trucks that get 6 to 8 miles a gallon. And, the economy of moving the product changed, from the local logger owning the truck and delivering it, to the local logger that owns the truck going to the shortest distance to a concentration yard or something. And, then, the over-the-road trucks
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
come in with their back hauls and haul it the greater distance.

Also about that time, the disposal costs of wood waste down south changed, the tipping fees at the landfills changed. How you could dispose of wood waste changed, you couldn't throw it down in your backyard anymore. So, you also at the same time got a big economic driver in what we call the "push economy", people paying to get rid of wood waste. So, that, coupled with the over-the-road trucks, lent us to the obvious, to look at the push economy, where they're paying to get rid of it, and cheaper forms of transportation to supplement the supply to these bigger facilities. So, no. People do not look in a 50-mile radius, and it goes longer distances for those reasons.
Q. Okay. But what about in terms of the size of the plant? I mean, he actually references a number of articles following that statement. And, importantly, on Page 6 of his testimony he asserts that this will be the "largest merchant owned wood plant in the Northeast". I assume you agree with that fact, is that correct?
A. (Bravakis) Yes, sir.
Q. Okay. Are there any other plants existing in our
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
region between the 50 and the 70 megawatts?
A. (Bravakis) Schiller and Burlington [sic] Electric and our facility --
A. (Richmond) That's it.
A. (Bravakis) -- would be the three.
Q. And, do you attribute all of that to the past practices and the past model that you say the industry has worked on?
A. (Bravakis) You mean the development of the size?
Q. Yes. I'm talking about the size in megawatts right now.
A. (Bravakis) Yes. You have to keep in mind a couple of things. There hasn't been a new Greenfield project built in the Northeast since the ' 80 s, simply because the economics don't line up. As I've described before, the PURPA plants allowed for long-term power purchase agreements, coupled with the lower construction cost, coupled with the lower wood cost. So, all of our research indicates that, since there hasn't been a new Greenfield project built in the last 25, 30 years, it's probably not likely going to be built now. And, that's why our business model is to reuse equipment, try to get the capital costs down. So, to simply say that the plant size is somehow predicated on wood fuel, I think
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
it goes beyond that. You have to look at how they develop -- what was the development of the plants and who's developing plants now? There is a recent plant in Nacogdoches, Texas, that I believe was an 80 or 100 megawatt plant. One hundred. And, others proposed that are large and some are smaller. The European model is to try to capture some efficiencies of scale. And, in Sweden and Denmark, they have 80 megawatt plants. So, I don't think there's one-size-fits-all. I truly believe that developing a power plant, a biomass power plant, in this day and age, is almost a niche effort. You have to put a lot of pieces together to make it happen. Berlin just happens to be the stars line up; the facility's there, the workforce is there, and the resource is there. We've always maintained that Burlington -- we're in Burlington for three reasons: The physical resource, the human resource, and the natural resource. They're all there. CHAIRMAN BURACK: I'm sorry, if I can just clarify. Did you say you're "in Berlin" or you're "in Burlington"?

WITNESS BRAVAKIS: In Berlin. CHAIRMAN BURACK: "In Berlin". Thank you.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]

WITNESS BRAVAKIS: Yes. Sorry.
BY MR. IACOPINO:
Q. I know that you just explained to me why you're in Berlin. But, on Page 7 of Mr. Liston's testimony, he draws the conclusion that the reason why you're in Berlin is that you're "trying to make everything else fit for an existing facility that does not lend itself well for size reduction to match the fuel availability constraints and other issues."
A. (Bravakis) I'm sorry, could you --
Q. The very first line.
A. (Bravakis) Okay.
Q. It's the last sentence of that paragraph. "Quite to the contrary" it starts.
A. (Bravakis) Do you want me to respond to that sentence? Q. Well, as I understand what he's saying, is you found a plant that can be converted at a cheaper price, and that you're just "trying to make everything else fit" that plant. And, that's why you have a wood study that says what it says, and that's why you take the positions that you take. That's what I understand Mr. Liston to be saying in this portion of his testimony. And, I guess what I what to do is give you an opportunity to respond to that.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
A. (Bravakis) Okay. Thank you. Development work, developing a project like this goes through phases, and there's money associated with every phase. The highest risk money is in the earliest phases. And, we typically refer to this phase as a "fatal flaw analysis". Where you look at what are the major -what are the major pieces of this project that could kill it outright? And, if you discover that, and you don't think you can overcome that, in spite of how good a project you think it is, the most prudent thing is to cut your losses and move on, because that money is one-way money, you never get it back. Very hard to get, it's usually out of your own pocket.

The history from us, as we developed, we started developing this project, is not as Mr. Liston portrays it. The history is, we, like Mr. Liston, identified the Burgess site and that boiler as an asset. But that's only one piece of the puzzle. We then needed to say "is there enough wood to fire?" Well, first, we needed to talk to contractors who could convert that boiler into a biomass boiler, and how much output that could give. Could we maximize the utilization of that asset? Once we had that, we said "Okay. Can we fuel this plant?" And, without spending
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
a lot of money, we had information that said "Over a million tons came into this place, we need 750. Sounds reasonable that we can fuel it." "Can we sell the power out of this place?" So, we researched the power markets. I and my colleagues are very familiar with the REC markets in the Northeast and the power markets, and we looked at that. And, we understood the challenges to it, but we thought, you know, we could -that wouldn't kill it. We can look towards that. Then, we looked at "Can we get public acceptance for this facility?" Because we have been in projects where the public opposition is so overwhelming, it's just no worth going down that road. We had extensive outreach in the community. We came into a community that apparently on -- superficially didn't seem welcoming. But we dug a little deeper and found out that a lot of the people were mill people and loggers and workers, and they were, if you will, the silent majority that really wanted this, but weren't the ones who would get on the e-mails and the blogs and the Internet. They were hard-working people. So, we said we think we can get -- we won't get a big public outcry, there's going to be work. And, so, we put those pieces together and said "this is a project that we can then take to the
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
next level." So, it isn't simply a matter of trying to fit the round hole into the square peg, as Mr. Liston is trying to portray it. It's really a careful and thoughtful analytical process of all the pieces that are required to develop a project. And, that's what we went through. And, we took step by step by step, and dealt with the challenges as they came along, all the while knowing that the project could die, but it didn't. So, it isn't as simple -- it isn't as simple as it's being portrayed here.
Q. I guess the next question is for Mr . Mongan. On Line 6 on Page 7, Mr. Liston, in his testimony, questions "the choice of the 100 -mile radius for the procurement area", and makes reference to LandVest's report that was given to the North Country Council, which I believe is one of our exhibits here.

MR. RODIER: Excuse me, Mr. Chairman?
Excuse me, Mr. Chairman?
CHAIRMAN BURACK: Yes, Mr. Rodier.
MR. RODIER: May I be heard? This is a
little unusual, but it's fine. But I do think it would be fair if Mr . Liston is at some point given an opportunity to respond to what's going on here.

CHAIRMAN BURACK: I believe Mr. Liston
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
will have an opportunity when you bring him on as a direct witness later in this proceeding --

MR. RODIER: Okay.
CHAIRMAN BURACK: -- for him to address
these issues.
MR. RODIER: And, we could sort of like say "you heard what Mr. Bravakis said and Mr. Mongan said about your testimony. Would you rebut that or respond to that." Thank you very much. Appreciate it.

CHAIRMAN BURACK: You will have that opportunity to do it. And, I'm sure that our counsel and members of the Committee -- Subcommittee will be looking to ask questions of Mr . Liston along those lines.

MR. RODIER: Sure.
CHAIRMAN BURACK: Thank you.
BY MR. IACOPINO:
Q. It's actually been marked as "Committee Exhibit Number 2". I believe that was prepared by your company, Mr. Mongan?
A. (Mongan) That's right. Yes, I'm happy to answer that question. If you'll note on Page 30 of that report for the Timber Supply Study for the North Country Council of New Hampshire, there's a table at the top of the page.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
Q. Yes.
A. (Mongan) And, if you look down, and look at the consumption numbers on the right, and the distances right beside it under "radius", you'll see that, for facilities of this size, and if you scroll down to the 100s, for example, Finch Pruyn and IP in New York. As far as consumption and radius, we had 100 miles. So, I think we're being extremely consistent with all of our previous thinking, that a facility of this size would have approximately a 100 -mile radius of procurement.
Q. Okay. Where do you list the size of those -- of those facilities in that chart? Is it listed in the chart or do you just know that?
A. (Mongan) Yes. Under the "consumption of green tons".
Q. Okay. Okay, that's right, because they're not all power plants. Alrighty.
A. (Mongan) Okay.
Q. So, basically what you're saying is that, for somebody who was going to burn or use this much pulp, that's the radius that you would expect them to be looking at?
A. (Mongan) That's a fair statement.
Q. So, you don't accept the assertion that the procurement area was chosen to supply the need for the Laidlaw facility?
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
A. (Mongan) No, I do not.
Q. How did you make that determination of the -- for those facilities listed in the chart that you just referenced, how did you make the determination of what their radius was for that particular study?
A. (Mongan) It's not an exact science, I will say that right at the outset. It's having worked in the area for 40 years, it's knowing the procurement radius, it's knowing some of the foresters. We supply some of these mills. Interviews, experience, anecdote, I guess.
Q. So, there's no -- no database or anything that you could go to --
A. (Mongan) No.
Q. -- in order to determine that your 100 -mile radius is, in fact, accurate?
A. (Mongan) No, there isn't.
Q. And, I guess, Mr. Bravakis, you'll have to answer the next question, because it deals with your Ellicottville, New York facility, on Page 7 --
A. (Bravakis) Yes, I think so.
Q. -- of CPD Exhibit 1. Mr. Liston suggests that your company has essentially endorsed a 50-mile limit at that particular project, because of a statement made by one of your -- I believe it's one of your employees or
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
a question is asked of one of your employees, as to where the wood chips would be obtained for that particular facility. And, the answer is "Wood chips will be purchased from the local region, including the greater Buffalo area. It is generally not economically feasible to haul wood chips over significant distances." And, apparently, "Buffalo is [about] 50 miles from Ellicottville." Do you agree or disagree with what Mr. Liston has written there?
A. (Bravakis) I agree, but you have to understand that, in context, the Ellicottville Project is less than 6.5 megawatts, combined heat and power.
Q. Was that 6.5?
A. (Bravakis) 6.5 megawatts. It's less than under 10 percent the size of the Berlin Project. So, it's a very small project. And, it makes perfect sense that we could procure all we wanted within 50 miles. That should have been pointed out that was -- should have been pointed out when Mr . Liston mentioned that.
Q. All right. I'm now going to ask you to turn to Page 8 of Mr . Liston's testimony.
A. (Bravakis) I'm sorry.
Q. I'm going to ask you to Page 8 of Mr. Liston's testimony.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
A. (Bravakis) Eight. Okay.
Q. And, down around Line 26, he has performed a calculation. And, actually, in this section of his testimony, this is in the section of his testimony where he testifies that he believes that your fuel requirement is understated, and he performs a calculation by taking the number of hours that your plant could be expected to run, eliminating any downtime, and making a multiplication, and coming out with the number of hours that your plant would run. First of all, do you agree that that is a reasonable estimation of the number of hours that your plant in a year would be operating at full output?
A. (Bravakis) I wouldn't disagree with that. That might even be a little conservative. That's okay. 7,600 hours is -- it's probably okay.
Q. If you go on to Page 9, Mr. Liston has provided a letter from Peter Bloomfield that does a further calculation, and ultimately concludes that, if your facility operated for that amount of time, that you would burn 823,700 tons of biomass per year. This is Page 9 of CPD Exhibit 1.
A. (Bravakis) I'm familiar with the letter. You want me to respond to that?
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
Q. Well, that -- let me just frame it for you. That's, obviously, more than the estimate contained in the -or, the estimate that you have been providing to the Committee, and that the Laidlaw -- I'm sorry, LandVest report for this project was based on. Can you tell us first if you agree with that number? And, if not, why not?
A. (Bravakis) I do not.
Q. Okay. And, why not?
A. (Bravakis) I do not, because I think they misunderstood how the data was put into our Air Permit application. And, if I could, I'd like to recall Mr. Frecker, who filled out our application, to come and explain the differences between the heat rates of maximum and average in our Air Permit of which they extrapolated this equipment -- this information. And, then, I believe that they misassigned some factors and came up with a conclusion, which we strongly disagree with. WITNESS BRAVAKIS: Is that okay, Mr.

Chairman?
CHAIRMAN BURACK: We'll keep going with the panel as it is right now. We'll bring Mr. Frecker up later and come back to this issue.

WITNESS BRAVAKIS: Okay.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]

BY MR. IACOPINO:
Q. Okay. If you go to Page 11 of Mr . Liston's testimony, pretty much that whole page, he draws some conclusions regarding information that you provided at a tech session. And, in essence, he's asserting that, based upon that information, that you would burn "875,000 tons per year of biomass", and that's contained on Line 6 of Page 11. Do you see that?
A. (Bravakis) Yes, I do.
Q. And, of course, this is a different calculation than the other one. Can you tell us if you agree with that? And, if you do not, why you don't agree?
A. (Bravakis) I do not agree. And, the reason I do not agree is because it's unrealistic to expect that we would be purchasing fuel at 50 percent moisture. And, I'd like to point out to the Committee, where Mr. Liston says on Page 8, Line 30, I quote: "Let me say that we concur that the average 45 percent moisture content of biomass [fuel] as delivered and offer the following links to further substantiate that aspect." So, he agrees it would be 45 percent moisture, not 50 percent moisture that would be coming into the plant. And, it's unrealistic to think that the plant will run at 100 percent capacity. As Mr. Strickler
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
explained this morning, you need to discount scheduled and unscheduled outages. So, when you factor in 45 percent moisture, at the average fuel input as person our -- not only our Air Permit application, but also according to our boiler manufacturer and our engineers, at 45 percent moisture, it comes out to I believe 748, roughly 748, 750,000 tons per year consistently throughout all the documentation and calculations we've offered.
Q. I just want to point out to you, though, he does use the 87.5 percent capacity in that example, at Line 5, and he does come up with 875,000.
A. (Bravakis) I see that. But, to my first point, it's unrealistic, as he says himself, to get fuel in at 50 percent moisture. You might get a load here or there. And, maybe Mr. Richmond can elaborate on incoming fuel, of getting 50 percent moisture fuel.
A. (Richmond) No. It's not going to happen. One of the things that we had to do during the BCAP Program was track the moisture content. They paid on the bone-dry ton, the federal government did. So, we actually have good data on that. And, I know my counterpart over there, John Baker, knows the exact number. But I would -- it would be fair to say that it is 45 percent or
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
less, the average coming into a biomass facility. And, that's documented by BCAP.
Q. On the next page, Page 12 of Mr . Liston's testimony, he then does another calculation, based upon what he calls "rule of thumb data" that you provided. And, using that data, he calculates that your facility will consume in excess of 900,000 tons biomass per year. And, it seems he's used your rule of thumb data. Can you explain to me why you would disagree with that?
A. (Bravakis) First of all, if I may, I'd like to clarify the record that it's not my data. That that section was provided by Innovative Natural Resources. We included it. I can't recall where we included it. But the reason we included it not -- was not due to their rule of thumb with respect to heat rates, because they're not power engineers, and I wouldn't expect that they know that much about that. But they are forestry people, they're forestry consultants. So, I do expect that they know the fuel moisture. So, we brought that simply to verify what we were saying, that moisture is typically 45 percent moisture of logging residues, which is what would be fueling our plant.

I believe that Mr. Liston assumed
incorrectly that we presented that information in
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
somehow to verify a heat rate analysis, and that wasn't the intent. The intent was to verify the fact, as we have said and that he concurs, that 45 percent fuel is typical of a plant like this. So, my view is that he used the wrong assumption to come to the conclusion that he came to.
Q. Well, let me ask you about that "rule of thumb".
A. (Bravakis) Okay.
Q. Because it's printed in the document, just above Line 1. Where it says, "As a rule of thumb, it takes about 1.7 green tons of wood (45 percent moisture content) to make 1 megawatt hour of electricity using most existing technologies." Do you agree with that rule of thumb?
A. (Bravakis) I don't want to agree or disagree with that. I can only speak to the analysis that we've done for our plant. I'm not an engineer. And, what I know about engineering is that, when you use generalities like that, it can get you in trouble. So, I'm not going to agree or disagree with that.
Q. How about Mr. Mongan? Do you have any view with respect to the rule of thumb as printed on Page 12 of the testimony?
A. (Mongan) No, I don't. I'm not familiar with that rule of thumb.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
A. (Richmond) Me either.
Q. And, then, at Line 9 of Page 12 is where Mr. Liston took your Air Permit information and calculated that your plant would use "an annual consumption of 949,615 tons" per year. And, I know that you had mentioned that you believe that he has misunderstood your Air application, and that Mr. Frecker can speak more to that?
A. (Bravakis) Yes. And, if you would allow that to happen at some point, I would appreciate it.
Q. Having performed all these various calculations from the various data sources, Mr . Liston draws his conclusion that a "70 megawatt facility would require between 820 and 910,000 tons per year of fuel", and that's at Line 4 on Page 13 of his testimony. Do you disagree with that as a general notion?
A. (Bravakis) Yes.
Q. As a general notion, what do you believe a 70 megawatt facility, now I'm not necessarily talking about the one that you propose to build, but is there some general, $I$ don't want to use the term "rule of thumb" again, but some general number that you would expect a 70 megawatt facility to be using for fuel?
A. (Bravakis) Again, $I$ can only speak to the knowledge of \{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
our plant. But, if one were to say "our plant is representative of relative combustion efficiencies within the industry", and the fuel that we would be getting is similar to other fuel that would be received at other facilities, I would say 750,000 tons per year.
Q. The next section of Mr. Liston's testimony is offered to support his conclusion that the estimate of the existing biomass use is understated. And, I assume that, Mr. Mongan, you will probably have the answers to most of these questions, since it's your report that he is primarily reviewing in coming to this conclusion. And, the first thing, he identifies five significant math errors on Page 14, beginning at Line 22. Have you had an opportunity to review this testimony, Mr . Mongan?
A. (Mongan) I'm not sure. Did I? Is this the one I've seen before?
A. (Bravakis) If I may, I believe we touched on this yesterday in Mr. Rodier's cross-examination of me, where I explained that the analysis we conducted was a combination of theoretical and actual. And, when LandVest concluded their second level Addendum analysis, which was a modeling protocol, we thought that it would be best -- we'd be best served to get
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
some real-world intelligence on that. So, we asked Mr. Richmond to sit down with us and look at that list, and say "According to the math, it says so much from the Schiller Station will come within this geographical area. You supply 10 percent to the Schiller Station. Do you agree with that?" And, he said, in that example, he said "No. Schiller gets a lot of fuel down here. And, so, it doesn't go from there." He said, "But, conversely, Burlington [sic] Electric might get a little bit more. And, so, we started to learn about what we've been talking about, this amoeba shape of wood sheds, which is a further refinement.

So, what -- the simple math, he's
correct. But what he fails to realize is, and it was probably due to our error, we didn't mentioned it, that this was -- there was some further intelligence put on by Cousineau.
Q. Well, I guess then -- I guess the questions -- well, I'm sorry, Mr. Mongan, did you want to add to that answer?
A. (Mongan) Yes, I do. They actually are not math errors. The table is perhaps a little misleading. It's not meant to be a conclusion, that Table 1 . It is rather an interim illustration of what we were doing. And, as
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
Q. And, just so we're all talking about the same table, we're talking about the table contained in your Addendum report, which is Exhibit 2.
A. (Mongan) That's correct.
Q. And, the table is on Page 2, and it's titled "Table 1", is that correct?
A. (Mongan) Yes. The "wood assigned" is not the final number, is what we're trying to say.
Q. Well, do you certainly understand how somebody could look at these numbers and say --
A. (Mongan) I certainly do. As $I$ said, it is misleading. But it was not presented as a conclusion either. But I do understand how you could look at it and make that conclusion.
Q. Well, let me ask how you got -- well, I understand how you got to the "wood assigned" column, how you got those numbers, and it involved -- I understand that it involved Mr. Richmond's input.
A. (Mongan) That's correct.
Q. Other than Mr . Richmond, were there any other people that contributed to that estimation of the wood to be assigned to each particular plant?
A. (Mongan) I don't think so. I'm not positive.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
A. (Bravakis) If I may, I'd like to point to my supplemental testimony, Page 5, Line 16, which talks specifically of this.

CHAIRMAN BURACK: Could you please provide us with the exhibit number for that testimony. WITNESS BRAVAKIS: The exhibit number is "Exhibit 10". CHAIRMAN BURACK: Thank you.

BY THE WITNESS:
A. (Bravakis) Page 5, Number 16, where I say, if I may quote: "At Page 14 of his prefiled testimony, Mr. Liston claims that there are "significant math errors" in Table 1 of the LandVest study that alter the total amount of wood assigned to facilities in the study area. I understand why he would reach that conclusion, although he is not correct. The chart is somewhat confusing because LandVest adjusted the numbers based on interviews with various biomass suppliers", of which we know now is Cousineau. "LandVest should have clarified that point. Notwithstanding that issue, there [is] no math errors in the chart and LandVest stands by its ultimate conclusions."

BY MR. IACOPINO:
Q. But my question right now is, is the various suppliers
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
that LandVest spoke with, is it just Cousineau Forest Products?
A. (Mongan) I can't say that for sure. I'd have to talk to some of the people that work for me.
Q. All right. Let me ask you this about LandVest's practices in preparing reports like this. When you are making a chart like this or a table, as contained in your report, do you document those types of conversations? Are there memos that are generated? Are there e-mails? Are there some sort of calculation sheet that you would use that would document your accumulation of that knowledge that's going to go into, in this table, the "wood assignment" column?
A. (Mongan) No. There is nothing formalized. There is no formalized protocol for that.
Q. Could you provide the Committee with, by requesting of the people who work for you, who else, if anyone, that this was discussed with, other than Mr. Richmond and Cousineau Forestry Products?
A. (Mongan) I will certainly try.
Q. Thank you. I guess it's going to fall to you, Mr. Richmond. How do we come up with these numbers that are in the "wood assigned" column? Because some of them are substantial difference in numbers.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
(Witnesses conferring.)
BY THE WITNESS:
A. (Richmond) You know, 90 percent of the facilities listed on this chart we supply. And, my Operations Manager is very knowledgeable of the markets and how the wood moves. And, we know how much they consume and where it comes from, we know the truckers, we know the suppliers. So, just our basic knowledge.

BY MR. IACOPINO:
Q. Yes, but these are -- some of these are pretty specific numbers. For instance, "Androscoggin Mill", "1,056,521".
A. (Richmond) $I$ think that was done on like percentages.
A. (Mongan) Exactly.
A. (Richmond) Us saying "20 percent of that facility comes from this area, 30 percent comes from this area", and they turned it into numbers. I mean, $I$ wasn't down to the exact ton. We were doing guesstimates on percentages.
A. (Mongan) No, that's correct.
Q. And, so, if $I$ were to summarize this correctly, it was sort of a gestalt-type of process that you and your operations manager basically sat down and tried to figure out "How much do we supply? And, knowing how
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
much we supply to this particular person, we can figure out where it comes from." And, that's how we got to this conclusion?
A. (Richmond) Exactly. Again, we know how the wood moves. And, they say, you know, "we get 100 percent from here", and we know that's not true. You're reaching way out here. And, we supply you $x$ amount of tons from this area. We know other suppliers in the area. So, it's a rough percentage of what's going to that facility, and they have transformed it into exact tons here based on a percentage.
Q. At Page 15 of his testimony, Mr. Liston indicates that he would expect the Schiller and McNeil plants to be using "in the range of 550,000 tons per year", and he actually bases his claims on NHTOA data. Do you have any reason to disagree with that conclusion?
A. (Richmond) Yes -- I mean, no. No. I mean, I don't think that -- Schiller uses a little bit less than that, but it's not worth talking. So, that's close to accurate.
Q. Well, I think he actually comes up with an exact number of 533,721 for 2009?
A. (Richmond) That's probably accurate.
A. (Mongan) Yes. I wouldn't dispute that either. I mean,
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
we made an estimate, and we estimated 450,000 tons.
Q. Well, that's my next question. Is that Mr. Liston points out that you're about 83,000 tons short in your "wood assigned" there. Is your response to that simply that "all we can do is estimate"?
A. (Mongan) We did our very best to estimate as well as we could possibly estimate.
Q. Okay. The next question is for you, Mr. Mongan. And, again, Mr. Liston relies on your study, the timber supply study for North Country, New Hampshire, which I believe is "Committee Exhibit Number 2".
A. (Bravakis) Excuse me. Can you -- What line and page?
Q. I'm sorry. On that, Line 5 of Page 16 . And, in there, he quotes, although he doesn't give us the page, but he quotes your report as stating that: "Overlapping areas translate to intense competition, so our assumption was that a wood using facility located in Coos County would be at a distinct competitive disadvantage." First of all, is that an accurate quote from your report?
A. (Mongan) I'm not sure where that came from in the report.
Q. Is it accurate, based upon your knowledge of the study that you did that resulted in that report?
A. (Mongan) I believe this statement is taken out of
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
context. But I don't -- I'd have to start paging through the report to find it. I believe it deals with how we dealt with the business of what happens when supply areas overlap, because that clearly is a statement that sounds like that. I could go up on the board and make a quick illustration for you and show what I mean. But I would have to pour through here to find out where they grabbed that from in the report.

Do we know that?
Q. It doesn't jump out to you as being from any particular part of the report?
A. (Mongan) Well, I --
Q. I believe you just got the report today.
A. (Mongan) Yes, I believe it came from the part, in the Addendum where we talk about how we -- but I'd have to
Q. Okay.

CHAIRMAN BURACK: Mr. Rodier, do you
have a specific location of this report?
MR. RODIER: Yes, I do. May I approach? CHAIRMAN BURACK: Yes.

BY MR. IACOPINO:
Q. Okay. On the top of Page 7, it's in a section of your 2008 report that is entitled "Wood Basket/Study Area".
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]

And, it's apparently in the last paragraph.
A. (Bravakis) What page, I'm sorry?
Q. Page 7.

CHAIRMAN BURACK: Top of Page 7.
BY THE WITNESS:
A. (Mongan) And, my earlier comments, where I thought you were still talking about the Addendum, I didn't realize you had moved back to this--

BY MR. IACOPINO:
Q. No, I'm sorry. I'm talking about the two -- I'm sorry, I should have made that more clear. We get used to dealing with Exhibit numbers here.
A. (Mongan) Okay.
Q. And, I may not -- but we are talking about your 2008 study. And, as I understand it, you were involved in the preparation of this document as well?
A. (Mongan) That's true.
Q. And, this is Exhibit Committee Exhibit 2. And, at the top of Page 7, the quote does appear to be taken correctly. And, the question to you is, well, I think we have identified that it's taken correctly. Is that still a conclusion that you would draw based upon the work that you've done in all your various studies?
A. (Mongan) When we did the Addendum, we had to deal with
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
this issue of overlapping circles in a more precise way than this. In this Coos -- in our initial study for the North Country Council, there was a -- it was a non-specific facility, and we didn't get this intense over it. There are overlapping areas. We did not allow wood from that in the North Country study. In the Laidlaw study, we did, I think, a much better job of understanding the dynamics of what happens in overlapping competitive areas. And, it's in the Addendum to the -- yes, it's in the appendix to the Addendum contract is where that process is discussed.
Q. And, when you refer to the "Addendum", I believe you're referring to document Exhibit Number 2, Applicant's Exhibit Number 2?
A. (Mongan) Yes, $I$ don't have -- I just have my own copies.
Q. It's your Addendum to your --
A. (Mongan) Yes.
A. (Bravakis) Yes.
Q. -- LandVest report for Laidlaw?
A. (Mongan) Yes.
Q. Yes, that would be Exhibit 2.
A. (Mongan) So, the short answer is, under more exacting circumstances for us, a proposed actual plant, we took
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
it down another level and tried to do a better job of understanding what happens in those overlapping circles, rather than just throw the wood out.
Q. Okay. The statement itself suggests that "wood using facilities in Coos County are at a distinct competitive disadvantage." And, I guess my question is, after you've done further research, is that, in fact, the case, at least as you believe, based on your research?
A. (Mongan) No. And, that's kind of an odd statement. I'm not sure how that -- I'm not sure what that's meant to mean. And, certainly, a facility in Coos County has no competitive disadvantage whatsoever to a facility in Oxford County, Maine or LaMoille County, Vermont.
Q. Okay. But this is -- I mean, it's your statement. Do you understand why we'd be asking the question?
A. (Mongan) I understand it. I understand it's not a good statement.
Q. So, you wouldn't adopt that statement here today?
A. (Mongan) No, I would not.
Q. Okay. On that same page, on Page 16 of Mr. Liston's testimony, he points out, at lines -- this would be at 23 through 38, additional users of the fuel that were not included even in your March 10th Addendum. Do you see those, those companies listed there; Maine Wood
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]

Pellets, Verso Pulp, Corinth Wood?
A. (Mongan) Yes, I do.
Q. Is there a reason -- first of all, is it correct that these were not considered in your Addendum?
A. (Bravakis) If I may, I believe I asked Mr. Sin [Shi?], who did this, whether or not he considered those, and he said he did, but they didn't reach into the geographical area under consideration. And, more to the point, my partner and colleague, Ray Kusche, operated Greenville Steam Company for 20 years. And, when I asked him how much wood he got from our supply area, he said "None, never, ever." So, I think this is just a mischaracterization.
Q. All right. Well, let me try to understand your position then. Your position is that, first off, none of these plants come within the 100 -mile radius --
A. (Bravakis) Let me --
Q. -- or draw from the 100 -mile radius?
A. (Bravakis) Let me be clear. I believe, and LandVest will corroborate this as soon as Mr. Sin [sic] gets back from vacation, that Mr . Sin, who did the report, did consider these, and concluded that none of them drew within this range, so, therefore, they were not -there was no need for them to be included. I just
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
added the Greenville Steam as some anecdotal supplement to that verification, if you will.
A. (Mongan) That is also my understanding, that Dr. Shi did say that, and Lou reminds me.
A. (Bravakis) Excuse me, Dr. Shi.
A. (Mongan) Yes. I mean, Bucksport, Maine, if any of you know where that is, it's got to be outside of the 100-mile circle. If it isn't, the overlap is so tiny it's infinitesimal. And, Domtar's pulp mill in Windsor, we did take into account. It's in the Canadian -- in the discussion under the Canadian effect. So, I'm quite certain we understood that these mills were there, and we did take them into account in this study.
Q. So, given what you were asked to do, in your opinion, these mills should not have been included in your study, other than --
A. (Mongan) Other than Windsor, Quebec, which, yes, we did include. Correct.
Q. At Page 17 of Mr . Liston's testimony, he makes reference to the "many smaller industrial and municipal users of biomass as well as the numerous alternative proposals of various types that would depend upon this same resource." And, that's at Lines 12 through 14.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]

And, he suggests that there is a consumer group there that would also draw from this area. Has either Laidlaw or LandVest made any efforts to try to define and understand whether or not that is something that should be included in your studies?
A. (Bravakis) I'm sorry, could you repeat your -- what's your question?
Q. The question is, is he references these "smaller industrial municipal users", okay, that clearly are not referenced in the study that has been -- either Exhibit 2 or the original study. And, I guess my question is, does either Laidlaw or LandVest believe that this portion of the consumer group or this consumer group is large enough to make a difference in the study? And, if so, why wasn't it considered?
A. (Bravakis) We don't believe that their consumption was significant to make a difference. And, if I may elaborate, in my role for Chiptec, I was responsible and successfully sold 25 systems in public schools in Vermont, started a whole public school program there. And, the largest school that we would ever put a wood chip system in would use maybe 500 tons a year. So, when you put that into the grand scheme of things, we're talking of hundreds of thousands of tons, it's
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
not worth considering. There's plenty of wood for those schools. And, as a matter of fact, the schools and municipals that use wood chips do not compete with the Laidlaw project, because it cannot use the same type of wood chip. Their chip has to be a screened wood chip, basically a paper chip coming from a hardwood mill. The schools are too small to put the type of screening and chipping equipment in that a larger biomass facility can afford. So, they have to buy pre-screened chips at much higher costs. Mr. Richmond can speak to that, because he supplies many schools.
A. (Richmond) We supply multiple schools, and that's absolutely true. They use a paper-quality, very uniform, precise chip. They do not compete with the biomass market for low grade.
Q. Okay. I'm now going to go to Page 22 of Mr. Liston's prefiled testimony. And, in this section of Mr . Liston's testimony, he points out certain assumptions about utilization that he believes are mistaken in the report. And, I'm going to -- I just want to go through each one of them with you and find out whether you agree with Mr. Liston or, if you don't agree, why you don't agree with them. And, the first one is that the
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
-- the White Mountain National Forest, and whether or not you could rely upon that area for production of biomass?
A. (Mongan) No. I mean, our report relies very little on production from the White Mountain National Forest, is the real answer.
Q. Okay. Well, he says that "no more than 40,000 tons of low-grade biomass might be obtained from White Mountains" -- "the White Mountain National Forest in the future", at Line 18. Do you disagree with that?
A. (Mongan) No, I don't necessarily disagree with that. It's, you know, they did an analysis, and we did an analysis, and we came up with a slightly different number.
Q. Okay. On Page 23, he points out that much of the land in the study area is "held by paper companies" that are subject to "fiber supply agreements", and that sort of thing. And, also, there was a letter we received from the Wilderness Society that pointed out that much of the land is family trust owned land, and that it may not produce the amount of fuel that your study asserts that it will. And, $I$ guess my question to you is, how do you respond to those assertions?
A. (Mongan) First of all, with the family trust money --
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
or, trust ownerships of some of this land, my company happens to manage quite a bit of land for family trusts. And, their forestry and their production of at least our clients is right on a par with other investors in forestland and timberland. Like most owners nowadays, they insist on good stewardship and sustainability. But, beyond that, of course, there are going to be some private owners who do not wish to cut trees. But I don't think that's a major concern. What was the other one? Had to do with fiber supply agreements?
Q. Fiber supply agreements that were, as he describes it on Line 13 on Page 23 of his testimony, that these "fiber supply agreements will dictate [and] influence and restrict" where the wood from the study area can go.
A. (Mongan) No. Clearly, there are fiber supply agreements. But I don't know that anybody has the in-depth information on what those are, other than the owners of the -- owner of the land and the owner of the agreement.
Q. How about the gentleman sitting next to you, Mr . Richmond?
A. (Mongan) I mean, I might know, too. But, if I do, it's
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
under -- I'm under a confidentiality agreement.
Q. Well, I'm not asking for any specific agreement. I'm asking for the general proposition --
A. (Mongan) Sure.
Q. -- that there are "fiber supply agreements that dictate, influence, [and] restrict" how the fuel that is removed from the northern woods can be -- where it can go?
A. (Mongan) No. Fair enough. And, I was just giving a little preamble to that. But, then, yes, there are a couple of fiber supply agreements that could have an impact. But we assign fiber to the facilities that have fiber supply agreements. So, you know, how much -- does it restrict? Perhaps. Does it restrict the shape of the amoebas that Lou alluded to? Maybe. But, certainly, the supply is accounted for in the study.
Q. Okay. So, you've accounted for those supply agreements, based upon your knowledge of the industry, when you assign --
A. (Mongan) Oh, but the consumption of those facilities is what the consumption, you know, is unchanged, regardless of the fiber supply agreements. They are going to consume that much wood.
Q. Mr. Richmond, do you have anything to add to the
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
conclusion that "fiber supply agreements would control and dictate where much of the wood from the supply area would go"?
A. (Richmond) I have a little bit, on just the suppliers I work with that have it. Usually, the fiber supply agreement, as $I$ know them, only goes down to like the bole wood, the pulpwood. Usually, the biomass, the low grade, is traded at a stumpage price of $\$ 1$ to $\$ 3$ a ton. And, it's up -- again, logistics come into play, and it's up to the logger to decide where it's going. So, from biomass up, yes, my
understanding is it is dictated where it's going. The biomass is up to the logger, and it's paid back to the landowner on a per ton basis of stumpage.
Q. That leads me to a question that has nothing to do with Mr. Liston's testimony, or maybe it does, I guess, and I've been thinking about this. But the biomass is really a byproduct of the harvesting of more valuable wood. If that's the case, then biomass shouldn't be driving how many trees are being cut down in any particular area, is that correct?
A. (Bravakis) That's correct.
A. (Richmond) It can't.
A. (Mongan) And, I think I would agree with that, too.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
Q. So, is there another study that really should be done to determine, not -- instead of considering how much biomass there may be, but a study to determine how much actual higher-valued wood we can expect to see taken out of the forest on a yearly basis going forward? I mean, we're talking about -- all these studies we've seen talk about the biomass and tons per year of biomass. But isn't the truer measure the more valuable wood?
A. (Mongan) Yes. Well, if you'd look in some of these, or, I guess both of our reports, we talk about the FIA removals data, and the states of New Hampshire, Maine, and Vermont's removal data. They look at total, total removals from the forest, or at least roundwood removals, and you have to impute what the biomass is. So, those numbers are in here. And, we do recognize that biomass is a byproduct of the sawtimber and pulpwood business. And, you know, clearly, that's what these reports are built on.
Q. And, there's been some reference that there is a glut of biomass right now, presently, you know, and may continue in the future or may not. But what's the existence of the -- what is the status of the market for the pulpwood and the sawtimber wood?
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
A. (Richmond) Well, we've seen the demise of the sawmill, and we've also seen a slowdown in the paper companies, which is driving that surplus of biomass, because the pulpwood that would normally go to the paper companies is being fed through chippers, again, getting rid of the low grade. But, as that demise comes down, we also see an up-surge in the inquiries for export of the high-grade, the high-grade logs and such. So, I think, as we see the demise of the paper companies and the sawmills, we'll see it replaced with export. And, I think it will maintain a good level. It's basic supply-and-demand.
Q. Let me ask you a question. If I'm a medium-size logger right now, do I have work today? Right now? Today?
A. (Bravakis) Where are you?
Q. I'm somewhere north of Berlin.
A. (Richmond) It depends on -- yes. It depends on how long you've been in business and how good your contacts are. I mean, moving wood in the forest products industry is based a lot on relationships. So, if you're a logger that's just getting in business today, it might be a little tough, because you can't get rid of your high-grade as good.
A. (Mongan) And, I can add briefly to that, too. We
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
manage 1.4 million acres, and at any one time have hundreds of loggers working on properties we manage. Good times come and go, bad times come and go; and right now is a slow time. But it's late this summer, really. It was a pretty good spring, pretty good winter, spring, early summer, and we've had some slowdowns lately. But most of our loggers are still working.
Q. Let me go back to Mr . Liston's testimony and draw your attention to Page 24, Line 8. In his testimony, he reminds us that "Fraser Paper [has] bought the Berlin and Gorham mills in 2002, but ran into supply and price problems related to biomass."
A. (Bravakis) I'm sorry. Excuse me. Did you say "Page 24"?
Q. Yes.
A. (Bravakis) Okay.
Q. Page 24, Line 8.
A. (Bravakis) Okay.
Q. The sentence starts "We must not forget that".
A. (Bravakis) Thank you.
Q. And, he says "The consequences of being too aggressive related to available biomass and pricing can be very damaging to the regional economy." I'm sure he's
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
referencing the shutdown of those two paper mills. And, I know this is somewhat related to the question that I asked originally. But do you -- but I want you to relate it to the Laidlaw plant this time. Do you believe that your approach is "too aggressive" and will be "damaging to the regional economy"? And, I know you don't believe it will be. But can you tell us why that statement would not be true with respect to your individual facility?
A. (Bravakis) You're correct. I do not agree. And, the reason is, you have to put this in perspective. A paper mill makes paper pulp, which, in this example, let's talk about the Fraser pulp mill. The Fraser pulp mill makes pulp, and it gets sold on the worldwide market as a commodity. Pulp is priced the same in any port-of-call around the world, because it is a commodity. And, we all know in this room that the environmental regulations to produce pulp in the State of Vermont, the wages paid to the workers in the State of Vermont, the regulatory environment or the stewardship of the forests that provide the material for the pulp in Vermont, the bar is much higher than it is in Southeast Asia, in South America, elsewhere around the wold. But the final product is still worth
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
the same amount. So, it's our belief that the pulp and paper industry has a very difficult time competing on the worldwide market because of that.

Electricity, on the other hand, is a different animal. We cannot buy electricity from biomass plants in South America or Asia. We need electricity. Before the demise of the economy, and it will come back again, it was predicted that, in spite of all the conservation, all the good intentions, a growing -- a normally growing economy in the Northeast increases by 500 megawatts a year, and it was predicted for the next ten years. That's roughly eight, either plants like ours a year in increased demand. That's a figure that I've heard previous, when the economy is growing. With the economy demise, of course, all bets are off, but it will come back again.

So, we're taking a -- what used to be made into pulp is now being made into electricity and sold to the residents in New Hampshire. As opposed to taking that same product, converting it to pulp, and selling that on a worldwide market and having to compete with other countries throughout the world. So, I don't think that you can simply compare the two and say that this, the same, what happened to the pulp and
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
paper industry would happen to the biomass industry. And, that's the reason why I don't agree with that.
Q. Let me draw your attention to Page 25, and shift your attention a little bit to this issue that I've actually asked you a couple of questions about before, Mr. Bravakis. And, that is the increase in the utilization of the tops and branches of the trees. Mr. Liston has noted that in his discussion that begins at Line 10 of Page 25. And, he asserts that your reliance on the Forest Guild is misplaced, and in support of that he provides this e-mail from Mr. Bob Perschel, who essentially says that you're "stretching the report's use of the word "suggested"." Can you please tell us to what degree you relied on the Forest Guild and their 2009 assessment?
A. (Bravakis) Okay. I will. I actually have a copy right here. There might have been a miscommunication here. I don't believe it was our intention to say that these were Forest Guild recommendations, rather than the Forest Guild published a guideline that talked about how other states deal with this. And, I'll quote one of the pages. For example, Pennsylvania's old, okay, "BMP" is the tops and branches. So, for example, Pennsylvania's old BMPs encouraged operators to use as
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
much of the harvested wood as possible to minimize debris, while the new guideline recommends leaving 15 to 30 percent of forestal biomass's coarse, woody debris. Which lines up with what we're saying of removing 70 percent. So, in fact, they say "15 to 30". They also talk about other states here. And, I believe, if you don't have a full copy of this, we can get it.
Q. We don't. We would ask that --
A. (Bravakis) So, our intention was not to say that this was the Forest Guild's recommendation, but the Forest Guild published a document that talked about other states that do have guidelines and what those other guidelines are, for a place for us to go and say "what is the impact and how do others view it?" And, maybe Mr. Mongan wants to elaborate on that.
A. (Mongan) No, I think that's fair. Yes, clearly, the Forest Guild wants to say "that's not a recommendation", and they're reasonable to say that. But it's a guideline. And, it's a guideline that we mentioned. And, we think it's a reasonable guideline, from a forestry perspective. But it's certainly not meant to be a hard line in the sand, or in the dirt, as it were. I mean, this is a process. For example, I
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
mean, we're going to do partial cuts almost all the time. Very rarely will there be a clear-cut, or, if it will, it will be a small patch cut in most of the land you find in the Northeast now. These, you know, we're talking about the buildup and breakdown of soils.

These are eons in the making, and breaking, it's the weathering of rock, and it's also the -- so, you know, to try to boil it down to, bang, a hard line that you need to leave 30 percent, it's just a guideline. But I think it's a reasonable guideline. And, as we discussed earlier today, $I$ also think that just normal forest practices are going to leave the bulk of that there, even if you had a biomass market.
A. (Bravakis) And, if I may just add, excuse me.
A. (Mongan) Go ahead.
A. (Bravakis) Maine, Maine's guideline is 20 percent to be left. So, what we did, we -- as you can see, there was one, Pennsylvania said "15 to 30", Maine said "20". So, we erred for the 30 , just to be on the conservative side.

MR. IACOPINO: With the Chairman's permission, I'm going to ask that you provide us with a copy of that document.

WITNESS BRAVAKIS: Yes. We're going to.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]

This is -- I believe they gave you a partial, but I'll get you the whole copy, "An assessment of Biomass Harvesting Guidelines", written by this gentleman, Mr. Perschel. MR. IACOPINO: Thank You. CHAIRMAN BURACK: Thank you.

BY MR. IACOPINO:
Q. At Page 28 of his testimony, Mr . Liston expresses a concern for increased rates of the primarily Public Service of New Hampshire ratepayers. And, I do have questions for you about that, but I suspect that that's going to involve us getting into the pricing contained in the confidential PPA. So, what $I$ want to make sure, though, while I have this panel here, is that, Mr. Bravakis, of the three people sitting at the dais right now, would you be the only person who would have the knowledge regarding the PPA? In other words, Mr. Richmond and Mr. Mongan --
A. (Bravakis) Yes, sir.
Q. -- probably would not be able to contribute to that?
A. (Bravakis) That's correct.
Q. So, I'll reserve that for when we go into that session. Mr. Liston also suggests that your plant, because of its size and its fuel -- actually, because of its fuel radius, is not, well, he doesn't say that "it's not
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
carbon neutral", but he suggests that it's carbon neutral to -- it's less carbon neutral than other plants, especially other smaller plants that obtain their fuel from a smaller radius. And, that discussion is on Page 29 of his testimony, and it begins down around Line 29.

And, I think it's pretty clear that your plant is a large biomass plant for this region, in an industry where, at least around here, these types of plants have been smaller in size. And, there is a certain attraction to the suggestion that, you know, smaller, more local, creates a number of advantages. Creates a reliability advantage, it creates an advantage in terms of the amount of emissions and other pollution and things that contribute to a carbon footprint. And, I guess I just want to give you a chance to answer Mr. Liston's discussion about your plant being "less carbon neutral" than, say, the Clean Power Development plant or our industry as it has existed up to this point prior to your application.
A. (Bravakis) Uh-huh. I guess what I would -- I would have to -- I would have to see the specifics of how he's -- what's backing up that statement. Let's consider -- I ask the Committee to consider a couple
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
things. And, I can supply these, if you like. There's a National Renewable Energy Lab report that compared lifecycle analysis between direct-fired biomass, closed-loop biomass, natural gas, and coal-fired power plants, and came to the conclusion that direct-fired biomass plants, and this is lifecycle, from harvesting to transporting to combustion, right through, all of the emissions taken into account, were more carbon neutral than all of the others. There is an NCASI report, and I apologize, I forget what the acronym stands for, that basically came to the same conclusion. The recent Manomet report in Massachusetts, that's created such a stir, by their own admission, states that, when you use waste products, as you've realized is used here, the carbon debt is paid off much quicker than if you're just cutting trees down for energy. And, that happened to come out the same day that a European report came out touting the carbon neutrality of biomass.

As Mr. Frecker alluded to the other day, the EPA guidelines clearly draw a distinction between geologic and biogenic CO2, saying that biogenic CO2 that dry by the cycle of forests is -- cycles in the atmosphere and does not contribute, is considered
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
carbon neutral. Margaret Mann, the author of the National Renewable Energy Laboratory, told me recently, when I had a meeting with her, that, and she said publicly at a meeting in Massachusetts, that forests are the only energy source that, if you do nothing with them, it's detrimental to the environment, through decay and methane and fires, et cetera, et cetera. So, the question isn't really, I don't think, "is the 30 megawatt plant or the 70 megawatt plant more carbon neutral, less carbon neutral, based on essentially the trucking?" The question is, "how do both of those plants compare when they replace coal or gas or oil-fired power plants?" So, I maintain and strongly believe that biomass plants, whether they're -- ours is the largest or Clean Power, which would be the third largest in the state, are carbon neutral. As long as the forests are managed in a sustainable manner. And, that is certainly our intention, as I think we've illustrated.

And, I would encourage Mr. Liston, if he has empirical data, that he could prove his case, his point here, I would encourage him to provide it, and we'd certainly review it.
Q. Have you had any opportunity to review Pages 31 through
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]

I guess it's 35 of his report, where he -- where Mr. Liston goes through a number of calculations to determine the various price per ton delivered in the various wood baskets, and ultimately concludes that, because of the reach of your study area, that you're far less efficient than, say, a 30-megawatt plant?
A. (Bravakis) I looked at it. And, I --
Q. And, do you disagree with his mathematics?
A. (Bravakis) Honestly, I really don't understand the methodology that they use. And, I guess I would defer to my colleague, Mr . Richmond, to weigh in on some of these. I'm not sure what the point is, if the point is that we're going to pay a lot more for wood, because I think that one thing -- one thing we need to understand is there's a lot of wood in this area, a lot of wood came into this facility. The fact that we say "the first level analysis goes out 100 miles", I think has been misinterpreted by some, thinking that a truck will travel full of wood chips 100 miles, and then go back 100 miles empty, and come back 11 miles full of wood chips.

From my discussions with my colleagues and my experience, that really isn't the case. And, I hope we've presented that to the Committee today. That
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
it's a myriad of interactions between truckers and loggers and marketers, et cetera, et cetera. That the most and first amount of fuel will come closest to the plant. And, as per the study that Clean Power commissioned with Innovative Natural Resources, they have concluded there's 400,000 tons within 30 miles of the facility. Obviously, that would be welcome to those loggers who come to either of our plants. So, I don't think you can simply say that, because we say "we're going out 100 miles", that the trucks will be going out dedicated that way. I think the reality is, as Mr. Richmond pointed out and we've been trying to discuss, is how these wood sheds get shaped, by efficiencies of trucking, by contracts with loggers, by networks, by markets, all of that. So, it's not a simple mathematical calculation and a conclusion to try to explain this very complex and dynamic market. So, I did read this. I can't say as I agree or understand it. What I do understand is what I've been told by my colleagues and what I've seen out there. And, I have been told, if we were to fuel that plant today, we could get a lot of fuel in for market prices. Would that be a fair statement?
A. (Richmond) Absolutely. Absolutely.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
Q. Let me draw your attention then to Page 35. I'm almost done in this exercise. On Page 35, Mr. Liston points out a question that I think probably everybody who has listened is thinking, and is rightfully concerned about. And, that is, do you believe that the fuel that will be used -- or, he's suggests that the fuel that will be necessary to fuel your plant will put an undue pressure on the wood shed, and essentially cause overharvesting, which will, in the long term, affect the sustainability of the forests up there. And, that's an issue that we really haven't addressed in talking about how much wood there is. So, can you tell us please what you believe the impact that your facility will have on the northern forests, in terms of thinking about it on the ground, from overharvesting or concerns that affect the natural environment?
A. (Bravakis) Okay. I can understand how some might believe that, when you build a biomass plant, those closest are going to cut everything down to fuel that biomass plant. It's a belief system that, unfortunately, isn't -- doesn't bear true in facts. If that were true, there's a pulp and paper mill that was in Berlin for 100 years that used low-grade material, more than what we are using. And, according to anybody
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
you speak up there anecdotally or according to the LandVest report, the forests are growing faster than they're being harvested. We have 16 biomass plants in New Hampshire, a bunch in Maine, a bunch in Vermont. If you look around them, you talk to people around them, the forests are growing and healthy and vigorous.

So, this notion that somehow a
landowner, because of a biomass plant is within their striking zone, if $I$ will, would be willing to cut down higher-grade, higher-value trees to fuel the lowest-value product, as a course of action, is simply -- it doesn't bear out in actual experience or it doesn't bear out in the practical sense. It makes no sense that you would cut down a tree that's worth hundreds of dollars and sell it for less than $\$ 10$, just because a biomass plant is there.

So, I don't think that that concept, way of thinking, actually makes sense. And, as a matter of fact, we did a little -- if you really think about it, by our plant, by a larger reach that our plant would take would have less of an impact on the forests, because we're spreading our demand over a much greater area than if we were just saying "we only want to cut on a 50" -- if we impose a limit of 50 miles for all
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
our loggers, we would put much greater pressure on that 50 miles, rather than saying "we'll go out everywhere we can, and we'll impose a sustainability policy that our suppliers have to adhere to, and we'll give them the tools to do that by allowing them to go out to more land and take advantage of trucking to do that.

So, I just want to say that, you know, there's been this notion that "the plant will consume all the wood." Now, I recall I was around when the Burlington [sic] Electric plant was first proposed. It was the first largest biomass plant in the country, a 50 megawatt plant. It's been operating now for almost 30 years. And, $I$ was recently at a conference with the plant manager, who I know. And, we were talking about how, when that plant was first proposed, there were posters that were set up that showed waves of stumps. And, we joked about it. He said, "Yes, I still have some of those posters." Turns out that the plant got over-supplied. And, if you talk to any forester in Vermont, they would want three more of those plants to be able to get rid of that low grade out of the forest, so they could improve the forest health. So, I guess I would strongly disagree with that notion that it will result in overcutting in
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
the local area. And, maybe Mr. Mongan can add to that.
A. (Mongan) Yes. If I could take some of your time, boy, I would like to add to that. Again, we manage for a lot people and a lot of different kinds of clients, from the farmer who owns 50 acres, to the professional investor who owns 450,000 acres. Most of these people are interested in the income ability of their land in the long term or the investment capability of their land, return on capital invested. As Lou says, it would be just bad financial decisions to take good growing timber and turn it into the lowest-value product. So, you know, the argument itself holds very little water.

And, then, the bigger picture context that he brought up is also true. I mean, we know that, in America, we grow more wood than we harvest every year, we know that's true in New England, we know that's true in New Hampshire. You know, there is excess wood available. So, to me, as a forester, I mean, these biomass plants are a great opportunity.

Because one thing we didn't talk about in this report is we can make these forests grow faster. We do that by thinning, just like you weed a garden. We take out the weeds, which are often
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
biomass, we get the whole forest growing faster. So, with more biomass users out there, us foresters can make the forest grow faster, and produce more higher and better products from them. So, all of the context, really, I don't think that argument holds any water whatsoever.
Q. Mr. Richmond, I want to ask you a question, because Mr. Bravakis mentioned the sustainability requirements. And, as I understand it, you'll be, assuming that contract is agreed upon, your company will be the supplier for this company. And, I take it you go to logging companies to obtain and aggregate that wood and bring it back to Laidlaw. And, my question is, how do you, on the ground, enforce sustainability requirements that may be required from your client, Laidlaw?
A. (Richmond) My current clients require that, too. Everybody I buy for has some sustainability requirements. And, that's handled by my foresters. They're out, as we speak today, I have two licensed foresters on the road visiting job sites. And, we also do polling, as I mentioned earlier. We will send out questionnaires, asking them where they're cutting, and their practices, and get the addresses, so we can go visit them. So, we poll our clients and we spot-check
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
them.
Q. And, you keep track of all this data?
A. (Richmond) Yes, we do.

MR. IACOPINO: I don't have any further questions based on Mr . Liston's prefiled testimony, Mr. Chairman.

CHAIRMAN BURACK: Thank you. I'm going to suggest that we take a break here. By this clock, it's 3:15. We will resume in about ten minutes or so, at 3:25. And, I'm going to ask the Subcommittee if we could just meet for a moment to talk about scheduling. Okay. So, we will resume at 3:25.
(Whereupon a recess was taken at 3:15 p.m. and the hearing resumed at 3:41 p.m.)

CHAIRMAN BURACK: Thank you, all. I apologize that our break was a little longer than $I$ had announced, but there was some discussions that I will share with you in a moment here that was important for us to have regarding scheduling. But, before we turn to that, I would like to ask Attorney Iacopino to mark an additional exhibit.

MR. IACOPINO: Yes. Mr. Chairman, earlier today we introduced Exhibit 62, which was the
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
"Biomass Fuel Supply Agreement" as a confidential "Exhibit 62". I am now providing the Committee, well, we have marked now "Exhibit 63", which is also a confidential exhibit and not for public disclosure, which is a redacted version of that Biomass Fuel Supply Agreement. It is a version that was supplied to Clean Power Development pursuant to the agreement of the parties. So, that's "Exhibit 63", but that is a confidential exhibit.
(The document, as described, was marked as Exhibit 63 for identification.)

CHAIRMAN BURACK: And, do you have copies at this time for the Committee members or not?

MR. IACOPINO: You already have it in 62. This just has certain portions of it redacted. If anybody wants a copy of the redacted exhibit, I can get that for you, but right now I don't have it. You already have the substance of it in Exhibit 62.

MR. ROTH: Either way, we're discussing it in the confidential session anyway?

MR. IACOPINO: Yes. But I want to make sure our record is clear.

MR. ROTH: Are we going to have like two levels of confidential sessions, one that includes --
(Court reporter interruption.)
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]

CHAIRMAN BURACK: I'm sorry. Attorney
Roth, did you have a question?
MR. ROTH: I'm sorry. I was addressing Counsel Iacopino, whether we are going to have multiple sessions of different levels of confidential discussions about Applicant's Exhibit 62 and 63, since we have one that is redacted and confidential and one that is non-redacted and sort of super confidential?

CHAIRMAN BURACK: To answer your question, which is a good and reasonable question, I anticipate that, yes, we will need to have a closed session in which we will have all of the parties entitled to see the redacted version first in the room, and then would ask those who were not entitled to see the unredacted version to leave the room, so that any further questioning related to the unredacted version, confidential version, can be had.

Okay. The next thing I'd like to turn to is a further discussion about scheduling. I have reserved this room for this Friday, August 27th, in case it is needed. Having said that, my goal is to do everything we can to try to complete testimony by the end of the day on Thursday, the 26 th. But, having said that, I think it's realistic, given the number of issues and \{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
questions that are arising in this proceeding, it's not unrealistic for us to expect that we're going to need some or all of the 27 th in order to complete the testimony here. And, again, my goal is to do everything we can to complete testimony by the end of this week in this proceeding.

Assuming that we are able to do that, my understanding from our stenographers is that they should be able to provide us with transcripts of the proceedings by the following Friday, September 3rd. My request to parties would be that, if they wish to file post hearing memoranda or briefs, that they do it with the Committee not later than September 8, with the understanding that the Committee is setting aside September 9 and September 10 for purposes of deliberation in this proceeding. And, we will identify additional days after September 9 and 10 for further deliberations, if that becomes necessary.

We are bearing in mind that our current schedule calls for issuance of a final decision by September 23rd. And, we will just have to continue to move through this process and see if that is a date that is achievable, or whether additional time may be required in the public interest to enable us to have more time to \{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
complete the process. But, again, I just wanted to give all parties a sense of what we are planning or anticipating as a Subcommittee here.

I'd like now to return to questioning of this panel. Mr. Rodier.

MR. RODIER: I'm very sorry. I have one quick housekeeping matter.

CHAIRMAN BURACK: Yes.
MR. RODIER: This has to do with the dueling versions of the Forest Guild Biomass Retention Study. I think we have resolved that matter, and I'd like Attorney Needleman to correct the record.

CHAIRMAN BURACK: Attorney Needleman, is there some statement you could make on this issue at this time?

MR. NEEDLEMAN: I suppose so. I was going to do it when I did my redirect. But, apparently, the version or the Forest Guild report, I don't know if they're different versions, the Forest Guild report that Mr. Bravakis was looking at was a 2009 version. The version that Mr. Rodier supplied to me earlier was a 2010 report. I did not realize they were different versions. I indicated that that one was incomplete. I don't know if it is or not, and probably -- I would assume it's not.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]

And, I'm sure Mr. Rodier will ask questions. But I know that the one that has been relied upon in the preparation of our materials was the 2009 version that Mr. Bravakis was reading from.

CHAIRMAN BURACK: Okay. I think, in light of what you all have just told me, I would ask that, if you could, Attorney Needleman, submit copies of both the 2009 and 2010 versions of that document.

MR. NEEDLEMAN: We'll do that.
CHAIRMAN BURACK: Thank you. Okay.

## BY CHAIRMAN BURACK:

Q. Mr. Mongan, a short while ago, when you were being questioned by Attorney Iacopino, I believe you made a statement to this effect, and forgive me, if I've misstated this, please correct me if this was not your statement. But I believe you made a statement to the effect that you believe that "LBB and CPD would be carbon neutral, as long as the forests are sustainably managed."
A. (Bravakis) I said that.
Q. Did you? You made that statement, Mr. Bravakis?
A. (Bravakis) Yes, sir.
Q. Okay. The term "sustainable" or "sustainability" has been used many, many times already in this proceeding.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]

And, I would ask you, Mr. Bravakis, first, if you would define for the Subcommittee what Laidlaw means when it uses the term "sustainable" in the context of forest management?
A. (Bravakis) I can give you a brief answer, and I would like Mr. Mongan to elaborate, if he would. My view and our view is that the forests get harvested in a manner that doesn't exceed their growth, their annual growth. And, Mr. Mongan, maybe you could elaborate on that.
A. (Mongan) Yes. It's been a subject that the forestry community has been -- or, a topic, a definition the forestry community has been debating for several years, decades, what is "sustainable"? You can define it on an annual growth basis, you can define it on a periodic growth basis, you can define it on a rotation, which is the average age the trees live in a particular area. You can define it even longer, if you choose to.

For the purposes I think that we're
discussing, we've been talking mostly about annual growth rate in this large area that our study covers, that we are calling that "sustainable". If you cut no more than the annual growth, that is clearly sustainable. Somewhere in these reports, we made mention of the fact that it doesn't always happen in a
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
straight line. Forests grow up in what we call "even-aged cohorts". That is large chunks of forest with the same age. So, at various times in their history, in the history of a forest, like the northern forest, you're going to get a lot of mature trees, and therefore you need to do more cutting, other times you're going to get a lot more young and immature trees and you've got to wait. So, with an understanding that it is a bit of a roll, but, in the end, it means cutting no more than is grown, at some defined period.
Q. And, have you, Mr. Bravakis, for this project, have you determined explicitly what that metric is that you propose to use to determine whether or not the forests from which you are drawing your wood supply are, in fact, being sustainably managed?
A. (Bravakis) I believe we've addressed that in our sustainability policy. And, if you give me a -- what I'd like to point out to the Committee is that the way we've addressed that, it's a fair and valid question, the way we've addressed it is under the -- within the context that we are the end-user. And, our intention in our "sustainability condition", as we call it, is not to impose our own guidelines and restrictions on the timberland owners, but to dovetail into existing
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
third party certifications, guidelines, regulations that already exist, many of which address sustainability. We firmly believe that it's in the best interest of landowners to act and to conduct sustainable harvesting practices. We know that registered foresters and management plans operate and are built on sustainability. And, many of the programs, such as a Sustainability Forest Initiative, the Forest Stewardship Council, the American Tree Farm System, the Green Tag Forestry are all built around sustainable practices. So, rather than us re-inventing our own set of rules and regulations, our intention, as the end-user -- and, I might add that this is self-imposed. This is, if you go to other biomass plants, you don't see them doing this. This is a voluntary effort on our part, in an effort to set -- to be the industry leader, if you will, to set a standard that we hope others will follow. And, our goal is to dovetail into existing programs, regulations, and practices that will encourage and support the landowners to provide material to us that have been harvested in a sustainable manner.
Q. Mr. Bravakis, I hear what you said, and that's probably the second or third time we've heard that testimony.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]

Am I to understand, however, that the definition that Laidlaw is adopting for "sustainability", for the purposes of this project, is that annual harvesting does not exceed growth of the forest?
A. (Mongan) No, that would be a mistake. We're talking about within the working circle, within this 100-mile radius. For example, if our farmer in Vermont, who owns 50 acres in the back of woodland, wants to log it, he's going to get a logger in there who will do probably good work under the direction of a forester, but that forest is not likely to want to be re-entered for 15 years or 20 years. So, you couldn't say to that farmer, "Well, we're going to cut one, you know, eight acres each year." It's not practical, it's not financially feasible. So, you couldn't require that on an ownership by ownership basis.

What you can require is good forest practices. And, as Lou was discussing, you know, the State of Vermont has a Forest Practices Act, the State of Maine has a Forest Practices Act, New Hampshire has the Current Use enrollment under forest stewardship. You've got it. And, as he said, many of these acres, you either have conservation easements or they're under one certification form or another. But an organization
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
like Lou's can say to a landowner, even the owner of the 50-acre farm, "we don't want to see you harvesting all your trees and building a Wal-Mart there." That's not sustainable. We can't grow trees anymore, there's pavement.

You can go further. You can say "we don't like to see bad forest practices." We don't like to let excessive rutting, mudding, streams eroded into, that sort of thing, that will hurt the productivity of the forest. You can do things like that. But you can't require -- I mean, it would be impractical, for an organization like theirs, to require each and every person they bought land from to harvest only the annual growth. So, that applies in a macro sense to the study area.
Q. Thank you. And, I appreciate all that you said, and I think we recognize that the issue of sustainability gets applied at various levels. Will you agree with that statement?
A. (Mongan) Yes, I would.
Q. It's applied at the individual landowner level, and the proposed sustainability condition that you've identified here is intended, as I understand it, to address the landowner level management of their
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
property. Correct?
A. (Mongan) Yes, sir.
Q. What $I$ am asking is that broader, more macro sense. That is, how, from an overall standpoint, of looking at the forest in this region, how is it that Laidlaw is going to know that, in fact, that forest overall is being managed on a sustainable basis? What measures or metrics will Laidlaw be looking at, over time, to determine whether that forest is being over-harvested or not? I heard your testimony earlier suggesting you don't think over-harvesting is likely to occur, for a series of reasons. But how are you going to track that? How are you going to know that that isn't happening?
A. (Bravakis) Go ahead.
A. (Mongan) There is data. The U.S. Forest Service, through their Forest Inventory Program, FIA, tracks -tracks growth and removals on northern -- on all forests in the U.S., actually. It's a sampling system, where they go out and actually sample -- have a fixed place all over the universe of forests where they find out what's happened from year to year. So, you can track FIA data through the years, and look at the growth and removal levels of northern forests.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
Q. And, I understand, Mr. Mongan, that, in your LandVest reports, you've looked at the FIA data for the time period 2002 through 2006?
A. (Mongan) That is correct.
Q. Is that the most recent data set available from the Forest Service?
A. (Mongan) It was at the time we did the study.
Q. Is there a more recent data set available now?
A. (Mongan) I believe there is.
Q. And, what time period does that data set cover?
A. (Mongan) I'm not sure.
Q. Do you have any understanding of what the standard practice is of the Forest Service? That is, do they typically look at these on a cycle of every four to five years and publish new data?
A. (Mongan) I wish I -- I believe they do. I believe it's a regular cycle. I don't know what it is exactly. But it's something -- something on the order of the number of years you've just said, every four or five years, they do something like this.
Q. So, is it your information and belief then that at this point there is a new set of FIA data that are out there?
A. (Mongan) Again, I'm not sure, but $I$ believe so.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
Q. All right. I would ask you, if you would please, to make inquiry of your office and let us know tomorrow, if that is, in fact, the case?
A. (Mongan) Okay.
Q. So, am I to understand then, based on your testimony, Mr. Mongan, that, if it were desirable to be able to determine whether or not the overall forest here in New Hampshire, actually, the broader wood basket that's been described for this project, to determine if it is being used in a sustainable manner, that the principal source of data that you would look at would be the FIA data?
A. (Mongan) It's certainly the easiest.
Q. Are there other data sets that you would look at as well for that purpose?
A. (Mongan) You can look at state harvesting data. The States of New Hampshire, Maine, and Vermont each track how much wood is removed each year. New Hampshire has got the best system of doing it, with Report of Cut, which is not voluntary. In Maine and Vermont, there are voluntary systems of tracking. They talk to people, they take surveys. But the states do, every year, report how much wood is cut. Then, you have to estimate how much wood is grown. I believe the states
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
also do that, but $I$ haven't seen their growth data.
Q. Thank you. And, Mr. Mongan, what's your understanding of what the rate is here, for example, in New Hampshire of forest conversion? That is, we currently have, in New Hampshire, the estimate or the figure that I've heard many times, and that I've repeated many times, is that New Hampshire is 84 percent forested. But I've also heard various numbers over the years as to how much land is being cut and not returned to forest uses; converted either for housing or commercial or industrial development or for other non-forestry purposes. Do you have a sense of what that number is here in New Hampshire today?
A. (Mongan) I think there have been studies. I wasn't prepared -- I didn't look any of them over on my way here today. I do know that the phenomenon is largely in southern and eastern New Hampshire. The area we are looking at more in the northern forest is much less impacted by that phenomenon.
Q. Do you see -- so, did your studies, in any manner, take into account the issue of forest conversion?
A. I believe we looked at it. I think it was de minimus to this report.
Q. Thank you. One of the aspects of the Project,
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]

Mr. Bravakis, that we haven't talked about much, other than a brief reference to it, is that you intend to install a whole log chipper at the facility?
A. (Bravakis) Yes, sir.
Q. Is that correct? Can you help us understand what the capacity would be of that, of that plant equipment, that is?
A. (Bravakis) The capacity?
Q. Yes. In other words, we've heard testimony as to the total tons per year that you anticipate using at the facility is some 750,000 tons. Of that total wood demand, how much of that do you expect to come to you as already chipped wood and how much do you expect is going to come to you as I gather it would be in the form of pulpwood that you would then chip?
A. (Bravakis) You're asking -- So, there are two questions.
Q. There really are two questions, yes.
A. (Bravakis) The question of the capacity, we're looking that up. With respect to your second question, I can't give you a definite answer to that. And, the reason is because we don't know quite yet. And, we won't know until we actually start putting the contracts together. What we have done is we've set up an area that can
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
accept 15-day supply of roundwood and 15-day supply of chipped wood. We know we'll get 15 days of chipped wood. The reason we put the roundwood storage facility up there is because we interviewed logging contractors, loggers, fuel purchasers up in the area. And, they explained to us that, as Mr . Richmond has alluded to, that a lot of the loggers currently are set up to deliver roundwood to the pulp mills. And, some of them are, you know, if 1 may, it's a ma-and-pa logging operation, maybe two or three people, maybe four. And, they're not equipped to get into debt to buy a chipper or they don't want to expand. And, we didn't want to exclude our market to them. So, we were told, and we believe the sources that informed us of this, that it would be best for the Project to be able to accept chipped and roundwood. How much? I don't know.

We also have, as we have talked about in the last couple of days, kept the option open of bringing rail in. Rail would probably best come in on a roundwood basis. It's easiest without having to deal with specialized hoppers and unloaders and that sort of thing. So, as you can see, the rail goes right by the roundwood area, but you could go to the chip area. So, we tried to -- the idea is to give as much opportunity
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
for the infrastructure, as Mr. Richmond described, to build itself and come to our facility and take advantage of this, this economic opportunity here.

So, we have also made provisions so that, in the future, we could put a chip dumping station in here [indicating], if we find that, as time goes by, the contractors feel more comfortable with the Project, that it has longevity, that they will invest in chippers, expand a little bit, and bring chips into the facility.

So, the short answer is, "we're
originally setting that up for 50/50." But, practically, $I$ can't say that's how it will come in. Maybe Mr. Richmond can add to that.
A. (Richmond) I agree. That, in the beginning, we will rely more on roundwood. It's more readily available in the North Country, due to the lack of infrastructure, plus it stores better. Doesn't catch on fire and has better water drainage. So, it lends itself very well to a project like that. It can be a little on the costly side. You're competing with the pulp markets. So, we wouldn't rely on that. We'd want to get out from under it. But, in the beginning, it's going to be necessary. But, maybe $50 / 50$, as Lou said.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
Q. Do you have an answer on the capacity?
A. (Bravakis) I have to get back to you on that. We have that in our office, so --
Q. That's fine.
A. (Bravakis) Chip capacity.
Q. Just one other related question. Are there other biomass burning facilities that you're aware of that have their own whole log chipping operations on site?
A. (Richmond) Yes. Springfield does it. Relies heavily
(Court reporter interruption.)
CONTINUED BY THE WITNESS:
A. (Richmond) Springfield Power relies heavily on roundwood. They chip their own.

BY CHAIRMAN BURACK:
Q. Forgive me, I'm going to bounce around here a little bit. But I'm trying to cover a number of issues here that may -- I hope have not already been covered. I believe we heard testimony earlier that nobody was aware of any studies looking at the use of the wood basket while the three paper mills that have now closed down were still in operation. That is, we have anecdotal information. But my understanding is nobody is aware of any published studies regarding the usage
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
rates of wood and the harvesting practices, in short, the sustainability, the sustainable use of the forests, while those paper mills were in operation?
A. (Mongan) I'm not aware of such a study. I'm going to be surprised if no one has ever done it. But I'm not aware of it.
Q. Thank you. But none of you on this panel is aware of such a study?
A. (Witness Richmond shaking head in the negative)
A. (Witness Bravakis shaking head in the negative)
Q. Okay. Thank you. I just want to come back to a question that was asked earlier by Attorney Iacopino, because I just want to make sure that we fully understand this. And, this relates to the issue of the biomass as a byproduct of the process. And, I believe you all agreed that, and I think we heard all of you say, that people would not cut high-value wood simply for the purpose of making biomass available?
A. (Bravakis) That's correct.
A. (Richmond) That's correct.
A. (Mongan) That's correct.
Q. But we've also heard you tell us that you believe that there is a glut of biomass available today, is that --
A. (Richmond) Correct.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
Q. -- a fair statement?
A. (Richmond) Yes.
Q. Is it the understanding that each of you has is that there is currently enough demand for high-grade wood to generate sufficient biomass to meet the 750,000 tons of biomass that your facility is going to require?
A. (Mongan) I could give it a try. That's a very good question. I hadn't actually thought of it in that context. Certainly, sawlog markets, high-grade markets are down from their high, as most markets are. As I mentioned earlier, we've got hundreds of loggers working on our land base that are producing logs the mills are taking. So, these are not dramatic drops, but they are drops, for sure. I would think that, in times like this, there are less chips produced or less biomass produced as a byproduct of logging, which is sort of counter to what they're saying, in terms of a "glut". But that's -- some of that's weather-related. It's been a great summer for logging.
A. (Richmond) And, I'll add a little bit more. The glut is also driven by the BCAP Program that I told you of earlier. Everybody was subsidized. These facilities that are paying in the high 20 s and low 30 s today were paying in the teens a few months ago. And, they took
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
advantage of that and they filled their facilities. Now, we're back to what we call "door prices", the market price. And, they're trying to get it in. And, that's coupled along with the paper companies have slowed down, not necessarily the demand for hardwood, but the demand for softwood. So, the softwood pulp, that normally went to the paper companies, are being put through the chippers, because they're in there for the sawlogs. So, they're taking their pulpwood, putting it in the chippers and trying to push it into a market that's already saturated with the remnants of the BCAP Program. So, we see some unusual factors at play. And, that is what's causing a lot of this glut.
A. (Mongan) Yes. And, I wouldn't -- he explains it well. I wouldn't put too much weight on the current market. It's interesting that right now there's a glut, and right now we're in the tag end of this miserable recession that's lasted forever. So...
Q. So, this is very helpful. So, let's set aside the current glut for the moment. And, let's look longer term at what is the overall integrated forestry industry here in the northern forest. Because I think we've heard testimony that all these pieces need to go together. You need the demand for the high-quality
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
sawlogs, for the veneer, for even the pulpwood, in order to support a forestry industry. Is that a fair statement?
A. (Mongan) Yes, it is.
A. (Richmond) Absolutely.
Q. Thank you. So, let's set the BCAP glut aside, that will -- how long do you think that glut is going to still be in the market? How long is it going to be for that?
A. (Richmond) It's winding down. It should be over by, you know, if we had had rain or something, as you spoke of, it would be going down. But it's compounded by good weather. It lets loggers get in the wood. So, I would think, by the end of this summer, this fall, definitely by the holiday season, it will be gone.
Q. So, let's just say beginning of the next calendar year, calendar year 2011. Is it your opinion, Mr. Mongan and Mr. Richmond, that there will be sufficient demand at that time for the high-quality or higher-quality timber and lumber to generate a sufficient amount of biomass to, for example, fuel a project, such as Laidlaw, which is going to need another 750,000 tons? Again, I understand Laidlaw is going to be 26 to 32 months before it would come on line.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
A. (Mongan) Right.
Q. But, assuming that there were such a demand as of January 1 of 2011, do you think that the current high-grade ends of the market is going to create enough biomass?
A. (Mongan) Yes. And, of course, we all understand you're asking me to make an estimation of a look at the future and look at the crystal ball. But there's still a level of utilization of high-grade sawtimber that goes on even in the depth of a market. And, I'd like to think this recession is ending sometime in the not-too-distant future. We look at, in our studies, "what is the steady state?" "What is the history?" "What is the likely future?" And, we see no reason why Americans will stop buying flooring and furniture, so -- or building houses someday. So, we expect that all of these things will get back on their trend line. We project, in some of our other work, a five year climb back to trend line. It's just what one company happens to do.

But, yes. I don't see it going down any
further. So, that's a long answer to a short interesting question. But I think the industry will normalize. And, I believe when that -- there will be
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}

# [WITNESS PANEL: Bravakis~Mongan~Richmond] 

plenty of operations going, operating high-grade sawtimber and other to take care of our supply situation.
A. (Bravakis) If I may, Mr. Chairman, on Table 3 of the LandVest study that was done for us --
Q. And, again, which exhibit are you looking at specifically?
A. (Bravakis) This is Exhibit --
Q. Is it Exhibit 2? This is the Addendum you're speaking to?
A. (Mongan) Not the Addendum, but the primary.
A. (Bravakis) The primary study.
Q. It's Exhibit $P$ in Appendix --
A. (Bravakis) And, I apologize.
Q. I mean, it's Appendix $P$ in Exhibit 1.
A. (Bravakis) Yes. LandVest indicates that, from 2002 to 2006, the growth and removal of the wood basket, I'm assuming this is per year was -- right?
A. (Mongan) Right.
A. (Bravakis) -- was the roundwood, which is made up of sawtimber and pulpwood and the tops and branches. I just want to put this in perspective, because the way I understood your question, you were saying relative to our project consuming 750,000 tons. So, the roundwood
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
removals, according to the FIA data, was roughly 5 million tons a year; pulpwood was roughly 4 million tons a year, and the tops of -- of which the tops and branch removal was roughly 2.6 million tons. So, there's ample amount, and I'm sure, you know, if we wanted to project in the future, when the economy turns around, I'm sure it's dropped off a little now, but there's plenty out there. This is in the geographic area.
A. (Mongan) Uh-huh.
Q. Okay. We have heard you, Mr. Bravakis, say several times that the work done by LandVest for your company was a high-level review, I think you used the term "50,000 foot review", and then Mr. Mongan explained and you explained it that you refined that further. But Mr. Mongan also made reference to a potential second phase of this, of the study. Have you contracted for or do you anticipate contracting for a more involved study or an econometric study, such as Mr. Mongan has described?
A. (Bravakis) We have not made a decision on that at this point. And, in light of the possible arrangements with Cousineau Forest Products to supply 100 percent of the supply, we'll have to decide whether or not we feel
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
that it's necessary for us to take that, to take that next step.
Q. So, when do you anticipate you would make that decision?
A. (Bravakis) We're close to finalizing a deal with them. And, if we finalize a deal with them, then, if we were to take that next step, it would be in joint efforts with Cousineau, who might have enough practical experience and knowledge and say they might not need it. They would be responsible for supplying the plant at that point.
A. (Richmond) And, we've been hired from numerous companies in the past to do studies, such as LandVest does. So, we're capable of analyzing our own feedstock area.
Q. So, at this point, you don't know if you're going to --
A. (Bravakis) In the near term, I would say. In the near term, we will make that decision.
Q. Thank you. I want to spend a little bit more time here, and forgive me if I'm trodding ground that you feel that we've trod before. But I'd like to spend a little bit more time on this issue of back hauling. And, if we could, I'd like to do this in the context of, if $I$ can find it here, Mr. Bravakis's supplemental
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
testimony.
MR. IACOPINO: Exhibit 10.
BY CHAIRMAN BURACK:
Q. Exhibit 10. Mr. Mongan, were you asked to review and comment on any of the testimony submitted by Mr. Bravakis or others in this proceeding?
A. (Mongan) I don't think -- oh, at what point in time?
Q. Well, for example, we have, again, it is Exhibit 10, it's the Supplemental Testimony of Louis T. Bravakis on behalf of Laidlaw Berlin BioPower. And, we received this -- I'm not sure when we received this.
A. (Mongan) So, not yesterday's testimony?
Q. This was supplemental testimony that was filed. So, I'm just looking to see if there's a date on it.
A. (Bravakis) A month ago, a few weeks ago. A month ago maybe.

MR. NEEDLEMAN: I believe the deadline for filing the supplemental testimony was July 9th.

CHAIRMAN BURACK: Yes. I do see a July 9th cover on this.

WITNESS BRAVAKIS: It's probably at the end of June. I'm sure we asked you to take a read. BY THE WITNESS:
A. (Mongan) I'm sure they asked me to take a read. But,
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]

I'm sorry, I haven't reviewed it recently.
BY CHAIRMAN BURACK:
Q. Okay. Fair enough. And, let me ask, Mr. Bravakis, other than either Mr. Mongan or somebody else from LandVest, were there any other outside reviewers of this document?
A. (Bravakis) We asked Cousineau to take a look at it as well.
Q. Okay. Mr. Richmond, were you involved in that review then?
A. (Richmond) I have reviewed it. I leave it mostly to my counterparts in the company to review. But, yes, I did quick read it.
Q. Okay. Thank you. If I could then, what I'd like to do is just draw your attention to that document. I'd just like to walk through this and ask a few questions of each of you here. On Page 1 of this supplemental testimony, at Line 17 through 18, although the question is posed on Line 16, "To what extent is availability a function of price?" And, Mr. Bravakis says, "The two are very closely related. Ultimately, the ability to procure fuel is really a competitive issue because it is highly dependent on the price a plant can pay." Mr. Bravakis, that's an accurate reading of what you
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
said here, is that correct?
A. (Bravakis) Yes, sir.
Q. Mr. Mongan and Mr. Richmond, do you both agree with that statement?
A. (Mongan) I do.
A. (Richmond) Yes.
Q. Okay. Thank you. Okay. I'd like to turn your attention to Page 2 of this document, at Line 9, where, again, Mr . Bravakis, in response to the question "Please elaborate on why Laidlaw believes there is more than enough wood to supply the plant." You say, "Today, wood brokers tell us there is more supply than demand for low-grade wood." Again, am I to understand that there was one wood broker, which is Cousineau, on which you made this statement?
A. (Bravakis) Yes.
Q. Okay. So, you relied on information from Cousineau to make this statement?
A. (Bravakis) Yes.
Q. Thank you. All right. Let me ask you now to turn to Page 3. And, there are four specific examples here of back hauls. And, the first relates to Indeck Energy Services of Alexandria. And, this reads "receives wood from up to 80 miles by direct haul and up to 150 miles
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
with back hauls." And, my question, if any of you know, is what specifically is being back hauled from Indeck?
A. (Richmond) Whole tree chips.
Q. Whole tree chips.
A. (Richmond) Oh, from Indeck?
Q. Correct.
A. (Richmond) No, that's the -- we're referring to the bark again going south.
Q. Okay. Can you explain how this process works then? What this is referring to?
A. (Richmond) Yes, I can. We supply 100 percent of the supply to Indeck in Alexandria. What I'm referring to is there's numerous trucking companies up north, in the Pittsburg/Colebrook area that we contract with. And, they go across the border into Canada every morning, let's say, and pick up a load of bark. And, as we said earlier, they will haul it down into Massachusetts or such. And, we have a concentration yard in Henniker, where we stockpile chips from local tree service guys and land conversion guys. And, they would stop in at our yard and pick up a load to back haul back up to Alexandria for us, is the most common example. It's bark mulch coming down from Canada and the northern
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
paper companies from Maine, and whole tree chips from Mass., Connecticut, or our yard in Henniker, going back north.
Q. So, correct me if $I$ have this -- don't understand this correctly then. The " 80 miles" refers to bringing wood chips directly to Indeck from a location, and going back with an empty truck. Is that correct?
A. (Richmond) Yes. That would be the short hauls, the loggers in southern New Hampshire, yes.
Q. Okay. And, the " 150 miles with back hauls" refers to this process that you just described?
A. (Richmond) Correct.
Q. Is that the same situation with each of these other facilities that's listed here, New England Wood Pellet, Springfield Power, --
A. (Richmond) Yes.
Q. -- and DG Whitefield?
A. (Richmond) Yes. Our same business plan applies to all of them.
Q. There are not different materials being back hauled, this is all bark?
A. (Richmond) No, all the same -- All of these companies that you have here could be supplied by the same supplier under us. Could go -- as I said earlier,
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
they're all on quota. So, we might give a supplier two loads at each of these facilities. So, we deliver two loads to one on Monday, Tuesday he's going to a different facility, Wednesday a different one on this list. The same supplier would go to all of these.
Q. And, back hauls could be coming from Canada, from Connecticut, from Massachusetts?
A. (Richmond) If you're talking about a northern trucking company, the Canadian load would be their front haul, that's their main. And, then, they would come to us for their back haul to get them back north.
Q. But am I to understand, based on the way you've described the markets working, that it is possible that we could be seeing hauls related to fueling of the facility in -- proposed facility in Berlin, we could be seeing hauls coming from -- or, back hauls coming from southern New England as well, is that correct?
A. (Richmond) Absolutely.

Okay. A topic that we have not touched on at all, but I would like you all to address, is the issue of control of insects and invasive plants, but particularly insects. One of the concerns that we have certainly seen here in New Hampshire is the issue of the Asian Longhorn Beetle?
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
A. (Richmond) Uh-huh.
Q. You all are familiar with that as I think --
A. (Richmond) Yes.
Q. Would you all acknowledge that is a very real concern and threat to our forests here in Northern New England?
A. (Mongan) Yes. It's a matter of degree, but, yes.
A. (Richmond) That's correct.
Q. So, perhaps a matter of degree, but --
A. (Mongan) But something we need to pay attention to, yes.
Q. Okay. So, Mr. Richmond, in the process of purchasing product to supply these various facilities in New Hampshire, which, in the future, could include the facility in Berlin, --
A. (Richmond) Uh-huh.
Q. -- what measures do you take to protect against the possibility that loads containing Asian longhorn beetles or other insects that could migrate with these materials and get into our forests. What measures do you take to address that, that risk?
A. (Richmond) Well, we've been up against quarantines in the past of different species, and we abide by them. Once again, I'm talking mostly here chipped wood, which has a mechanical mechanism that's slicing it, which
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
takes care of some of the threat. And, you know, in the past, they had a big eradication down in Worcester, Worcester, Mass., where they cut down a bunch of trees. And, we worked with the State foresters, from New Hampshire and Massachusetts, and were able to move that wood up to a burning plant and dispose of it here, so we've actually helped out with that.

So, I haven't been up against a threat where it was up to us to establish the protocol. We usually follow the quarantines and work with the State foresters on the solution end of it.
Q. So, there isn't any particular inspection protocol that you follow when you're working with loggers and when loads are coming in to your facilities to look for potential insects?
A. (Richmond) No.
Q. Mr. Mongan, are you aware of any industry practices generally that would focus on this concern?
A. (Mongan) No, I'm not. I mean, much as -- Mr. Richmond, Curt I knew, much as Mr. Richmond said, the issue is largely a matter of state regulation. And, so, that's generally where those of us who work in the private industry, leave it to the state to regulate what gets imported from where, and how it gets inspected and how
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
it gets quarantined. And, we would obviously abide by the regulations. I don't know of anyone, any private initiative to set up some sort of a protocol. There may be some, $I$ just don't happen to know of it.
Q. Thank you. I'd like to take a moment and try to just understand the scale of this facility and its usage of biomass relative to other facilities in the region and in New Hampshire. I believe we've heard testimony, and I think this was in response to some questioning from Mr. Janelle, that, if approved and constructed, the Laidlaw facility would be a large user as a biomass facility, but not a large user of low-grade wood overall, at least as compared, for example, with the paper mills. Is that a fair statement?
A. (Bravakis) Yes.
Q. If this facility is constructed, will it be the largest electricity generating biomass powered plant in New England?
A. (Bravakis) Yes. As far as I understand, it will be.
Q. Which would make it the largest such in New Hampshire as well?
A. (Bravakis) Yes, sir.
Q. What would be the next smallest biomass fueled electric generating station?
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
A. (Bravakis) Schiller Station.
Q. And, that is what size?
A. (Bravakis) Fifty megawatts, I believe. Fifty megawatts.
Q. And, the next station below that would be?
A. (Bravakis) The current station, CPD would be the next largest, if they get built, currently is, in New Hampshire? In New Hampshire? Oh, in New Hampshire, it would be Burlington [sic] Electric. Burlington Electric and, excuse me, I thought you meant in New Hampshire, Burlington Electric and Schiller are both 50 megawatt generating facilities.
Q. And, then, you've said also then the next smallest facility in New Hampshire, at least, if it were built, would be the Clean Power Development project proposed for Berlin?
A. (Bravakis) Yes, sir. At roughly 30 megawatts.
Q. Okay. And, where does it go below that, do you know?
A. (Bravakis) I think we got a list here. I believe they're more in the $15-20$ megawatt range. They're all -- all of the others, the Bridgewater, Pinetree, Alexandria, Hemphill are all in, let me get it for you, do we have the -- this doesn't give megawatts. Yeah, that's all right. There's Bridgewater -- these are all
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
roughly, $I$ would say, between 15 and 20 megawatts, if memory serves. It's Bridgewater, Whitefield Power \& Light, Pinetree Power, Hemphill Power, Ryegate, Ryegate's a little bit bigger, maybe 20-25 megawatts, Alexandria, Pinetree-Tamworth. I misspoke, Boralex, Livermore Falls, is actually a larger plant.

MR. KUSCHE: Forty-five.
BY THE WITNESS:
A. (Bravakis) And, Stratton, there are a couple larger ones in Maine. So, ours is going to be 70 gross, 63 net to the grid. The next cohort, if you will, are -there's Schiller, Burlington Electric, Stratton, Livermore Falls. Those are roughly in the 50 megawatt range. Then, the next one, if built, would be the CPD. And, then, it drops down to the 15-20 megawatts, of which were all of the ones that $I$ discussed.

BY CHAIRMAN BURACK:
Q. Thank you. That's helpful. Then, in terms of overall demand for biomass, not just the electrical generating plants using biomass, but overall demand, would there be a larger user of biomass in New Hampshire?

A single
larger user than the Laidlaw facility in Berlin, at 750,000 tons per year?
A. (Bravakis) Not now. Not since the Burgess Mill went
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
out.
Q. Okay. What would be, to your knowledge, if any of you know, what would be the largest non-electrical biomass user in the State of New Hampshire? And, do you have any sense --
A. (Bravakis) Largest non-electrical right now? Just wood pellets. The largest wood pellet manufacturer in New England is located in Jaffrey, New Hampshire. And, they use how many tons? I'll tell you what they use, I have it here. And, it's New England Wood Pellet, and they use 150,000 tons. And, they are the largest wood pellet manufacturer in New England. Huh? They don't generate, yes, it's not electric.
Q. I understand they don't generate electricity.
A. (Bravakis) Right.
Q. I know they have some kind of a facility on-site --
A. (Bravakis) Right.
Q. -- that may be some kind of a combined heat and power facility, but they're not generating electricity for the grid. I understand that. So, then, if this facility is built, your consumption of biomass would be five times greater than the largest non-electrical generating user of biomass in the state, is that right?
A. (Bravakis) That's correct, in the State of New
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]

Hampshire. But, in New England, it's smaller than the non. For example, Newpage, in Rumford, is 2.2 million tons per year, and Verso is -- the pulp mills are in that range of 2 plus million tons, quite significantly higher than our facility. But higher than the pellet operation, that's correct.

CHAIRMAN BURACK: Thank you. I don't believe I have any further questions at this time. But I'd like to see if other members of the Subcommittee have questions for this panel? Dr. Kent, do you have some questions?

DR. KENT: Thank you. I have questions for all of you. I know it's getting late, but maybe if we spread them around it won't be so bad.

BY DR. KENT:
Q. Starting with Mr. Bravakis. Are you familiar with the New Hampshire forest laws?
A. (Bravakis) I'm sorry?
Q. Are you familiar with the New Hampshire forest laws?
A. (Bravakis) Not, I mean, I've read that there are, and I've looked at them. But, to say "I'm familiar with them", it wouldn't be an accurate statement. I know they exist. But I'm not ready to take the exam on them.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
Q. It would be a short exam. You reference some other states and they have forest regulations. New Hampshire takes a different tack. And, that we have minimal laws, they deal with basal area, next to streams, rivers, and roadways. Are you familiar with "Good Forestry in the Granite State"?
A. (Bravakis) Yes. I've read that.
Q. Okay. That's how things are handled in this state. We just completed a revision, which will hit the streets in probably another month or so. Are you willing to read that and consider its incorporation or application to your "sustainable practices" document?
A. (Bravakis) I would consider it. We'd like to look at that and put it under consideration.
Q. So, maybe we can continue that discussion in the future?
A. (Bravakis) There would be a willingness to look at that. And, no, we're all for it, but we just want to make sure it makes sense for the project also.
Q. Sure. I wouldn't want to commit you to something you haven't read. But, in the absence of New Hampshire forest laws, we really need something to kind of hang our hats in, when we start asking people to comply with sustainability guidelines. And, that's probably about
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
all we have to work with, other than certification programs you've mentioned. I'm sure you're familiar with the cost of certification programs?
A. (Bravakis) I'm sorry, I'm having a --
Q. Are you familiar with the cost of certification programs? Board certifications?
A. (Bravakis) Oh. I'm not familiar, but it's --
A. (Richmond) I am.
A. (Bravakis) But my colleagues are.
Q. They're listed in your "sustainable practices" document.
A. (Bravakis) Okay.
Q. As a possible avenue for people who are providing you wood.
A. (Mongan) Uh-huh.
Q. I'll leave it at that for now. If we could turn to Mr . Richmond for just a moment, talk about some chips. Is it -- it's pretty typical to aggregate chips in New Hampshire, is that the way things work, in general? Or, are you the only aggregator? Are there a number of aggregators?
A. (Richmond) People that pile down or people that broker chips such as us? What are you -- "aggregating", to me, is piling down. Is that what you're asking me?
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
Q. "Piling down" means?
A. (Richmond) Making big piles of chips.
Q. I'm talking about somebody who is an in-between the forester, the logger in the woods, who actually is cutting.
A. (Richmond) There's another company, North Country Procurement, that tends to work more as an agent. As was said earlier, we take title to the chips, we take ownership, we arrange logistics. We pay the check run, we pay the supplier, we pay the trucker. And, there's nobody else like that that I'm aware of in New Hampshire.
Q. Thank you. So, there's -- is this, and you've spoken to -- it's typical for you to go beyond 100 miles to accumulate those chips?
A. (Richmond) Absolutely.
Q. And, then, once you accumulate them, to go another 100 miles or more to deliver them to somebody who is going to use them?
A. (Richmond) If the markets and the logistics lend themselves to that, yes.
Q. And, I believe you commented earlier that the cost of chips would increase with the distance required to transport them?
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
A. (Richmond) It's a cost driver. You try to offset it with your purchase price, going farther south into that push economy. But, yes, logistics definitely play a role. And, the farther you move the chip, the more expensive it is, yes.
Q. Does that work on the front end, too? The farther you have to bring them to you to pile them up, the more you're going to be paying for those chips?
A. (Richmond) No. No, because, as I aggregate, in my Henniker yard, for instance, I set a door price of what I'll pay, and what comes in comes in and what doesn't doesn't.
Q. Okay. You may not answer this question for confidentiality reasons, but I'll ask it. Is Laidlaw Berlin likely to pay more for chips than other facilities in this state?
A. (Richmond) No.
Q. So, somehow you'll --
A. (Richmond) I mean, if you're talking "fair market value", are they going to pay more than a facility to the south of them? Probably. But are they going to pay above fair market value? No.
Q. Okay. Well, let's put it that way. So, if you're selling chips to someone who's 20 miles from you, and
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
you're selling them to Laidlaw Berlin, is Laidlaw Berlin having to pony up more to cover the transportation delivered cost?
A. (Richmond) It would be the transportation cost, yes.
Q. Okay. Now, if you are working with a logger or a forester in Coos County, do you aggregate those chips or pile them up in Henniker --
A. (Richmond) No.
Q. -- and then get them back to Berlin?
A. (Richmond) No. They would go direct to market. The market's up north. We aggregate in the south to arrange that over-the-road truck.
Q. So, that's one way to keep your costs down?
A. (Richmond) Absolutely.
Q. Okay. Turning to Mr. Mongan for a moment. Wood availability. In the report, which I believe we're calling "Appendix P" in Exhibit 1, the first report you did, you use an inoperable/inaccessible number of "6 percent"?
A. (Mongan) Yes.
Q. And, that was based on being unable to get up a steep slope.
A. (Mongan) Yes. And, I believe, I could look it up, but I'm pretty sure we use 55 percent slope.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
Q. Slopes, right. Which is a pretty steep slope?
A. (Mongan) Yes. And, I think there was also something in there for riparian and et cetera. I'd have to look it up, but I think that's --
Q. That number, we just finished the "Good Forestry Process", and that struck me as a really low number. And, so, I talked to our Forester, our State Forester. And, he said, on State lands, our
inoperable/inaccessible is about 60 percent. And, that's high, because we're dealing with State lands, and we have to be more sensitive to other uses of the property. However, it was their opinion that -- the State Forester's opinion that 25 percent, and maybe even a little higher, is typical for inoperable/inaccessible on properties throughout the state. Do you disagree with that?
A. (Mongan) Yes, I disagree with that. I've looked at millions of acres in the Northeast through my career. I would say 6 percent is within the range of normal. And, we see from anywhere from 5, it's on the low end, we see from 5 to 10 or 12 percent. I've never seen -I mean, like something, in the White Mountain National Forest, clearly, with all the steep slopes and all the mountains, would have a high degree of inoperable. I
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
think also to keep in mind, private land was acquired by forest industry for the production of whatever their use was. So, they were looking to acquire better-than-average land, if you will. I think so. But I don't think 6 percent is unreasonable, no.
Q. Well, does that 6 percent only apply to those private lands acquired for industry?
A. (Mongan) No, it's across the board. That's a good point.
Q. But you maintain that 6 percent, in your experience, is the appropriate number to use for inaccessible/inoperable?
A. (Mongan) I think it's reasonable, yes.
Q. Okay. Thank you. The Wilderness Society, sticking on the issue of availability --
(Court reporter interruption.)
BY DR. KENT:
Q. The Wilderness Society, have you read their letter?
A. (Mongan) Yes.
Q. Okay. Then, you know that they talk about 70 percent of the acreage within the wood basket belonging to small families?
A. (Mongan) Yes.
Q. Small family ownerships?
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
A. (Mongan) I've read that.
Q. All right. And that, in their estimation, only about half of those properties are harvested per year?
A. (Mongan) That may be.
Q. Do you remember that?
A. (Mongan) I have no idea. But that's their estimation, yes.
Q. Okay. So, do you think they're accurate or inaccurate?
A. (Mongan) I think that -- I don't know, I can't comment on their accuracy, but $I$ can comment on the concept. I think, if you look at private land in the Northeast, particularly in northern New England, northern New Hampshire, it will be cut at some point, almost all of it. Whether it's this year or next year, even if this current set of landowners happens to be against cutting it, it's not to say the next set of landowners won't. I think if you spent enough time looking at the forests of the Northeast, you will find it hard to find a place where there are no stumps, where there never has been a harvest. So, I think -- I think you could say, in any given year, in any given era, you may find a large bunch of landowners who don't wish to cut their land. But will that wood find its way to the market eventually? I would -- my opinion is "yes."
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
Q. All right. Thank you. You do appreciate the importance of getting those numbers correct for this matter?
A. (Mongan) Oh, of course I do.
Q. Okay. Thank you. Your Table 3, if you could help me through this table. The first thing that caught my attention just a few minutes ago, when you were talking about "removals", I think it was actually Mr. Bravakis referred to, and correct me if I'm wrong, "the removals from harvesting data, and not total removal." Did I hear that right?
A. (Bravakis) FIA data $I$ was referring to.
Q. Right. But we're looking at Table 3, and we're comparing "Total Removal" with "Total Net Growth". Are you, in fact, using the "Removals from Harvesting Data" and not "Total Removal", to compare to "Total Net Growth"?
A. (Bravakis) $I$ was using "Total Removals" from FIA data. Q. Okay. The following line, correct? CHAIRMAN BURACK: Could I just interrupt for a moment? I just wanted to confirm, we're talking about Table 3 in Appendix $P$ to Exhibit 1? DR. KENT: Correct. CHAIRMAN BURACK: Okay.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]

WITNESS BRAVAKIS: Page 9.
CHAIRMAN BURACK: And, that appears on
Page 9 of that document?
DR. KENT: It does.
CHAIRMAN BURACK: Thank you.
BY DR. KENT :
Q. So, to make sure we're all on the same page, we're looking at "Roundwood" column?
A. (Bravakis) Yes, sir.
Q. And, we're looking at "Total Net Growth", and we're looking at "9,025,817" tons?
A. (Bravakis) That's correct.
Q. Okay. And, we're looking at "Total Removal", we're looking at "8,953,796" tons?
A. (Bravakis) From the FIA data, yes.
A. (Mongan) Yes, that's correct.
Q. Okay. All right. So, we're in the right place here. So, there have been repeated comments about "net growth exceeding total removal".
A. (Mongan) Yes.
Q. Right? The difference between those two numbers is less than 1 percent.
A. (Mongan) Yes.
Q. Are you suggesting that the FIA data is so precise that
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
we can discern a less than 1 percent difference?
A. (Mongan) No.
Q. So, let me ask you then, would you say that "total net growth exceeds total removal"?
A. (Mongan) Yes.
Q. Okay. You lost me.
A. (Mongan) Well, there are more indications than just FIA data. But -- and this is a snapshot in time as well. As I've said before, these cohorts of forests rise and fall through time. The State harvesting data, for example, from New Hampshire, Maine, and Vermont, is considerably lower than this. When we did our look at the future, and what we think is going to happen based on growth and removals going forward, we found our number was closer to the FIA number than the combined data from the three states. But it is another estimate of removals, which is the State removals estimate.
Q. All right. Bear with me.
A. (Mongan) Sure.
Q. Is there someplace else in this document that talks about growth and removal that contradicts this table?
A. (Mongan) Oh, no. I don't -- I'm sorry. I don't think the table should be contradicted.
Q. Well, you just agreed with me that a less than
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}

1 percent difference is not a significant difference?
A. (Mongan) Correct.
Q. You maintain that there is other information that shows there's a total net growth of roundwood. So, I guess I'm asking you, where is that information?
A. (Mongan) No, not the growth, the removals. The removals information from the three states combined is a lower number.
Q. So, this is beyond -- this is beyond the wood basket?
A. (Mongan) No, it's in the wood basket. I can understand the confusion. But, I mean, the FIA data is not necessarily bad, not necessarily wrong. It shows a marginal -- or, it shows an even state, growth and removals. So, if you wanted to posit that, I would say you could be right in that, for this snapshot in time.
Q. Okay. Thank you. We could repeat that procedure for "Tops and Branches" also, and you'll see the same thing, I think. It's less than 1 percent difference between "Net Growth" and "Removal".
A. (Mongan) I'm sure it is.
Q. So, I don't want to go through that whole discussion again. And, the "Pulpwood", if I'm reading this correctly, --

MR. ROTH: Excuse me. Repeating the
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
"net growth figure", the Appendix 2, Table 3, that I'm looking at doesn't have --
(Court reporter interruption.)
CHAIRMAN BURACK: I think --
MR. ROTH: I'm trying to locate, on
Table 3, the "Net Growth" figure. Oh, that's a different Table 3. Okay. I'm sorry.

MR. IACOPINO: In the Application,
Appendix P .
CHAIRMAN BURACK: Please proceed,
Dr. Kent.
BY DR. KENT :
Q. Can we look at the -- if we could look at the
"Pulpwood" column for a moment, if you could help me with that.
A. (Mongan) I'll try.
Q. "Total Removal" is "4,101,161" [4,101,167?] tons?
A. (Mongan) Yes.
Q. "Total Net Growth 2,719,676" tons?
A. (Mongan) Yes.
Q. Correct? Am I incorrect in reading that to mean that we're removing much more pulpwood than we're growing?
A. (Mongan) Not necessarily. It depends on how the FIA data was collected. They're collecting the growth data
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
based on samples in the forest, doing plot sampling out there in the forest. If they call something a piece of "sawtimber" in an analysis, then it's sawtimber. If they call it "pulpwood", it's a pulpwood. Then, they go look at what's been cut, and they do another analysis, and somehow come up with this business. So, I think, to some degree, sawtimber and pulpwood move across the line here.
Q. Okay. Just to be fair, can you understand my confusion? You've used this information to represent net growth exceeds removal.
A. (Mongan) Uh-huh.
Q. And, now, I'm trying to work through this and understand how you came to that conclusion, and you're telling me that I'm not understanding the complexities in the data and I shouldn't interpret that table that way.
A. (Mongan) You know, I think you do. I think we also do have to look at the State harvesting data. I don't think the FIA data is the be-all and end-all here. It's one measure of what has transpired in the past. We have another measure, which is that data that was collected by the various states, New Hampshire, Maine, and Vermont, in this wood basket.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
Q. And, where would I find that data in here?
A. (Mongan) $I$ know it's in the appendix.
A. (Bravakis) It's right underneath it, "Removals from Harvesting Data". It's the bottom line.
A. (Mongan) It's right on that same table, "Removals from Harvesting Data".
Q. That's the State data?
A. (Bravakis) Yes.
A. (Mongan) Yes.
Q. Okay.
A. (Bravakis) If I may?
A. (Mongan) Yes, please do.
A. (Bravakis) I had the same confusion, because it doesn't come as easily for me as it does for Mr. Mongan. And, when I spoke to Mr. Sin [sic], what he explained to me was that the FIA data is typically very conservative in what they say for removals. And, the state data, although very accurate in New Hampshire, is not quite -- he felt was under -- could be under reported in Massachusetts -- I mean, in Maine and Vermont, because, as we described before, it's voluntary. So, his analysis kind of -- he used his experience and knowledge to bridge the gap and come up with his available based on both of those two data points.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
A. (Mongan) Lou, not exactly.
A. (Bravakis) Oh, no? Okay. Maybe I didn't understand it correctly.
A. (Mongan) No. That's a measure of what has happened. The state has a measure of what has happened; FIA has a measure of what has happened. We did a study of this wood basket to look at what grows out there, using FIA data, looking at the mills that are out there currently using it, looking at their anticipated production, based on all the concentric circles and everything else, drew a conclusion going forward. Then, we looked at the past data. And, said "Okay, FIA is here, the states are here. We're well within the range. In fact, we're much closure to FIA than the state data, and, therefore, we like our result."
A. (Bravakis) Okay.
Q. Thank you.
A. (Bravakis) Thanks.
Q. On the state data, I'm a little confused about that. I just -- I talked to our State Forester just about one item. The table reports 682,229 tons of pulpwood and tops and branches removed. And, according to our Chief Forester, in 2008 he removed 41,000 tons, and he said that's pretty typical. So, when you get the state
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
data, does that come from the Department of Resources and Economic Development?
A. (Mongan) Are you talking -- I believe so, yes. But my question is, are you talking about removals from the State land?
Q. From State lands?
A. (Mongan) Okay. That's a different subject. We're talking about removals from the State of New Hampshire.
Q. Okay. Thank you.
A. (Mongan) Versus from the State --
Q. So, "State Removals" means --
A. (Mongan) The State of New Hampshire.
Q. -- anything in the state --
A. (Mongan) Within our wood basket.
Q. -- that's reported to the State for its recordkeeping?
A. (Mongan) Within our wood basket.

DR. KENT: Thank you. And, I think I'll
quit there. Thank you.
CHAIRMAN BURACK: Thank you very much.
Do other members of the Subcommittee -- you have a question?

MR. HARRINGTON: I have a question.
DIR. MUZZEY: I have a question.
MR. NORTHROP: Really quick.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]

CHAIRMAN BURACK: Okay. What I'd like to try to do, and I don't know if we can do it or not, is to see if we can get through any remaining questions in the next ten minutes or so. If we can, I recognize, Mr. Frecker, that we had asked you to be able to respond to a more detailed question. We may have to save that for tomorrow morning at this point. But we'll try to get through these questions here.

MR. NEEDLEMAN: I'm sorry, Mr. Chairman, could I interrupt for one minute?

CHAIRMAN BURACK: Yes.
MR. NEEDLEMAN: I did plan on a few minutes of follow-up questions. Will I have that opportunity?

CHAIRMAN BURACK: We will provide that opportunity, but it may be that we're going to have to do that tomorrow morning, if everybody is available here tomorrow morning.

MR. NEEDLEMAN: I don't know, I certainly know Mr. Bravakis is available, I don't know about the other two.

WITNESS RICHMOND: I will be.
CHAIRMAN BURACK: Mr. Richmond, you're
available?
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]

WITNESS RICHMOND: Yes.
WITNESS MONGAN: If there's no other
way.
(Laughter.)
WITNESS MONGAN: I've got to cancel a
whole --
CHAIRMAN BURACK: Thank you for being so
accommodating, Mr. Mongan. Okay. Please proceed.
BY DIR. MUZZEY:
Q. I'm also looking at the LandVest study in the Application, it's Appendix P. And, on Page 5, the center of the page, you talk about how the wood basket was defined and what is included and what's excluded. And, given that, if you look at Figure 1, on Page 7.
A. (Mongan) And, again, I don't have the exhibits marked on mine. Which study is it you're looking at?
A. (Bravakis) I think it's the appendix.
Q. The December 14, 2009 LandVest study.
A. (Mongan) Is that the appendix or -- I'm sorry. Could you please repeat that?
Q. So, on Page 5, you give the methodology for the wood basket. Page 7 is your figure that illustrates that wood basket.
A. (Mongan) Right.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
Q. Given your methodology, can you explain how Cheshire County and the other two southern counties are included?
A. (Mongan) I know there was a great deal of discussion about Cheshire County. I think we decided, just made an experiential judgment call that it should be included.
Q. Thank you. I just had a couple other questions. Mr. Bravakis talked about the potential for rail opportunity on the site. Could you describe how trains would come into your project area?
A. (Bravakis) Yes. This is our property [indicating]. So, obviously, this was a railbed. It would need to be rebuilt. This land is owned by Fraser. And, we've obtained easements from them for rail, to go north of the property, over an existing bridge, and make a turn and get right onto the St. Lawrence \& Atlantic line that's right over the river.
Q. Uh-huh.
A. (Bravakis) So, we have those easements.
Q. So, with that existing bridge, is that the same bridge that your cultural resources consultant --
A. (Bravakis) No.
Q. -- identified as a historic bridge there?
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
A. (Bravakis) No, ma'am.
Q. It's a newer bridge?
A. (Bravakis) No. I believe that's the bridge that's next to it. This is an active rail bridge. The other one was an historical bridge.
Q. Okay, that was my question. Did you envision sending the trains over the historical bridges or a newer bridge? There are two side-by-side.
A. (Bravakis) That's correct. And, there's one bridge that's the railroad bridge and one bridge that's the historical bridge. And, we're going over the railroad bridge.
Q. Is that a metal truss bridge?
A. (Bravakis) I believe they both are.
Q. I believe they're both considered "historic", if you look at the Cultural Resources --
A. (Bravakis) No. I don't believe so.
Q. Okay.
A. (Bravakis) But, you know, you're the head of the Historical Department, I'm not going to argue with you. (Laughter.)

BY DIR. MUZZEY:
Q. Thank you. But that's something we could check on?
A. (Bravakis) We can look into that.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
Q. Okay. Thank you.
A. (Bravakis) Okay. We're willing to do that.
Q. Okay. Thank you very much. Which would not necessarily preclude its use. In fact, a used bridge is kind of useful.
A. (Bravakis) I know we've discussed this, and I know we avoided the historical bridge. But we can look into that a little further.
Q. Okay. Thank you. And, my only other question is in regard to your sustainability policy statement. And, under the first item, under "Procurement Standards and Practices", it reads that "LBB's procurement personnel shall be licensed foresters." Do you take that, the meaning of that to extent to a procurement agent, such as Cousineau, would also -- that would also apply to them as well?
A. (Bravakis) Yes. They will. They will -- remember, these are still drafts.
Q. Right.
A. (Bravakis) When they are finalized, they will be an exhibit to the Cousineau contract. And, they will -there will be an obligation, a contractual obligation under the supply agreement.

DIR. MUZZEY: Okay. All right. Thank
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
you. That's all I have.
CHAIRMAN BURACK: Mr. Northrop. MR. NORTHROP: Yes.

BY MR. NORTHROP:
Q. I just have a couple of quick questions for Mr .

Richmond. You had mentioned something called the "push economy", which I think is, if a landowner has low-grade biomass that they want to get rid of, that they actually pay you to take it over --
A. (Richmond) No.
Q. -- or pay someone to take it over?
A. (Richmond) No.
Q. Okay. I'll ask you, maybe we could have a clarification of what that is.
A. (Richmond) A good example would be tree service people that are taking down one or two trees in your backyard down in Massachusetts. They would chip that product up on-site, and now they have to dispose of it. They could go to a landfill and dump it in a transfer station or a landfill and pay a tipping fee, or they could go to a concentration yard that either we or some of our trucking companies have set up in the Massachusetts area, and they would dump it there for a less fee than the tipping fee at the transfer station,
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
and that starts the push. That person got paid to take that product. So, then, we would purchase it at a reduced price and get the trucking under it, and that all equates to a lower cost chip delivered up here.
Q. Okay. That actually goes to what by second question was. Do you acquire low-grade biomass from other sources, such as a construction project or housing development or someone clearing a piece of property for commercial development or right-of-way clearing, and sort of other aspects other than sort of a forest management site? Do you acquire biomass in that, from those sources as well?
A. (Richmond) From a construction site, we're not talking C\&D or something like that?
Q. No, no.
A. (Richmond) You're talking the trees that were cut to prepare for the construction?
Q. Yes. Yes.
A. (Richmond) Yes, we do.
Q. Okay.
A. (Richmond) That is a push economy, too.
Q. That's part of that push economy?
A. (Richmond) Someone paid him to cut those trees down.
Q. Okay.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
A. (Richmond) So, he would fill our vans, we'd bring our vans on-site. He'd be glad to fill them to get rid of it. And, again, the push economy has started.

MR. NORTHROP: Okay. Thanks. That's
all. Thank you.
BY CHAIRMAN BURACK:
Q. Could I just ask a follow-up question on that. Do you have any estimate at all with respect to the purchasing for the Laidlaw facility as to what percentage of the wood chips the biomass might come from this push economy?
A. (Richmond) Well, it's up-and-down with the economy, obviously, out there. There's not a lot of building. So, now it's down, it was up. We expect it to come back. I would assume that, when we started, it will be under 25 percent. I can't tell you exactly how much, because the start is so far off I don't know what the economy is going to be doing. But I would not expect to see it over 25 percent.

CHAIRMAN BURACK: Thank you. Let me ask counsel and parties, I had earlier promised that we would do our best to end by 5:00 each a day, because at a certain point we all reach saturation. So, I just want to get a sense from counsel. Are there counsel that need to \{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
leave at this very moment? You do, Mr. Brooks. Does anybody else absolutely need to leave at this hour? Okay. Are you panelists okay staying for a few more minutes here?

WITNESS MONGAN: We're fine.
CHAIRMAN BURACK: Is it the collective sense that each of has five minutes or less --

MR. HARRINGTON: Five minutes.
CHAIRMAN BURACK: All right. Why don't we -- and, I know you have some questions. How much time do you think you're going to need?

MR. NEEDLEMAN: Well, I was going to make a suggestion. I can actually do my questions in a way that $I$ don't have to ask Mr. Mongan any questions, because I saw how pained he was about the prospect of coming back. So, if others could do the same, we could at least maybe release him after today.

CHAIRMAN BURACK: Okay. Why don't we try that. Why don't we see if we have any other questions for Mr . Mongan at this point. Do you have questions of Mr. Mongan?

MR. HARRINGTON: It's possible, yes.
CHAIRMAN BURACK: Okay. Why don't you
go --
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]

MR. HARRINGTON: I'll try to eliminate some of the other questions, though.

CHAIRMAN BURACK: Okay.
MR. HARRINGTON: The other people can be back tomorrow, correct?

WITNESS RICHMOND: Uh-huh.
BY MR. HARRINGTON:
Q. Okay. On the sustainability issue, this could be for, I guess, any one of you, but there's been a lot of questions about what it really is. What I'm hearing is it's going to be that written policy that's going to become part of the contract that's in draft form right now? Shaking your head doesn't work for him, I don't think.
(Court reporter interruption.)
BY MR. HARRINGTON:
Q. I'll ask the question. We've had a lot of discussion on what the sustainability policy, how it's going to be defined, where it's going to be written. Am I correct in making the assumption that that two or three page document that's going to be attached as part of the contract for procurement of the wood will be the defined sustainability policy?
A. (Bravakis) That's correct.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
A. (Richmond) Yes.
A. (Bravakis) If I could, if I may, it's also our intention that this would be attached to the Certificate as well.
Q. Okay. Now, there was a lot of talk about this going from 50 percent to 70 percent, and is it economically viable and so forth. But, I'm just trying to find out, there were statements made that, "if there were a demand for more product, then people would collect more." But I think it was Mr. Richmond who made the statement that "no one is going to probably change their logging methodology", to the effect that they basically, you know, they cut the trees and then drag them out and they lose some stuff the way they do now, but it's expensive equipment and they've got to move on. Did I misunderstand your answer to that or --
A. (Mongan) Yeah. It's not quite that straightforward, and that's the problem. Right now, what we're seeing in the North Country is its pretty common to not have a biomass market. So, when these loggers cut a tree down, they'll have a sawlog in the bottom part, let's say, for example, and a piece of pulpwood that they can send to a pulp mill in the next piece. They will leave the rest of the tree in the forest. If there were a
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
biomass plant there, they would take part of that upper portion of the tree that they normally leave in the forest out. So, we're thinking we can -- and, so, that's where you go from the 50 to 70 percent. If they all had got up and took more of the topwood out than they have been taking, then you can move up the utilization a little bit.
Q. So, you're talking about taking 50 -- just going from 50 to 70 percent of the entire tree?
A. (Mongan) No, 50 to 70 percent of the top, the biomass.
Q. Oh, the top. So, you're taking some of that now because the market's limited. And, if --
A. (Mongan) "Limited" is the right word, yes.
Q. Okay. If the market increases, they will just collect more because it will be worth their while?
A. (Mongan) Exactly.
Q. Okay. This is in Exhibit 10, and it is in Bravakis's testimony, but I think the question could probably apply to all three of you. And, this is on Page 2 of Exhibit 10. And, it says, it's on Line 9, "Today, wood brokers tell us there is more supply than demand for low-grade wood. That makes perfect sense given recent experience. For example, just four years ago, there were three facilities utilizing low-grade wood in the
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]

North Country", and I could keep reading, and those are closed. They used to "consume 1.3 million tons". So, "based on this, we know there was a substantial supply."

But I'm getting a little confused here, because I seem to hear that "we had these paper mills that were open before, and they're now shut down, so we know there's all this extra wood out there that's not being used. So, we'll have plenty to burn at Laidlaw." But, then, I hear "no one is going into the woods to cut down trees unless there is a market for pulp and sawlogs, because it just isn't economical to cut down a tree and burn the whole thing." So, I'm kind of in a Catch-22 here. Which is correct? Are we going to cut -- why are we going to cut down the whole tree just to supply Laidlaw, if there isn't another market for the money part of the tree?
A. (Bravakis) Let me see if I can, this is something that's been coming up quite a bit.
Q. Yes. And, I keep -- seem to be going around in circles.
A. (Bravakis) Right. So, I'm going to take a couple minutes and describe, I've been thinking about some type of an example to describe the market dynamics in
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
an economic sense. We all assume there's enough wood available growing on a sustained basis, so that's a given. So, I've been trying to, and with my colleagues, trying to put this in a perspective so the way we can understand it, since we're all not loggers and foresters and not familiar with the movement.

So, we all use airplanes. So, we came up with a concept of think of three cities, and each city has an airport in it. And, they're side-by-side. Each airport can serve $X$ amount of customers, say 100 per airport. Let's say the middle airport, for one reason or another, goes out of business; mismanagement, et cetera, et cetera. There's still 100 people that need to fly. They will -- some of them might decide "Well, I don't really need to fly. I'll take a bus." Or, "I don't need to go on that vacation", so they don't go. But most of them will migrate over to those other airports. That will put more pressure on those airports, prices will rise, et cetera. Some of those who don't want those higher prices might migrate down to more regional airports. The market gets an equilibrium.

Now, all of a sudden somebody comes in and says "Boy, here's an area that's underserved. We
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
think there's 100 people that will fly." And, they put in an airport. So, what happens? The 100 that left will now come back, and the ones that left will now come up. So, the market once again re-establishes equilibrium.

That's kind of an economic dynamic of the way wood moves. But, in our case, instead of purchasing a service, flying, the contractors are supply the service or product, wood chips.

So, to answer your question, it's not that -- what Mr. Richmond was referring to was that 10 percent, who decided "Nah, it's not worth flying." You know, "I'll take a bus." Or, "I won't take that vacation", et cetera, et cetera. Those are the logging contractors who say, "Eh, you know, I'm 50 years old. My son doesn't want to take it over. I'm been banging my head against the pulp market going up and down, I'm just going to get out of business." So, they get out. But, for the vast majority, a lot of them start moving out. In this case, it's the woods moving out into these other markets.

When we come back in, a lot of that same wood will now move back to us. And, perhaps some of the sons, or those guys who went a couple years with an
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
excavator and the contracting business, didn't like it, said "you know, now there's a market here, maybe I'll get back into logging, $I$ kind of miss it." And, I believe that's what he was talking about referring. So, when we talked yesterday about the 6 million, and then 750, it's going to be 750. That new airport won't serve 200 people, because it identifies there's 100 people that can fly, and it has capability of 100 people, it will serve the 100 people that come back in. So, I don't know if that's helpful at all in describing the market dynamics in an economic sense. But I know it was helpful to me, because yesterday $I$ was struggling trying to get that across. I hope it helps answer your question.
Q. Well, it does to some extent. But I'm still -- and just I may need a couple of clarifying questions. So, what you're saying is that, when these pulp mills closed, the Fraser and Wausau and Gilman Paper closed, that previously consumed 1.3 million tons that, which $I$ assume is on an annual basis, that you didn't stop consuming that 1.3 million tons, the product just went to somebody else?
A. (Bravakis) That's correct.
A. (Mongan) That's correct.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]

Okay. But, reading your statement, it seems to indicate that you're saying, "based on this experience that there used to be 1.3 million, we know, in fact, there's a substantial supply, far in excess of what we expect to use." So, it's not going to really create much more biomass, other than the going from the -- for use in the plant, other than going from the 50 percent to the 70 percent. Because these logs, if they continue to be cut, they're going someplace else, not to supply other biomass markets, or maybe they still are, but most of it's going to the pulp markets someplace else, because they don't cut down trees for biomass plants, correct?
A. (Bravakis) They don't cut down -- but the point on the utilization piece is that, now that -- okay, now the airport or the biomass plant now comes in, so the fliers, the people who want to fly come back. But, in this case, they say "Oh, it's brand new, it's a different type of facility. And, guess what, they can take my tops and branches as well. So, now, it's a better opportunity. Because not only can I sell the pulpwood, I can still sell that to the pulp markets, but now the shortest piece of the $\log$ and the tops, I have a market for it. So, I can utilize, when I go in
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
the woods to harvest, I now can come out with more product, and I increase my, basically, economy of scale, if you will. You know, I mobilize on-site. I can create more product for pretty much the same effort."
Q. Maybe just one -- a couple of questions here to clarify. When you talk about then, when you say "In total, they consumed approximately 1.3 million tons of low-grade wood per year", they were -- those three entities were consuming pulp logs, not a biomass --
A. (Bravakis) No, all. All three.
Q. All three.
A. (Bravakis) On both, pulp and biomass and bark, because they all had biomass boilers.
A. (Mongan) Oh, that's true.
Q. Okay.
A. (Bravakis) And, excuse me, Ray told me he was going to say the same thing, I think. And, they had pulp, pulping operations and biomass boilers.
Q. So, some of this 1.3 million will be freed up to supply the Laidlaw facility. But most of it will continue to go someplace else in the form of pulp logs?
A. (Bravakis) It depends on the trucking and the transportation and the value. It's a comparative
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
economic situation, where the landowners are weighing the stumpage value of the product, along with the trucker, compared to the trucking distance and the return on that. And, pulp markets come and go, so there's uncertainty there. So, they do that analysis and they weigh that, and say "well, maybe" -- because remember what pulp is: Pulp is just roundwood that goes in to get -- to be made into a chip, a higher grade chip that gets processed, but it doesn't get made into lumber, it doesn't get made into that type of a product. It gets chipped up. So, it could get chipped up for energy, as well as it could get chipped up for paper, depending on the various economics of transportation, pulp markets, price that we're paying for biomass, all of those things. So, that's --
Q. Now you seem to be -- excuse me, but now you seem to be saying that some trees are cut down just for energy?
A. (Bravakis) Low-grade trees could be.
A. (Mongan) Some are.
A. (Bravakis) Low-grade, not sawtimber.
Q. Okay.
A. (Bravakis) The low-grade trees. And, in fact, in the INR study that was done for Clean Power, they assumed that a third of the pulpwood would be directed into
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
biomass plants, along with the tops and branches, and probably a reasonable assumption.

CHAIRMAN BURACK: ExCuse me.
Mr. Harrington, do you have further questions for Mr . Mongan?

MR. HARRINGTON: One last question on
this, and I think -- no, I think that's actually for Mr. Richmond. He had made -- there was another question on something he had said. I think one last question, Mr. Mongan.

WITNESS MONGAN: Sure.
BY MR. HARRINGTON:
Q. Which is, you made some statement about "it wouldn't be considered sustainable if someone was going to cut down their woods or their farm and turn it into a Wal-Mart." But, in effect, if someone had already sold the land to Wal-Mart and they were cutting down the wood, you wouldn't refuse to buy the wood?
A. (Mongan) Oh, God, no.

MR. HARRINGTON: Okay. I just wanted to make sure. You made it sound like that was the case. That's all $I$ have. I do have some more questions for the other two gentlemen.

CHAIRMAN BURACK: Okay. Thank you. Any
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]
other questions from the Subcommittee for Mr. Mongan? (No verbal response) CHAIRMAN BURACK: All right. Attorney Needleman, you had some final questions for Mr. Mongan, is that correct?

MR. NEEDLEMAN: I don't. I had one or two, and I can just ask another party. So, I'm done for today.

CHAIRMAN BURACK: Okay. Very good. What I -- before we actually adjourn for the day, I just want to talk briefly about what we might anticipate doing tomorrow. I think we will, when he reconvene tomorrow at 9:00, we will start with Mr. Bravakis and Mr. Richmond for any wrap-up questions on these related issues. Again, Mr. Mongan, we thank you very much for being here today. Appreciate your taking the time to answer our questions, and we'll appreciate hearing, through Mr. Needleman, responses to the questions that you have that I think you need to get back to us on.

Tomorrow, if we were to follow the agenda that we had set out here, the next set of panelists that we would get to would be Mr. Bartoszek and Mr. Strickler together, followed by Mr. Kusche. And, then, we would turn to the City of Berlin's case in chief. \{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]

But, Attorney Schnipper, I want to make sure I understand, was there some limitation in Ms. Laflamme's availability this week?

MR. SCHNIPPER: If at all possible, she would like to be able to be here today, that has to do with a personal commitment -- I mean, sorry, tomorrow.

CHAIRMAN BURACK: Tomorrow.
MR. SCHNIPPER: She was initially planning on being here today.

CHAIRMAN BURACK: Okay.
MR. SCHNIPPER: Obviously, we moved it to tomorrow.

CHAIRMAN BURACK: All right.
MR. SCHNIPPER: So, at this point, I advised her that she would probably be on tomorrow afternoon.

CHAIRMAN BURACK: Okay.
MR. SCHNIPPER: And, I was just writing to suggest it might be Thursday, but --

CHAIRMAN BURACK: Well, what I -- again, I don't want to make anybody's life more difficult than it needs to be. I guess the question, Attorney Needleman, for you would be, would it be -- would it be inconvenient to you and to your witnesses if we were to take Ms.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]

Laflamme out of order before some or all of your witnesses tomorrow?

MR. NEEDLEMAN: No, that's fine.
Ideally, maybe we could get through the next panel, and then take her before we got to Mr. Kusche, but I just don't know how long the next panel will go. But I don't want to inconvenience her.

CHAIRMAN BURACK: Okay. Thank you. Why don't we plan that that's how we will proceed. We will -when we wrap up this panel tomorrow, and I would like to think that's not going to take us terribly long to do, we will then turn to Mr. Bartoszek and Mr. Strickler. And, then, once we've completed their examination, we will then turn to Ms. Laflamme. So, we will make -- we will be sure that we get to her tomorrow.

MR. SCHNIPPER: Wonderful. Thank you. It's appreciated.

CHAIRMAN BURACK: Then, I would -- I'm thinking that, again, my hope would be that we could complete Mr. Kusche's examination possibly tomorrow as well. And, then, I'm sorry, Mr. Rodier is not here. I don't know -- we're going to have to determine whether or not we're going to take our closed session before or after we have heard the testimony of Messrs. Liston and Gabler.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}
[WITNESS PANEL: Bravakis~Mongan~Richmond]

And, we'll sort through that and work that out. So, that closed testimony session could be -- at this point, it's certainly not tomorrow, it's looking like it could be Thursday, it could be Friday.

Mr. Bravakis, you had a question?
WITNESS BRAVAKIS: Mr. Chairman, I have a question. Did you want our engineer, Mr. Frecker, to join us in the morning to answer those two questions on the permitting site. He travels a long distance, I want to make sure he's --

MR. NEEDLEMAN: He's here on time. CHAIRMAN BURACK: I know he says that he would prefer not to join you, but I think it would be helpful if he could.

MR. FRECKER: I have no problem with it. CHAIRMAN BURACK: Okay. Thank you. So, if that were possible, that would be helpful, if he could join this panel in the morning. And, anything else?
(No verbal response)
CHAIRMAN BURACK: Okay. Very well.
MR. HARRINGTON: Tomorrow morning at
9:00, Mr. Chairman?
CHAIRMAN BURACK: Yes. That's correct.
We will plan to reconvene at 9:00 tomorrow morning.
\{SEC 2009-02\} [Day 2/Afternoon Session] \{08-24-10\}

## [WITNESS PANEL: Bravakis~Mongan~Richmond]

Anything else from any of the parties?
(No verbal response)
CHAIRMAN BURACK: If not, again, I thank you all very much, and we will adjourn until 9:00 tomorrow morning.
(Whereupon the hearing was adjourned at 5:20 p.m., and the hearing to reconvene on Wednesday, August 25, 2010, commencing at 9:00 a.m.)
\{SEC 2009-02\}[DAY 2 - PM SESSION] - August 24, 2010 LAIDLAW BERLIN BIOPOWER, LLC

|  | 1:31 (1) | 48:18;49:13,14,22; | 22;130:1,6,7 | 10;149:15;151:7 |
| :---: | :---: | :---: | :---: | :---: |
| \$ | 4:2 | 53:11;102:9;107:8; | 3:15 (2) | $50,000(1)$ |
|  | 10 (13) | 117:4;130:1;146:19 | 78:9,1 | 103:14 |
| \$1 (1) | 31:15;40:5;42:7;64:9; | 2,719,676 (1) | 3:25 (2) | 50/50 (2) |
| 58:8 | 81:15,17;105:2,4,8; | 130:19 | 78:9,12 | 95:12,24 |
| \$1,500 (1) | 123:21;146:17,20; | 2.2 (1) | 3:41 (1) | 500 (2) |
| 19:10 | 149:12 | 117:2 | 78:14 | 53:22;63:11 |
| \$10 (1) | 100 (22) | 2.6 (1) | 30 (13) | 50-acre (1) |
| 74:15 | 6:10;7:10;23:4;29:7; | 103:4 | 22:20;28:21;34:17; | 88:2 |
| \$14(1) | $\begin{aligned} & 34: 24 ; 45: 5 ; 71: 17,19,20 \\ & 72: 10 ; 73: 23 ; 103: 23 ; \end{aligned}$ | $20(8)$ | $\begin{aligned} & \text { 44:16;65:3,5;66:9,18,19; } \\ & 70: 9 ; 72: 6 ; 75: 13 ; 114: 17 \end{aligned}$ | $\begin{array}{\|c\|} \text { 50-mile (2) } \\ 21: 14 ; 30: 22 \end{array}$ |
| 19:12 | $\begin{aligned} & 72: 10 ; 73: 23 ; 103: 23 ; \\ & 108: 12 ; 120: 14,18 \end{aligned}$ | $\begin{aligned} & 7: 11 ; 44: 15 ; 51: 10 ; \\ & \text { 66:16,18;87:12;115:1; } \end{aligned}$ | 70:9;72:6;75:13;114:17 30-megawatt (1) | $\begin{array}{\|c} \text { 21:14;30:22 } \\ \mathbf{5 3 3}, \mathbf{7 2 1}(\mathbf{1}) \end{array}$ |
| \$15 (1) $19: 12$ | $148: 10,13 ; 149: 1,2$ | $\begin{aligned} & \begin{array}{l} 6: 16,18 ; 87: 12 ; 115: 1 ; \\ 121: 24 \end{array} \end{aligned}$ | 71:6 | $\begin{aligned} & 33,721(1) \\ & 45: 22 \end{aligned}$ |
| \$2 (1) | 150:7,8,9 | 200 (1) | 30s (1) | 55 (1) |
| 13:12 | 100-mile (7) | 150:7 | 98:23 | 122:24 |
| \$3 (1) | 27:13;29:10;30:14; | 2000 (1) | 31 (1) | 550,000 (1) |
| 58:8 | 51:16,18;52:8;87:6 | 13:14 | 70:24 | 45:14 |
| $\$ 5,000(1)$ | 100s (1) | $\begin{aligned} & 2002(3) \\ & 61: 12 ; 90: 3 ; 102: 16 \end{aligned}$ | 32 (1) | 6 |
| 19:11 | 10th (1) | $2006 \text { (2) }$ | $35(3)$ |  |
| [ | 50:23 | 90:3;102:17 | 71:1;73:1,2 | 6 (10) |
|  | 11 (3) | 2008 (5) | 38 (1) | 20:19;21:19;27:11; |
| [4,101,167] (1) | 34:2,8;71:20 | 15:16,21;47:24;48:14; | $50: 22$ | 34:8;122:19;123:19; |
| 130:17 | $12 \text { (9) }$ | 133:23 | 3rd (1) | $124: 5,6,10 ; 150: 5$ |
| [about] (1) | 15:11,13;18:2;19:10; | 2009 (6) | 81:10 | 6.5 (3) |
| $31: 7$ [and] (2) | $\begin{aligned} & 36: 3 ; 37: 21 ; 38: 2 ; 52: 24 ; \\ & 123: 21 \end{aligned}$ | $\begin{aligned} & 45: 22 ; 64: 15 ; 82: 20 ; \\ & 83: 3,8 ; 136: 18 \end{aligned}$ | 4 | $\begin{aligned} & 31: 12,13,14 \\ & \mathbf{6 0}(\mathbf{1}) \end{aligned}$ |
| [and] (2) 56:14;57:6 | 13 (2) | $2010 \text { (3) }$ |  | 123:9 |
| [fuel] (1) | 38:15;56:13 | 82:21;83:8;159:8 | 4 (5) | 62 (5) |
| 34:19 | 14 (4) $39 \cdot 13 \cdot 42 \cdot 11 \cdot 52 \cdot 24$. | 2011 (2) | 18:16;19:10;20:18; | 78:24;79:2,14,17;80:6 |
| [has] (1) | 39:13;42:11;52:24; $136: 18$ | $\underset{\text { 10-25:17; }}{\mathbf{2 0} \text { (101:3 }}$ | 38:15;103:2 | $63 \text { (5) }$ |
| 61:11 | ${ }^{136: 18}$ | 20-25 (1) | 4,101,161 (1) | 79:3,8,10;80:6;115:10 |
| $\begin{gathered} \text { [indicating] (2) } \\ 95: 6 ; 137: 12 \end{gathered}$ | 15 (7) $42: 12 ; 65: 2,5 ; 66: 18 ;$ | 20s (1) | 40 (1) | $\begin{gathered} \mathbf{6 8 2 , 2 2 9}(\mathbf{1} \\ 133: 21 \end{gathered}$ |
| [is] (1) | 87:12;94:2;115:1 | 98:23 | $30: 8$ |  |
| 42:21 | 150 (2) | 22 (2) | 40,000 (1) | 7 |
| $\begin{aligned} & \text { [Richmond] (1) } \\ & \text { 15:2 } \end{aligned}$ | $\begin{gathered} \text { 107:24;10 } \\ \mathbf{1 5 0 , 0 0 0 ( 1 )} \end{gathered}$ | $\begin{aligned} & 39: 13 ; 54: 17 \\ & \mathbf{2 3}(\mathbf{3}) \end{aligned}$ | $55: 7$ $\mathbf{4 0 0 , 0 0 0}$ (1) | 7 (9) |
| [Shi] (1) | 116:11 | 50:22;55:15;56:13 | 72:6 | 24:4;27:12;30:19; |
| 51:5 | 15-20 (2) | 23rd (1) | 41,000 (1) | 47:23;48:3,4,19;136:14, |
| [sic] (6) | 114:20;115:15 | 81:21 | 133:23 | 22 |
| 22:2;40:9;51:20; | 15-day (2) | 24 (3) | 45 (8) | 7,600 (1) |
| 75:10;114:9;132:15 | $94: 1,1$ <br> 15-megawatt (1) | $\begin{aligned} & 61: 10,15,18 \\ & 5(9) \end{aligned}$ | $\begin{aligned} & 34: 18,21 ; 35: 3,6,24 \\ & 36: 21: 37: 3.11 \end{aligned}$ | $\begin{array}{r} 32: 15 \\ \mathbf{7 0}(\mathbf{1 3}) \end{array}$ |
| 1 | 19:14 | 18:17;22:20;53:19 | 450,000 (2) | 22:1;38:13,18,22; |
|  | 16 (6) | 19;159:8 | 46:1;76:6 | 65:5;70:9;115:10; |
| 1 (21) | 42:2,10;46:13;50:20; |  | 5 | $\begin{aligned} & \text { 124:20;145:6;146:4,9, } \\ & 10 ; 151: 8 \end{aligned}$ |
| 4:18;14:21;15:9; $18: 16: 30: 21: 32: 22$ | $\begin{aligned} & 17 \text { (2) } \\ & 52: 20 ; 106: 18 \end{aligned}$ | $26 \text { (2) }$ |  | 748 (2) |
| $37: 10,12 ; 40: 23 ; 41: 6$ |  | 26th (1) | 5 (9) | 35:7,7 |
| $42: 13 ; 101: 3 ; 102: 15$ | 18 (2) | 80:23 | 35:11;42:2,10;46:13; | 750 (3) |
| $106: 17 ; 122: 17 ; 126: 22$ | 55:10;106:18 | 27th (2) | 103:2;123:20,21;136:11, | 26:2;150:6,6 |
| 127:22;128:1;129:1,18; | 180 (1) | 80:20;81:3 | 21 | 750,000 (7) |
| 136:14 | 6:24 | 28 (1) | 5:00 (1) | 35:7;39:5;93:11;98:5; |
| 1,056,521 (1) | 19 (1) | 67:7 | 142:22 | 100:22;102:24;115:23 |
| 44:12 | 18:16 | 29 (2) | 5:20 (1) |  |
| 1.3 (6) | 1986 (1) | 68:5,6 | 159:7 | 8 |
| 147:2;150:19,21; | 13:13 | 3 | $\begin{aligned} & 50 \text { (25) } \\ & \text { 18:20;20:11,13;22:1; } \end{aligned}$ | 8 (7) |
| 151:3;152:8,20 | 2 |  |  |  |
| 1.4 (1) |  | 3 (11) | 31:7,17;34:15,22;35:15, | 20:20;31:20,23;34:17; |
| $61: 1$ 1.7 | 2 (14) | $\begin{aligned} & \text { 15:8;18:2;20:18; } \\ & \text { 102:4;107:21;126:5,13, } \end{aligned}$ | 76:5;87:8;114:11; | 8,953,796 (1) |
| $37: 11$ | 28:18;41:4,6;46:11; |  | 115:13;145:6;146:4,8,9, | 127:14 |

\{SEC 2009-02\}[DAY 2 - PM SESSION] - August 24, 2010 LAIDLAW BERLIN BIOPOWER, LLC

| 80 (4) | accommodate (1) | added (1) | Agency (1) | almost (5) |
| :---: | :---: | :---: | :---: | :---: |
| 23:4,8;107:24;109:5 | 5:15 | 52:1 | 6:5 | 23:12;66:1;73:1; |
| 800,000 (1) | accommodating (1) | Addendum (13) | agenda (1) | 75:12;125:13 |
| 16:19 | 136:8 | 39:22;41:4;47:15; | 155:21 | along (6) |
| 80s (3) | according (6) | 48:7,24;49:10,11,12,17; | agent (2) | 8:15;27:7;28:13;99:4; |
| 14:19;19:4;22:14 | 35:5;40:3;73:24;74:1; | 50:23;51:4;102:9,11 | 120:7;139:14 | 153:2;154:1 |
| 820 (1) | 103:1;133:22 | addition (1) | aggregate (5) | Alrighty (1) |
| 38:14 | account (4) | 6:8 | 77:12;119:18;121:9; | 29:16 |
| 823,700 | 52:10,13;69:8;92:21 | additional (5) | 122:6,11 | alter (1) |
| 32:21 | accounted (2) | 6:11;50:22;78:22; | aggregating (1) | 42:13 |
| 83,000 (1) | 57:16,17 | 81:16,23 | 119:23 | alternative (1) |
| 46:3 | accounts (2) | address (5) | aggregator (1) | 52:22 |
| 84 (1) | 5:12,13 | 28:4;86:2;88:24; | 119:20 | although (4) |
| 92:7 | accumulate (2) | 110:20;111:20 | aggregators (1) | 42:16;46:14;106:18; |
| 87.5 (1) | 120:15,17 | addressed (4) | 119:21 | 132:18 |
| 35:11 | accumulation (1) | 73:11;85:16,19,20 | aggressive (2) | always (3) |
| 875,000 (2) | 43:12 | addresses (1) | 61:22;62:5 | 5:15;23:15;84:24 |
| 34:7;35:12 | accuracy | 77:23 | ago (8) | America (3) |
| 9 | 125:10 | addressing (1) | 20:17;83:12;98:24; | 62:23;63:6;76:16 |
| 9 | acc | -3 | 105:15, | American (1) |
|  | 5:20,23;46:19 |  |  |  |
| 9 (9) | 22;106:24;117:22 | 75:4 | agree (24) | Americans (1) |
| 32:17,22;38:2;81:14, | 125:8;132:18 | adjourn (2) | 18:21;21:21;31:8,10; | 101:15 |
| 17;107:8;127:1,3; | achievable (1) | 155:10;159:4 | 32:11;33:6;34:11,12,13, | amoeba (1) |
| 146:20 | 81:23 | adjourned (1) | 14;37:13,14,19;40:6; | 40:11 |
| 9,025,817 (1) | acknowledge (1) | 159:6 | 54:23,23,24;58:24; | amoebas (1) |
| 127:11 | 111:4 | adjusted (1) | 62:10;64:2;72:19;88:18; | 57:15 |
| 9:00 (5) | acquire (3) | 42:17 | 95:15;107:3 | among (2) |
| 155:13;158:22,24; | 124:3;141:6,11 | admission (1) | agreed (3) | 7:16,19 |
| 159:4,9 | acquired (2) | 69:14 | 77:10;97:16;128:24 | amount (13) |
| 90 (1) | 124:1,7 | adopt (1) | agreement (9) | 5:18;7:15;8:5;32:20; |
| 44:3 | acreage (1) | 50:18 | 5:9;56:21;57:1,2;58:6; | 42:14;45:7;55:21;63:1; |
| 900,000 (1) | 124:21 | adopting (1) | 79:1,5,7;139:23 | 68:14;72:3;100:20; |
| 36:7 | acres (7) | 87:2 | agreements (12) | 103:5;148:10 |
| 910,000 (1) | 61:1;76:5,6;87:8,14, | advantage (5) | 22:17;55:17;56:11,12, | ample (1) |
| 38:14 | 22;123:18 | 68:13,14;75:6;95:3; | 14,18;57:5,11,13,18,22; | 103:5 |
| 949,615 (1) | acronym (1) | 99:1 | 58:1 | analysis (13) |
| 38:5 | 69:10 | advantages (1) | agrees (1) | 25:6;37:1,15;39:20, |
| 9th (2) | across (4) | 68:12 | 34:21 | 23;55:12,13;69:3;71:17; |
| 105:18,20 | 108:16;124:8;131:8; | advised (2) | agricultural (1) | 131:3,6;132:22;153:5 |
|  | 150:13 | 16:12;156:15 | 12:11 | analytical (1) |
| A | act (3) | affect (2) | ahead (3) | 27:4 |
|  | 86:4;87:19,20 | 73:9,16 | 4:4;66:15;89:15 | analyzing (1) |
| abide (2) | action (1) | afford (1) | Air (5) | 104:14 |
| 111:22;113 | 74:11 | 54:9 | 33:11,15;35:4;38:3,7 | Androscoggin (1) |
| ability (2) | active (1) | afternoon (1) | airplanes (1) | 44:11 |
| 76:7;106:21 | 138:4 | 156:16 | 148:7 | anecdotal (2) |
| able (10) | actual (5) | again (30) | airport (7) | 52:1;96:23 |
| 16:12;67:19;75:21; | 10:18;39:21;49:24; | 12:24;15:8;16:10 | 148:9,10,11,11;149:2; | anecdotally (1) |
| 81:7,9;91:6;94:15; | 59:4;74:12 | 38:21,24;45:4;46:9 | 150:6;151:16 | 74:1 |
| 112:5;135:5;156:5 | actually (30) | 58:9;60:5;63:8,16;76:3; | airports (3) | anecdote (1) |
| above (2) | 7:23;11:5,19,24;17:5; | 81:4;82:1;90:24;100:22; | 148:18,19,21 | 30:10 |
| 37:9;121:22 | 21:17;28:17;32:3;35:21; | 102:6;105:8;107:9,13; | Alexandria (5) | animal (1) |
| absence (1) | 40:21;45:15,21;64:4,16; | 108:9;111:23;129:22; | 107:23;108:13,23; | 63:5 |
| 118:21 | 67:23;74:18;89:19,20; | 136:15;142:3;149:4; | 114:22;115:5 | announced (1) |
| Absolutely (9) | 91:8;93:23;98:8;112:7; | 155:14;156:20;157:19; | allow (3) | 78:18 |
| 8:8;54:14;72:24,24; | 115:6;120:4;126:8; | 159:3 | 7:18;38:9;49:6 | annual (8) |
| 100:5;110:18;120:16; | 140:9;141:5;143:13; | against (5) | allowed (1) | 38:4;84:8,14,19,22 |
| 122:14;143:2 | 154:7;155:10 | 111:16,21;112:8 | 22:16 | 87:3;88:13;150:20 |
| accept (3) | add (9) | 125:15;149:17 | allowing (2) | answered (1) |
| 29:22;94:1,15 | 40:19;57:24;60:24; | age (4) | 10:1;75:5 | 10:14 |
| acceptance (1) | 66:14;76:1,3;86:13; | 20:12;23:11;84:16; | alluded (3) | anticipate (5) |
| 26:10 | 95:14;98:20 | 85:3 | 57:15;69:20;94:6 | 80:11;93:10;103:18; |

\{SEC 2009-02\}[DAY 2 - PM SESSION] - August 24, 2010 LAIDLAW BERLIN BIOPOWER, LLC

| 104:3;155:11 | argue (1) | assumption (4) | 155:19 | 6:2,14 |
| :---: | :---: | :---: | :---: | :---: |
| anticipated (1) | 138:20 | 37:5;46:16;144:20; | background (3) | be-all (1) |
| 133:9 | argument (2) |  | 10:13;17:4;19:2 | 131:20 |
| anticipating (1) | 76:12;77:5 | assumptions (1) | backing (1) | bear (4) |
| 82:3 | arising (1) | 54:19 | 68:23 | 73:21;74:12,13; |
| anymore (2) | 81:1 | Atlantic (1) | backyard (2) | 128:18 |
| 21:7;88:4 | around (19 | 137:17 | 21:7;140:16 | bearing (1) |
| apologize (3) | 8:11;19:10,16;20:6,7, | atmosphere (1) | bad (5) | 81:19 |
| 69:10;78:17;102:14 | 9;32:2;62:16,24;68:6,9; | 69:24 | 61:3;76:10;88:7; | became (1) |
| apparently (4) | 74:5,5;75:9;86:10; | attached (2) | 117:14;129:12 | 11:12 |
| 26:15;31:7;48:1;82:17 | 96:16;103:7;117:14; | 144:21;145:3 | Baker (1) | become (1) |
| appear (1) | 147:20 | attention (8) | 35:23 | 144:12 |
| 48:19 | arrange (2) | 61:10;64:3,4;73:1 | ball (1) | becomes (1) |
| appeared (1) | 120:9;122:12 | 106:15;107:8;111:9; | 101:8 | 81:18 |
| 5:17 | arrangement (1) | 126:7 | bang (1) | Beetle (1) |
| appears | 13:8 | Attorney (11) | 66:8 | 110:24 |
| 127:2 | arrangements (1) | 4:9;78:21;80:1;82:12, | banging (1) | beetles (1) |
| appendix (11) | 103:22 | 13;83:7,13;97:12;155:3; | 149:16 | 111:18 |
| 49:10;102:13,15; | articles (2) | 156:1,22 | bar (1) | began (1) |
| 122:17;126:22;130:1,9; | 15:21;21:18 | attraction (1) | 62:22 | 11:18 |
| $132: 2 ; 136: 11,17,19$ | Asia (2) | 68:11 | bark (5) | beginning (5) |
| appliance (1) | 62:23;63:6 | attribute (1) | 108:9,17,24;109:2 | 18:1;39:13;95:15,23; |
| 13:5 | Asian (2) | 22:6 | 152:13 | 100:16 |
| Applicant (1) | 110:24;111:17 | August (2) | Bartoszek (2) | begins (2) |
| 10:15 | aside (3) | 80:20;159 | 155:22;157:1 | 64:8;68:5 |
| Applicant's (2) | 81:14;99:19;100:6 | author (1) | basal (1) | behalf (1) |
| 49:13;80:6 | aspect (1) | 70:1 | 118:4 | 105:10 |
| application (8) | 34:20 | availability (5) | base (1) | belief (3) |
| 33:11,13;35:4;38:7; | aspects (2) | 24:8;106:19;122:16; | 98:12 | 63:1;73:20;90:21 |
| 68:20;118:11;130:8; | 92:24;141:10 | 124:15;156:3 | based (24) | believes (3) |
| 136:11 | asserting (1) | available (18) | 4:20;17:20;19:3;33:5; | 32:5;54:20;107:10 |
| applied (2) | 34:5 | 4:18;10:8;15:17,23 | 34:5;36:4;42:17;45:11; | belong (1) |
| 88:18,21 | assertion (1) | 16:5,20;61:23;76:19; | 46:22;48:22;50:8;57:18; | 9:23 |
| applies (2) | 29:22 | 90:5,8;95:16;97:18,23; | 60:20;70:10;78:5;91:5; | belonging (1) |
| 88:14;109:18 | assertions (2) | 132:24;135:17,20,24; | 110:12;122:21;128:13; | 124:21 |
| apply (3) | 15:6;55:23 | $148: 2$ | 131:1;132:24;133:10; | below (3) |
| 124:6;139:15;146:19 | asserts (3) | avenue (1) | 147:3;151:2 | 16:11;114:5,18 |
| Appreciate (6) | 21:19;55:21;64:9 | 119:13 | bases (1) | Berlin (21) |
| 28:9;38:10;88:16; | assessment (2) | average (7) | 45:15 | 15:19;18:9;23:13,20, |
| 126:1;155:16,17 | 64:15;67:2 | 20:14,18;33:15;34:18; | basic (2) | 22,23;24:4,6;31:15; |
| appreciated (1) | asset (2) | 35:3;36:1;84:16 | 44:8;60:11 | 60:16;61:11;73:23; |
| 157:17 | 25:18,23 | avoided (1) | basically (11) | 105:10;110:15;111:14; |
| approach (2) | assign (2) | 139:7 | $12: 8 ; 13: 9,19 ; 15: 4$ | 114:16;115:22;121:15; |
| 47:20;62:5 | 57:12,19 | aware (8) | $16: 15 ; 29: 18 ; 44: 23 ; 54: 6$ | 122:1,2,9 |
| appropriate (1) | assigned (6) | 96:7,20,24;97:4,6,7; | $69: 11 ; 145: 13 ; 152: 2$ | Berlin's (1) |
| 124:11 | 41:8,17,23;42:14 |  | basis (9) | 155:24 |
| $\begin{gathered} \text { approved (1) } \\ 113: 10 \end{gathered}$ | 43:23;46:4 assignment | B | $\begin{aligned} & \text { 58:14;59:5;84:14,15; } \\ & \text { 87:16;89:7;94:20;148:2; } \end{aligned}$ | beside (1) 29:4 |
| approximately (2) | 43:13 |  | 150:20 | besides (1) |
| 29:10;152:8 | Assistance | B | basket (14) | 10:5 |
| area (39) | 5:24 | 11:1 | 6:23;91:8;96:21 | best (8) |
| 5:2;27:14;29:23;30:7; | associated (1) | back (48) | 102:17;124:21;129:9, | 39:24,24;46:6;86:4; |
| 31:5;40:5;42:15;44:16, | 25:3 | 4:4;9:4;10:23;11:3 | $10 ; 131: 24 ; 133: 7$ | 91:19;94:15,19;142:22 |
| 16;45:8,8;47:24;51:8, | Association (1) | 19:9;21:1;25:12;33:23; | 134:14,16;136:12,22,23 | bets (1) |
| 12;53:2;55:2,16;56:15; | 10:7 | 48:8;51:21;58:13;61:9; | Basket/Study (1) | 63:15 |
| 58:2,21;71:5,15;74:23; | assume (6) | 63:8,16;71:19,20;77:13; | 47:24 | better (6) |
| 76:1;84:16,20;88:15; | 21:21;39:8;82:24; | 87:8;96:2;97:11;99:2; | baskets (1) | 49:7;50:1;77:4;95:18, |
| 92:17;93:24;94:5,23,23; | 142:15;148:1;150:20 | 101:17,19;104:22; | 71:4 | 19;151:21 |
| 103:9;104:15;108:15; | assumed (2) | 107:22;108:1,2,22,22; | BCAP (10) | better-than-average (1) |
| 118:4;137:11;140:23; | 36:23;153:23 | 109:2,7,10,20;110:6,11, | 5:19,22,23;6:8,14; | 124:4 |
| 148:24 | assuming (4) | 11,16;122:9;142:15; | 35:19;36:2;98:21;99:12; | beyond (5) |
| areas (4) | 77:9;81:7;101:2; | 143:16;144:5;149:3,22, | 100:6 | 23:1;56:7;120:14; |
| 46:15;47:4;49:5,9 | 102:18 | 23;150:3,9;151:17; | BCF (2) | 129:9,9 |


| big (4) | 6:6;115:5 | 145:2;147:18,22; | 42:4,8;47:18,21;48:4; | calling (2) |
| :---: | :---: | :---: | :---: | :---: |
| 21:8;26:22;112:2; | border (1) | 150:23;151:14;152:11, | 67:5;78:7,16;79:11; | 84:21;122:17 |
| 120:2 | 108.16 | 13,17,23;153:18,20,22; | 80:1,9;82:8,13;83:5,10, | calls (2) |
| bigger (3) | both (9) | 155:13;158:5,6 | 11;96:15;105:3,19; | 36:4;81:20 |
| 21:13;76:14;115:4 | 59:11;70:12;83:7; | Bravakis's (2) | 106:2;115:17;117:7 | came (14) |
| biogenic (2) | 107:3;114:11;132:24; | 104:24;146:1 | 126:20,24;127:2,5; | 26:2,14;27:7;33:17; |
| 69:22,22 | 138:14,15;152:13 | break (2) | 130:4,10;134:19;135:1, | 37:6;46:20;47:14;55:13; |
| Biomass (96) | bottom (2) | 78:8,17 | 11,15,23;136:7;140:2; | 69:5,11,18;71:16; |
| 5:23,24;6:2,14;8:10, | 132:4;145:21 | breakdown (1) | 142:6,20;143:6,9,18,23; | 131:14;148:7 |
| 17;13:20;18:19;19:3; | bottom-of-the-barrel (1) | 66:5 | 144:3;154:3,24;155:3,9; | Can (112) |
| 23:11;25:21;32:21;34:7, | 18:13 | breaking | 156:7,10,13,17,20; | 5:21;7:2,9,10;10:23; |
| 19;36:1,7;39:8;42:18; | bought (7) | 66:6 | 157:8,18;158:12,16,20, | 12:5;13:17;16:3;17:22; |
| 52:22;54:9,16;55:3,8; | 11:4;12:12;13:9; | bridge (18) | 23;159:3 | 18:6,7;19:11,15,19,19; |
| 58:7,11,13,17,19;59:3,7, | 20:17,19;61:11;88:13 | 132:23;137:16,21,21, | Burgess (2) | 20:4;23:19;24:17;25:9, |
| 8,15,17,21;60:3;61:13, | bounce (1) | 24;138:2,3,4,5,8,9,10,10, | 25:17;115:24 | 24;26:3,3,9,10,21,24; |
| 23;63:6;64:1;66:13; | 96:16 | 11,12,13;139:4,7 | Burlington (10) | 33:5;34:11;35:16;36:8; |
| 67:2;68:8;69:3,4,6,19; | boy (2) | bridges (1) | 22:2;23:16,16,21; | 37:15,18;38:7,24;45:1; |
| 70:14;73:18,20;74:3,8, | 76:2;148:24 | 138:7 | 40:9;75:10;114:9,9,11; | 46:5,12;54:9,11;56:15; |
| 16;75:11;76:20;77:1,2; | branch (3) | Bridgewater (3) | 115:12 | 57:7,8;59:4;60:24; |
| 79:1,5;82:10;86:14; | 8:2,3;103:4 | 114:21,24;115:2 | burn (5) | 61:23;62:7;63:23;64:13; |
| 96:7;97:15,18,23;98:5,6, | branches (9) | brief (2) | 29:19;32:21;34:6; | 65:7;66:17;69:1;72:9; |
| 16;100:20;101:5;113:7, | 8:6,23;64:7,23; | 84:5;93:2 | 147:9,13 | 73:12,17;75:3;76:1,22; |
| 11,17,23;115:19,20,21; | 102:21;129:17;133:22; | briefly (2) | burning (4) | 77:2,23;79:15;80:17,22; |
| 116:3,21,23;140:8; | 151:20;154:1 | 60:24;155:11 | 6:15;20:9;96:7;112:6 | 81:4;84:5,13,14,15,17; |
| 141:6,11;142:10; | brand (1) | briefs (1) | bus (2) | 87:17;88:1,6,6,10;89:22; |
| 145:20;146:1,10;151:6, | 151:18 | 81:12 | 148:15;149:13 | 91:16;93:5,24;94:22; |
| 10,13,16;152:10,13,14, | Bravakis (209) | bring (8) | business (17) | 95:14,20;104:24; |
| 19;153:15;154:1 | 10:11,20,23;11:17,20, | 7:19;8:15;28:1;33:22; | 5:10,18;9:23;11:5,7,9, | 106:23;108:10,12; |
| biomass's (1) | 22,24;12:9, 11,13:2,13, | 77:13;95:9;121:7;142:1 | 18;22:22;47:3;59:18; | 118:15;125:10;128:1; |
| 65:3 | 16,19;14:6,16,19,22,24; | bringing (2) | 60:18,21;109:18;131:6; | 129:10;130:13;131:9; |
| BioPower (1) | 15:10,12;16:2;17:2,11, | 94:19;109:5 | 148:12;149:18;150:1 | 135:2,3,4;137:1;138:24; |
| 105:10 | 13,15,19;18:6,22,24; | broader (2) | businesses (1) | 139:7;143:13;144:4; |
| bit (17) | 21:23;22:2,5,9,12;23:22; | 89:3;91:8 | 13:24 | 145:22;146:3,6;147:18; |
| 10:13;13:17;16:4; | 24:1,10,12,15;25:1;28:7; | broker (2) | buy (11) | 148:5,10;150:8;151:19, |
| 40:10;45:18;56:2;58:4; | 30:17,20;31:10,14,22; | 107:14;119:22 | 11:3;16:9,11;19:12, | 21,22,24;152:1,4;155:7 |
| 64:4;85:9;95:9;96:17; | 32:1,14,23;33:8,10,19, | brokers (2) | 14;20:12;54:10;63:5; | Canada (3) |
| 98:20;104:19,22;115:4; | 24;34:9,13;35:13;36:10; | 107:12;146:21 | 77:17;94:11;154:18 | 108:16,24;110:6 |
| 146:7;147:19 | 37:8,14;38:9,17,24; | Brooks (1) | buying (1) | Canadian (3) |
| blogs (1) | 39:18;42:1,6,10;46:12; | 143:1 | 101:15 | 52:11,11;110:9 |
| 26:20 | 48:2;49:19;51:5,17,19; | brought (2) | byproduct (4) | cancel (1) |
| Bloomfield (1) | 52:5;53:6,16;58:22; | 36:19;76:15 | 58:18;59:17;97:15; | 136:5 |
| 32:18 | 60:15;61:14,17,19,21; | Bucksport (1) | 98:16 | capability (2) |
| BMP (1) | 62:10;64:6,16;65:10; | 52:6 |  | 76:8;150:8 |
| 64:23 | 66:14,16,24;67:14,18, | Buffalo (2) | C | capable (1) |
| BMPs (1) | 20;68:21;71:7,9;73:17; | 31:5,7 |  | 104:14 |
| 64:24 | 77:8;82:20;83:3,20,21, | build (5) | C\&D (1) | capacity (7) |
| board (3) | 22;84:1,5;85:11,16; | 19:14;20:9;38:20 | 11:14 | 34:24;35:11;93:6,8, |
| 47:6;119:6;124:8 | 86:23;89:15;93:1,4,8,16, | 73:18;95:2 | calculated (1) | 19;96:1,5 |
| boardroom (1) | 19;96:2,5;97:10,19; | building (3) | 38:3 | capital (2) |
| 14:15 | 102:4,8,12,14,16,20; | 88:3;101:16;142:13 | calculates ( | 22:23;76:9 |
| Bob (1) | 103:11,21;104:5,17; | buildup (1) | 36:6 | capture (1) |
| 64:11 | 105:6,9,15,21;106:3,7, | 66:5 | calculation (7) | 23:7 |
| boil (1) | 20,24;107:2,9,16,19; | built (10) | 32:3,7,19;34:10;36:4; | carbon (13) |
| 66:8 | 113:15,19,22;114:1,3,6, | 22:14,20,21;59:1 | 43:10;72:16 | 68:1,1,2,15,18;69:8, |
| boiler (4) | 17,19;115:9,24;116:6, | 86:7,10;114:7,14; | calculations (3) | 15,18;70:1,10,10,16; |
| 25:17,21,21;35:5 | 15,17,24;117:16,18,20; | 115:14;116:21 | 35:9;38:11;71:2 | 83:18 |
| boilers (2) | 118:7,13,17;119:4,7,9, | bulk (1) | calendar (2) | care (2) |
| 152:14,19 | 12;126:8,12,18;127:1,9, | 66:12 | 100:16,17 | 102:2;112:1 |
| bole (1) | 12,15;132:3,8,11,13; | bunch (4) | call (9) | career (2) |
| 58:7 | 133:2,16,18;135:20; | 74:4,4;112:3;125:22 | 6:1;19:4;21:8;85:1,22; | 14:14;123:18 |
| bone-dry (1) | 136:17;137:9,12,20,23; | BURACK (68) | 99:2;131:2,4;137:6 | careful (1) |
| 35:20 | 138:1,3,9,14,17,19,24; | 4:3,8;23:19,23;27:19, | called (2) | 27:3 |
| Boralex (2) | 139:2,6,17,20;144:24; | 24;28:4,10,15;33:21; | 5:19;140:6 | case (12) |


| 5:2;50:8;58:19;70:21; | 20:21;21:4,5,6 | 148:8 | 7:1 | 10:3;50:24;55:16; |
| :---: | :---: | :---: | :---: | :---: |
| 71:23;80:20;91:3;149:7, | chart (7) | City (3) | cohort (1) | 60:2,4,9;77:12;99:4,7; |
| 20;151:18;154:21; | 29:12,12;30:3;42:16, | 4:23;148:9;155:24 | 115:11 | 104:13;108:14;109:1, |
| 155:24 | 21;43:7;44:4 | claims (2) | cohorts (2) | 22;140:22 |
| catch (1) | chase (1) | 42:12;45:15 | 85:2;128:9 | company (17) |
| 95:18 | 8:3 | clarification (1) | colleague (2) | 9:13;10:3;12:15,15; |
| Catch-22 (1) | chasing (1) | 140:14 | 51:9;71:11 | 13:3,10;28:18;30:22; |
| 147:14 | 8:1 | clarified (1) | colleagues (5) | 51:10;56:1;77:10,11; |
| caught (1) | cheaper (2) | 42:20 | 26:5;71:22;72:20; | 101:19;103:12;106:12; |
| 126:6 | 21:12;24:17 | clarify (3) | 119:9;148:4 | 110:9;120:6 |
| cause (1) | check (2) | 23:20;36:10;152:7 | collect (2) | comparative (1) |
| 73:8 | 120:9;138:23 | clarifying (1) | 145:9;146:1 | 152:24 |
| caused (1) | checks (1) | 150:16 | collected (2) | compare (3) |
| 18:9 | 9:3 | Clean (9) | 130:24;131:23 | 63:23;70:12;126:16 |
| causing (3) | Cheshire (2) | 4:17;13:23;15:8; | collecting (1) | compared (3) |
| 18:3,4;99:13 | 137:1,5 | 68:18;70:15;72:4;79:6; | 130:24 | 69:2;113:13;153:3 |
| center (1) | Chief (2) | 114:15;153:23 | collective (1) | comparing (1) |
| 136:12 | 133:22;155:24 | clear (4) | 143:6 | 126:14 |
| certain (5) | children (1) | 48:11;51:19;68:7 | column (5) | compete (3) |
| 52:12;54:19;68:11 | 14:16 | 79:21 | 41:17;43:13,23;127:8; | 54:3,15;63:22 |
| 79:14;142:23 | chime (1) | clear-cut | 130:14 | competing (2) |
| certainly (13) | 16:3 | 66:2 | combination (1) | 63:2;95:21 |
| 41:10,12;43:20;50:11; | chip (18) | cleared (1) | 39:21 | competition (4) |
| 57:16;65:22;70:18,23; | 13:5;19:6;53:22;54:5, | 12:14 | combined (6) | 16:7;18:3,10;46:16 |
| 91:13;98:9;110:23; | 5,6,6,15;93:15;94:23; | clearing (2) | 13:21;14:9;31:12; | competitive (5) |
| 135:20;158:3 | 95:5;96:5,14;121:4; | 141:8,9 | 116:18;128:15;129:7 | 46:18;49:9;50:5,12; |
| Certificate (1) | 140:17,141:4;153:8,9 | clearly (9) | combustion (2) | 106:22 |
| 145:4 | chipped (8) | 18:11;47:4;53:9; | 39:2;69:7 | complete (5) |
| certification (4) | 93:13;94:2,2,16; | 56:17;59:18;65:17; | comfortable (1) | 80:22;81:3,5;82:1; |
| 87:24;119:1,3,5 | 111:23;153:11,11,12 | 69:21;84:22;123:23 | 95:7 | 157:20 |
| certifications (2) | chipper (3) | client (1) | coming (12) | completed (2) |
| 86:1;119:6 | 11:13;93:3;94:11 | 77:15 | 32:9;34:22;36:1; | 118:9;157:13 |
| cetera (10) | chippers (4) | clients (5) | 39:11;54:6;108:24; | complex (1) |
| 70:7,7;72:2,2;123:3; | 60:5;95:9;99:8,10 | 13:22;56:4;76:4 | 110:6,16,16;112:14; | 72:17 |
| 148:13,13,19;149:14,14 | chipping (5) | 77:16,24 | 143:16;147:19 | complexities (1) |
| chagrin (1) | 11:11,12;12:7;54:8; | climb (1) | commencing (1) | 131:15 |
| 11:6 | 96:8 | 101:18 | 159:9 | comply (1) |
| CHAIRMAN (77) | chips (30) | clock (1) | comment (3) | 118:23 |
| 4:3,8;23:19,23;27:17, | 12:12,21;13:7;31:2,3, | 78:8 | 105:5;125:9,10 | compounded (1) |
| 18,19,24;28:4,10,15; | 6;54:3,10;71:19,21; | close (4) | commented (1) | 100:12 |
| 33:20,21;42:4,8;47:18, | 95:9;98:15;108:4,5,20; | 19:18,20;45:19;104:5 | 120:22 | computers (1) |
| 21;48:4;67:5;78:6,7,16, | 109:1,6;119:17,18,23; | closed (7) | comments (2) | 20:2 |
| 23;79:11;80:1,9;82:8, | 120:2,8,15,23;121:8,15, | 80:11;96:21;147:2 | 48:6;127:18 | concentration (3) |
| 13;83:5,10,11;96:15; | 24;122:6;142:10;149:9 | 150:18,18;157:23;158:2 | commercial (2) | 20:23;108:19;140:21 |
| 102:4;105:3,19;106:2; | Chiptec (6) | closed-loop (1) | 92:10;141:9 | concentric (1) |
| 115:17;117:7;126:20, | 10:19,22;12:6;13:10, | 69:4 | commissioned (1) | $133: 10$ |
| 24;127:2,5;130:4,10; | 11;53:18 | closely (1) | 72:5 | concept (3) |
| 134:19;135:1,9,11,15, | choice (1) | 106:21 | commit (1) | 74:17;125:10;148:8 |
| 23;136:7;140:2;142:6, | 27:13 | closer (1) | 118:20 | concern (4) |
| 20;143:6,9,18,23;144:3; | choose (1) | 128:15 | commitment (1) | 56:9;67:8;111:4; |
| 154:3,24;155:3,9;156:7, | 84:17 | closest (2) | 156:6 | 112:18 |
| 10,13,17,20;157:8,18; | chosen (1) | 72:3;73:19 | Committee (14) | concerned (1) |
| 158:6,12,16,20,22,23; | 29:23 | closure (2) | 28:12,17;33:4;34:16; | 73:4 |
| 159:3 | chunks (1) | 18:9;133:14 | 43:16;46:11;48:18; | concerns (2) |
| Chairman's (1) | 85:2 | CO2 (2) | 68:24;71:24;79:2,12; | 73:16;110:22 |
| 66:21 | circle (2) | 69:22,2 | 81:12,14;85:18 | concluded (3) |
| challenges (2) | 52:8;87:6 | coal (1) | commodity (2) | 39:22;51:22;72:6 |
| 26:8;27:7 | circles (4) | 70:12 | 62:15,17 | concludes (2) |
| chance (1) | 49:1;50:3;133:10; | coal-fired (1) | common (2) | 32:19;71:4 |
| 68:17 | 147:21 | 69:4 | 108:23;145:19 | conclusion (20) |
| change (3) | circumstances (1) | coarse (1) | community (4) | 15:23;24:5;33:18; |
| 7:24;8:5;145:11 | 49:24 | 65:3 | 26:14,14;84:11,12 | $37: 5 ; 38: 13 ; 39: 7,11$ |
| changed (4) | cities (1) | Coast (1) | companies (14) | 40:23;41:13,15;42:15; |


| 45:3,16;48:22;58:1; | 113:10,16 | contribute (3) | Country (12) | $148: 10$ |
| :---: | :---: | :---: | :---: | :---: |
| 69:5,11;72:16;131:14; | construction (6) | 67:19;68:15;69:2 | 15:15;20:9;27:15; | cut (31) |
| 133:11 | 19:8,23;22:17;141:7, | contributed (3) | 8:22;46:10;49:3,6; | $25: 11 ; 56: 8 ; 58: 20$ |
| conclusions (2) | 13,17 | 15:18,24;41:2 | 5:11;95:17;120:6 | 66:3;73:19;74:9,14,23; |
| 34:3;42:22 | consultant (1) | contributing (1) | 145:19;147:1 | 84:21;87:13;91:19,23; |
| concur (1) | 137:22 | 18:13 | County (8) | 92:9;97:17;112:3; |
| 34:18 | consultants (1) | control (2) | 46:17;50:5,11,13,13; | 125:13,22;131:5;141:16, |
| concurs (1) | 36:18 | 58:1;110:2 | 122:6;137:2,5 | 23;145:13,20;147:11,12, |
| 37:3 | consulting (2) | conversation (3) | couple (13) | 4,15;151:9,12,14; |
| condition (2) | 13:20;14:4 | 17:10,22,24 | 11:7;22:12;57:11 | 153:17;154:14 |
| 85:22;88:22 | consume (5) | conversations (2) | 64:5;68:24;94:18;115:9; | cuts (1) |
| conduct (1) | 36:7;44:6;57:23;75:8; | 17:6;43:9 | 137:8;140:5;147:22; | 66:1 |
| 86:4 | 147:2 | conversely (1) | 149:24;150:16;152:6 | cutting (8) |
| conducted (1) | consumed (2) | 40:9 | coupled (4) | 11:21;69:16;77:2 |
| 39:20 | 150:19;152:8 | Conversion (5) | 21:10;22:17,18;99:4 | 85:6,10;120:5;125:15; |
| conference (1) | consumer (3) | 6:2,14;92:4,21;108:21 | course (6) | 154:17 |
| 75:13 | 53:1,13,13 | convert (2) | 34:10;56:7;63:1 | cycle (3) |
| conferring | consuming (3) | 13:24;25:21 | 74:11;101:6;126: | 69:23;90:14,17 |
| 44:1 | 102:24;150:21;152:10 | converted (2) | Court (5) | cycles (1) |
| confidential (11) | consumption (8) | 24:17;92:10 | 79:24;96:11;124:16; | 69:23 |
| 5:8;67:12;79:1,3,8,19, | 29:3,7,14;38:4;53:16; | converting (1) | $130: 3 ; 144: 15$ |  |
| 23;80:5,7,8,17 | 57:20,21;116:21 | 63:20 | Cousineau (14) | D |
| confidentiality (2) | contacts (1) | Coos (5) | 9:8,23;15:2;40:17; |  |
| 57:1;121:14 | 60:18 | 6:17;49:2;50:5,1 | 42:19;43:1,19;103:23; | dais (1) |
| confirm (2) | contained (5) | 122:6 | 104:8;106:7;107:14,17; | 67:14 |
| 19:12;126:21 | 33:2;34:8;41:3;43:7 | copies (3) | 139:15,21 | damaging (2) |
| conflating (1) | 67:11 | 49:16;79:12;83 | cover (4) | 61:24;62:6 |
| 18:2 | containing | copy (6) | 90:10;96:17;105:20 | data (54) |
| confused (2) | 111:17 | 17;64:16 | 122:2 | 33:11;35:22;36:5,6,8, |
| 133:19;147:5 | content (3) | 66:23;67:2;79:1 | covered (1) | 11;38:12;45:15;59:12, |
| confusing (1) | 34:19;35:20;37 | Corinth (1) | 96:18 | 13;70:21;78:2;89:16,23; |
| 42:17 | context (8) | $51: 1$ | covers (1) | 90:2,5,8,10,15,22;91:11, |
| confusion (3) | 31:11;47:1;76:14 | Corporation (1) | 84:20 | 12,14,16;92:1;103:1; |
| 129:11;131:10;132:13 | 77:4;84:3;85:21;98:9; | 10:22 | CPD (7) | 126:10,12,15,18;127:15, |
| Connecticut (2) | 104:23 | correctly (7) | 14:20;18:16;30:21; | 24;128:8,10,16;129:11; |
| 109:2;110:7 | continue (5) | 10:21;44:21;48:20,21; | 32:22;83:17;114:6; | 130:24,24;131:16,19,20, |
| consequences (1) | 59:22;81:21;118:15 | 109:5;129:23;133:3 | 115:14 | 22;132:1,4,6,7,16,17,24; |
| 61:22 | 151:9;152:21 | corroborate (1) | create (3) | 133:8,12,14,19;134:1 |
| conservation (2) | CONTINUED (1) | 51:20 | 101:4;151:5;152:4 | database (1) |
| 63:9;87:23 | 96:12 | cost (10) | created (2) | 30:11 |
| conservative (3) | contract (7) | 18:11;22:17,18;119:3, | 10:21;69:1 | date (2) |
| 32:15;66:19;132:16 | 5:16;49:11;77:10; | 5;120:22;121:1;122:3,4; | creates (3) | 81:22;105:14 |
| consider (5) | 108:15;139:21;144:12, | 141:4 | 68:12,13,13 | day (9) |
| 51:22;68:24,24 | 22 | costly (1) | Crop (1) | 13:1;19:12;20:1 |
| 118:11,13 | contracted | 95:21 | 5:23 | 23:11;69:18,20;80:23; |
| considerably (1) | 17 | costs (8) | cross-examination (1) | 142:22;155:10 |
| 128:12 | contracting (2) | 19:8,23,24,24;21:3 | 39:19 | days (3) |
| consideration (2) | 103:18;150:1 | 22:23;54:10;122:13 | crystal (1) | 81:16;94:2,18 |
| 51:8;118:14 | contractor (2) | Council (4) | 101:8 | de (1) |
| considered (7) | 11:13;12:7 | 27:15;28:22;49:3;86:9 | cultural (2) | 92:22 |
| 18:19;51:4,6;53:15; | contractors (5) | counsel (6) | 137:22;138:16 | dead (1) |
| 69:24;138:15;154:14 | 25:20;94:4;95:7; | 4:23;28:11;80:4; | current (11) | 8:12 |
| considering (2) | 149:8,15 | 142:21,24,24 | 6:8;12:19,22;77:16; | deadline (1) |
| 54:1;59:2 | contracts (2) | counter (1) | 81:19;87:21;99:15,20; | 105:17 |
| consistent (1) | 72:14;93:23 | 98:17 | 101:3;114:6;125:15 | deal (8) |
| 29:8 | contractual (1) | counterpart (1) | currently (5) | $10: 8 ; 48: 24 ; 64: 2$ |
| consistently (1) | 139:22 | 35:22 | 92:4;94:7;98:4;114:7; | 94:20;104:5,6;118:4; |
| 35:8 | contradicted (1) | counterparts (1) | 133:8 | 137:4 |
| constraints (1) | 128:23 | 106:12 | Curt (1) | dealing (2) |
| 24:9 | contradicts (1) | counties (1) | 112:20 | 48:12;123:10 |
| constriction (1) | 128: | 137 | curtailed (1) | deals (2) |
| 20:11 | contrary (1) | countries (1) | 9:19 | 30:18;47:2 |
| constructed (2) | 24:14 | 63:22 | customers (1) | dealt (2) |

\{SEC 2009-02\}[DAY 2 - PM SESSION] - August 24, 2010 LAIDLAW BERLIN BIOPOWER, LLC

| 27:7;47:3 | 60:1,6,9;63:7,15 | 43:24;53:14,17; | 71:22;78:18;80:5 | $52: 3,5 ; 117: 10,12,15$ |
| :---: | :---: | :---: | :---: | :---: |
| debating (1) | Denmark (1) | 127:21;128:1;129:1,1,18 | disperse (1) | 124:17;126:23;127:4,6; |
| 84:12 | 23:8 | differences (1) | 7:16 | 130:11,12;134:17 |
| debris (2) | Department (2) | 33:14 | disposal (1) | draft (1) |
| 65:2,4 | 134:1;138:20 | different (18 | 21:3 | 144:12 |
| debt (2) | depend (1) | 5:16;15:20;19:22; | dispose (3) | drafts (1) |
| 69:15;94:1 | 52:23 | 34:10;55:13;63:5;76:4; | 21:5;112:6;140:18 | 139:18 |
| decades (1) | dependent (1) | 80:5;82:19,22;109:20; | dispute (1) | drag (1) |
| 84:13 | 106:23 | 110:4,4;111:22;118:3; | 45:24 | 145:13 |
| decay (1) | depending (1) | 130:6;134:7;151:19 | distance (5) | drainage (1) |
| 70:7 | 153:13 | difficult (2) | 20:23;21:2;120:23; | 95:19 |
| December (1) | depends (4) | 63:2;156:21 | 153:3;158:9 | dramatic (1) |
| 136:18 | 60:17,17;130:23; | DIR (4) | distances (3) | 98:13 |
| decide (3) | 152:23 | 134:23;136:9;138:22; | 21:15;29:3;31:7 | draw (9) |
| 58:10;103:24;148:14 | depth (1) | 139:24 | distinct (2) | 15:23;48:22;51:18; |
| decided (2) | 101:10 | direct (5) | 46:18;50:5 | $53: 2 ; 61: 9 ; 64: 3 ; 69: 21$ |
| 137:5;149:12 | derived (1) | 5:17;17:23;28:1 | distinction (1) | 73:1;106:15 |
| decision (4) | 18:19 | 107:24;122:10 | 69:21 | drawing (1) |
| 81:20;103:21;104:4, | describe (4) | directed (1) | Division (1) | 85:14 |
| 18 | 20:6;137:10;147:23 | 153:24 | 15:16 | draws (3) |
| decisions (1) | 24 | direct-fired (2) | document (17) | 24:5;34:3;38:12 |
| 76:10 | described (8) | 69:3,5 | 37:9;43:8,11;48:16; | drew (2) |
| dedicated (1) | 22:15;79:9;91:9;95:1; | direction (1) | 49:13;65:12;66:23;79:9; | 51:23;133:11 |
| 72:11 | 103:20;109:11;110:13; | 87:10 | 83:8;106:6,15;107:8; | driven (1) |
| deeper (1) | 132:21 | directly (1) | 118:12;119:11;127:3; | 98:21 |
| 26:16 | describes (1) | 109:6 | 128:20;144:21 | driver (2) |
| defer (1) | 56:12 | dirt (1) | documentation (4) | 21:8;121:1 |
| 71:10 | describing (1) | 65:23 | 9:14;17:6,9;35:8 | driving (2) |
| define (6) | 150:11 | disadvantage (3) | documented (1) | 58:20;60:3 |
| 53:3;84:2,13,14,15,17 | desirable (1) | 46:18;50:6,12 | 36:2 | dropped (1) |
| defined (4) | 91:6 | disagree (14) | dollar (1) | 103:7 |
| 85:10;136:13;144:19, | detailed (1) | 31:8;32:14;33:18; | 14:11 | drops (3) |
| 23 | 135:6 | 36:9;37:14,19;38:16; | dollars (1) | 98:13,14;115:15 |
| definite (1) | determination (2) | 45:16;55:10,11;71:8; | 74:15 | dry (2) |
| 93:21 | 30:2,4 | 75:23;123:16,17 | Domtar's (1) | 14:2;69:23 |
| definitely (2) | determine (9) | disburse (1) | 52:9 | due (5) |
| 100:15;121:3 | 30:14;59:2,3;71:3; | 7:19 | done (14) | 16:7;18:10;36:14; |
| definition (2) | 85:13;89:9;91:7,9; | disbursed (1) | 10:1;15:15;37:15; | $40: 15 ; 95: 17$ |
| 84:11;87:1 | 157:22 | 6:17 | 44:13;48:23;50:7;59:1; | dueling (1) |
| degree (5) | determined (1) | discern (1) | 73:2;93:24;97:5;102:5; | 82:10 |
| 64:14;111:6,8;123:24; | 85:12 | 128:1 | 103:12;153:23;155:7 | dug (1) |
| 131:7 | detrimental (1) | disclosure (1) | door (2) | 26:16 |
| $\underset{\text { degrees (1) }}{ }$ | 70:6 | 79:4 | 99:2;121:10 | dump (2) |
| 6:24 | develop (3) | disconnect (1) | dovetail (2) | 140:19,23 |
| deliberation (1) | 5:1;23:2;27:5 | 16:4 | 85:24;86:19 | dumping (1) |
| 81:15 | developed (2) | discount (1) | down (56) | 95:5 |
| deliberations (1) | 19:5;25:14 | 35:1 | 8:1,3;12:6;20:1;21:4, | during (3) |
| 81:17 | developing (5) | discover (1) | 6;22:23;26:13;29:2,5; | 4:14,23;35:1 |
| deliver (4) | 19:3;23:3,10;25:2,15 | 25:8 | 32:2;40:2,7;44:17,23; | dynamic (2) |
| 7:7;94:8;110:2;120:18 | Development (16) | discovered (1) | 50:1;58:6,20;60:6;66:8; | 72:17:149:6 |
| delivered (4) | 4:17;13:19,20;14:3; | 13:3 | 68:5;69:16;73:19;74:9, | dynamics (3) |
| 34:19;71:3;122:3; | 15:9;18:20;22:9;23:2; | discuss (1) | 14;96:22;98:10;99:5; | 49:8;147:24;150:11 |
| 141:4 | 25:1;68:19;79:6;92:11; | $72: 13$ discussed (5) | $100: 10,12 ; 101: 21$ |  |
| $\begin{aligned} & \text { deliveries (1) } \\ & 7: 6 \end{aligned}$ | 114:15;134:2;141:8,9 DG (1) | discussed (5) 43:18;49:11;66:1 | $\begin{aligned} & 108: 18,24 ; 112: 2,3 \\ & 115: 15 ; 119: 22,24 \end{aligned}$ | E |
| delivering (1) | 109:17 | 115:16;139:6 | 120:1;122:13;140:16, | earlier (15) |
| 20:22 | dictate (3) | discussing (3) | 17;141:23;142:14; | 48:6;66:11;77:21; |
| demand (16) | 56:14;57:6;58:2 | 79:18;84:19;87:18 | 145:21;147:7,11,12,15; | 78:24;82:21;89:10; |
| 8:4,7;63:13;74:22; | dictated (1) | discussion (9) | 148:20;149:17;151:12, | 96:19;97:12;98:11,22; |
| 93:12;98:4;99:5,6,24; | 58:12 | 52:11;64:8;68:4,17; $80 \cdot 19 \cdot 118 \cdot 15 \cdot 129 \cdot 21$. | 14;153:17;154:14,17 | 108:18;109:24;120:8, |
| 100:18;101:2;107:13; | die (1) | 80:19;118:15;129:21; | downtime (1) | $22 ; 142: 21$ |
| 115:19,20;145:9;146:21 | 27:8 difference (8) | 137:4;144:17 | $32: 9$ Dr | earliest (1) |
| demise (5) | difference (8) | discussions (3) | Dr (12) | 25:4 |

early (3)
14:19;19:4;61:6
easements (3)
87:23;137:15,20
easiest (2)
91:13;94:20
easily (1)
132:14
East (1) 7:1
eastern (1) 92:17
econometric (1) 103:19
economic (7) 21:8;95:3;134:2; 148:1;149:6;150:11; 153:1
economical (1) 147:12
economically (2) 31:5;145:6
Economics (3) 11:1;22:15;153:13
economy (19) 20:20;21:8,11;61:24; 62:6;63:7,10,14,15; 103:6;121:3;140:7; 141:21,22;142:3,11,12, 18;152:2
Ed (1) 17:16
effect (5) 52:12;83:14,17; 145:12;154:16
efficiencies (3) 23:7;39:2;72:14
efficiency (1) 20:3
efficient (1) 71:6
effort (4) 23:12;86:16,16;152:5
efforts (3) 12:11;53:3;104:7
Eh (1) 149:15
Eight (3) 32:1;63:12;87:14
either (13) 38:1;41:13;45:24; 53:2,10,12;63:12;72:8; 79:18;87:23;92:10; 106:4;140:21
elaborate (6) 35:16;53:18;65:16; 84:6,9;107:10
Electric (9) 22:2;40:9;75:10; 113:23;114:9,10,11; 115:12;116:13
electrical (1) 115:19
electricity (9)
14:1;37:12;63:4,5,7,
18;113:17;116:14,19
eliminate (1) 144:1
eliminating (1) 32:8
Ellicottville (3)
30:19;31:8,11
else (15)
20:1;24:6,18;43:17;
106:4;120:11;128:20;
133:11;143:2;150:22; 151:9,12;152:22; 158:18;159:1
elsewhere (1) 62:23
e-mail (2) 17:14;64:11
e-mails (2) 26:20;43:10
emissions (2) 68:14;69:8
empirical (1) 70:21
employees (2) 30:24;31:1
employer (1) 16:12
empty (2) 71:20;109:7
enable (1)
81:24
encourage (3) 70:20,22;86:20
encouraged (1) 64:24
end (11) 8:9;80:22;81:5;85:9; 99:17;100:14;105:22; 112:11;121:6;123:20; 142:22
end-all (1) 131:20
ending (1) 101:11
endorsed (1) 30:22
ends (1) 101:4
end-user (2)
85:21;86:13
Energy (15) 13:15,16,20,23;14:1; 18:19;19:7,23;69:2,17; 70:2,5;107:22;153:12,17
enforce (1) 77:14
engineer (2) 37:16;158:7
engineering (1) 37:17
engineers (2)

35:6;36:16
England (12)
7:8;20:10;76:17; 109:14;110:17;111:5; 113:18;116:8,10,12;
117:1;125:12
enough (11)
16:13;25:19;53:14;
57:9;98:4;101:4;104:8;
106:3;107:11;125:17;
148:1
enrollment (1) 87:21
entered (1) 12:19
entire (1) 146:9
entities (2) 10:9;152:10
entitled (3)
47:24;80:12,14
environment (3) 62:20;70:6;73:16
environmental (1) 62:18
envision (1) 138:6
eons (1) 66:6
EPA (1)
69:21
equates (1)
141:4
equilibrium (2)
148:22;149:5
equipment (5)
22:22;33:16;54:8; 93:6;145:15
equipped (1) 94:11
era (1) 125:21
eradication (1) 112:2
eroded (1) 88:8
erred (1) 66:19
error (1) 40:15
errors (4) 39:13;40:21;42:12,21
especially (2) 8:21;68:3
essence (1) 34:5
essentially (6) 4:24;18:17;30:22; 64:12;70:11;73:8
establish (1) 112:9
estimate (13)
8:22;33:2,3;39:7;46:1,

5,6,7;91:24;92:5;128:16, 94:13
17;142:8
estimated (1)
46:1
estimation (5)
32:12;41:22;101:7;
125:2,6
et (10)
70:7,7;72:2,2;123:3;
148:13,13,19;149:14,14
European (2)
23:6;69:18
even (11)
16:18;32:15;50:23;
66:13;84:17;88:1;100:1;
101:10;123:14;125:14; 129:13
even-aged (1) 85:2
eventually (1) 125:24
everybody (4)
73:3;77:17;98:22;
135:17
everyplace (1) 7:2
everywhere (1) 75:2
exact (5)
30:6;35:23;44:18;
45:10,21
exacting (1)
49:23
exactly (7) 10:16;44:14;45:4; 90:17;133:1;142:16; 146:16
exam (2) 117:23;118:1
examination (3)
4:23;157:13,20
example (19) 29:6;35:11;40:7; 62:12;64:22,23;65:24; 87:7;92:3;100:21;105:8; 108:23;113:13;117:2; 128:11;140:15;145:22; 146:23;147:24
examples (1) 107:21
excavator (1) 150:1
exceed (2) 84:8;87:4
exceeding (1) 127:19
exceeds (2) 128:4;131:11
excess (4)
9:11;36:7;76:19;151:4
excessive (1) 88:8
exclude (1)
excluded (1)
136:13
Excuse (11)
27:17,18;46:12;52:5; 61:14;66:14;114:10;
129:24;152:17;153:16;
154:3
exercise (1) 73:2
Exhibit (43)
4:18;14:21;15:9;
18:16;28:17;30:21;
32:22;41:4;42:5,6,7;
46:11;48:12,18,18;
49:13,14,22;53:10;
78:22,24;79:1,3,4,8,8,10,
15,17;80:6;102:6,8,9,13,
15;105:2,4,8;122:17;
126:22;139:21;146:17,
20
exhibits (2) 27:16;136:15
exist (2)
86:2;117:23
existed (1)
68:20
existence (1) 59:23
existing (8)
21:24;24:7;37:12;
39:8;85:24;86:19;
137:16,21
expand (2)
94:12;95:9
expect (15)
14:24;29:20;34:14;
36:16,18;38:22;45:13; 59:4;81:2;93:12,13;
101:16;142:14,18;151:5
expected (1)
32:8
expensive (2)
121:5;145:15
experience (12)
8:20;14:7;17:4;19:3;
30:10;71:23;74:12;
104:9;124:10;132:22;
146:23;151:2
experiences (1) 11:16
experiential (1)
137:6
explain (7)
5:22;7:3;33:13;36:9;
72:17;108:10;137:1
explained (10)
10:24;12:7;14:18;
24:3;35:1;39:20;94:6; 103:14,15;132:15
explains (1)
99:14
explicitly (1)

| 85:12 | 113:14;121:19,22;131:9 | 22;58:1,5 | 72:3;75:10,11,15;80:13; | foresters (12) |
| :---: | :---: | :---: | :---: | :---: |
| export (2) | fall (3) | Fifty (2) | 84:1;107:22;122:17; | 9:7,10;16:9;30:9;77:2, |
| 60:7,10 | 43:21;100:14;128:10 | 114:3,3 | 126:6;139:11 | 18,20;86:6;112:4,11; |
| expresses (1) | Falls (2) | figure (8) | fit (3) | 139:13;148:6 |
| 67:7 | 115:6,13 | 44:24;45:1;63:14; | 24:7,18;27:2 | Forester's (1) |
| extensive (1) | familiar (12) | 92:5;130:1,6;136:14,22 | five (7) | 123:13 |
| 26:13 | 26:5;32:23;37:23 | file (1) | 39:12;90:15,19; | forestland (1) |
| extensively (1) | 111:2;117:16,19,21; | 81:11 | 101:18;116:22;143:7,8 | 56:5 |
| 16:8 | 118:5;119:2,5,7;148:6 | filed (1) | fixed (1) | forestry (13) |
| extent (3) | families (1) | 105:13 | 89:20 | 12:20;36:17,18;43:19; |
| 106:19;139:14;150:15 | 124:22 | filing (1) | flaw (1) | 56:3;65:22;84:10,12; |
| extra (1) | family (4) | 105:18 | 25:5 | 86:10;99:21;100:2; |
| 147:8 | 55:20,24;56:2;124:24 | fill (3) | fliers (1) | 118:6;123:5 |
| extrapolated (1) | far (5) | 9:4;142:1,2 | 151:17 | Forests (23) |
| 33:15 | 29:7;71:6;113:19 | filled (2) | flooring (1) | 15:16;62:21;69:23; |
| extremely (1) | 142:17;151:4 | 33:13;99: | 101:15 | 70:4,17;73:10,14;74:2,6, |
| 29:8 | Farm (9) | filtered (1) | flows (1) | 21;76:22;83:18;84:7; |
|  | 6:5;11:4;12:13,18,18, | 17:2 | 20: | 85:1,13;89:19,21,24; |
|  | 22;86:9;88:2;154:15 | final (4) | fly (5) | 97:2;111:5,19;125:17; |
|  | farmer (3) | 41:8;62:24;81:20 $155: 4$ | $148: 14,15 ; 149: 1$ | 128:9 |
| $6: 6,11 ; 7: 13,13 ; 21: 14$ | farther (3) | finalize | flying (2) | 99:18 |
| 29:5,12;30:3;39:5; | 121:2,4,6 | 4: | 149:8,12 | forget (2) |
| 42:14;44:3;50:5;57:12, | fashionable (1) | finalized (1) | focus (2) | 61:20;69:10 |
| 20;96:7;98:22;99:1; | 11:2 | 139:20 | 5:11;112:18 | forgive (3) |
| 109:14;110:2;111:12; | faster (4) | finalizing | folks (1) | 83:14;96:16;104:20 |
| 112:14;113:7;114:12; | 74:2;76:23;77:1,3 | 104:5 | 11:2 | form (4) |
| 121:16;146:24 | fatal (1) | finally (1) | follow (4) | 87:24;93:15;144:12; |
| Facility (56) | 25:5 | 7:21 | 86:18;112:10,13; | 152:22 |
| 6:2,7,7,15;7:14,18,20; | father (1) | financial (1) | 155:20 | formalized (2) |
| 18:19;22:3;24:7;26:11; | 12:2 | 76:10 | followed (1) | 43:14,15 |
| 29:9,24;30:19;31:3; | favorites | financially | 155:23 | forms (1) |
| 32:20;36:1,6;38:13,19, | 5:13 | 87:15 | following (4) | 21:12 |
| 23;44:15;45:10;46:17; | feasible (2) | Finch (1) | 21:18;34:20;81:10; | forth (1) |
| 49:4;50:11,12;54:9; | 31:6;87:15 | 29:6 | 126:19 | 145:7 |
| 62:9;71:16;72:7;73:14; | fed (1) | find (13) | follow-up (3) | Forty-five (1) |
| 93:3,11;94:3;95:2,10; | 60:5 | 47:2,8;54:22;66:4 | 9:14;135:13;142:7 | 115:7 |
| 98:6;110:4,15,15; | federal (2) | 89:21;95:6;104:24; | foot (1) | forward (3) |
| 111:14;113:6,11,12,16; | 5:23;35:21 | 125:18,18,21,23;132:1; | 103:14 | 59:5;128:14;133:11 |
| 114:14;115:22;116:16, | fee (3) | 145:7 | footprint (1) | found (3) |
| 19,21;117:5;121:20; | 140:20,24,24 | fine (4) | 68:16 | 24:16;26:16;128:14 |
| 142:9;151:19;152:21 | feedstock (1) | 27:21;96:4;143:5 | forest (64) | four (6) |
| facility's (1) | 104:14 | 157:3 | 8:21;14:14;18:18; | 11:8;90:14,19;94:10; |
| 23:14 | feel (4) | finish (1) | 43:1;55:1,5,9;59:5,14; | 107:21;146:23 |
| fact (20) | 4:5;95:7;103:2 | 12:4 | 60:19;64:10,14,19,20; | frame (1) |
| 8:6;15:18;16:21; | 104:21 | finished (1) | 65:11,11,18;66:12; | 33:1 |
| 21:21;30:15;37:2;50:7; | fees (1) | 123:5 | 75:21,22;77:1,3;82:10, | Fraser (6) |
| 54:2;65:5;71:16;74:19; | 21:4 | fire (2) | 18,19;84:3;85:2,4,5; | 16:9;61:11;62:13,13; |
| 84:24;85:15;89:6;91:3; | felt (1) | 25:19;95:18 | 86:8,9;87:4,11,17,19,20, | 137:14;150:18 |
| 126:15;133:14;139:4; | 132:19 | fires (1) | 21;88:7,10;89:5,6,9,16, | Frecker (7) |
| 151:3;153:22 | few (7) | 70:7 | 17;90:6,13;91:7;92:4,9, | 33:12,22;38:7;69:20; |
| factor (2) | 4:20;98:24;105:15; | firewood (6) | 18,21;99:22;103:23; | 135:5;158:7,15 |
| 18:14;35:2 | 106:16;126:7;135:12; | 11:5,18,23;12:12,14, | 117:17,19;118:2,22; | freed (1) |
| factors (3) | 143:3 | 21 | 123:23;124:2;131:1,2; | 152:20 |
| 18:8;33:17;99:12 | FIA (21) | firmly (1) | 141:10;145:24;146:3 | Friday (3) |
| facts (1) | 59:11;89:17,23;90:2, | 86:3 | forestal (1) | 80:20;81:10;158:4 |
| 73:21 | 22;91:11;103:1;126:12, | First (35) | 65:3 | front (3) |
| fails (1) | 18;127:15,24;128:7,15; | 4:14,16,21;5:12; | forested (1) | 14:20;110:9;121:6 |
| 40:14 | 129:11;130:23;131:20; | 11:13;15:7,22;16:2,16, | 92:7 | FSA (1) |
| fair (14) | 132:16;133:5,7,12,14 | 24;20:10,17;24:11; | forester (9) | 6:5 |
| 27:22;29:21;35:24; | fiber (14) | 25:20;32:11;33:6;35:13; | 75:19;76:19;87:10; | fuel (40) |
| 57:9;65:17;72:23;85:19; | 9:10,11;55:17;56:11, | 36:10;39:12;46:18;51:3, | 120:4;122:6;123:7,7; | 16:12;19:18,20;20:16; |
| 98:1;100:2;106:3; | 12,14,17;57:5,11,12,13, | 15;54:24;55:24;71:17; | 133:20,23 | 22:24;24:8;25:24;26:3; |


| 32:5;34:15;35:3,14,17, | generated (1) | 10;54:16;58:8;60:6; | guesstimates (1) | 134:22;143:8,22; |
| :---: | :---: | :---: | :---: | :---: |
| 17;36:19;37:3;38:14,23; | 43:9 | 75:21;153:9 | 44:18 | 144:1,4,7,16;154:4,6,12, |
| 39:3,4;40:7;50:22; | generating (6) | graduated (1) | guideline (8) | 20;158:21 |
| 55:21;57:6;67:23,23; | 113:17,24;114:12; | 11:1 | 64:20;65:2,20,20,21; | harvest (4) |
| 68:4;72:3,21,22;73:5,6, | 115:19;116:19,23 | grand (1) | 66:9,10,16 | 76:16;88:13;125:20; |
| 7,19;74:10;79:1,5;94:5; | gentleman (3) | 53:23 | guidelines (7) | 152:1 |
| 100:21;106:22 | 17:15;56:22;67:3 | Granite (1) | 65:13,14;67:3;69:21; | harvested (5) |
| fueled (1) | gentlemen (1) | 118:6 | 85:23;86:1;118:24 | 65:1;74:3;84:7;86:22; |
| 113:23 | 154:23 | grant (3) | Guild (9) | 125:3 |
| fueling (2) | geographic (1) | 14:9,11,1 | 64:10,14,19,20;65:12, | harvesting (14) |
| 36:22;110:14 | 103:8 | grants (2) | 18;82:10,18,19 | 58:18;67:2;69:6;86:5; |
| full (4) | geographical (2) | 13:22,22 | Guild's (1) | 87:3;88:2;91:16;97:1; |
| 32:13;65:7;71:19,20 | 40:4;51:8 | great (3) | 65:11 | 126:10,15;128:10; |
| fully (1) | geologic (1) | 76:20;98:19;137:4 | guys (3) | 131:19;132:4,6 |
| 97:13 | 69:22 | greater (5) | 108:20,21;149:24 | hats (1) |
| function (1) | gestalt-type (1) | 21:1;31:5;74:22;75:1; |  | 118:23 |
| 106:20 | 44:22 | 116:22 | H | haul (7) |
| Fund (1) | gets (10) | green (3) |  | 21:1;31:6;107:24; |
| 13:23 | 40:7;51:20;62:14; | 29:14;37:11;86:10 | ha | 108:18,22;110:9,11 |
| furniture (1) | 88:18;112:23,24;113:1; | Greenfield (2) | 5:3 | hauled (2) |
| 101:15 | 148:21;153:9,11 | 22:13,20 | Hampshire (44) | 108:2;109:20 |
| further (17) | Gilman (1) | Greenville (2) | 10:7;28:23;46:10; | hauling (1) |
| 10:24;19:21;32:18; | 150:18 | 51:10;52:1 | 59:12;63:19;67:9;74:4; | 104:22 |
| 34:20;40:12,16;50:7; | given (11) | grew (1) | 76:18;87:20;91:8,17,18; | hauls (10) |
| 78:4;80:15,19;81:17; | 16:10;27:15,22;52:15; | 13:11 | 92:3,5,7,13,17;109:9; | 20:3;21:1;107:22; |
| 88:6;101:22;103:15; | 80:24;125:21,21; | grid (2) | 110:23;111:13;112:5; | 108:1;109:8,10;110:6, |
| 117:8;139:8;154:4 | 136:14;137:1;146:22; | 115:11;116:20 | 113:8,20;114:8,8,8,11, | 14,16,16 |
| future (10) | 148:3 | gross (1) | 14;115:21;116:4,8; | head (5) |
| 55:10;59:22;95:5; | giving (1) | 115:10 | 117:1,17,19;118:2,21; | 97:9,10;138:19; |
| 101:7,12,14;103:6; | 57:9 | ground (4) | 119:19;120:12;125:13; | 144:13;149:17 |
| 111:13;118:16;128:13 | glad (1) | 8:18;73:15;77:14; | 128:11;131:23;132:18; | health (1) |
| G | 142:2 | 104:20 | 134:8,12 | 75:22 |
| G |  | group | and (1) | 74:6 (1) |
|  | 59:20;97:23;98:18,20; | 53:1,13,13 | 63:4 | 74:6 |
| Gabler (3) | 99:13,16,20;100:6,7 | Groveton (2) | handled (3) | hear (4) |
| 4:5,7;157:24 | goal (3) | 15:19;18:9 | 17:18;77:18;118:8 | 86:23;126:11;147:6, |
| gallon (2) | 80:21;81:4;86:18 | grow (5) | handling (2) | 10 |
| 20:18,20 | $\boldsymbol{G o d}(1)$ | 76:16,22;77:3;85: | 6:10;7:17 | heard (15) |
| gap (1) | 154:19 | 88:4 | hang (1) | 27:20;28:7;63:14; |
| 132:23 | goes (16) | growing (9) | 118:22 | 86:24;89:10;92:6,8; |
| garden (1) | 4:22;6:14,16;13:5; | 63:10,10,15;74:2,6; | happen (7) | 93:9;96:19;97:16,22; |
| 76:24 | 21:15;23:1;25:2;58:6; | 76:11;77:1;130:22; | 23:13;35:18;38:9; | 99:23;103:11;113:8; |
| gas (2) | 71:2,17;94:22;95:7; | 148:2 | 64:1;84:24;113:4; | 157:24 |
| 69:4;70:13 | 101:9;141:5;148:12; | grown (2) | 128:13 | Hearing (7) |
| gasification (1) | 153:8 | 85:10;91:2 | happened (7) | 4:2;78:14;81:11; |
| 11:12 | good (25) | grows (1) | 13:3;63:24;69:17 | 144:10;155:17;159:6,7 |
| gasifier (1) | 8:17;13:7;14:17;25:9; | 133:7 | 89:22;133:4,5,6 | heat (7) |
| 12:16 | 35:22;50:16;56:6;60:11, | growth (28) | happening (1) | 13:21;14:9;31:12; |
| gather (1) | 18,23;61:3,5,5;63:9; | 84:8,8,14,15,20,22; | 89:14 | 33:14;36:15;37:1; |
| 93:14 | 76:10;80:10;87:10,17; | 87:4;88:14;89:18,24; | happens (8) | 116:18 |
| gave (1) | 98:7;100:13;118:5; | 92:1;102:17;126:14,17; | 23:13;47:3;49:8;50:2; | heating (2) |
| 67:1 | 123:5;124:8;140:15; | 127:10,18;128:4,14,21; | 56:2;101:19;125:15; | 12:16;13:5 |
| general (6) | 155:9 | 129:4,6,13,19;130:1,6, | 149:2 | heavily (2) |
| 38:16,18,20,22;57:3; | Gorham (1) | 19,24;131:11 | happy (1) | 96:9,13 |
| 119:19 | 61:12 | guarantied (1) | 28:20 | held (1) |
| generalities (1) | government (1) | 19:7 | hard (4) | 55:16 |
| 37:17 | 35:21 | guess (22) | 25:12;65:23;66:8; | help (4) |
| generally (5) | grab (1) | 5:5;24:23;27:11; | 125:18 | 14:8;93:5;126:5; |
| 5:10;18:19;31:5; | 8:14 | 30:10,17;40:18,18; | hardwood (2) | 130:14 |
| 112:18,22 | grabbed (1) | 43:21;50:6;53:11;55:22; | 54:7;99:5 | helped (1) |
| generate (4) | 47:8 | 58:16;59:11;68:16,21; | hard-working (1) | 112:7 |
| 98:5;100:20;116:13, | grade (10) | $71: 1,10 ; 75: 23 ; 129: 4$ | $26: 21$ | helpful (6) |
| $14$ | 15:17,24;16:7;18:4, | 144:9;151:19;156:22 | HARRINGTON (12) | 99:19;115:18;150:10, |


| 12;158:14,17 | 4:5;71:24;86:18; | 57:12;65:15;73:13; | indicate (2) | 7:15;44:11;121:10 |
| :---: | :---: | :---: | :---: | :---: |
| helps (1) | 96:18;150:14;157:19 | 74:21 | 4:24;151:2 | instead (2) |
| 150:14 | hoppers (1) | impacted (1) | indicated (2) | 59:2;149:7 |
| Hemphill (2) | 94:21 | 92:19 | 7:1;82:23 | integrated (1) |
| 114:22;115:3 | horses (1) | importance (1) | indicates (3) | 99:21 |
| Henniker (4) | 11:24 | 126:2 | 22:19;45:12;102:16 | intelligence (2) |
| 108:19;109:2;121:10; | hour (2) | important (1) | indications (1) | 40:1,16 |
| 122:7 | 37:12;143:2 | 78:19 | 128:7 | intend (1) |
| here's (1) | hours (4) | importantly (1) | individual (3) | 93:2 |
| 148:24 | 32:7,10,12,16 | 21:18 | 7:6;62:9;88:21 | intended (1) |
| high (6) | house (1) | imported (1) | industrial (3) | 88:23 |
| 19:7,23;98:10,23; | 13:5 | 112:24 | 52:21;53:9;92:11 | intense (2) |
| 123:10,24 | housekeeping (1) | impose (3) | industry (20) | 46:16;49:4 |
| higher (9) | 82:7 | .74:24;75:3;85:23 | 8:21;9:24;18:20;22:7; | intent (2) |
| 20:1;54:10;62:22; | houses (1) | impractical (1) | 39:3;57:18;60:20;63:2; | 37:2,2 |
| $77: 3 ; 117: 5,5 ; 123: 14$ | 101:16 | $88: 11$ | 64:1,1;68:9,19;86:17; | intention (6) |
| 148:20;153:8 | housing (2) | improve (1) | 99:22;100:2;101:23; | 64:18;65:10;70:18; |
| higher-grade (1) | 92:10;141:7 | 75:22 | 112:17,23;124:2,7 | 85:21;86:12;145:3 |
| 74:10 | Huh (1) | impute (1) | infinitesimal (1) | intentions (1) |
| higher-quality (1) | 116:12 | 59:15 | 52:9 | 63:9 |
| 100:19 | human (1) | inaccessible/inoperable (1) | influence (2) | interactions (1) |
| higher-value (1) | 23:17 | 124:12 | 56:14;57:6 | 72:1 |
| 74:10 | hundred (1) | inaccurate (1) | information (17) | interest (2) |
| higher-valued (1) | 23:5 | 125:8 | 8:24;10:6,9;26:1; | 81:24;86:4 |
| 59:4 | hundreds (4) | in-between (1) | 33:16;34:4,6;36:24; | interested (1) |
| highest (1) | 53:24;61:2;74:15; | 120:3 | 38:3;56:19;90:21;96:23; | 76:7 |
| 25:3 | $98: 11$ | include (2) | 107:17;129:3,5,7;131:10 | interesting (2) |
| high-grade (8) | hurt (1) | 52:19;111:13 | informed (1) | 99:16;101:23 |
| 60:8,8,23;98:4,9; | 88:9 | included (11) | 94:14 | interim (1) |
| 101:4,9;102:1 |  | 7:7;36:13,13,14; | infrastructure (2) | 40:24 |
| high-level (1) | I | 50:23;51:24;52:16;53:5; | 95:1,17 | internal (2) |
| 103:13 |  | 136:13;137:3, | initial (1) | 9:17,22 |
| highly (1) | Iacopino (23) | includes (1) | 49:2 | Internet (1) |
| 106:23 | 4:9,12,13;24:2;28:16; | 79:23 | initially (2) | 26:20 |
| high-quality (2) | 34:1;42:23;44:9;47:22; | including (1) | 4:10;156:8 | interpret (1) |
| 99:24;100:19 | 48:9;66:21;67:4,6;78:4, | 31:4 | Initiative (2) | 131:16 |
| high-value (1) | 21,23;79:13,20;80:4; | income (1) | 86:8;113:3 | interrupt (2) |
| 97:17 | 83:13;97:12;105:2; | 76:7 | Innovative (2) | 126:20;135:10 |
| himself (1) | 130:8 | incoming (1) | 36:12;72:5 | interruption (5) |
| 35:14 | idea (3) | 35:17 | inoperable (1) | 79:24;96:11;124:16; |
| hired (5) | 8:22;94:24;125:6 | incomplete (1) | 123:24 | 130:3;144:15 |
| 6:6;14:6,8;16:9; | Ideally (1) | 82:23 | inoperable/inaccessible (3) | interviewed (2) |
| 104:12 | 157:4 | inconvenience (1) | 122:18;123:9,15 | 17:8;94:4 |
| historic (2) | identification (1) | 157:7 | input (2) | interviews (3) |
| 137:24;138:15 | 79:10 | inconvenient (1) | 35:3;41:19 | 17:6;30:10;42:18 |
| historical (5) | identified (4) | 156:23 | inquiries (2) | into (49) |
| 138:5,7,11,20;139:7 | 25:17;48:21;88:23; | incorporation (1) | 20:8;60:7 | 10:11;12:12,19;14:1; |
| history (8) | 137:24 | 118:11 | inquiry (1) | 25:21;26:2,14;27:2; |
| 8:20;9:5;14:18;25:14, | identifies (2) | incorrect (1) | 91:2 | 33:11;34:22;36:1;43:12; |
| 16;85:4,4;101:13 | 39:12;150:7 | 130:21 | INR (1) | 44:17;45:10;51:7;52:10, |
| hit (1) | identify (1) | incorrectly (1) | 153:23 | 13;53:23;58:9;61:12; |
| 118:9 | 81:16 | 36:24 | insects (4) | 63:18,18;67:11,21;69:8; |
| holds (2) | idled (1) | increase (3) | 110:21,22;111:18; | 71:16;76:11;85:24; |
| 76:12;77:5 | 6:3 | 64:6;120:23;152:2 | 112:15 | 86:19;88:8;92:21;94:11; |
| hole (1) | illustrated (1) | increased (4) | insist (1) | 95:9;99:10;108:16,18; |
| 27:2 | 70:19 | 8:23;16:18;63:13;67:8 | 56:6 | 111:19;121:2;137:11; |
| holiday (1) | illustrates (1) | increases (2) | inspected (1) | 138:24;139:7;147:10; |
| 100:15 | 136:22 | 63:11;146:14 | 112:24 | 149:20;150:3;153:8,10, |
| home (1) | illustration (2) | Indeck (5) | inspection (1) | 10,24;154:15 |
| 12:16 | 40:24;47:6 | 107:22;108:3,6,13; | 112:12 | in-town (1) |
| Honestly (1) | immature (1) | 109:6 | install (1) | 5:14 |
| 71:9 | 85:7 | in-depth (1) | 93:3 | introduced (1) |
| hope (6) | impact (4) | 56:19 | instance (3) | 78:24 |

\{SEC 2009-02\}[DAY 2 - PM SESSION] - August 24, 2010 LAIDLAW BERLIN BIOPOWER, LLC

| invasive (1) | 75:17 | 95:17 | 48:1;94:18;154:6,9 | licensed (3) |
| :---: | :---: | :---: | :---: | :---: |
| 110:21 | judgment (1) | Laflamme (2) | lasted (1) | 9:7;77:19;139:13 |
| Inventory (1) | 137:6 | 157:1,14 | 99:18 | life (2) |
| 89:17 | July (2) | Laflamme's (1) | late (2) | 6:9;156:21 |
| invest (1) | 105:18,19 | 156:3 | 61:4;117:13 | lifecycle (2) |
| 95:8 | jump (1) | Laidlaw (33) | lately (1) | 69:3,6 |
| invested (1) | 47:10 | 8:4;14:5,6,7,8;15:3; | 61:7 | light (3) |
| 76:9 | Junction (1) | 29:23;33:4;49:7,20; | later (3) | 83:6;103:22;115:3 |
| investigated (1) | 13:4 | 53:3,12;54:4;62:4; | 28:2;33:23;81:13 | likely (8) |
| 11:11 | June (1) | 77:13,15;84:2;87:2; | Laughter (2) | 10:3;16:7;18:10; |
| investment (1) | 105:22 | 89:5,8;100:21,23; | 136:4;138:21 | 22:21;87:11;89:11; |
| . 76:8 |  | 105:10;107:10;113:11; | Lawrence (1) | 101:14;121:15 |
| investor (1) | K | 115:22;121:14;122:1,1; | 137:17 | limit (2) |
| 76:6 |  | 142:9;147:9,16;152:21 | laws (4) | 30:22;74:24 |
| investors (1) | keep (8) | LaMoille (1) | 117:17,19;118:4,22 | limitation (1) |
| 56:5 | 13:9;22:12;33:21; | 50:13 | LBB (1) | 156:2 |
| involve (1) | 78:2;122:13;124:1; | land (24) | 83:17 | limited (3) |
| 67:11 | 147:1,20 | 11:3,3;12:13;55:15, | LBB's (1) | 6:24;146:12,13 |
| involved (8) | Kent (10) | 20,20;56:1,2,20;66:3; | 139:12 | Line (40) |
| 12:20;13:15;15:2; | 117:10,12,15;124:17; | 75:6;76:7,9;88:13;92:9; | leader (1) | 15:11,13;18:2,16,16; |
| 41:18,19;48:15;103:18; | 126:23;127:4,6;130:11, | 98:12;108:21;124:1,4; | 86:17 | 22:15;23:14;24:11; |
| 106:9 | 12;134:17 | 125:11,22;134:5; | leads (1) | 27:11;32:2;34:8,17; |
| involves (1) | kept (1) | 137:14;154:16 | 58:15 | 35:11;37:9;38:2,15; |
| 5:1 | 94:18 | landfill (2) | learn (1) | 39:13;42:2;46:12,13; |
| IP (1) | kill (2) | 140:19,20 | 40:10 | 55:10;56:13;61:10,18; |
| 29:6 | 25:8;26:9 | landfills (1) | learned (2) | 64:9;65:23;66:8;68:6; |
| issuance (1) | kilns (1) | 21:5 | 11:11;12:15 | 85:1;100:24;101:17,19; |
| 81:20 | 14:2 | landing (1) | least (7) | 106:18,19;107:8; |
| issue (16) | kilowatt (2) | 8:11 | 50:8;56:4;59:14;68:9; | 126:19;131:8;132:4; |
| 33:23;42:20;49:1; | 19:10,11 | landowner (6) | 113:13;114:14;143:17 | 137:17;146:20 |
| 64:4;73:11;82:14;88:17; | kind (13) | 58:14;74:8;88:1,21, | leave (11) | lines (4) |
| 92:21;97:14;104:22; | 5:7;9:14,15;17:14; | 24;140:7 | 8:10;66:9,12;80:15; | 28:13;50:21;52:24; |
| 106:22;110:20,23; | 50:9;116:16,18;118:22; | landowners (6) | 106:11;112:23;119:16; | 65:4 |
| 112:20;124:15;144:8 | 132:22;139:5;147:13; | 86:4,21;125:15,16,22; | 143:1,2;145:23;146:2 | linked (1) |
| issues (5) | 149:6;150:3 | 153:1 | leaving (2) | 20:2 |
| 24:9;28:5;80:24; | kinds (1) | Lands (5) | 8:17;65:2 | links (1) |
| 96:17;155:14 | 76:4 | 15:16;123:8,10;124:7; | left (5) | 34:20 |
| item (2) | knew (1) | 134:6 | 9:11;13:13;66:17; | list (4) |
| 133:21;139:11 | 112:20 | LandVest (22) | 149:2,3 | 29:11;40:2;110:5; |
|  | knowing (4) | 15:14,16;33:4;39:22; | lend (2) | 114:19 |
| J | 27:8;30:8,9;44:24 | 42:13,17,19,21;43:1; | 24:7;120:20 | listed (6) |
|  | knowledge (9) | 49:20;51:19;53:3,12; | lends (1) | 29:12;30:3;44:4; |
| Jaffrey (1) | 38:24;43:12;44:8; | 74:2;90:1;102:5,16; | 95:19 | 50:24;109:14;119:10 |
| 116:8 | 46:22;57:18;67:16; | 103:12;104:13;106:5; | lent (1) | listened (1) |
| Janelle (1) | 104:9;116:2;132:23 | 136:10,18 | 21:10 | 73:4 |
| 113:10 | knowledgeable (1) | LandVest's (3) | less (20) | Liston (34) |
| January (1) | 44:5 | 15:21;27:14;43:5 | 11:10;31:11,14;36:1; | 4:19;10:12;14:21; |
| 101:3 | knows (1) | large (8) | 45:18;68:2,18;70:10; | 15:13;16:5;18:17;24:22; |
| Jersey (1) | $35: 23$ | 23:6;53:14;68:8; | 71:6;74:15,21;92:18; | 25:15,16;27:2,12,22,24; |
| 13:23 | Kusche (4) | 84:20;85:2;113:11,12; | 98:15,15;127:22;128:1, | 28:13;30:21;31:9,19; |
| job (3) | 51:9;115:7;155:23; | 125:21 | 24;129:18;140:24;143:7 | 32:17;34:17;36:23;38:2, |
| 49:7;50:1;77:20 | 157:5 | largely (2) | lets (1) | 12;42:12;45:12;46:2,9; |
| jobs (1) | Kusche's (1) | 92:16;112:21 | 100:13 | 54:23;64:8;67:7,22; |
| 9:8 | 157:20 | larger (6) | letter (4) | 70:20;71:2;73:2;157:24 |
| John (1) |  | 54:9;74:20;115:6,9, | 32:18,23;55:18; | Liston's (17) |
| 35:23 | L | 21,22 | 124:18 | 15:4;18:1;19:2;24:4; |
| join (4) |  | largest (14) | level (8) | 31:21,23;34:2;36:3; |
| 19:1;158:8,13,18 | Lab (1) | 18:18;21:20;53:21; | 27:1;39:22;50:1; | 39:6;50:20;52:20;54:17, |
| joined (1) | 69:2 | 70:15,16;75:11;113:16, | 60:11;71:17;88:21,24; | 19;58:16;61:9;68:17; |
| 14:5 | Laboratory (1) | 20;114:7;116:3,6,7,11, | 101:9 | 78:5 |
| joint (1) | 70:2 | 22 | levels (4) | little (34) |
| 104:7 | lack (5) | last (8) | 79:23;80:5;88:18; | $10: 13,17,23 ; 11: 7$ |
| joked (1) | 15:17,23;16:5;18:4; | 7:21,22;22:20;24:13; | $89: 24$ | $13: 17 ; 16: 3,22 ; 26: 16$ |

\{SEC 2009-02\}[DAY 2 - PM SESSION] - August 24, 2010 LAIDLAW BERLIN BIOPOWER, LLC

| 27:21;32:15;40:10,22; | 22:16 |  | 116:9 | may (32) |
| :---: | :---: | :---: | :---: | :---: |
| 45:18;55:4;57:10;58:4; | look (41) | M | maple (2) | 10:24;15:18,24;27:20; |
| 60:22;64:4;74:19;76:13; | 15:8;21:11,14;23:1; |  |  | :10;39:18;42:1,10; |
| 78:17;95:9,20;96:16; | 25:6;26:9;29:2,2;40:2; | m | March (1) | 47:20;48:14;51:5;53:17; |
| 98:20;103:7;104:19,22; | 41:11,14;59:10,13;74:5; |  | 50:23 | 55:20;59:3,21,22;66:14; |
| 115:4;123:14;133:19; | 89:23;90:14;91:11,14, | ma-and-pa | Margaret (1) | 77:15;81:23;94:9;96:18; |
| 139:8;146:7;147:5 | 16;92:15;99:20;101:7,8, | 94:9 | 70:1 | 102:4;113:4;116:18; |
| live (1) | 12;106:7;112:14; | macro (2) | marginal | 21:13;125:4,21; |
| 84:16 | 118:13,17;122:23; | 88:14;89:? | 129:13 | 132:11;135:6,16;145:2; |
| Livermore (2) | 123:3;125:11;128:12; | main (1) | mark (1) | 150:16 |
| 115:6,13 | 130:13,13;131:5,19; | 110:10 | 8:21 | maybe (27) |
| LLC (1) | 133:7;136:14;138:16, | Maine (16) | marked (4) | 5:14;8:22;18:6;35:16; |
| 13:15 | 24;139:7 | $6: 6 ; 50: 13,24 ; 5$ | 28:17;79:3,9;136:15 | $53: 22 ; 57: 15 ; 58: 16$ |
| load (4) | looked (8) | $59: 12 ; 66: 16,18 ; 74: 4$ | market (37) | 65:15;76:1;84:9;94:10, |
| 35:15;108:17,22 | 26:7,10;71:7;90:2 | 87:20;91:17,20;109:1; | 7:8;8:13,16,18;13:6; | 10;95:14,24;105:16; |
| 110:9 | 92:22;117:21;123:1 | 115:10;128:11;131:23; | 16:11;19:6;54:16;59:23; | 115:4;117:13;118:15; |
| loads (8) | 133:11 | 132:20 | 62:15;63:3,21;66:13; | 123:13;133:2;140:13; |
| 7:10,15,18;8:10; | looking (25) | Maine's | $72: 17,22 ; 94: 13 ; 99: 3,11$, $15 \cdot 100 \cdot 8 \cdot 101: 4,10$. | 143:17;150:2;151:10; |
| $\begin{aligned} & \text { 110:2,3;111:17;112 } \\ & \text { local (9) } \end{aligned}$ | 6:4;28:12;29:20; | 66:16 | $\begin{aligned} & \text { 15;100:8;101:4,10; } \\ & \text { 121:19,22;122:10; } \end{aligned}$ | 152:6;153:6;157:4 |
| 5:2,11,13;20:21,22; | 93:19;96:20;102:6 | 60:11;70:13;124:10; | 125:23;145:20;146:14; | 45:13 |
| 31:4;68:12;76:1;108:2 | 105:14;124:3;125:17; | $129: 3$ | 147:11,16,24;148:21; | mean (34) |
| locate (1) | 126:13;127:8,10,11,13, | maintained (1) | $149: 4,17 ; 150: 2,11$ | $6: 19 ; 7: 3 ; 10: 5,16$ |
| 130:5 | 14;130:2;133:8,9; | 23:16 | $151: 24$ | $14: 13 ; 18: 7 ; 21: 17 ; 22: 9$ |
| located (2) | 136:10,16;158:3 | major (3) | marketers (1) | 44:17;45:17,17,24;47:7; |
| 46:17;116:8 | lose (1) | 25:6,7;56:9 | 72:2 | 50:11,14;52:6;55:4; |
| location (2) | 145:14 | majority (2) | markets (20) | 56:24;59:6;60:19;65:24; |
| 47:19;109:6 | losses (1) | 26:18;149: | 6:8;8:14;20:7;26:5,6, | 66:1;76:15,20;88:11; |
| $\boldsymbol{\operatorname { l o g }}(5)$ | 25:11 | maker (1) | 6;44:5;72:15;95:21; | 102:15;112:19;117:20; |
| 8:15;87:8;93:3;96 | lost (1) | , | 98:9,9,10;110:13; | 121:19;123:22;129:11; |
| 151:23 | 128:6 | makes (10) | 120:20;149:21;151:10, | 130:21;132:20;156:6 |
| logger (11) | $\boldsymbol{l o t}(25)$ | $19: 19 ; 27: 14 ; 31: 16$ | 11,22;153:4,14 | meaning (1) |
| 9:19,20;20:21,22; | 10:14;11:9;13:2 | $52: 20 ; 62: 12,14 ; 74: 13$ | market's (2) | 139:14 |
| 58:10,13;60:13,21;87:9; | 15:3;23:12;26:1,16 | 18;118:19;146:22 | 122:11:146:12 | means (5) |
| 120:4;122:5 | 40:7;60:20;71:13,15,15; | making (10) | Mass (2) | 18:11;84:2;85:9 |
| loggers (20) | 72:22;76:4,4;85:5,7 | 12:12,21;13:4;18:12; | 109:2;112 | 20:1;134:11 |
| 6:19,20;9:1,6;10:8; | 94:7;99:13;142:13; | $43: 7 ; 66: 6 ; 97: 18$ | Massachusetts (8) | meant (5) |
| 26:17;61:2,7;72:2,8,14; | 144:9,17;145:5;149:19, | 0:2;144:20 | 69:13;70:4;108:18; | 18:8;40:23;50:10; |
| $75: 1 ; 94: 5,7 ; 98: 11$; 100:13:109:9:112:13; | 22 | m | 110:7;112:5;132:20 | 65:23;114:10 |
| 100:13;109:9;112:13; $145: 20 \cdot 148 \cdot 5$ | Lou (6) | 56:2;61:1,2;76:3 | 140:17,23 | measure (6) |
| 145:20;148:5 | 52:4;57:15;76:9; | managed (5) | match (1) | 59:8;131:21,22;133:4, |
| logging (10) | 87:18;95:24;133:1 | 12:17;70:17;83:19 | 24:8 | 5,6 |
| 7:24;36:21;77:12; | Louis (1) | 85:15;89:7 | material (3) | measures (3) |
| 94:4,9;98:16,19;145:12; | 105:9 | management | 62:21;73:23;86:21 | 89:7;111:16,19 |
| 149:14;150:3 | Lou's (1) | $84: 4 ; 86: 6 ; 88: 24$ | materials (3) | mechanical (1) |
| logistics (4) | 88: | $141: 11$ | 83:3;109:20;111:19 | 111:24 |
| 58:9;120:9,20;121:3 | low (13) | Manager (3) | math (6) | mechanism (1) |
| logs (6) | 15:17,23;16:7;18 | $44: 5,23 ; 75: 14$ | $39: 13 ; 40: 3,13,21$ | $111: 24$ |
| $12: 1 ; 60: 8 ; 98: 12 ;$ $151: 8 \cdot 152 \cdot 10,22$ | 10;19:24;54:16;58:7 | managing (1) | $42: 12,21$ | medium-size (1) |
| 151:8;152:10,22 long (14) | 60:6;75:21;98:23;123:6, | $12: ?$ | mathematical (1) | 60:13 |
|  | 20 | Mann (1) | 72:16 | meet (2) |
| 18:18;19:8,12;60:18; $70: 17 ; 73: 9 ; 76: 8 ; 83: 18 ;$ | lower (6) | $70: 1$ | mathematics (1) | $78: 11 ; 98: 5$ |
| $\begin{aligned} & 70: 17 ; 73: 9 ; 76: 8 ; 83: 18 \\ & 100: 7,8 ; 101: 22 ; 157: 6, \end{aligned}$ | 16:18;22:17,18; $128: 12 \cdot 129 \cdot 8 \cdot 141$ | manner (5) | $71: 8$ | $\begin{gathered} \text { meeting (2) } \\ 70: 3,4 \end{gathered}$ |
| 11;158:9 | lowest-value (2) | $70: 18 ; 84: 7 ; 86: 22$ | $\begin{aligned} & \text { matter (9) } \\ & 27: 1 ; 54: 2 ; 74: 18 ; 8 \end{aligned}$ | $\begin{gathered} \text { 70:3,4 } \\ \text { megawatt (12) } \end{gathered}$ |
| longer (5) | 74:11;76:11 | Man | 11;111:6,8;112:21; | 23:5,8;37:12;38:13, |
| 5:21;21:15;78:17; | low-grade (12) | 69:12 | 126:3 | 18,22;70:9,9;75:12; |
| 84:17;99:20 | 55:8;73:23;107:13; | manufacturer (3) | mature (1) | 114:12,20;115:13 |
| longevity (1) | 113:12;140:8;141:6; | 35:5;116:7,12 | 85:5 | megawatts (13) |
| 95:8 | 146:22,24;152:9;153:18, | many (14) | maximize (1) | 18:20;22:1,10;31:12, |
| Longhorn (2) | 20,22 | $7: 18 ; 13: 8 ; 18: 8 ; 52: 21$ | 25:22 | 14;63:11;114:3,4,17,23; |
| 110:24;111:17 | lumber (2) | $54: 11 ; 58: 20 ; 83: 24,24$ | maximum (1) | $115: 1,4,15$ |
| long-term (1) | 100:20;153:10 | 86:2,7;87:22;92:6,6; | 33:14 | Mel (1) |


| 14:21 | millions (1) | 15,17,20;36:19,20,21; | 84:22;85:6,7,10;89:3; | 32:9 |
| :---: | :---: | :---: | :---: | :---: |
| members (4) | 123:18 | 37:11 | 90:8;92:18;95:7,16,16; | municipal (2) |
| 28:12;79:12;117:9; | mills (20) | moment (9) | 98:20;103:18;104:19, | 52:21;53:9 |
| 134:20 | 15:19;16:1;18:3,5,9, | 78:11,19;99:20;113:5; | 22;107:10,12;114:20; | municipality (1) |
| memo (3) | 11;30:10;52:13,16; | 119:17;122:15;126:21; | 120:7,18;121:4,7,15,20; | 5:14 |
| 17:12,14,16 | 61:12;62:1;94:8;96:21; | 130:14;143:1 | 122:2;123:11;128:7; | municipals (1) |
| memoranda (1) | 97:3;98:13;113:14; | Monday (1) | 130:22;135:6;143:3; | 54:3 |
| 81:12 | 117:3;133:8;147:6; | 110:3 | 145:9,10;146:5,15,21; | must (1) |
| memory (1) | 150:17 | money (10) | 148:18,21;151:6;152:1, | 61:20 |
| 115:2 | mind (3) | 6:14;11:10;18:1 | 4;154:22;156:21 | MUZZEY (4) |
| memos (2) | 22:12;81:19;124: | 25:3,4,11,12;26:1;55:24; | morning (11) | 134:23;136:9;138:22; |
| 9:15;43:9 | mine (1) | 147:17 | 4:22;35:1;108:16; | 139:24 |
| men (1) | 136:16 | Mongan (190) | 135:7,17,18;158:8,18, | myriad (1) |
| 12:1 | minimal (1) | 15:1;16:3;18:6,7;19:1; | 21,24;159:5 | 72:1 |
| mention (1) | 118:3 | 27:11;28:7,19,20;29:2, | morning's (1) | myself (1) |
| 84:24 | minimize | 14,17,21;30:1,6,13,16; | 4:15 | $11: 2$ |
| mentioned (11) | 65:1 | 37:20,23;39:9,15,16; | most (16) |  |
| 6:21,22;31:19;38:6 | minimus | 40:19,21;41:5,8,12,20, | 16:6;19:15;25:10; | N |
| 40:15;65:21;77:8,21 | 92:22 | 24;43:3,14,20;44:14,20; | 37:12;39:10;56:5;61:7; |  |
| 98:11;119:2;140:6 | minute (2) | 45:24;46:6,8,20,24; | 66:3;72:3;76:6;90:5; | Nacogdoches (1) |
| merchant (1) | 11:15;135 | 47:12,14;48:6,13,17,24; | 98:10;108:23;148:17; | 23:4 |
| 21:20 | minutes (9) | 49:15,18,21,23;50:9,16, | 151:11;152:21 | Nah (1) |
| Messrs (1) | 4:20;78:9;126:7; | 19;51:2;52:3,6,18;55:4, | mostly (3) | 149:12 |
| 157:24 | 135:4,13;143:3,7,8 | 11,24;56:17,24;57:4,9, | 84:19;106:11;111:23 | National (6) |
| metal (1) | 147:23 | 20;58:24;59:10;60:24; | Mountain (4) | 55:1,5,9;69:2;70:2; |
| 138:13 | misassigned (1) | 65:16,17;66:15;67:17; | 55:1,5,9;123:22 | 123:22 |
| methane (1) | 33:17 | 76:1,2;83:12;84:6,9,10; | Mountains (2) | natural (5) |
| 70:7 | mischaracterization (1) | 87:5;88:20;89:2,16; | 55:9;123:24 | 23:18;36:12;69: |
| methodology (4) | 51:13 | 90:1,4,7,9,11,16,24;91:4, | move (8) | 72:5;73:16 |
| 71:10;136:21;137: | miscommunication (1) | 6,13,16;92:2,14;97:4,21; | 25:11;81:22;112:5; | nature (1) |
| $145: 12$ | 64:17 | 98:7;99:14;100:4,17; | 121:4;131:7;145:15; | 5:8 |
| metric (1) | miserable (1) | 101:1,6;102:11,19; | 146:6;149:23 | NCASI (1) |
| 85:12 | 99:17 | 103:10,14,16,19;105:4, | moved (2) | 69:9 |
| metrics (1) | misinterpreted (1) | 7,12,24;106:4;107:3,5; | 48:8;156:11 | near (2) |
| 89:8 | 71:18 | 111:6,9;112:17,19; | movement (2) | 104:17,17 |
| mid (1) | misleading (2) | 119:15;122:15,20,23; | 11:3;148:6 | necessarily (7) |
| 14:19 | 40:22;41:12 | 123:2,17;124:8,13,19, | moves (3) | 38:19;55:11;99:5 |
| middle (1) | mismanagement (1) | 23;125:1,4,6,9;126:4; | 44:6;45:4;149:7 | 129:12,12;130:23;139:4 |
| 148:11 | 148:12 | 127:16,20,23;128:2,5,7, | moving (4) | necessary (4) |
| might (24) | misplaced (1) | 19,22;129:2,6,10,20; | 20:20;60:19;149:19, | 73:7;81:18;95:24; |
| 7:10;8:2,2,12,15,23; | 64:10 | 130:16,18,20,23;131:12, | $20$ | 104:1 |
| 17:22;32:14;35:15;40:9; | miss (1) | 18;132:2,5,9,12,14; | much (56) | need (28) |
| 55:8;56:24;60:22;64:17; | 150:3 | 133:1,4;134:3,7,10,12, | 7:7,9;9:19;13:1,2 | 4:5;8:24;19:16;26:2; |
| 73:17;86:13;104:8,9; | misspoke (1) | 14,16;136:2,5,8,15,19, | 19:13;20:3,13;25:21; | 29:23;35:1;51:24;63:6; |
| 110:1;142:10;148:14, | 115:5 | 24;137:4;143:5,14,20, | 28:9;29:19;34:3;36:17; | 66:9;71:14;80:11;81:2; |
| 20;155:11;156:19 | misstated (1) | 21;145:17;146:10,13,16; | 40:3;44:6,24;45:1;49:7; | 85:6;99:23,24;100:22; |
| migrate (3) | 83:15 | 150:24;152:15;153:19; | 51:11;54:10;55:15,19; | 104:9;111:9;118:22; |
| 111:18;148:17,20 | mistake (1) | 154:5,10,11,19;155:1,4, | 57:13,23;58:2;59:2,3; | 137:13;142:24;143:2, |
| miles (22) | 87:5 | 15 | 62:22;65:1;69:16;73:12; | 11;148:14,15,16;150:16; |
| 20:11,13,18,20;29:7; | mistaken (1) | monitor (1) | 74:22;75:1;91:18,23,24; | 155:19 |
| 31:8,17;71:17,19,20,20; | 54:20 | 9:8 | 92:9,18;93:1,12,13; | needed (5) |
| 72:6,10;74:24;75:2; | misunderstand (1) | month (3) | 94:16,24;99:15;112:19, | 12:14;16:14;25:19,20; |
| 107:24,24;109:5,10; | 145:16 | 105:15,15;118:10 | 20;130:22;133:14 | 80:21 |
| 120:14,18;121:24 | misunderstood (2) | months (2) | 134:19;139:3;142:16; | Needleman (16) |
| mill (11) | 33:10;38:6 | 98:24;100:23 | 143:10;151:6;152:4; | 82:12,13,16;83:7,9; |
| 16:10;26:17;44:11; | mobilize (1) | more (68) | 155:15;159:4 | 105:17;135:9,12,19; |
| 52:9;54:7;62:12,13,14; | 152:3 | 10:18;13:17;15:1; | mudding (1) | 143:12;155:4,6,17; |
| 73:22;115:24;145:23 | model (4) | 16:17;17:23;18:12;33:2; | 88:8 | 156:22;157:3;158:11 |
| million (16) | 19:21;22:7,22;23:7 | 38:8;40:10;48:11;49:1, | mulch (1) | needs (1) |
| 13:12;14:11;26:2; | modeling (1) | 23;51:8;55:7;58:18; | 108:24 | 156:22 |
| 61:1;103:2,2,4;117:2,4; | 39:23 | 59:8;68:12;69:8;70:10; | multiple (2) | negative (2) |
| 147:2;150:5,19,21; | moisture (13) | 71:13;73:24;75:5,20; | 54:13;80:4 | 97:9,10 |
| 151:3;152:8,20 | 34:15,18,21,22;35:3,6, | 76:16;77:2,3;81:24; | multiplication (1) | net (12) |


| 115:11;126:14,16; | 101:24 | obtained (3) | 116:16;140:18;142:2; | 19,21;85:18;89:20,22; |
| :---: | :---: | :---: | :---: | :---: |
| 127:10,18;128:3;129:4, | normally (4) | 31:2;55:8;137:15 | 152:3 | 90:22;95:22;103:8; |
| 19;130:1,6,19;131:11 | 60:4;63:10;99:7;146:2 | obvious (1) | onto (1) | 112:7;116:1;131:1; |
| networks (1) | North (16) | 21:11 | 137:17 | 133:7,8;142:13;145:7, |
| 72:15 | 15:15;27:15;28:22; | obviously (8) | open (4) | 14;146:3,5;147:8; |
| neutral (10) | 46:10;49:3,6;60:16; | 9:22;16:23;33:2;72:7; | 4:10;8:14;94:18;147:7 | 148:12;149:18,18,20,20; |
| 68:1,2,2,18;69:9;70:1, | 95:17;108:14;109:3; | 113:1;137:13;142:13; | open-door (1) | 152:1;155:21;157:1; |
| 10,10,16;83:18 | 110:11;120:6;122:11; | 156:11 | 7:5 | 158:1 |
| neutrality (1) | 137:15;145:19;147:1 | occur (1) | operate (1) | outages (1) |
| 69:19 | Northeast (9) | 89:11 | 86:6 | 35:2 |
| New (70) | 20:7;21:21;22:14; | odd (1) | operated (2) | outcry (1) |
| 7:8;8:4,7;10:6;13:23; | 26:6;63:10;66:4;123:18; | 50:9 | 32:20;51:10 | 26:22 |
| 16:24;20:10,17;22:13, | 125:11,18 | off (6) | operating (3) | outfit (1) |
| 19;28:23;29:6;30:19; | northern (13) | 8:6;51:15;63:16 | 32:13;75:12;102:1 | 10:6 |
| 46:10;59:12;63:19;65:2; | 8:21;57:7;73:14;85:4; | 69:16;103:7;142:17 | operation (4) | output (3) |
| 67:9;74:4;76:17,18; | 89:18,24;92:18;99:22; | offer (1) | 94:10;96:22;97:3 | 9:20;25:22;32:13 |
| 87:20;90:15,22;91:7,17, | 108:24;110:8;111:5; | 34:19 | 117:6 | outreach (1) |
| 18;92:3,5,7,13,17;109:9, | 125:12,12 | offered (2) | Operations (5) | 26:13 |
| 14;110:17,23;111:5,12; | NORTHROP (5) | 35:9;39:6 | 44:4,23;96:8;102:1; | outright (1) |
| 112:4;113:8,17,20; | 134:24;140:2,3,4; | office (2) | 152:19 | 25:8 |
| 114:7,8,8,10,14;115:21; | 142:4 | 91:2;96:3 | operators (1) | outset (1) |
| 116:4,7,8,10,12,24; | note (2) | offset (1) | 64:24 | 30:7 |
| 117:1,17,19;118:2,21; | 4:4;28:21 | 121:1 | opinion (5) | outside (2) |
| 119:18;120:11;125:12, | noted (3) | often (1) | 52:15;100:17;123:12, | 52:7;106:5 |
| 12;128:11;131:23; | 15:14,17;64:8 | 76:24 | 13;125:24 | over (22) |
| 132:18;134:8,12;150:6; | notice (1) | oil-fired (1) | opportunity (16) | 8:12;10:13;13:11; |
| 151:18 | 20:10 | 70:13 | 9:12,24;15:5;24:24; | 26:1;31:6;35:22;49:5; |
| newer (2) | notion (5) | old (4) | 27:22;28:1,11;39:14; | 74:22;89:8,21;92:8,15; |
| 138:2,7 | 38:16,18;74:7;75:8,24 | 19:21;64:22,24 | 70:24;76:20;94:24;95:3; | 100:10;137:16,18;138:7, |
| Newpage (1) | not-too-distant (1) | 149:15 | 135:14,16;137:10; | 11;140:9,11;142:19; |
| 117:2 | 101:12 | Once (5) | 151:21 | 148:17;149:16 |
| newspaper (1) | Notwithstanding (1) | 25:23;111:23;120:17; | opposed (2) | overall (7) |
| 15:21 | 42:20 | 149:4;157:13 | 18:4;63:19 | 89:4,6;91:7;99:21; |
| next (29) | Novus (3) | one (61) | opposition (1) | 113:13;115:18,20 |
| 18:15;27:1,11;30:18; | 13:15,16,17 | 7:21;9:10,18;16:6,8; | 26:12 | overcome (1) |
| 36:3;39:6;46:2,8;56:22; | nowadays (1) | 17:1,3;18:10;23:5; | option (1) | 25:9 |
| 63:12;80:18;100:16; | 56:6 | 25:18;27:16;30:24,24; | 94:18 | overcutting (1) |
| 104:2,7;113:23;114:5,6, | number (37) | 31:1;34:11;35:18;38:19; | order (5) | 75:24 |
| 13;115:11,14;118:4; | 9:17;14:21;15:6,9,20; | 39:1,16;54:22,24;56:10; | 30:14;81:3;90:18; | over-harvested (1) |
| 125:14,16;135:4;138:3; | 17:7;21:17;28:17;32:7, | 61:1;64:21;66:18;71:14, | 100:2;157:1 | 89:9 |
| 145:23;155:21;157:4,6 | 10,12;33:6;35:23;38:22; | 14;76:21;79:23;80:6,7; | organization (2) | overharvesting (2) |
| NHTOA (1) | 41:9;42:5,6,10;45:21; | 82:6,23;83:2;87:13,24; | 87:24;88:12 | 73:9,15 |
| 45:15 | 46:11;49:13,14;55:14; | 92:24;96:6;97:5;101:19; | original (1) | over-harvesting (1) |
| niche (1) | 68:12;71:2;80:24;90:18; | 107:14,110:3,4,22; | 53:11 | 89:11 |
| 23:12 | 92:12;96:17;119:20; | 115:14;122:13;131:21; | originally (2) | overlap (2) |
| Nobody (4) | 122:18;123:5,6;124:11; | 133:20;135:10;138:4,9, | 62:3;95:12 | 47:4;52:8 |
| 20:11;96:19,23; | 128:15,15;129:8 | 10;140:16;144:9; | others (7) | Overlapping (5) |
| 120:11 | numbers (13) | 145:11;147:10;148:11; | 23:5;65:15;69:9; | 46:15;49:1,5,9;50:2 |
| non (1) | 29:3;41:11,18;42:17; | 152:6;154:6,9;155:6 | 86:18;105:6;114:21; | over-supplied (1) |
| 117:2 | 43:22,24;44:11,17; | ones (4) | 143:16 | 75:19 |
| None (4) | 48:12;59:16;92:8;126:2; | 26:19;115:10,16; | ours (3) | over-the-road (4) |
| 51:12,15,22;97:7 | 127:21 | 149:3 | 63:13;70:15;115:10 | 20:19,24;21:10; |
| non-electrical (3) | numerous (3) | one-size-fits-all (1) | out (78) | 122:12 |
| 116:3,6,22 | 52:22;104:12;108:14 | 23:9 | 6:4;8:15;9:4,8;10:9; | overwhelming (1) |
| non-forestry (1) | NYSERDA (4) | one-way (1) | 14:1;17:8,8;19:18;20:3; | 26:12 |
| 92:11 | 13:21,22;14:7,9 | 25:12 | 25:13;26:4,16;31:18,19; | own (8) |
| non-redacted (1) |  | only (16) | 32:9;33:13;34:16;35:6, | 25:13;49:15;69:13; |
| 80:8 | 0 | 7:10;15:2;25:18;35:4; | 10;44:24;45:2,7;46:3, | 85:23;86:12;96:8,14; |
| $\begin{gathered} \text { non-specific (1) } \\ 49: 4 \end{gathered}$ | ligation (2) | $\begin{aligned} & \text { 37:15;38:24;58:6;67:15; } \\ & 70: 5 ; 74: 23 ; 88: 13 \end{aligned}$ | $\begin{aligned} & \text { 24;47:8,10;50:3,21; } \\ & \text { 54:19,22;55:15,19;59:5; } \end{aligned}$ | $\begin{array}{\|c} 104: 14 \\ \text { owned (3) } \end{array}$ |
| normal (2) | 139:22,22 | 119:20;124:6;125:2; | 69:17,18;71:17;72:10, | 21:20;55:20;137:14 |
| 66:11;123:19 | obtain (2) | 139:9;151:21 | 11,12,20;73:3;74:12,13; | owner (3) |
| normalize (1) | 68:3;77:12 | on-site (4) | 75:2,5,18,21;76:24;77:2, | 56:20,20;88:1 |


| ners (5) | 86:16;141:22;144:12, |  | 08: | pleased (1) |
| :---: | :---: | :---: | :---: | :---: |
| 7;56:6,8,20;85:24 | 145:21;146:1;147:17 | 4;35:3,6,11,15, | picture ( | 12:3 |
|  | partial (2) | 36:21;37:3,11; | 76:14 | plenty (4) |
|  |  |  | pi | 54.1.102 |
|  |  |  |  | 147:9 |
| 1;124:24 | 30:5,23;31:3;41:23; | , |  | plot (1) |
| ning (1) |  | ;123:9,13,19,21; | pieces (6) | 131:1 |
| 20:21 | 112:12 | 124:5,6,10,20;127:22; | 11:3;23:12;25:7 | plus (2) |
| wns (4) | ricularly (2) | :1;129:1,18;142:16, | 26:23;27:4;99: | 95:18;117 |
| 20:22;76: | 10:22;125:1 | 145:6,6;146:4,9,10; | pile (3) | pm (4) |
| Oxford (1) | ties (6) | 49:12;151:7,8 | 119:22;121:7;122 | 4:2;78:14,15;1 |
| 50:13 | 79:7:80:1 | rcentage (3) | es (1) | ocket |
| P |  |  | $\begin{array}{r} 12 \\ \text { pilin } \end{array}$ | 25:13 |
|  |  | :13 | 19:24; | 12:24;14:1 |
| Page (65) | p | perception | Pinetree | 34:16;35:11 |
| 15:8;18: | 6:1; | 6:20;17:2 | 14:2 | 42:1,20;51:9;6 |
| 21:19;24:4;27:12;28 | past (7) | perfect (2) | Pinetree-Tamworth (1) | 0:22;71:12,12;85 |
| 24;30:19;31:20,23; | 22:6,7;104:13;111:22; | 31:16;146:2 | 115:5 | :22;103:22;104:11, |
| 32:17,22;34:2,3,8,17; | 112:2;131:21;133:12 | performed (2) | Pittsburg/Colebrook (1) | 16;105:7;124:9;125:13; |
| 36:3,3;37:21;38:2,15; | patch (1) | 22:2;38:11 | 108:15 | 35:7;142:23;143:20; |
| 39:13;41:6;42:2,10,11; | 66:3 | performs (1) | place (6) | 14;156:14;158 |
| 45:12;46:12,13,14; | paveme | 32:6 | 6:2,4; | pointed (4) |
| 23;48:2,3,4,19;50:20, | 8:5 | perhaps (4) | 125:18;127:17 | 31:18,19;5 |
| 0;52:20;54:17;55:15; | pay (16) | 40:22;57:1 | places | points (6) |
| 56:13;61:10,14,18;64:3, | 16:22;18:12;20:14 | 149:23 | $10: 5$ | $46: 3 ; 50: 21 ; 54: 1$ |
| 9;67:7;68:5;73:1,2; 106:17;107:8,21;127:1, | 71:13;106:23;111:9; 120:9.10,10:121:11.15, | period (4) <br> $18 \cdot 18 \cdot 85 \cdot 10 \cdot 90 \cdot 3,10$ | plan (4) <br> 109:18:135:12:157.9; | 55:15;73:2;132 policy (7) |
| $\begin{aligned} & \text { 106:17;107:8,21;127:1, } \\ & 3: 136 \cdot 111214212, \end{aligned}$ | 120:9,10,10;121:11,15, | 18:18;85:10;90:3,10 periodic (1) | 109:18;135:12;157:9; 158:24 | policy (7) $7: 6 ; 75: 3 ; 85: 17$ |
| 144:20;146:19 | paying (6) | 84:14 | planning | 139:10;14 |
| ages (2) | 21.912 | permissi | 82:2;156 | poll (2) |
| 4:22;70:2 | 1:8;15 | 6:22 | plans (1) | 9:1;77:24 |
| ging (1) | payroll (1) | Permit | 86:6 | polled (1) |
| 7:1 |  | 3:11,15;35 | plant (6) | 9:6 |
| paid (7) |  | mitting | 6:15;8:4;16:13;19:14, | polling |
| 4.35 | 27:2 | 158:9 | 14,15,19,20;21:17,20; | 77:21 |
| 2:19;69 | Pellet (5) | Persche | 2:24 | pollution |
| pained (1) | 99:14;116:7,10,12 | 4:11;67 | :17,19;25:24;32:8,10, | 68:15 |
| 143:15 | 7:5 | person (5) | 2;34:23,23;36:22;37:4, | pony (1) |
| pair (1) | Pellets (2) | 5:4;45:1;67: | 6;38:4;39:1,1;41:23; | 122:2 |
| 11:24 | 51:1;116:7 | 8:13;141 | 9:24;62:4;67:22;68:8, | portion (3) |
| panel (11) | Pennsylvani | personal (1) | 18,19;70:9,10;71:6; | 24:22;53:13,1 |
| 10;14: | 66:18 | 56:6 | ,2:4,22;73:7,18,20;74:8, | portions (1) |
| 13;82:5 | Pennsylva | personally ( | 6,20,20;75:8,10,11, | 79:14 |
| 157:4,6,10; |  | 9 | 4,15,18;93:6;104:10; | port-of-call (1) |
| panelists ( | people ( | personnel | 06:23;107:11;112:6; | 62:16 |
| 143:3;155:2 | 11:8,9,17 | 139:1 | 46 | portray |
| paper (21) | 21:9,14,26:17,17,21; | perspective (4) | 51:7,1 | 27:3 |
| 54:6;55:16; | 36:18;41:21:43:4,17; | 62:11;65:22;102:22 | plants (30) | portrayed (2) |
| 61:11;62:1,12,12;63:2 $641 / 73: 20.96 \cdot 21.972$ | 67:14;74:5;76:4,6; | 148:4 | 19:4,5;20 | 16:4;27:10 |
| 64:1;73:22;96:21;97:3; $99 \cdot 47 \cdot 109 \cdot 1 \cdot 113 \cdot 14$ | :22;94:10;97:17 | Peter (1) | 2:16;23:2,3,9;29:16; | portrays (1) |
| $\begin{aligned} & 99: 4,7 ; 109: 1 ; 113: 14 \\ & 147: 6 ; 150: 18 ; 153: 13 \end{aligned}$ | 19:13 | $32: 18$ phase (3) | ;51:16;63:6, | 25:16 |
| er-quality (1) | 144.4, | 25:3,5; | $: 8 ; 74: 3 ; 75: 20$ | $\begin{aligned} & \text { osed (1) } \\ & \text { 106:1) } \end{aligned}$ |
| 54:14 | 9;151:17 | phases | 6:20;86:15;110:2 | posit (1) |
|  |  |  | 20;151:13;154 | 129:14 |
| 56:4 | 9:10,11;32:21;34: | phenomeno | Tay | 51:15,15 |
| $\underset{18: 7 \cdot 20 \cdot 11 \cdot 24: 13: 48: 1}{\text { paragraph ( }}$ | 35:7;36:7;38:5,14;39:5; $45: 14 \cdot 58: 14: 597771 \cdot 3 ;$ | ( $\begin{array}{r}92: 16,19 \\ \text { phrase (1) }\end{array}$ | $58: 9 ; 99: 13 ; 121: 3$ | $51: 15,15$ |
| 18:7;20:11;24:13;48:1 | $\begin{aligned} & \text { 45:14;58:14;59:7;71:3; } \\ & 72: 4 ; 93: 10 ; 102: 18 \end{aligned}$ | $\begin{gathered} \text { phrase (1) } \\ 6: 22 \end{gathered}$ | please (14) | $\begin{gathered} \text { positions (1) } \\ 24: 21 \end{gathered}$ |
| 11:6 | ;117:3;125:3 | physical (2) | ; | positive |
| art (11) | ;152:9 | 3:2;23:17 | 91:1;107:10;130:10 | 41:24 |
| 12:18;15:7;47:11,14; | percent (52) | pick (2) | 132:12;136:8,20 | possibility (1) |


| 111:17 | 54:10 | 27:4;44:22;49:11; | 16;141:8 | 153:24 |
| :---: | :---: | :---: | :---: | :---: |
| possible (7) | presented (3) | 65:24;81:22;82:1;97:15; | proposals (1) | purchase (3) |
| 65:1;103:22;110:13; | 36:24;41:13;71:24 | 108:10;109:11;111:11; | 52:23 | 22:16;121:2;141:2 |
| 119:13;143:22;156:4; | presently (1) | 123:6 | propose (2) | purchased (1) |
| 58:17 | 59:21 | processed ( | 38:20;85:13 | 31:4 |
| possibly (2) | pressure (3) | 153:9 | proposed (7) | purchasers (1) |
| 46:7;157:20 | 73:8;75:1;148:18 | procure (4) | 23:5;49:24;75:10,15; | 94:5 |
| post (1) | pretty (15) | 14:8;19:18;31:17 | 88:22;110:15;114:15 | purchasing (4) |
| 81:11 | 11:2;13:1,2;14:11; | 106:22 | proposition (1) | 34:15;111:11;142:8; |
| posters (2) | 34:3;44:10;61:5,5;68:7; | procurement (12) | 57:3 | 149:8 |
| 75:16,18 | 119:18;122:24;123:1; | 6:10;7:17,16:8;27:13; | prospect (1) | PURPA (2) |
| potential (5) | 133:24;145:19;152:4 | 29:10,22;30:8;120:7; | 143:15 | 19:4;22:16 |
| 9:18,21;103:16; | previous (2) | 139:11,12,14;144:22 | protect (1) | purpose (2) |
| 112:15;137:9 | 29:9;63:14 | produce (3) | 111:16 | 91:15;97:18 |
| pour (1) | previously (1) | 55:21;62:18;77:3 | protocol (7) | purposes (4) |
| 47:7 | 150:19 | produced (2) | 5:1,1;39:23;43:15 | 81:15;84:18;87:3; |
| Power (27) | price (17) | 98:15,16 | 112:9,12;113:3 | 92:12 |
| 4:17;13:21;14:10; | 16:13,14,18,21;18:13; | producing (2) | prove (1) | pursuant (1) |
| 15:8;22:16;23:10,11; | 19:7;24:17;58:8;61:12; | 12:20;98:12 | 70:21 | 79:7 |
| 26:4,4,6;29:16;31:12; | 71:3;99:3;106:20,23; | product (15) | provide (8) | push (10) |
| 36:16;68:19;69:4;70:13, | 121:2,10;141:3;153:14 | 20:21;62:24;63:20; | 42:5;43:16;62:21; | 21:8,11;99:10;121:3; |
| 15;72:4;79:6;96:13; | priced (1) | 74:11;76:12;111:12; | 66:22;70:22;81:9;86:21; | 140:6;141:1,21,22; |
| 109:15;114:15;115:2,3, | 62:15 | 140:17;141:2;145:9; | 135:15 | 142:3,10 |
| 3;116:18;153:23 | prices (6) | 149:9;150:21;152:2,4; | provided (4) | put (22) |
| powered (1) | 19:11;20:16;72:23 | 153:2,11 | 32:17;34:4;36:5,12 | 7:9;9:2;23:12;26:23; |
| 113:17 | 99:2;148:19,20 | production (5) | providers (1) | 33:11;40:16;53:21,23; |
| PPA (2) | pricing (2) | 55:2,5;56:3;124:2; | 6:1 | 54:7;62:11;73:7;75:1; |
| 67:12,16 | 61:23;67:11 | 133:9 | provides (1) | 94:3;95:5;99:8,15; |
| practical (3) | primarily (2) | productivity (1) | 64:11 | 102:22;118:14;121:23; |
| 74:13;87:14;104:8 | 39:11;67:8 | 88:9 | providing (3) | 148:4,18;149:1 |
| practically (1) | primary (2) | Products (6) | 33:3;79:2;119:13 | putting (2) |
| 95:13 | 102:11,12 | 43:2,19;60:19;69:14; | provisions (4) | 93:23;99:10 |
| practice (1) | principal (1) | 77:4;103:23 | 5:3,6,7;95:4 | puzzle (1) |
| 90:13 | 91:10 | professional (1) | prudent (1) | 25:18 |
| practices (18) | printed (2) | 76:5 | 25:10 |  |
| 8:1;12:20;22:6;43:6; | 37:9,21 | profit (1) | Pruyn (1) | Q |
| 66:12;77:23;86:5,11,20; | prior (2) | 9:24 | 29:6 |  |
| 87:18,19,20;88:7;97:1; | 15:15;68:20 | Program (10) | public (8) | quarantined (1) |
| 112:17;118:12;119:10; | private (6) | 5:24;6:2,9,9;12:19 | 26:10,12,22;53:19,20; | 113:1 |
| 139:12 | 56:8;112:22;113:2; | 35:19;53:20;89:17; | 67:8;79:4;81:24 | quarantines (2) |
| preamble (1) | 124:1,6;125:11 | 98:21;99:12 | publicly (1) | $111: 21 ; 112: 10$ |
| 57:10 | probably (19) | programs (5) | 70:4 | Quebec (1) |
| precise (3) | 22:21;32:16;39:9; | 86:8,19;119:2,3,6 | publish (1) | 52:18 |
| 49:1;54:15;127:24 | 40:15;45:23;67:19;73:3; | project (35) | 90:15 | questionnaires (1) |
| preclude (1) | 82:24;86:23;87:10; | 13:19,20;14:3,9,10; | published (3) | 77:22 |
| 139:4 | 94:19;105:21;118:10, | 22:13,20;25:2,7,10,15; | 64:20;65:12;96:24 | quick (5) |
| predicated (1) | 24;121:21;145:11; | 26:24;27:5,8;30:23; | pulp (33) | 47:6;82:7;106:13; |
| 22:24 | 146:18;154:2;156:15 | 31:11,15,16;33:5;54:4; | 29:19;51:1;52:9 | 134:24;140:5 |
| predicted (2) | problem (2) | 85:11;87:3;91:9;92:24; | 62:12,13,13,14,15,18,22; | quicker (1) |
| 63:8,11 | 145:18;158:15 | 94:15;95:8,20;100:21; | 63:1,18,20,24;73:22; | 69:16 |
| prefer (1) | problems (1) | 101:18;102:24;103:6; | 94:8;95:21;99:6;117:3; | quickly (1) |
| 158:13 | 61:13 | 114:15;118:19;137:11; | 145:23;147:11;149:17; | 11:7 |
| prefiled (4) | procedure (1) | 141:7 | 150:17;151:11,22; | quit (1) |
| 4:18;42:11;54:18;78:5 | 129:16 | projects (2) | 152:10,13,18,22;153:4, | 134:18 |
| preparation (2) | proceed (4) | 13:21;26:11 | 7,7,14 | Quite (8) |
| 48:16;83:2 | 4:5;130:10;136:8 | promised (1) | pulping (1) | 24:13;52:12;56:2; |
| prepare (1) | 157:9 | 142:21 | 152:19 | 93:22;117:4;132:18; |
| 141:17 | proceeding (6) | prone (1) | pulpwood (19) | 145:17;147:19 |
| prepared (2) | 28:2;81:1,6,16;83:24; | 8:10 | 58:7;59:18,24;60:4 | quota (3) |
| 28:18;92:15 | 105:6 | properties (3) | 93:15;99:9;100:1; | 7:9;8:9;110:1 |
| preparing (2) | proceedings (1) | 61:2;123:15;125:3 | 102:21;103:2;129:22; | quotas (3) |
| 11:23;43:6 | 81:9 | property (5) | 130:14,22;131:4,4,7; | 7:2,3,12 |
| pre-screened (1) | process (11) | 89:1;123:12;137:12, | 133:21;145:22;151:22; | quote (5) |

\{SEC 2009-02\}[DAY 2 - PM SESSION] - August 24, 2010 LAIDLAW BERLIN BIOPOWER, LLC

| 6:19; | $\begin{aligned} & \text { real (2) } \\ & \text { 55:6;111:4 } \\ & \text { realistic (1) } \\ & 80: 24 \\ & \text { reality (1) } \\ & 72: 11 \\ & \text { realize (3) } \end{aligned}$ | ```record (3) 36:11;79:21;82:12 recordkeeping (1) 134:15 records (1) 9:23 redacted (5)``` | $\begin{aligned} & 62: 18 ; 86: 1,12,19 ; \\ & 113: 2 ; 118: 2 \\ & \text { regulatory (1) } \\ & 62: 20 \\ & \text { re-inventing (1) } \\ & 86: 11 \\ & \text { relate }(1) \end{aligned}$ | $\begin{gathered} 70: 12 \\ \text { replaced (1) } \\ 60: 10 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| $48: 19 ; 64: 21$ |  |  |  |  |
| quotes (2) |  |  |  |  |
| 46:14,15 |  |  |  |  |
|  |  |  |  | 15:21;27:14;28:21; |
| R |  |  |  | 33:5;39:10;41:4;43:8; |
|  |  |  |  | 46:15,19,21,23;47:2,8, |
| radius (14) | 40:14;48:7;82:22 | 79:4,14,15;80:7,13 | 62:4 | 11,13,19,24;49:20; |
| 21:15;27:13;29:4,7, | realized (2) | redirect (1) | related (8) | 51:21;54:21;55:4;69:2, |
| 10,20;30:5,8,14;51:16, | 11:8;69:15 | 82:17 | 61:13,23;62:2;80:16; | 10,12,18;71:1;74:2; |
| 18;67:24;68:4;87:7 | really (19) | reduced (1) | 96:6;106:21;110:14; | 76:22;82:18,19,22; |
| Rail (6) | 26:19;27:3;58:18; | 141:3 | 155:14 | 91:19,23;92:23;122:16, |
| 94:19, 19,22;137:9,15; | 59:1;61:5;70:8;71:9,23; | reduction (1) | relates (2) | 17 |
| 138:4 | 73:11;74:19;77:5;93:18; | 24:8 | 97:14;107:22 | reported (2) |
| railbed (1) | 106:22;118:22;123:6; | re-entered (1) | relationships (1) | 132:19;134:15 |
| 137:13 | 134:24;144:10;148:15; | 87:11 | 60:20 | reporter (5) |
| railroad (2) | 151:5 | re-establishes (1) | relative (4) | 79:24;96:11;124:16; |
| 138:10,11 | real-world (1) | 149:4 | 20:1;39:2;102:23; | 130:3;144:15 |
| rain (1) | 40:1 | refer (2) | 113:7 | reports (6) |
| 100:11 | reason (11) | 25:5;49:12 | release (1) | 43:6;59:11,19;84:23; |
| raised (1) | 24:5;34:13;36:14; | reference (6) | 143:17 | 90:2;133:21 |
| 10:2 | 45:16;51:3;62:11;64:2; | 27:14;52:21;59:20; | reliability (1) | report's (1) |
| raises (1) | 93:21;94:3;101:14; | 93:2;103:16;118:1 | 68:13 | 64:12 |
| 16:24 | 148:12 | referenced (2) | reliance (1) | represent (1) |
| ran (1) | reasonable (8) | 30:4;53:10 | 64:9 | 131:10 |
| 61:12 | 26:3;32:11;65:19,21; | references (2) | relied (3) | representative (1) |
| range (7) | 66:10;80:10;124:13; | 21:17;53:8 | 64:14;83:2;107:1 | 39:2 |
| 45:14;51:23;114:20; | 154:2 | referencing (1) | relies (4) | request (1) |
| 115:14;117:4;123:19; | reasons (5) | 62:1 | 46:9;55:4;96:9,13 | 81:10 |
| 133:13 | 17:3;21:15;23:17 | referred (2) | rely (3) | requesting (1) |
| rarely (1) | 89:12;121:14 | 14:6;126:9 | 55:2;95:16,2 | 43:16 |
| 66:2 | rebuilt (1) | referring (7) | remaining (1) | require (7) |
| rate (3) | 137:14 | 49:13;108:8,11,13; | 135:3 | 38:13;77:16;87:15,17; |
| 37:1;84:20;92:3 | rebut (1) | 126:12;149:11;150:4 | remember (3) | 88:11,12;98:6 |
| ratepayers (1) | 28:8 | refers (2) | 125:5;139:17;153 | required (4) |
| 67:9 | REC (1) | 109:5,10 | reminds (2) | 27:5;77:15;81:23; |
| rates (4) | 26:6 | refined (1) | 52:4;61:11 | 120:23 |
| 33:14;36:15;67:8;97:1 | recall (3) | 103:15 | remnants (1) | requirement (1) |
| rather (6) | 33:12;36:13;75:9 | refinement (1) | 99:11 | 32:6 |
| 19:10;40:23;50:3; | received (6) | 40:12 | removal (14) | requirements (3) |
| 64:19;75:2;86:11 | 6:12,13;39:4;55:18; | refuse (1) | 59:13;89:24;102:17; | 77:8,14,18 |
| Ray (2) | 105:10,11 | 154:18 | 103:4;126:10,14,16; | research (3) |
| 51:9;152:17 | receives (1) | regard (1) | 127:13,19;128:4,21; | 22:19;50:7,8 |
| reach (5) | 107:23 | 139:10 | 129:19;130:17;131:11 | researched (1) |
| 42:15;51:7;71:5 | recent (5) | regarding (4) | removals (21) | 26:4 |
| 74:20;142:23 | 23:3;69:12;90:5,8; | 34:4;67:16;78:20; | 59:12,14,15;89:18; | reserve (1) |
| reaching (1) | 146:22 | 96:24 | 103:1;126:8,9,15,18; | 67:21 |
| 45:6 | recently (4) | regardless (1) | 128:14,17,17;129:6,7, | reserved (1) |
| read (12) | 16:8;70:2;75:13;106:1 | 57:22 | 14;132:3,5,17;134:4,8, | 80:20 |
| 10:16;16:6;72:18; | recess (1) | region (6) | 11 | residents (1) |
| 105:22,24;106:13; | 78:13 | 15:18;22:1;31:4;68:8; | removed (4) | 63:19 |
| 117:20;118:7,11,21; | recession (2) | 89:5;113:7 | 57:7;91:18;133:22,23 | residues (1) |
| 124:18;125:1 | 99:18;101:11 | regional (3) | removing (2) | 36:21 |
| readily (2) | recognize (3) | 61:24;62:6;148:21 | 65:5;130:22 | resolved (1) |
| 10:7;95:16 | 59:16;88:17;135:4 | registered (1) | Renewable (2) | 82:11 |
| reading (7) | recommendation (2) | 86:6 | 69:2;70:2 | resource (5) |
| 19:2;83:4;106:24; | 65:11,19 | regular (1) | repeat (3) | 23:15,17,18,18;52:24 |
| 129:22;130:21;147:1; | recommendations (1) | 90:17 | 53:6;129:16;136:20 | Resources (5) |
| 151:1 | 64:19 | regulate (1) | repeated (2) | 36:12;72:5;134: |
| reads (2) | recommends (1) | 112:23 | 92:6;127:18 | $137: 22 ; 138: 16$ |
| 107:23;139:12 | 65:2 | regulation (1) | Repeating (1) | respect (5) |
| ready (1) | reconvene (3) | $112: 21$ | $129: 24$ | 36:15;37:21;62:8; |
| 117:23 | 155:12;158:24;159:7 | regulations (6) | replace (1) | 93:20;142:8 |


| respond (8) | 20;121:1,9,17,19;122:4, | 62:17;80:13,15,20 | 142:23 | 26:15;147:6,20; |
| :---: | :---: | :---: | :---: | :---: |
| 15:5;24:15,24;27:23; | 8,10,14;135:22,23; | rotation (1) | save (1) | 153:16,16 |
| 28:8;32:24;55:23;135:5 | 136:1;140:6,10,12,15; | 84:15 | 135:6 | seems (2) |
| response (6) | 141:13,16,19,21,23; | ROTH (6) | saw (2) | 36:8;151:1 |
| 46:4;107:9;113:9; | 142:1,12;144:6;145:1, | 79:18,22;80:2,3; | 9:11;143:15 | self-imposed (1) |
| 155:2;158:19;159:2 | 10;149:11;154:8;155:13 | 129:24;130:5 | sawlog (2) | 86:14 |
| responses (1) | Richmond's (1) | rough (1) | 98:9;145:21 | sell (5) |
| 155:18 | 41:19 | 45:9 | sawlogs (3) | 13:6;26:3;74:15; |
| responsible (2) | rid (12) | roughly (8) | 99:9;100:1;147:12 | 151:21,22 |
| 53:18;104:10 | 7:11;8:9,13,16,18; | 35:7;63:12;103:1,2,4; | sawmill (1) | selling (3) |
| rest (1) | 21:9,12;60:5,22;75:21; | 114:17;115:1,13 | 60:1 | 63:21;121:24;122:1 |
| 145:24 | 140:8;142:2 | round (1) | sawmills (2) | send (4) |
| restrict (5) | right (64) | 27:2 | 13:24;60:10 | 9:4;17:16;77:21; |
| 7:8;56:15;57:6,14,14 | 6:3,21;8:11,16;10:11; | roundwood (14) | sawtimber (9) | 145:23 |
| restrictions (1) | 14:20;19:16;22:10; | 59:14;94:1,3,8,16,20, | 59:17,24;101:9;102:2, | sending (1) |
| 85:23 | 28:20;29:3,4,15;30:7; | 23;95:16;96:14;102:20, | 21;131:3,3,7;153:20 | 138:6 |
| result (2) | 31:20;33:22;42:24;43:5; | 24;127:8;129:4;153:7 | saying (15) | sense (16) |
| 75:24;133:15 | 51:14;56:4;59:21;60:14, | rule (9) | 18:1;24:16,22;29:18; | 19:19;31:16;74:13,14, |
| resulted (1) | 14;61:4;64:16;67:15; | 36:5,8,15;37:7,10,13, | 36:20;44:15;65:4;69:22; | 18;82:2;88:14;89:3; |
| 46:23 | 69:7;79:16;91:1;94:22; | 21,23;38:21 | 74:23;75:2;98:17; | 92:12;116:5;118:19; |
| resume (2) | 99:16,17;101:1;102:18, | rules (1) | 102:23;150:17;151:2; | 142:24;143:7;146:22; |
| 78:9,12 | 19;107:20;114:24; | 86:12 | 153:17 | 148:1;150:12 |
| resumed (2) | 116:6,15,17,23;123:1; | Rumford (1) | scale (3) | sensitive (1) |
| 4:2;78:14 | 125:2;126:1,11,13; | 117:2 | 23:7;113:6;152:3 | 123:11 |
| Retention (1) | 127:17,17,21;128:18; | run (6) | schedule (1) | sentence (3) |
| 82:10 | 129:15;132:3,5;136:24; | 6:4,8;32:8,10;34:24; | 81:20 | 24:13,15;61:20 |
| return (3) | 137:17,18;139:19,24; | 120:9 | scheduled (1) | September (6) |
| 76:9;82:4;153:4 | 143:9;144:12;145:18; | running (2) | 35:1 | 81:10,13,14,15,17,21 |
| returned (1) | 146:13;147:22;155:3; | 6:3;9:10 | scheduling (3) | series (1) |
| 92:9 | 156:13 | rutting (1) | 78:11,20;80:19 | 89:12 |
| reuse (1) | rightfully (1) | 88:8 | scheme (1) | serve (3) |
| 22:22 | 73:4 | Ryegate | 53:23 | 148:10;150:7,9 |
| review (8) | right-of-way (1) | $115: 3$ | Schiller (10) | served (1) |
| 39:14;70:23,24; | 141:9 | Ryegate's (1) | 6:23;22:2;40:4,5,7; | 39:24 |
| 103:13,14;105:4;106:9, | riparian (1) | 115:4 | 45:13,18;114:1,11; | serves (1) |
| 12 | 123:3 |  | 115:12 | 115:2 |
| reviewed (2) | rise (2) | S | Schnipper (7) | Service (9) |
| 106:1,11 | 128:9;148:19 |  | 156:1,4,8, $11,14,18 ;$ | 6:5;67:9;89:16;90:6, |
| reviewers (1) | risk (2) | sales (1) | 157:16 | $13 ; 108: 20 ; 140: 15$ |
| 106:5 | 25:4;111:20 | 13:12 | school (2) | 149:8,9 |
| reviewing (1) | River (2) | same (27) | 53:20,21 | Services (1) |
| 39:11 | 13:4;137:18 | 10:4;21:7;41:2;50:20; | schools (6) | 107:23 |
| revision (1) | rivers (1) | 52:24;54:4;62:15;63:1, | 53:19;54:2,2,7,12,13 | session (6) |
| 118:9 | 118:5 | 20,24;69:11,17;85:3; | science (1) | 34:5;67:21;79:19; |
| Richmond (124) | road (2) | 109:13,18,22,23;110:5; | 30:6 | 80:12;157:23;158:2 |
| 4:22;5:8,11,20,23; | 26:13;77:20 | 127:7;129:17;132:5,13; | screened (1) | sessions (2) |
| 6:13,17,20,21;7:5,13,21; | roadways (1) | 137:21;143:16;149:22; | 54:5 | 79:23;80:5 |
| 8:8,24;9:7,17;10:5;19:1, | 118:5 | 152:4,18 | screening (1) | set (19) |
| 17;20:6,8;22:4;35:16, | rock (1) | sample (1) | 54:8 | 75:16;86:12,16,17; |
| 18;38:1;40:2;41:21; | 66:7 | 89:20 | scroll (1) | 90:5,8,10,22;93:24;94:7; |
| 43:18,22;44:3,13,15; | Rodier (15) | samples (1) | 29:5 | 99:19;100:6;113:3; |
| 45:4,17,23;54:11,13; | 4:4;27:17,19,20;28:3, | 131:1 | season (1) | 121:10;125:15,16; |
| 56:23;57:24;58:4,23; | 6,14;47:18,20;82:5,6,9, | sampling (2) | 100:15 | 140:22;155:21,21 |
| 60:1,17;67:17;71:11; | 21;83:1;157:21 | 89:19;131:1 | second (6) | sets (2) |
| 72:12,24;77:7,16;78:3; | Rodier's (1) | sand (1) | 16:16;39:22;86:24 | 7:12;91:14 |
| 94:6;95:1,14,15;96:9,13; | 39:19 | 65:23 | 93:20;103:16;141:5 | setting (2) |
| 97:9,20,24;98:2,20; | role (2) | sat (1) | section (6) | 81:14;95:12 |
| 100:5,10,18;104:12; | 53:18;121:4 | 44:23 | 32:3,4;36:11;39:6; | several (2) |
| 106:9,11;107:3,6;108:4, | roles (1) | satisfy (1) | 47:23;54:18 | 84:12;103:11 |
| 6,8,12;109:8,12,16,18, | 10:18 | 8:7 | seeing (5) | shaking (3) |
| 22;110:8,18;111:1,3,7, | roll (1) | saturated (1) | 7:2,4;110:14,16; | 97:9,10;144:13 |
| 11,15,21;112:16,19,20; | 85:9 | 99:11 | 145:18 | shall (1) |
| 119:8,17,22;120:2,6,16, | room (4) | saturation (1) | seem (5) | 139:13 |

shape (2)
40:11;57:15
shaped (1) 72:13
share (1)
78:19
shed (1)
73:8
sheds (2) 40:12;72:13
sheet (1) 43:11
sheets (1) 9:15
Shi (2) 52:3,5
shift (1)
64:3
shifted (1) 14:14
short (9) 9:10;46:3;49:23; 83:12;95:11;97:1; 101:22;109:8;118:1
shortest (2) 20:23;151:23
show (1) 47:6
showed (1) 75:16
shows (3) 129:3,12,13
shut (1) 147:7
shutdown (5) 15:19,24;18:3,5;62:1
side (2) 66:20;95:21
side-by-side (2) 138:8;148:9
significant (6) 14:11;31:6;39:12; 42:12;53:17;129:1
significantly (1) 117:4
silent (1) 26:18
similar (1) 39:4
simple (5) 19:13;27:9,9;40:13; 72:16
simply (11)
7:7;9:1;22:14,23;27:1; 36:20;46:4;63:23;72:9; 74:11;97:17
Sin (4) 51:5,20,21;132:15
single (2) 9:20;115:21
sit (1) 40:2
site (7)

8:8;25:17;96:8;
137:10;141:11,13;158:9
sites (3)
8:7;15:20;77:20
sitting (2)
56:22;67:14
situation (4)
19:23;102:3;109:13; 153:1
size (13)
18:18;21:16;22:9,10,
24;24:8;29:5,9,11;
31:15;67:23;68:10;
114:2
skidded (1)
12:1
slicing (1)
111:24
slightly (1)
55:13
slope (3)
122:22,24;123:1
Slopes (2)
123:1,23
slow (1)
61:4
slowdown (1)
60:2
slowdowns (1) 61:7
slowed (1) 99:5
small (8)
12:7,13;13:4;31:16;
54:7;66:3;124:22,24
smaller (8)
23:6;52:21;53:8;68:3,
4,10,12;117:1
smallest (2)
113:23;114:13
small-scale (1) 11:13
snapshot (2)
128:8;129:15
Society (3) 55:19;124:14,18
softwood (2) 99:6,6
soils (1)
66:5
sold (5)
13:8;53:19;62:14; 63:19;154:16
solution (1)
112:11
somebody (9)
17:1;19:13;29:18; 41:10;106:4;120:3,18; 148:23;150:22
someday (1) 101:16
somehow (5)
22:24;37:1;74:7;
$121: 18 ; 131: 6$
someone (6)
$121: 24 ; 140: 11 ; 141: 8$
$23 ; 154: 14,16$
som
someplace (4)
128:20;151:9,12; 152:22
sometime (1) 101:11
somewhat (2) 42:16;62:2
somewhere (2) 60:16;84:23
son (1) 149:16
sons (1) 149:24
soon (1) 51:20
sorry (25) 17:13;23:19;24:1,10; 31:22;33:4;40:19;46:13; 48:2,10,10;53:6;61:14; 80:1,3;82:6;106:1; 117:18;119:4;128:22; 130:7;135:9;136:19; 156:6;157:21
sort (17) 9:6;10:17;14:14;17:3, 20;28:6;43:10;44:22; 55:17;80:8;88:9;94:21; 98:17;113:3;141:10,10; 158:1
sound (1) 154:21
Sounds (2) 26:2;47:5
source (2) 70:5;91:11
sources (4) 38:12;94:14;141:7,12
sourcing (1) 5:2
south (7) 21:4;62:23;63:6; 108:9;121:2,21;122:11
Southeast (1) 62:23
southern (4) 92:17;109:9;110:17; 137:2
speak (6) 37:15;38:7,24;54:11; 74:1;77:19
speaking (1) 102:9
specialized (1) 94:21
species (1) 111:22
specific (4) 44:10;47:19;57:2; 107:21
specifically (3) 42:3;102:7;108:2
specifics (1)
68:22
spend (2)
104:19,21
spending (1)
25:24
spent (1) 125:17
spite (2) 25:9;63:8
spoke (6) 16:8;17:1,8;43:1; 100:11;132:15
spoken (1) 120:13
spot-check (1) 77:24
spread (1) 117:14
spreading (1) 74:22
spring (2) 61:5,6
Springfield (5) 6:7;7:14;96:9,13; 109:15
square (1)
27:2
St (1) 137:17
stab (1) 16:2
standard (2) 86:17;90:12
Standards (1) 139:11
standpoint (1) 89:4
stands (2) 42:22;69:11
stars (1)
23:14
start (7) 18:24;47:1;93:23; 118:23;142:17;149:19; 155:13
started (13)
4:4;11:5;13:10,13,16; 14:12;16:10;20:16; 25:15;40:10;53:20; 142:3,15
starting (2) 10:18;117:16
starts (3) 24:14;61:20;141:1
State (43) 11:13;18:8;62:18,19; 70:16;87:19,19;91:16; 101:13;112:4,10,21,23; 116:4,23,24;118:6,8; 121:16;123:7,8,10,13,

16;128:10,17;129:13; 131:19;132:7,17;133:5, 14,19,20,24;134:5,6,8, 10,11,12,13,15
statement (31)
18:21;21:18;29:21;
30:23;46:24;47:5;50:4,
9,14,17,18;62:8;68:23;
72:23;82:14;83:14,16,
16,21;88:19;98:1;100:3;
107:4,15,18;113:14;
117:22;139:10;145:11;
151:1;154:13
statements (1)
145:8
states (15)
15:13;18:17;59:12;
64:21;65:6,13;69:14;
91:17,22,24;118:2;
128:16;129:7;131:23; 133:13
stating (1) 46:15
Station (9)
40:4,5;95:6;113:24;
114:1,5,6;140:20,24
status (1) 59:23
staying (1) 143:3
steady (1) 101:13
steam (3) 14:2;51:10;52:1
steep (3)
122:21;123:1,23
stemmed (1) 5:18
stemming (1) 4:21
stenographer (1) 12:5
stenographers (1) 81:8
step (5) 27:6,6,6;104:2,7
stewardship (4) 56:6;62:21;86:9;87:21
sticking (1) 124:14
still (14) 6:3;48:7,22;61:7; 62:24;75:17;96:22; 100:8;101:8;139:18; 148:13;150:15;151:10, 22
stir (1) 69:13
stockpile (1) 108:20
stop (4) 11:15;101:15;108:21; 150:20

| ag |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | , |  |  |  |
| stores (1) |  |  | 131:16;132:5;133:21 |  |
| :18 | 79:17 |  | ark |  |
| ight | , | ,149:9;151:4,1 | 118: | 迷 |
|  | 3:24;14 | 152:20 | Tag (2) | :22;38:15;39 |
| aightfo | sstantiate | supply-and-demand (1) | 86:10;99: | 4;42:2,5,11;45:12; |
| 145:17 | 34:20 | $0 \cdot 1$ | talk (18) | 0:21;52:20;54:18 |
| Stratton (2) | successful (1) | supplying (1) | 25:20;43:3 | 56:13;58:16;61:9,10; |
| 15:9,12 | 14:10 | 04:10 | ;62:13,65:6; | 67:7;68:5;78:5;80:22; |
| eams (2) | successf | support (4) | :11; | 81:3,5;86:24;89:10; |
| 8:8;1 | 53.19 | 39:7;64 | 0; | 91:5;9 |
| streets (1) |  |  |  | 105:1,5,9,12,13,18; |
| 118:9 |  |  |  | 06:18;113:8;146 |
| chi |  |  | talked | 57:24; |
| 4:12 | 8:5;100 | (35) | 18;64:20 | Texas (1) |
| Strickler | sugar (1) | 8:7;28:11,14;39:16; | 3:1;94:17;123:7 | 23:4 |
| 34:24;155:23; | 12:17 | 3:3;46:20;50:10,10; | 133:20;137:9;150 | Thanks (2) |
| riking (1) | suggest (2) | 7:4;61:24;67:12;71:12; | talking (33) | 133:18;142 |
| 74:9 | 78:8;156:19 | 9:21;83:1;90:11,24; | 5:7;6:23;15:14;19: | theirs (1) |
| ongl | suggested (1) | 7:13;98:14;103:5,7; | :10;38:19;40:11;41:2, | 88:12 |
| 3:18 | -13 | 5:11,22,24;118:19,20, | -45:19;48:7,10,14; | theoretical |
| ck | suggest | 119:2;122:24;127:7; | :24;59:6;66:5;73:12; | 39:21 |
| 23:6 | 89:10;127 | 8:19;129:20;154:11, | 19;87:5;110:8; | therefo |
| ggle | sugges | 10 | 120:3;121:19; | 51:23;8 |
| :15 | ,1,143 |  | , | thinking (9) |
| struggling | suggests (6) | 0:3 | 41:13,16;146:8;150:4 | 29:9;58:17 |
| 150:13 | 30:21;50:4 | surprised | (2) | 3:4,15:74:18 |
| studies (10) | 67:22;68:1; | 7:5 | 2:2;128:20 | 7:23;157: |
| 10:1:48:2 | suitable (1) | surveys | tally (1) | thinning (1) |
| 92:14,20;96:20,24; | 12:14 | 1:22 | -15 | 76:23 |
| 101:12;10 | ummar | pect | task (1) | third (4) |
| udy (43) | , 21 | 7:10 | 16:11 | 70:16;8 |
| 15:3,15; |  | 6:7:73:107 | (1) | s-( |
| 30:5;42:13,14 | :4,6 | 6:7773:10;75:3 | 4:4 | 48:8 |
| 22;48:15;49:2,6,7;52:14, | super (1) | , | technolo | though (3) |
| 17;53:10,11,14;55:16, | 80:8 | :37,7,8;87:2;88:17,22; | 37:13 | 35:10;67:13;144 |
| 21;56:15;57:16;59:1,3; | superfici | 7:2;118:24;139:10; | technology (2) | thought (6) |
| 71:5;72:4;82:11;84:20; | 26:15 | 44:8,18,23 | 11:11,12 | 13:7;26:8; |
| 88:14;90:7;97:4,8 | supplem | sustainable (16) | teens (1) | 98:8;114:1 |
| 102:5,12;103:17,19,19; | 21:13; | 0:17;83:23;84:3,13, | 8:24 | thoughtful (1) |
| 133:6;136:10,16, | supplementa | 23;86:5,11,22;88:4; | telling (1) | 27:4 |
| 153:23 | 42:210:24:10 | 年7:91:10;97:2;118:12; | 131:1 | usand |
| uff (1) |  |  | tempered | 53:24 |
| 145:14 |  |  | (3) | reat |
| stumpage | 9:6;82 | (1) | ten (3) | 111:5;1 |
| 58:8,14;153: | supplier (9) | tained (1) | 63:12;78:9;135 | three (17) |
| stumps (2) | 6:13;7:6,9,14 | 148:2 | tends (1) | 11:8;12:1;22:5;23:17 |
| 75:16;125:19 | 109:24;110:1,5;120:10 | Sweden (1) | 120:7 | 67:14;75:20;94 |
| Subcommittee (8) | suppliers (13) | 3:8 | term (9) | 6:21;128:16;129:7 |
| 11;28:12;78:10; | 5:11,14;6:18,19;7:1 | syrup (1) | 8:21; | 144:20;146:19,24; |
| 3;84:2;117:9;134 | 4;44:8 | 2:2 | 8:23; | 148:8;152:9,11, |
| 155:1 subject | supplie | System | 103:13;10 | throughout (3) |
| subject (3) $55 \cdot 17 \cdot 84 \cdot 10 \cdot 134 \cdot 7$ | supplie |  | terms (7) | 35:8;63:22; |
| $55: 17 ; 84: 10 ; 134:$ | 54:11 supply | $\begin{array}{r} 86: 10 ; 89: \\ \text { svstems (2) } \end{array}$ | 14:17,18;21:16;68:1 <br> 73:14:98:17:115:18 | throw (2) |
| 3:7 | $5: 9 ; 9: 19$ | $53: 19 ; 91: 21$ | terribly | thumb (9) |
| submitted (1) 105:5 | 21:13;28:22;29:23;30:9; |  | $\begin{array}{r} 157: 11 \\ \text { testified } \end{array}$ | 36:5,8,15;37:7 <br> 21,24;38:21 |
| subsidies (2) | 6:10;47:4;51:11;54:13; |  | :22; | ursday (3) |
| 6:12,13 | 55:17;56:11,12,14,17; | table | testifies | 80:23;156:1 |
| subsidized | 57:5,11,13,16,17,22 | 28:23;40:22,23;41:2, | 32:5 | Timbe |
| 22 | 58:1,2,5;61:12;69:1 | 3,6,6;42:13;43:7,13 | testimony (64) | 8:22;46:9;76:11 |


| 100:19 | 133:22;151:20,23;154:1 | 23;145:13;147:11; | 75:18;103:6 | unrealistic (4) |
| :---: | :---: | :---: | :---: | :---: |
| Timberland (3) | topwood (1) | 151:12;153:17,18,22 | twig (2) | 34:14,23;35:14;81:2 |
| 10:7;56:5;85:24 | 146:5 | trend (2) | 8:2,3 | unreasonable (1) |
| times (11) | total (20) | 101:17,19 | two (24) | 124:5 |
| 17:7;61:3,3;83:24 | 42:13;59:13,13;93:10, | tried (3) | 6:6;9:7;16:24;48:10; | unredacted (2) |
| 85:3,6;92:6,6;98:15 | 11;126:10,14,14,16,16, | 44:23;50:1;94:2 | 62:1;63:23;77:19;79:22; | 80:15,16 |
| 103:12;116:22 | 18;127:10,13,19;128:3, | $\boldsymbol{t r o d}(1)$ | 93:16,18;94:10;106:20; | unscheduled (1) |
| tiny (1) | 4;129:4;130:17,19; | 04:2 | 110:1,2;127:21;132:24; | 35:2 |
| 52:8 | 152:8 | trodding ( | 135:21;137:2;138:8; | unusual (2) |
| tipping | touched | 104:20 | 140:16;144:20;154:23; | 27:21;99:12 |
| 21:4;140:20, | 39:18;110 | trouble | 155:7;158:8 | up (71) |
| title (1) | tough (1) | 37:18 | type (5) | 4:10,14;10:23;12:24; |
| 120:8 | 60:22 | truck (7) | 54:5,8;147:24;151:19; | 13:9;16:10;19:24;20:16; |
| titled (1) | touting (1) | 12:2;20:18,21,23 | 153:10 | 22:15;23:14;33:17,22; |
| 41:6 | 69:18 | 71:18;109:7;122:12 | types (3) | 35:12;43:22;45:21;47:5; |
| today (25) | towards | trucker (2) | 43:8;52:23;68 | 55:13;58:9,10,11,13; |
| 7:8;8:8;19:22;20:6; | 26:9 | 120:10;153 | typical (5) | 65:4;68:20,23;73:10; |
| 47:13;50:18;60:14,14, | town (1) | truckers (2) | 37:4;119:18;120:1 | 74:1;75:16;76:15;85:1; |
| 21;66:11;71:24;72:22; | 5:14 | 44:7;72:1 | 123:14;133:24 | 93:20,24;94:4,5,7;95:12; |
| 77:19;78:24;92:13,16; | track (6) | trucking (9) | Typically (5) | 102:20;107:24,24; |
| $97: 23 ; 98: 23 ; 107: 12$ | 9:20;35:20;78:2 $89 \cdot 12$ 23.91.17 | $70: 11 ; 72: 14 ; 75: 6$ <br> 108:14:110:8.140:22. | $13: 23 ; 25: 5 ; 36: 21$ | 108:14,17,22,22;111:21; |
| $\begin{aligned} & \text { 143:17;146:20;155:8, } \\ & 15 ; 156: 5,9 \end{aligned}$ | $\begin{aligned} & \text { 89:12,23;91:17 } \\ & \text { tracked (1) } \end{aligned}$ | $\begin{aligned} & 108: 14 ; 110: 8 ; 140: 22 \\ & 141: 3 ; 152: 23 ; 153: 3 \end{aligned}$ | 90:14;132:16 | $\begin{aligned} & 112: 6,8,9 ; 113: 3 ; 121: 7 \\ & 122: 2,7,11,21,23 ; 123: 4 ; \end{aligned}$ |
| together (6) | 10:2 | trucks (6) | $\mathbf{U}$ | 131:6;132:23;140:17, |
| 14:12;23:1 | trackin | 20:2,17,19,24;21:10; |  | 22;141:4;142:14;146:5, |
| 93:23;99:24;155:23 | 9:17;91 |  | ultmate | 6;147:19;148:8;149:4, |
| told (8) | tracks (2) | true (10) | 2:22 | 17;152:20;153:11,12,12; |
| 20:12;70:2;72:20,21 | 89:17, | 45:6;48:17;54:1 | ultimately (3) | 157:10 |
| 83:6;94:13;98:21; | traded | 62:8;73:21,22;76:15,17, | 32:19;71:4;106:21 | up-and-down (1) |
| 152:17 | 58:8 | 18;152:15 | unable (1) | 142:12 |
| tomorrow (20) | trains (2) | truer (1) | 122:21 | upon (9) |
| 91:2;135:7,17, | 137:10;138: | 59:8 | uncertainty ( | 34:6;36:4;46:2 |
| 144:5;155:12,12,20 | transcripts (1) | truly (1) | 153:5 | 48:22;52:23;55:2;57:18; |
| 156:6,7,12,15;157:2,10, | 81:9 | 23:10 | unchanged (1) | 77:10;83:2 |
| 15,20;158:3,21,24;159:4 | transfer | truss (1) | 57:21 | upper (1) |
| ton (5) | 140:19, | 138:13 | under (25) | 146:1 |
| 35:21;44:18;58:8,14; | transformed (1) | trust (3) | 12:22,22;13:21;29:4, | up-surge (1) |
| 71:3 | 45:10 | 55:20,24;56 | 14;31:14;49:23;51:8; | 60:7 |
| tons (44) | translate | trusts (1) | 52:11;57:1,1;85:20; | usage (3) |
| $16: 19 ; 26: 2 ; 29: 1$ | $46: 16$ | 56:3 | $87: 10,21,23 ; 95: 23$ | 8:23;96:24;113:6 |
| $32: 21 ; 34: 7 ; 35: 7 ; 36: 7 \text {; }$ | transpired | try (17) | 109:24;118:14;132:19, | USDA (1) |
| 37:11;38:5,14;39:5; | 131:21 | 20:3;22:22 | 19;139:11,11,23;141:3; | 6:4 |
| 45:7,10,14;46:1,3;53:22, | transport | 43:20;51:14;53:3;66:8; | 142:16 | Use (34) |
| 24;55:7;59:7;72:6; | 120:24 | 72:16;80:22;98:7;113:5; | underneath (1) | 12:19,22;14:2;29:19; |
| 93:10,11;98:5;100:22; | transportation (5) | 121:1;130:16;135:2,7; | 132:3 | 35:10;37:17;38:4,21; |
| 102:24;103:2,3,4; | 21:13;122:3,4;152:2 | 143:19;144:1 | underserved (1) | 39:8;43:11;53:22;54:3, |
| 115:23;116:9,11;117:3, | 153:14 | trying (16) | 148:24 | 4,14;64:13,24;69:14; |
| 4;127:11,14;130:17,19; | transporting (1) | 17:18;24:6,18;27:1,3; | understated (2) | 71:10;85:13;87:21; |
| 133:21,23;147:2;150:19, | 69:7 | 41:9;72:12;96:17;99:3, | 32:6;39:8 | 96:20;97:2;116:9,9,11; |
| 21;152:8 | travel (1) | 10;130:5;131:13;145:7; | understood (3) | 120:19;122:18,24;124:3, |
| took (5) | 71: | 148:3,4;150:13 | 26:7;52:12;102:23 | 11;139:4;148:7;151:5,7 |
| 27:6;38:3;49:24; | travels | Tuesday (1) | undue (1) | used (16) |
| 98:24;146:5 | 158: | $110 \cdot 3$ | 73:7 | 36:8;37:5;48:11 |
| tools (1) | tree (18) | turn (13) | unfortunately (1) | 63:17;69:15;73:6,23; |
| 75:5 | 8:12,14;12:18,22 | 4:9;31:20;76:11 | 73:21 | 83:24;91:10;103:13; |
| top (7) | 74:14;86:9;108:4,5,20; | 78:20;80:18;107:7,20; | uniform (1) | 131:10;132:22;139:4; |
| 8:15;28:23;47:23; | 109:1;140:15;145:20, | 119:16;137:16;154:15; | 54:15 | 147:2,9;151:3 |
| 48:4,19:146:10,11 | 24;146:2,9;147:13,15,17 | 155:24;157:12,14 | universe | useful (1) |
| topic (2) | trees (22) | turned (1) | 89:21 | 139:5 |
| 84:11;110:19 | 11:21;12:13;56:9; | 44:17 | unless (1) | user (6) |
| tops (12) | 58:20;64:7;69:16;74:10; | Turning (1) | 147:11 | 113:11,12;115:21,22; |
| 8:5,23;64:7,23; | 84:16;85:5,7;88:3,4; | 122:15 | unloaders (1) | 116:4,23 |
| 102:21;103:3,3;129:17; | 112:3;140:16;141:16, | Turns (2) | 94:21 | users (4) |


| 50:22;52:22;53:9;77:2 | viable (1) | 105:15 | 10;105:21,23;115:8; | 101:18;103:12;112:10, |
| :---: | :---: | :---: | :---: | :---: |
| uses (4) | 145:7 | weigh (2) | 127:1;135:22;136:1,2,5; | 22;119:1,19;120:7; |
| 45:18;84:3;92:9; | view (6) | 71:11;153:6 | 143:5;144:6;154:11; | 121:6;131:13;144:13; |
| 123:11 | 17:23;37:4,20;65:15; | weighing (1) | 158:6 | 158:1 |
| using (13) | 84:6,7 | 153:1 | Witnesses (3) | worked (6) |
| 36:5;37:12;38:23; | vigorous (1) | weight (1) | 44:1;156:24;157:1 | 12:1;16:15,15;22:7; |
| 45:14;46:17;50:4;73:24; | 74:6 | 99:15 | Witt (1) | 30:7;112:4 |
| 93:10;115:20;126:15, | visit (1) | welcome (1) | 17:16 | workers (2) |
| 18;133:7,9 | 77:24 | 72:7 | wold (1) | 26:17;62:19 |
| usually (4) | visiting (1) | welcoming (1) | 62:24 | workforce (1) |
| 25:13;58:5,7;112:10 | 77:20 | 26:15 | Wonderful (1) | 23:14 |
| utilization (6) | volatile (1) | weren't (1) | 157:16 | working (9) |
| 25:23;54:20;64:7 | 19:24 | 26:19 | wood (142) | 11:8;14:12;61:2,8; |
| 101:9;146:7;151:15 | voluntary (4) | what's (10) | 6:23;10:14;12:12,16, | 87:6;98:12;110:13; |
| utilize (1) | 86:16;91:20,21; | 27:23;45:9;53:6; | 21;13:4,7;14:1;15:17, | 112:13;122:5 |
| 151:24 | 132:21 | 59:22;68:23;89:22;92:2; | 24;16:5,7,9,11,14,17,20; | works (1) |
| $\begin{gathered} \text { utilizing (146:24 } \end{gathered}$ | W | $99: 13 ; 131: 5 ; 136: 13$ | $\begin{aligned} & 18: 4,4,11,13 ; 19: 6,11,13, \\ & 16,24 ; 20: 6,12,13 ; 21: 4,5, \end{aligned}$ | $\begin{gathered} 108: 10 \\ \text { orld (2) } \end{gathered}$ |
|  |  | 50:12;77:6 | 9,20;22:18,24;24:19; | 62:16;63:22 |
| V | wages (1) | Whereupon (2) | 25:19;31:2,3,6;37:11; | worldwide (3) |
|  | 219 | 78:13;159:6 | 40:12;41:8,17,22;42:14; | 62:14;63:3,21 |
| vacation (3) | wait (1) | White (6) | 43:13,23;44:6;45:4; | worth (7) |
| 51:21;148:16;149:14 | 85:8 | 13:4;55:1,5,8,9; | 46:4,17;47:24;49:6; | 26:13;45:19;54:1; |
| valid (1) | walk (1) | 123:22 | 50:3,4,24;51:1,11;53:21; | 62:24;74:14;146:15; |
| 85:19 | 106:16 | Whitefield (3) | 54:1,3,5,6;56:15;57:23; | 149:12 |
| valuable (2) | Wal-Mart (3) | 6:7;109:17;115:2 | 58:2,7,19;59:4,9,24; | wrap (1) |
| 58:18;59:8 | 88:3;154:15,17 | whole (14) | 60:19;65:1;71:4,13,15, | 157:10 |
| value (4) | wants (4) | 19:22;34:3;53:20; | 15,19,20;72:13;73:8,12; | wrap-up (1) |
| 121:20,22;152:24; | 65:16,18;79:15;87: | 67:2;77:1;93:3;96:8; | 75:9;76:16,19;77:12; | 155:14 |
| 153:2 | waste (5) | 108:4,5;109:1;129:21; | 85:14;91:8,18,23,24; | writing (1) |
| vans (2) | 14:1;21:4,6,9;69:14 | 136:6;147:13,15 | 93:11,13;94:2,3;96:20; | 156:18 |
| 142:1,2 | water (3) | who's (2) | 97:1,17;98:4;100:13; | written (4) |
| various (14) | 76:13;77:5;95:19 | 23:3;121:24 | 102:17;107:11,12,13,14, | 31:9;67:3;144:11,19 |
| 38:11,12;42:18,24; | Wausau (1) | wife (1) | 23;109:5,14;111:23; | wrong (3) |
| 48:23;52:23;71:3,4; | 150:18 | 11:4 | 112:6;113:12;116:6,7, | 37:5;126:9;129:12 |
| 85:3;88:18;92:8;111:12; | waves (1) | Wilderness (3) | 10,11;119:14;122:15; |  |
| 131:23;153:13 | 75:16 | 55:19;124:14,18 | 124:21;125:23;129:9, | Y |
| vast (1) | way (23) | willing (4) | 10;131:24;133:7; |  |
| 149:19 | 4:24;8:1;16:4;45:7; | 11:10;74:9;118:10 | 134:14,16;136:12,21,23; | yard (6) |
| veneer (1) | 49:1;72:11;74:17;79:18; | 139:2 | 142:10;144:22;146:20, | $20: 24 ; 108: 19,22$ |
| 100:1 | 85:18,20;92:15;102:22; | willingness (1) | 22,24;147:8;148:1; | 109:2;121:10;140:21 |
| verbal (3) | 110:12;119:19;121:23; | 118:17 | 149:7,9,23;152:9; | year (37) |
| 155:2;158:19;159:2 | 122:13;125:23;131:17; | winding (1) | 154:17,18 | 13:14;16:16,17,19; |
| verification (1) | 136:3;143:14;145:14; | 100:10 | woodland (1) | 32:13,21;34:7;35:7; |
| 52:2 | 148:5;149:7 | Windsor (2) | 87:8 | 36:7;38:5,14;39:5; |
| verify (3) | weather (1) | 52:10,18 | woodlands (1) | 45:14;53:22;59:7;63:11, |
| 36:20;37:1,2 | 100:13 | winter (1) | 12:22 | 13;76:17;87:14;89:22, |
| Vermont (17) | weathering (1) | 61:6 | woods (10) | 22;91:18,23;93:10; |
| 11:5,14;12:15;50:13; | 66:7 | wish (4) | 8:11;11:19;12:24; | 100:16,17;101:18; |
| 53:20;62:19,20,22;74:4; | weather-related (1) | 56:8;81:11;90:16 | 17:5;57:7;120:4;147:10; | 102:18;103:2,3;115:23; |
| 75:20;87:7,19;91:17,20; | $98: 18$ Wednesday (2) | 125:22 within (16) | 149:20;152:1;154:15 | $117: 3 ; 125: 3,14,14,21 ;$ 152.9 |
| 128:11;131:24;132:20 | Wednesday (2) | within (16) | woody (1) | 152:9 |
| Vermont's (1) | 110:4;159:8 | 20:13;31:17;39:3; | 65:3 | yearly (1) |
| 59:13 | weed (1) | 40:4;51:16,23;72:6; | Worcester (2) | 59:5 |
| version (10) | 76:23 | 74:8;85:20;87:6,6; | 112:2,3 | years (19) |
| 79:5,6;80:13,15,16,17; | weeds (1) | 123:19;124:21;133:13; | word (2) | 11:7;20:16;22:20; |
| 82:18,20,21;83:3 | 76:24 | 134:14,16 | 64:13;146:13 | 30:8;51:10;63:12;73:23; |
| versions (4) | week (5) | without (2) | words (2) | 75:13;84:12;87:12,12; |
| 82:10,19,22;83:8 | 7:10,16;9:3;81:5; | 25:24;94:20 | 67:16;93:9 | 89:23;90:15,19,19;92:8; |
| Verso (2) | 156:3 | WITNESS (25) | work (23) | 146:23;149:15,24 |
| 51:1;117:3 | weekly (1) | 23:22;24:1;28:2; | 4:24;11:10;13:2;14:4; | yesterday (5) |
| Versus (1) | 20:8 | $33: 19,24 ; 42: 6,9 ; 44: 2$ | $25: 1 ; 26: 23 ; 43: 4,17$ | 17:15;19:9;39:19; |
| 134:10 | weeks (1) | 48:5;66:24;96:12;97:9, | 48:23;58:5;60:14;87:10; | $150: 5,13$ |

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