

STATE OF NEW HAMPSHIRE  
SITE EVALUATION COMMITTEE

August 23, 2010 - 1:45 p.m.  
Public Utilities Commission  
21 South Fruit Street  
Suite 10  
Concord, New Hampshire

DAY 1  
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:

## SITE EVALUATION SUBCOMMITTEE:

Thomas Burack, Cmsr.	DES
Amy Ignatius, Cmsr.	PUC
William Janelle	DOT
Elizabeth Muzzey	N.H. Div. of Hist. Res.
Harry Stewart	Water Division - DES
Craig Wright	Air Resources Div - DES
Donald Kent	DRED
Christopher Northrop	OEP
Michael Harrington	PUC

\* \* \*

Counsel for the Committee: Michael Iacopino, Esq.

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

1 ALSO PRESENT:

2 REPRESENTING LAIDLAW BERLIN BIOPOWER, APPLICANT:

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

6

7 REPRESENTING CITY OF BERLIN:

8 Peter D. Van Oot, Esq.  
9 Merritt Schnipper, Esq.  
(Downs Rachlin Martin)

10

11 REPRESENTING CLEAN POWER DEVELOPMENT:

12 James T. Rodier, Esq.

13

14

COUNSEL FOR THE PUBLIC:

15

16 K. Allen Brooks, Esq.  
17 Peter C. L. Roth, Esq.  
Senior Asst. Attys. General  
N.H. Dept. of Justice

18

19

20

21

22

23

24

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24

INDEX

WITNESS PANEL: Louis T. Bravakis  
Carl S. Strickler  
Dammon M. Frecker

CROSS-EXAMINATION	PAGE
By Mr. Brooks . . . . .	4, 26, 39, 46, 57
By Mr. Roth . . . . .	16, 32, 43, 46

INTERROGATORIES BY SUBCOMMITTEE MEMBERS:

CROSS-EXAMINATION	PAGE
By Mr. Harrington . . . . .	87
By Mr. Jannelle . . . . .	98
By Ms. Ignatius . . . . .	104
By Mr. Northrop . . . . .	127
By Mr. Stewart . . . . .	132
By Ms. Muzzey . . . . .	139
By Mr. Wright . . . . .	144
By Mr. Kent . . . . .	148

1           (Hearing resumed from lunch recess at  
2           1:45 p.m.)

3                   CHAIRMAN BURACK: Okay. We're  
4 going to resume. Our order of proceeding this  
5 afternoon, we'll start with cross-examination of  
6 this panel by counsel for the public, followed by  
7 questions from the Committee, and we'll see where  
8 we are at that point. Attorney Brooks.

9                   MR. BROOKS: Thank you very  
10 much. Allen Brooks, counsel for the public.

11                           CROSS-EXAMINATION

12 BY MR. BROOKS:

13 Q. The broad topics that I want to cover -- I  
14 don't know that I have too many questions on  
15 this, because we have gone through them in  
16 the technical session. But one thing -- I'm  
17 going to start with air. And one thing on  
18 the air is that I think you mentioned that  
19 you're going from an EPC to a baghouse?

20 A. (Bravakis) Yes.

21 Q. When was that decision made?

22 A. (Bravakis) I can't recall.

23 A. (Freckler) I'm not exactly sure when the  
24 decision was made, Mr. Brooks. It was

1 addressed in the prefiled air permit  
2 application that was submitted, and that  
3 application was revised May 18th.

4 Q. That anticipates my next question, which is  
5 that the air permit application was  
6 submitted and reviewed with the  
7 understanding that there would be a  
8 baghouse, not an CPE?

9 A. (Frecker) In the revised filing, that is  
10 correct. It addressed a fabric-filter  
11 baghouse for particulate control rather than  
12 an CPE.

13 Q. And the recommendation back from DES Air  
14 Division related to a baghouse and not an  
15 CPE?

16 A. (Frecker) They accepted that because it also  
17 came with a lower particulate emission rate.

18 Q. Okay. How did you achieve -- and if you  
19 can't answer this, that's fine, 'cause this  
20 is... my understanding was an CPE was a more  
21 significant control device than a baghouse.  
22 How are you able to achieve a lower emission  
23 rate with a baghouse than an CPE?

24 A. (Frecker) I actually think that in some

1 applications a fabric filter can be more  
2 efficient than an electrostatic  
3 precipitator. One of the things that was  
4 also proposed, committed to in the amended  
5 air permit application, was the use of  
6 sorbent injection to achieve a lower SO2  
7 emission rate. And sorbent can build up on  
8 the bags to provide an even higher  
9 filtration efficiency and particulate  
10 control efficiency.

11 Q. Okay. So the sorbent basically makes the  
12 holes in the bag smaller, in other words?

13 A. (Frecker) That's correct. But the baghouse,  
14 in and of itself, was able to achieve the  
15 lower particulate emission rate. The  
16 sorbent injection just provides an added  
17 level of abatement.

18 Q. I think the existing facility, was there  
19 already an CPE in place or room for an CPE?

20 A. (Frecker) There is an electrostatic  
21 precipitator that exists there now that  
22 operated on the former recovery boiler.

23 Q. And why was a decision made to go to a  
24 baghouse instead?

1 A. (Strickler) Well, I think the key is, as we  
2 talk about the SO2 control, you need to have  
3 a baghouse in order to get the level of SO2  
4 control with a dry sorbent injection. They  
5 have to go together. When you add the SO2  
6 control, we need to also have a baghouse for  
7 that to perform. So that was the principal  
8 decision to go that way.

9 Q. But in general, you are -- and I remember  
10 this from the permitting -- you're meeting  
11 all of the essentially most stringent  
12 requirements for BACT LAER, whatever they  
13 are, for emissions for the facility.

14 A. (Freckler) That is correct.

15 Q. Right now, you're not under, as far as I  
16 know, any CO2 control, including the RGGI  
17 program, because you're not a fossil  
18 fuel-fired unit.

19 Any prediction of, given that EPA is  
20 looking at CO2 right now and that there are  
21 many people in Congress looking at CO2,  
22 about what might happen and how you might  
23 respond if there are CO2 regulations in the  
24 near future, let's say within next decade?

1 A. (Freyer) I think with regard to what we  
2 know about the regulations right now, we can  
3 say that with EPA's tailoring rule, which  
4 requires permitting in 2011 for very large  
5 sources of CO<sub>2</sub>, that that will not impact  
6 the project, because the project will have  
7 completed its air permitting by that time.

8 With regard to EPA's greenhouse gas  
9 emissions reporting rule, the project will  
10 likely be subject to reporting. EPA is in  
11 the process of refining their position with  
12 regard to sources of biogenic CO<sub>2</sub>, such as  
13 biomass facilities. We're not sure what EPA  
14 may do, but we don't see -- or we at least  
15 see, based upon their positions in the past,  
16 that they have a favorable perspective with  
17 regard to biogenic emissions of CO<sub>2</sub> from  
18 biomass plants compared to fossil fuel  
19 sources.

20 Q. Do you believe that, given whatever your  
21 predictions are about the possibility of CO<sub>2</sub>  
22 regulation or legislation, that the plant  
23 will remain economically viable, based on  
24 what you now know might happen over the



1 next, let's say decade?

2 A. (Bravakis) Yes.

3 Q. Okay. That's all the questions I have about  
4 air.

5 Moving on to water, and specifically  
6 groundwater, there are obviously  
7 contaminants at the site right now in the  
8 groundwater. Can you tell me -- maybe just  
9 review quickly before my question.

10 You don't plan on doing anything  
11 significant at this point in terms of  
12 disturbing any of the contaminants in the  
13 groundwater? In other words, when we did  
14 the plant walk, you discussed the fact that,  
15 because there's an existing structure, you  
16 won't have to do as much drilling to get to  
17 bedrock, that kind of thing. So my  
18 understanding is that, even with the  
19 drainage swales and retention basins and  
20 things like that, that you're not going to  
21 really puncture into contaminants that much.  
22 Is that correct?

23 A. (Freckler) That is correct. The data that we  
24 have shows the groundwater levels at the

1 site exist 10 feet or more below the  
2 surface. And the deepest foundations that  
3 are contemplated at this point are about  
4 8 feet. Even if there was some encountering  
5 of groundwater, the levels of organics that  
6 are found are not particularly difficult to  
7 handle. They're relatively  
8 low-part-per-million type levels of very  
9 readily treatable organics that can be well  
10 managed.

11 Q. For the purposes of the record, we just  
12 haven't had much time to look over the  
13 agreements that you've had with the town,  
14 and probably members from the public, to the  
15 extent that they've even gotten them,  
16 haven't either.

17 Can you tell us kind of what the --  
18 what you're envisioning doing, what your  
19 agreement is with respect to, let's say  
20 monitoring and testing of groundwater,  
21 including the geographic scope? Is it  
22 limited to just the Laidlaw site? Does it  
23 go beyond that? Does it encompass what we  
24 would usually refer to as maybe a Phase 1 or

1 a Phase 2 environmental assessment? Can you  
2 just talk about that?

3 A. (Freckler) Yeah, I think I can answer it in  
4 two ways. One is, independent from what the  
5 City may do, and Laidlaw may assist the City  
6 in doing -- and I'll touch upon that in a  
7 moment -- we have committed to, in the  
8 application, conducting the necessary  
9 studies, subsurface studies in the areas  
10 where there would be intrusive activities,  
11 excavations of any size, and properly  
12 characterizing the soils, sampling the soils  
13 and materials in those areas to make sure  
14 that all those materials are properly  
15 handled. So there will be a subsurface  
16 investigation to some degree to assure that  
17 all of the construction activity occurs  
18 properly, without causing any harm to public  
19 safety.

20 With regard to the stipulations that  
21 have been negotiated with the City, the City  
22 has talked to at least one consultant about  
23 a preliminary scope of work which would  
24 occur in multiple phases, which would

1 include soil and groundwater sampling, both  
2 in the location of the project, focused in  
3 the area where the project would be built  
4 initially, and expanding to other portions  
5 of the site itself. I believe that that  
6 scope, as I characterized it, is a draft  
7 scope of work. But at least it sets forth  
8 the structure for how those investigations  
9 may be conducted. And I should say, part of  
10 the stipulation is for Laidlaw to provide a  
11 significant level of monetary support and  
12 cooperation in having that study conducted.

13 Q. A member of the public recently sent me an  
14 e-mail I'd like to go over with you  
15 regarding groundwater contamination.

16 You mentioned some of the, I think,  
17 organic compounds that are there. This  
18 e-mail mentions significant mercury  
19 pollution -- this is what he's saying -- at  
20 the chloro-alkali plant. Can you tell us  
21 about the relationship, if any, between your  
22 Laidlaw project and the previous  
23 chloro-alkali plant?

24 A. (Freyer) Yeah. The chloro-alkali plant is

1           actually on the northern parcel of what was  
2           the former pulp mill facility. So if you  
3           went about a quarter of a mile or so up  
4           here, along the river bank, is where the  
5           chloro-alkali plant is. And that's where  
6           EPA has been doing investigations with  
7           regard to mercury contamination.

8       Q.    Okay. And you're aware of those studies?

9       A.    (Frecker) Yes, we are.

10      Q.    Having been familiar with those studies, do  
11           you have any concern about the Laidlaw  
12           project and impacts to the Laidlaw area from  
13           that site?

14      A.    (Frecker) No, we don't, for a couple of  
15           reasons. First of all, as I indicated, we  
16           anticipate doing relatively shallow  
17           excavations for footings and foundations of  
18           the few structures that need to be  
19           constructed for the project itself. Our  
20           evaluations of depth to bedrock, based upon  
21           prior studies done at the facility, do not  
22           indicate that any blasting will be required.  
23           And if there should be some nominal  
24           encountering of bedrock, it can likely be

1 done through mechanical means of removing  
2 that without going into blasting activities.  
3 So we certainly don't anticipate a level of  
4 disturbance that would propagate vibrations  
5 and things all the way up the river to cause  
6 any harm or impact on the existing  
7 chloro-alkali site.

8 With regard to the site itself, the  
9 investigation done by GZA back in 2003  
10 installed a number of groundwater monitoring  
11 wells and conducted a number of soil  
12 samples. And out of the 13 groundwater  
13 monitoring wells that GZA had installed, 7  
14 of those did not show levels of any metals  
15 or organics above the groundwater quality  
16 concentrations codified in the New Hampshire  
17 regulations. As a matter of fact, one of  
18 the recommendations that GZA made in their  
19 report was that additional sampling of  
20 groundwater and soils should be conducted to  
21 determine if the levels of mercury which  
22 were detected were, in fact, not just  
23 associated with natural background, because  
24 they were only a couple of part per billion

1 above the regulatory standards in the state  
2 of New Hampshire. So, very, very different  
3 levels and minimal levels down in the site  
4 where the project will be constructed, as  
5 compared to the chloro-alkali site.

6 Q. And you answered another one of the member's  
7 concerns, which was -- his statement is the  
8 proposed turbine building will require  
9 substantial foundation work which will  
10 easily reach into bedrock. It sounds like  
11 you do not believe that to be true, or that  
12 that won't require significant blasting or  
13 other activities.

14 A. (Freckler) We don't believe that the  
15 installation of the footings and foundation  
16 for the turbine buildings will encounter a  
17 need to remove existing bedrock.

18 Q. Okay. Thank you. The correspondence that I  
19 have is from a person named Alex Driessen.  
20 Did Mr. Driessen ever contact you with these  
21 concerns previously?

22 A. (Bravakis) No, sir.

23 A. (Strickler) Not me.

24 Q. So you never turned him away and said we

1 don't want to hear about these --

2 A. (Bravakis) No.

3 Q. Okay. Do you know who Mr. Driessen is?

4 A. (Bravakis) Yes.

5 A. (Strickler) Yes.

6 Q. Who is he?

7 A. (Bravakis) I know Mr. Driessen as a  
8 environmental consultant in the state of New  
9 Hampshire and a member of the Clean Power  
10 Development project team.

11 Q. Had he come to you with these concerns,  
12 would you have addressed them with him?

13 A. (Bravakis) I think we would have been glad  
14 to discuss the issues with him.

15 BY MR. ROTH:

16 Q. I have a few questions. One of them is a  
17 follow-up to an answer that you gave  
18 concerning the groundwater monitoring wells  
19 on the site that GZA installed.

20 Are all of those wells still intact and  
21 operable?

22 A. (Bravakis) I don't know the answer to that,  
23 Mr. Roth. I have not -- we have not  
24 actively pursued looking into those wells.



1 Q. So you don't know whether any of them are,  
2 in fact, still usable?

3 A. (Bravakis) I do not know.

4 Q. Okay. And you haven't conducted your own  
5 groundwater survey to date?

6 A. (Bravakis) Not to date, no.

7 Q. Okay. I have three documents. These are  
8 Public Counsel 1, 2 and 3. These are the  
9 covenant not to sue, the T1 transformer and  
10 the Dummer Yard leachate agreement. I'm  
11 going to give these to you. I just  
12 introduced them today, so hopefully you're  
13 already familiar with them. But I just  
14 wanted to ask you a few questions.

15 Are you familiar with these three  
16 documents?

17 A. (Freyer) Only on a very superficial level.

18 Q. Now, starting with Public Counsel No. 1, the  
19 covenant not to sue, what's your at least  
20 superficial understanding about what this  
21 is?

22 A. (Freyer) And I'll give you an answer as an  
23 engineer and not an attorney --

24 Q. That's fine.

1 A. (Freckler) -- and that is that owners of the  
2 site going forward will not be held -- and,  
3 again, please don't parse legal terms on  
4 me -- but will not be held financially or  
5 otherwise responsible for existing  
6 conditions at the site that may have been  
7 caused by prior owners.

8 Q. Very good. That's my understanding of it as  
9 an attorney as well.

10 Mr. Frecker, if you wouldn't mind  
11 turning to Page 6 of Public Counsel No. 1?

12 A. (Freckler) That's the CNTS?

13 Q. Yes. And in particular, if you wouldn't  
14 mind focusing your attention on Paragraph 4.  
15 Are you familiar with Brownfields covenants  
16 not to sue and covenants not to sue in  
17 general?

18 A. (Freckler) Only from a very superficial  
19 level.

20 Q. Okay. Well, perhaps this paragraph will be  
21 familiar to you. As you stated, there's a  
22 protection for the owner for existing  
23 contamination. And is it your understanding  
24 that this covenant would run in favor of the

1 Applicant here?

2 A. (Freckler) That is my personal understanding,  
3 yes.

4 Q. Okay. And you may not be aware of this,  
5 but -- and perhaps you are. I'll ask you.

6 Are you aware that the Department of  
7 Environmental Services, a year or so ago,  
8 issued a letter to the Applicant, informing  
9 it that the covenant was generally still  
10 applicable to it?

11 A. (Freckler) Yes, I'm aware of that.

12 MR. ROTH: Okay. And I  
13 haven't introduced that letter, but I guess I'd  
14 like to hold a place for it as an exhibit, with  
15 your agreement, Barry?

16 MR. NEEDLEMAN: We agree.

17 CHAIRMAN BURACK: We'll  
18 tentatively identify that as Public Counsel  
19 Exhibit 4.

20 MR. ROTH: Thank you.

21 BY MR. ROTH:

22 Q. So, on Paragraph 4 on Page 6 here, would you  
23 just read the Roman numerals one and two.

24 A. (Freckler) Sure.

1 Q. And if I can interrupt you already? In  
2 looking at that, would you agree with me  
3 that this is sort of the carve-outs from the  
4 covenant itself? Perhaps take a moment  
5 to...

6 (Witness reviews document.)

7 A. (Frecker) Yes, I would agree with your  
8 characterization of that as a "carve-out,"  
9 if you will.

10 Q. And would you look at or tell the Committee  
11 what Roman I and II say.

12 A. (Frecker) Roman I says that claims based  
13 upon the release of additional pollutants,  
14 contaminants, hazardous substances, other  
15 than existing contamination that occurs at  
16 the acquired property after the date of  
17 closing; and Roman II covers claims based on  
18 negligent or reckless aggravation of the  
19 existing contamination by a purchasing  
20 entity or its assigned.

21 So it's my understanding that these are  
22 essentially saying that if a subsequent  
23 owner were to do something that contributed  
24 additional pollutants, or through negligent

1 or reckless aggravation of existing  
2 contamination, that they may be held  
3 responsible for that.

4 Q. So I would assume that, now that you're  
5 familiar with those two carve-outs, that  
6 when you go about this project, you're going  
7 to avoid being negligent or reckless in  
8 aggravating existing contamination?

9 A. (Frecker) Above and beyond whether this  
10 legal document existed, we would do that  
11 because it's the right way to do a project,  
12 and we don't want to cause any harm to  
13 public safety or anybody who works on the  
14 project.

15 Q. Okay. And is that a little bit tricky to do  
16 when you perhaps aren't fully familiar with  
17 what existing contaminants are located on  
18 the site?

19 A. (Frecker) All the more reason that we said  
20 the first thing that we would do is  
21 additional investigation to get better  
22 familiarity with the contaminants that are  
23 on the site.

24 Q. Okay. Thank you.

1           Turning your attention now to Roman --  
2           I'm sorry -- Public Counsel 2. And this is  
3           identified as "Agreement for Addressing PCB  
4           Contamination at the T1 Transformer Area."  
5           Are you familiar with the T1 transformer  
6           area?

7           A.   (Frecker) Generally.

8           Q.   Can you point on the chart where that is in  
9           relation to your project?

10          A.   (Frecker) I can. It's this shaded area  
11          located right essentially along the river  
12          bank here, between where the proposed  
13          roadway would pass to the north of the  
14          building that would house the  
15          emission-control systems for the project.

16          Q.   Okay.

17                           CHAIRMAN BURACK: Sorry, Mr.  
18          Frecker. It's just hard for some of us to see --

19                           MR. FRECKER: I'm sorry.

20                           CHAIRMAN BURACK: -- with you  
21          standing on that side. Can you perhaps point  
22          again so --

23                           MR. FRECKER: Sure. It's this  
24          shaded area right here. It's currently enclosed

1 by a chain-link fence and asphalt-paved. You may  
2 recall having seen it when we were doing the site  
3 walk.

4 CHAIRMAN BURACK: Thank you.

5 BY MR. ROTH:

6 Q. And can you tell the Committee what the T1  
7 transformer site is, to the best of your  
8 knowledge?

9 A. (Freckler) Essentially as simple as its name:  
10 That there was a transformer there that had  
11 leakage or issues that created PCB --  
12 subsurface PCB contamination, and that there  
13 was a remediation project to largely address  
14 that issue and to cap and cover that to make  
15 sure that there weren't ongoing issues or  
16 exposure.

17 Q. Okay. And is there a cap and cover now on  
18 the T1 site? Has that been completed?

19 A. (Freckler) As I indicated, there is an  
20 asphalt cover. The area is paved with  
21 asphalt.

22 Q. Okay. And do you expect any project  
23 activities to occur on the T1 transformer  
24 site?

1 A. (Freckler) No.

2 Q. Now turning your attention in the document  
3 to Page 6, Paragraph 26. Can you read  
4 Paragraph 26 to the -- out loud for  
5 everybody.

6 CHAIRMAN BURACK: Sorry. Just  
7 to be clear, you're in Exhibit 2, Public Counsel  
8 Exhibit 2?

9 MR. ROTH: That's correct.

10 CHAIRMAN BURACK: Thank you.

11 BY MR. ROTH:

12 Q. Can you read Paragraph 26?

13 A. (Freckler) Sure.

14 Q. Thank you.

15 A. (Freckler) "Fraser agrees to bear the cost of  
16 all long-term cap maintenance following the  
17 submission and final evaluation of the final  
18 revised post-clean-up report described in  
19 Paragraph 21. Fraser will also abide by any  
20 use restrictions, institutional controls and  
21 deed restrictions."

22 Q. Okay. And you're familiar with  
23 institutional controls and use restrictions  
24 in general as a --



1 A. (Freckler) Generally, yes.

2 Q. Okay. And now can you now turn to Page 8,  
3 Paragraph 39, and can you read the first  
4 sentence there.

5 A. (Freckler) Yes. "The provisions of this  
6 agreement shall apply to and be binding on  
7 the parties and Fraser's successive assigns  
8 from time to time, and any and all officers,  
9 directors, employees and agents of Fraser  
10 and its successive assigns from time to  
11 time."

12 Q. Okay. Now, as an engineer, in your  
13 understanding with respect to an assign of  
14 Fraser, would your understanding be that  
15 that assign would be required to maintain  
16 the cap and do monitoring in accordance with  
17 Paragraph 26?

18 A. (Freckler) With the qualification that I'm an  
19 engineer, not an attorney, that's my  
20 understanding.

21 Q. Okay. Do you know whether, in fact, this  
22 agreement was -- well, strike that. I'll  
23 just leave it at that. Thank you.

24 Now, the last one, this is Public

1 Counsel No. 3, captioned "Agreement for the  
2 Treatment of Dummer Yard Leachate." Are you  
3 familiar Dummer Yard?

4 A. (Freckler) Generally, yes.

5 Q. Can you show us on your plan where Dummer  
6 Yard is in relation to the project?

7 A. (Freckler) I believe that the Dummer Yard is  
8 the landfill that was located -- is  
9 located -- is that Dummer Yard that's  
10 located across the street? Or is that --

11 A. (Strickler) Yes.

12 A. (Freckler) No, I'm not entirely familiar with  
13 Dummer Yard, I guess.

14 Q. Okay. Are you familiar with the Dummer Yard  
15 leachate?

16 A. (Freckler) Only that I have heard of it.

17 Q. Okay. All right. I will stop there. Thank  
18 you. That's all I have on this particular  
19 subject. I will ask you more questions on  
20 other things, though. Thank you.

21 BY MR. BROOKS:

22 Q. Okay. The next questions are about  
23 sustainability. And if you want to turn to  
24 your Exhibit 60 --

1 A. (Freckler) Did you say 16?

2 Q. Six zero.

3 A. (Bravakis) Sustainability condition.

4 Q. Okay. And without revealing what may be  
5 confidential discussions, I just want to ask  
6 some questions about what counsel for the  
7 public might be looking for and your  
8 responses to those topics.

9 The one, if you look at Paragraph 4, it  
10 talks about an incentive program that will  
11 financially reward landowners. We  
12 appreciate this offer. We think it's a good  
13 thing. We are looking to see if you'd be  
14 willing to put an actual dollar amount on  
15 that fund so that we can -- you know, for a  
16 couple reasons: One, we want to know how  
17 valuable it's going to be; and two, we want  
18 to make sure that both of us can figure out  
19 whether you've actually met your  
20 obligations. So, is there a willingness to  
21 do that or to look at that possibility?

22 A. (Strickler) Yeah.

23 A. (Bravakis) Yes, sir.

24 Q. With respect to Paragraph No. 6, we would

1 prefer that preference actually be given to  
2 these people. In other words, we'd like to  
3 change it to say whenever possible, you will  
4 use these -- you know, someone certified or  
5 operating under one of those programs. And  
6 I don't know -- again, we're in discussions  
7 about this. I don't know if you can make  
8 the commitment. But I'd like to know about  
9 your willingness to explore how to make that  
10 have some teeth to it and actually use those  
11 individuals.

12 A. (Bravakis) We would be willing to explore  
13 that.

14 Q. The end of Paragraph 6 had a similar  
15 provision regarding an annual fund  
16 designated to help support suppliers. With  
17 this paragraph and with the next paragraph,  
18 Paragraph 7, we would be looking again to  
19 have some specific amount in the funds so  
20 that we can both, you know, know its value  
21 and to monitor that. Would you be willing  
22 to explore that as well?

23 A. (Bravakis) Yes, we would.

24 Q. I think that's all I have on the actual

1 sustainability agreement, other than some  
2 things we may discuss.

3 But actually, I do have a question  
4 about the LandVest item we spent a lot of  
5 time on before. We tried together to do  
6 some math. That didn't work out so well, so  
7 I won't ask you any more questions about  
8 adding things up.

9 But in general, the LandVest study, the  
10 numbers we were talking about came out to  
11 something like 6 million plus 750,000,  
12 somewhere in that range. Remind me, though.  
13 The actual use for the pulp mills that have  
14 now shut down and the other kind of users,  
15 wasn't that a much higher number than that  
16 previously? Wasn't it like 1.2 million or  
17 something like that --

18 A. (Bravakis) Yes, it was.

19 Q. -- in that range?

20 A. (Freyer) Exactly right.

21 Q. So why didn't the LandVest study come out  
22 with a number that reflected something akin  
23 to what the actual use had been before? One  
24 would expect that people who actually did

1           that previously, that there would be that  
2           availability. Do you know why there's a  
3           discrepancy between those?

4       A.    (Bravakis) My sense is that some of that  
5           wood -- LandVest looked at this --  
6           understand, LandVest's study was a  
7           high-level first filter for us, and it  
8           looked at a defined area. So my sense is  
9           that some of that wood came from outside of  
10          that defined area.

11                 As I have mentioned in my supplemental  
12           testimony, that as we -- excuse me -- as we  
13           learned more about how the wood, the  
14           movements in the markets work, we understand  
15           that some wood can come as close as 10, 15,  
16           20 miles from a facility, some wood can come  
17           as far as 200 miles from a facility, based  
18           on truck traffic patterns and the efficient  
19           use of trucks in relationship to where the  
20           different markets are.

21                 So the reason, my sense, is that  
22           LandVest didn't come back with that number  
23           exactly -- it would make sense that they  
24           would -- is because some of that wood

1           actually came from outside of that region.

2       Q.     So you put an artificial bound on a  
3           hundred-mile radius, or whatever it was that  
4           you did.

5       A.     (Bravakis) Yeah.

6       Q.     In reality, you think the economics of the  
7           operating pulp mills may have been such that  
8           they were able to get greater transport  
9           range outside a hundred miles?

10      A.     (Bravakis) Yeah.  What we've learned is that  
11           the realities of the market create  
12           amoeba-shaped wood sheds.  It's nice and  
13           neat to think of them all in circles, but  
14           that's not practical and that's not real.  
15           That some wood sheds -- I always think of it  
16           like pushing on a balloon or something,  
17           where you push one end in and it comes out  
18           the other, and you push that in and it comes  
19           out the other.  So, some facilities in  
20           Maine, for example, would probably come in  
21           and consume some of that wood that went to  
22           the Burgess Mill site.  When we come back,  
23           those mills, those facilities in Maine would  
24           probably realign with their existing wood

1 sheds before the departure of the Burgess  
2 Mill. So, although we'd like to think of it  
3 in circles, it's really more of  
4 amoeba-shaped in its dynamic. It's changing  
5 all the time.

6 BY MR. ROTH:

7 Q. I just have a couple follow-on questions to  
8 what Attorney Brooks was asking you.

9 Now, the 1.3 million tons that was  
10 consumed by the previous players is an  
11 interesting number, and I'm curious if you  
12 know where that number came from.

13 A. (Bravakis) It came from some interviews  
14 we've had and discussions with people in the  
15 area that are familiar with that, including  
16 some folks that actually procured fuel there  
17 and some people that are very familiar with  
18 the wood market in the area.

19 Q. So you don't have any documentation or sort  
20 of formal studies showing where that  
21 figure -- how that figure was derived?

22 A. (Bravakis) No.

23 Q. And do you know what period of time that  
24 that figure applied to?



1 A. (Bravakis) I believe it's the recent past,  
2 right before they shut down.

3 Q. And is it your understanding, in the recent  
4 past, right before they shut down, that wood  
5 use by the pulp facilities players in the  
6 North Country was -- would you describe it  
7 as an all-time high or an all-time low?

8 A. (Bravakis) I think it was -- and I'm trying  
9 to recall. I did get some information from  
10 UNH on this. I think it was neither of the  
11 two. I think it was somewhere in the  
12 middle.

13 Q. Okay.

14 A. (Bravakis) I could probably follow up with  
15 more information on that if you like.

16 Q. There was a comment that you made when you  
17 were being questioned by Attorney Rodier  
18 earlier that was interesting to me, and it  
19 was with respect to the 50-percent,  
20 70-percent issue. And what you said was  
21 that the wood cutters want to utilize  
22 everything they can to create more revenue  
23 for themselves. And as the markets show up,  
24 people come and supply them, no barriers to

1 entry. Would you -- and my understanding of  
2 what you were saying is that that pushes  
3 sort of the top -- or the collectors of the  
4 low-grade wood to collect more of it in more  
5 localized areas. Is that a fair  
6 characterization of what you said?

7 A. (Bravakis) I'm not sure that's -- maybe I'm  
8 not sure it would have to be necessarily  
9 localized. It would just be if there was a  
10 market, then they'd be able to utilize those  
11 tops and branches that they've been leaving  
12 in the woods. If they were closer,  
13 obviously, they have a competitive advantage  
14 because of less trucking costs. But it's a  
15 byproduct. It's a waste product of the  
16 logging operation that typically goes to  
17 biomass plants. Nobody goes into a timber  
18 harvest to cut the tops, nor do they take  
19 good-quality timber wood and make it into  
20 wood chips.

21 Q. But based on what you said, isn't it true  
22 that a person motivated by profit isn't  
23 going to leave half of the tops laying  
24 around on the forest floor? They're going

1 to scoop them all up and bring them to your  
2 mill.

3 A. (Bravakis) One would think so. But there  
4 are two things that also enter into play.  
5 When a timber sale is conducted, and  
6 especially with respect to what we're trying  
7 to propose in our sustainability provision,  
8 it's done under the guidance of a timber --  
9 of a forest -- a registered forester. And  
10 it's also done under the -- many times under  
11 a management plan or under some type of  
12 certification program that the land is  
13 involved in. So the timber -- the landowner  
14 is -- his motivation is to grow high-grade  
15 timber. His motivation is to grow veneer  
16 logs and not to grow tops and branches to  
17 sell to biomass plants. So it's  
18 counterintuitive for him to just  
19 over-harvest his land to sell to the lowest  
20 market. So that's -- there's more to it  
21 than the logger making those judgment calls  
22 on the land.

23 Q. But wouldn't you agree that there is an  
24 incentive for perhaps an unscrupulous logger

1 to buy land cheap, cut it all down, remove  
2 every stick, sell it and move on? Correct?

3 A. (Bravakis) I believe that some people would  
4 operate in that fashion.

5 Q. Okay.

6 A. (Bravakis) I would like to point out, if I  
7 may, that in our sustainability condition,  
8 we will not buy wood from suppliers who are  
9 found to be repeat offenders of state or  
10 federal laws governing timber harvesting.  
11 And if a logging contractor were in  
12 violation on numbers of occasions, he would  
13 not be or she would not be able to supply to  
14 our facility.

15 Q. Are you aware of any law that would prohibit  
16 a landowner from cutting every stick of wood  
17 off of his land --

18 A. (Bravakis) No.

19 Q. -- and bringing it to your mill and selling  
20 it to you?

21 A. (Bravakis) No.

22 Q. When you were talking about the amoeba and  
23 how the -- you were trying to explain to  
24 Attorney Rodier how it is that what looks

1           like sort of a minimally adequate amount of  
2           wood becomes bigger because of this market  
3           shift from the users in Maine who had kind  
4           of come in to take some of the market that  
5           used to belong to the Burgess Mill, if I'm  
6           characterizing this correctly. I'm curious  
7           as to what portion of this sort of market  
8           realignment you might attribute to a timber  
9           company moving from sort of 50-percent  
10          leave-behind, you know, increasing its share  
11          of wood that they deliver to you by leaving  
12          less on the ground. Do you have some sense  
13          for how much of your -- this improvement in  
14          the basket is going to come by more  
15          efficient delivery?

16        A.    (Bravakis) Yeah. It was actually in the  
17              addendum. That was what explained, I think,  
18              between the 6.7 and the 7.2 or 3 million  
19              tons a year.

20        Q.    Correct.

21        A.    (Bravakis) So, whatever that difference  
22              would have been. So, 600,000, 700,000  
23              additional tons might come in by better  
24              utilization, according to the LandVest

1 study.

2 Q. So, in fact, almost all of your timber need  
3 could come through better utilization.

4 A. (Bravakis) Conceivably it could by that  
5 analysis, yes.

6 Q. And how does that interplay with sort of  
7 this idea that the market shifts, because  
8 now you're using more of it locally, so the  
9 mill in Maine now has to go somewhere else?  
10 How that does that work?

11 A. (Bravakis) Well, it could also be that some  
12 low-grade material that's not going into  
13 pulping operations that are 50 miles away,  
14 for example, or on the other side of Berlin,  
15 it might make more sense for a forester or a  
16 logger, even though that stem is worth more  
17 in stumpage value, it might make sense  
18 because of the savings in trucking to chip  
19 that up and send that to our facility. And  
20 there are -- you know, one could say that a  
21 portion of the round wood pulp that  
22 currently goes to the pulp markets might get  
23 redirected to go to a biomass plant if there  
24 are efficiencies gained on the trucking.

1 Q. Okay. I'm going to ask you about the  
2 trucking efficiencies in a minute.

3 MR. ROTH: Do you want to move  
4 on to the contract, or should I continue?

5 MR. BROOKS: Yeah, if you  
6 think that's best.

7 BY MR. BROOKS:

8 Q. Yeah, I'll ask you a question about the  
9 Cousineau -- I don't know if you have a  
10 contract in place. I think you said that  
11 you don't yet, but you're working on it. Is  
12 that the -- how do you say that name and how  
13 do you -- spell it for me.

14 A. (Bravakis) Cousineau?

15 Q. Cousineau, yeah.

16 A. (Bravakis) C-O-U-S-I-N-E-A-U.

17 Q. You mentioned that this -- I believe that it  
18 was the intention to have that be your sole  
19 source contract for the next 20 years?

20 A. (Bravakis) Yes.

21 Q. And that Cousineau was probably the biggest  
22 wood supplier in New Hampshire, it sounded  
23 like.

24 A. (Bravakis) Not only -- yeah, in New

1 Hampshire. And they sell to other plants as  
2 well, but mostly -- they're located in New  
3 Hampshire.

4 Q. Do you know what percentage of the market  
5 share they have in New Hampshire, in terms  
6 of --

7 A. (Bravakis) I do not.

8 Q. -- wood share?

9 Do you think there's any kind of danger  
10 to the regional economy for an already big  
11 wood supplier to get a very large wood  
12 supply contract, in terms of competition or  
13 other kind of economic market reasons that  
14 might be detrimental?

15 A. (Bravakis) Yeah. I understand. That's a  
16 really good question. Cousineau doesn't  
17 produce wood chips. What they do is they  
18 contract -- they basically connect the dots  
19 between the myriad of suppliers and the  
20 markets that exist. So it's in their best  
21 benefit and our best benefit for them to  
22 contract with the area producers to supply  
23 the facility. That would be the first place  
24 they might want to look, and then, in



1 addition to that, take advantage of truck  
2 inefficiencies through backhaul for  
3 suppliers that are further away. So they  
4 don't -- there's no intent, and I don't  
5 think it's realistic to think that they  
6 would exclude any local contractor. Quite  
7 the contrary. We have maintained a position  
8 early on that the local contractor  
9 harvesting wood in a sustainable manner  
10 under management programs, et cetera, has a  
11 distinct competitive advantage over  
12 contractors that are further away, just by  
13 the location of our facility.

14 Q. Do you think that there is any risk to you,  
15 in terms of price, by locking into a  
16 long-term contract with one vendor instead  
17 of kind of spreading it out between a few  
18 vendors?

19 A. (Bravakis) The details on the pricing  
20 haven't been worked out. I think there  
21 could be a risk if that's not done properly.  
22 So we have not worked out all those terms  
23 yet, so I really can't answer that. But I  
24 think, done improperly, there could be a

1 risk.

2 Q. I think --

3 A. (Bravakis) I think -- if I may just add a  
4 little bit more?

5 Q. Sure.

6 A. (Bravakis) What the Cousineau commitment to  
7 this project means, it gives us some  
8 assurance that they, who are much more  
9 familiar with this market than we are, are  
10 convinced that there's enough wood out there  
11 so that they can supply the facility. And I  
12 think that's an important aspect of this  
13 arrangement: It creates certainty of  
14 supply. And they wouldn't do that unless  
15 they were convinced that the supply could be  
16 generated, that wood was available under the  
17 purviews of our sustainability, the  
18 direction we're going in sustainability,  
19 which they have reviewed and agreed to. I  
20 think that's important. I wanted to just  
21 get that on the record.

22 Q. Okay. And I would think that Cousineau  
23 would be able to manage their prices pretty  
24 well by using all the different resources

1 for the timber harvesting. It was more a  
2 question for the Applicant, in terms of -- I  
3 think you answered this -- which is,  
4 basically, if I don't know the contract  
5 payment terms, then I can't know what kind  
6 of security you have hedges against high  
7 prices. So without that, I guess we'll have  
8 to wait.

9 A. (Bravakis) That's right.

10 BY MR. ROTH:

11 Q. Does Cousineau manage the logistics of  
12 delivery and trucking?

13 A. (Bravakis) Yes.

14 Q. How much wood would a -- no. How much wood  
15 would the project have on hand on any given  
16 day?

17 A. (Bravakis) We have designed the plant to  
18 have a 30-day supply of wood on hand in our  
19 two storage areas. And that would be a  
20 combination of chipped wood and round wood.  
21 There could potentially be some off-site  
22 storage on yards, as I explained before.  
23 Logging contractors might not have chippers,  
24 so they would log and harvest round wood and

1 stockpile the tops and branches. And that  
2 could be sold or destined to come to our  
3 facility. So that could act as almost  
4 satellite storage areas in the forest to be  
5 utilized maybe during times of year when  
6 it's more difficult to get into the forest  
7 because of weather conditions.

8 Q. If Cousineau were to fail as a business  
9 enterprise and essentially go belly up --  
10 we've seen that happen -- where would that  
11 leave you?

12 A. (Bravakis) Well, we would -- what we would  
13 have to do is we would have to assume the  
14 contracts and the management roles that they  
15 have assumed -- as far as the supply I'm  
16 talking about. I'm not talking about the  
17 business aspects of it. I'll leave that to  
18 my business partners to talk about.

19 But with respect to the supply, we  
20 would assume and go in and connect with the  
21 contracts that they have made with their  
22 suppliers. We would look at the personnel  
23 that they have and either hire them or  
24 replace them, and take that over if we

1           couldn't find a suitable alternative to  
2           Cousineau.

3       Q.     That would be a pretty significant  
4           disruption, though, wouldn't it, if they --

5       A.     (Bravakis) It might, it might not. You  
6           know, I think once -- after all, remember,  
7           Cousineau does not cut the wood. They  
8           manage the process. So if we can assume  
9           that management and reconnect with all the  
10          existing suppliers -- who need that cash  
11          flow. They need that wood to go. So they  
12          need that market. Presumably, if Cousineau  
13          were to have financial difficulties, it  
14          wouldn't cascade down to the people who are  
15          supplying our facility through a Cousineau  
16          arrangement. So we would want to keep that  
17          going as -- keep that moving forward as  
18          seamlessly as we possibly could.

19       Q.     Are you structuring your agreement with  
20           Cousineau to provide for that kind of a  
21           reach-through?

22       A.     (Bravakis) I haven't. I can't speak to that  
23           because I haven't in detail reviewed the  
24           agreement. But as soon as we have it in a

1 form to share with you, we will. So...

2 BY MR. BROOKS:

3 Q. Just to clarify, previously you talked about  
4 Cousineau with respect to also providing  
5 wood to the Schiller plant. And I think we  
6 may have gotten a misunderstanding about  
7 that.

8 Cousineau isn't the only supplier of  
9 wood to Schiller; right? I mean, it sounded  
10 like at one point you were saying they were  
11 the sole supplier of --

12 A. (Bravakis) No, no. I believe they're --  
13 from what I understand, sometimes they  
14 supply 5 percent, sometimes 12 percent. But  
15 it's typically 10 percent or less of the  
16 supply to Schiller is supplied by Cousineau.

17 BY MR. ROTH:

18 Q. Wouldn't it be more prudent to have a  
19 variety of different procurers? I know, for  
20 example, there's one called North Country  
21 Procurement. Split it up, have your eggs in  
22 more than one basket, so to speak.

23 A. (Bravakis) Obviously, we've done our  
24 homework. We've looked and talked to

1 others. We felt this was the best pathway  
2 forward for the project. Unlike other  
3 providers of fuel, Cousineau actually takes  
4 title to the facility. They don't just take  
5 a margin or price of a delivery. They  
6 actually -- so they have more control over  
7 the supply. And what they do is they have  
8 numerous suppliers all over the place that  
9 they can direct to their clients, rather  
10 than arranging with one supplier to go to  
11 one client and they just take a piece of it.  
12 So if there's an over-supply here and an  
13 under-supply there, they're better equipped,  
14 from what I understand of their business  
15 model, to make those adjustments. And I  
16 think that, plus my personal knowledge of  
17 their ability to source and their  
18 relationships to get out there and find the  
19 wood, that was the reason for our selection  
20 with Cousineau.

21 Q. All right. You have in your testimony and  
22 today spoke of backhauling as kind of an  
23 expansion device of the ability to bring in  
24 wood from greater distances. What portion

1 of your wood supply do you think will be met  
2 by the use of backhaul?

3 A. (Bravakis) I really can't answer exactly how  
4 much. I do know this, though: From what I  
5 understand of the way the markets work  
6 nowadays, as opposed to when the markets  
7 worked when biomass plants were first built,  
8 that the trucks are under extreme pressure  
9 to maintain or keep margins. And to do  
10 that, they need to be -- they need to carry  
11 fuel. We've all seen trucks going to  
12 Canada. They're taking logs to Canada. And  
13 we don't know what they take going down. It  
14 could be finished lumber. So, trucks act  
15 as -- in this day and age, within the wood  
16 market in the northeast, trucks, and the  
17 efficient use of trucks, act as a vital link  
18 in making the connections.

19 And if I could point out, in my  
20 supplemental testimony I describe a  
21 situation where it was a hypothetical  
22 situation based on reality, as I understand  
23 it from talking to different folks in the  
24 industry, where trucks will bring finished



1           lumber, for example, or products from Canada  
2           down to the Metropolitan New York area, for  
3           example. They will then go to, on their way  
4           back, maybe go to the Catskills or some  
5           forests down in that area and bring logs  
6           back to the mills in Canada, because there  
7           aren't any mills down in that area. So now  
8           we've created a timber harvesting  
9           opportunity for that area which might not  
10          have had one before.

11                 Now, Maine takes -- a lot of times they  
12           take bark from Canada. And there's no bark  
13           markets in Maine, which come in different  
14           types of trucks for bulk delivery. They'll  
15           take that down to that same area and satisfy  
16           the market there, looking for a backhaul to  
17           go back. So, because there's a timber  
18           harvesting operation there, now the  
19           contractor can say, instead of leaving that  
20           low-grade either in stumpage form or in the  
21           woods, I can chip that up, load this truck  
22           up and sell it to a biomass plant in Maine.  
23           As ridiculous as it sounds, that's the way  
24           things move. So the truckers are a key

1 component in how wood moves throughout the  
2 northeast. And it's just one brief example  
3 of how dynamic the market is, from my  
4 understanding.

5 Q. I understand the concept. I'm trying to get  
6 at some of the specifics and what product  
7 from Berlin would be backhauled to other  
8 places that have forestry that would supply  
9 low-grade wood to your plant.

10 A. (Bravakis) Could be bark from mills that  
11 get -- that come in to Berlin or come off of  
12 debarking operations, let's say like a  
13 pellet operation, and we weren't burning it.  
14 Bark has a high-value use as landscape, not  
15 in the northeast, but around Metropolitan  
16 New York. It has a huge demand. Or around  
17 southeastern Massachusetts or the Boston  
18 area. A truck, a closed truck with a  
19 self-unloading floor could take bark down  
20 there, and then they're looking for a  
21 backhaul. So they want to bring something  
22 back. So they could contract with a local  
23 land-clearing operation, or the local  
24 utility who clears trees and rights-of-way,

1 and backhaul chips to the biomass plants.  
2 And that's typically the way it happens.

3 Q. But you don't have any -- there's no study  
4 or specifics that you have about how --

5 (Court Reporter interjects.)

6 Q. You don't have any studies or specifics  
7 about how that would actually work in  
8 practice for your facility?

9 A. (Bravakis) Not specifically. No studies,  
10 no. It's just discussions we've had.

11 Q. Now, you had named in your testimony four  
12 entities that were -- I think it was your  
13 assertion they were receiving wood by  
14 backhauls. Do you know how much wood  
15 they're receiving by backhaul?

16 A. (Bravakis) This is in my first testimony?

17 Q. I believe so.

18 A. (Bravakis) I believe there was, at that  
19 time -- I stand corrected. I thought it was  
20 somewhere around 50,000 tons or so.

21 Q. So, do you know what percentage of --

22 A. (Bravakis) That percentage of 750 would be,  
23 you know, less than 10 percent.

24 Q. So you think something like 10 or 15 percent

1 of your supply would come through backhaul?

2 A. (Bravakis) I'd like to answer that, but I  
3 think I really can't answer that until we  
4 understand and get a little closer to the  
5 time when actual contracts are going to be  
6 written with the suppliers and the plant  
7 will get fuel. It most likely won't be less  
8 than that. It could be more than that.

9 Q. Changing subjects somewhat now. Before  
10 lunch, Attorney Rodier was trying to get you  
11 to explain 6.1.2 of the PPA, and he stopped,  
12 to my surprise. I thought he was just about  
13 ready to get you to tell us what it means.  
14 And I guess I'd ask you if perhaps during  
15 lunch you thought about it and consulted  
16 with your team and maybe you could tell us  
17 now what that means, how that's supposed to  
18 work.

19 A. (Bravakis) Well, I can tell you this: The  
20 reimbursement he was referring to is not a  
21 reimbursement for the price we pay for fuel.  
22 The wood price adjustment has a connection  
23 with the amount of money we receive for  
24 electricity.

1 Q. And how does it work? Because there seems  
2 to be some relation to the price of fuel at  
3 Schiller.

4 A. (Bravakis) That's correct.

5 Q. Can you just sort of walk us through what --  
6 how that works?

7 A. (Bravakis) Well, you know, I would like to  
8 do that. I think what I would prefer to do,  
9 though, if it's -- in all due respect, is  
10 defer this question to my colleague, Michael  
11 Bartoszek, who was deposed on the PPA and  
12 the business matters, if I may.

13 Q. That's fine.

14 A. (Bravakis) Okay. Thank you.

15 Q. Now, this is a question for -- I guess the  
16 next line is for both you, Mr. Bravakis, and  
17 Mr. Frecker.

18 As I understand it, there's a  
19 significant amount of ashes that will be  
20 produced by the plant on a regular basis.

21 Is that fair to say?

22 A. (Bravakis) Yes.

23 A. (Strickler) Yes.

24 Q. And how much will there be? How much ashes

1 will be produced on a daily basis or a  
2 weekly, or whatever metric you want to do?

3 A. (Frecker) That issue was addressed a little  
4 bit more in the responses to one of the data  
5 requests from the technical session. I  
6 don't recall, right off the top of my head.  
7 But in that response, it indicated that the  
8 quantity of fly ash -- that is the ash taken  
9 out of the combustion area exhaust from the  
10 boiler, controlled by the electrostatic  
11 precipitator -- would be on the order of  
12 100 --

13 Q. You mean by that, the electrostatic  
14 precipitator that you're not using?

15 MR. BROOKS: You mean the  
16 baghouse.

17 A. (Frecker) I'm sorry. Thank you. The  
18 fabric-filter baghouse would be on the order  
19 of about 120 tons per week.

20 Q. And what are you going to do with that?

21 A. (Frecker) It was further indicated in one of  
22 those responses that there were discussions  
23 with the Androscoggin Valley Regional Refuse  
24 Disposal District, and their confirmation

1           that they had the capacity to accept that  
2           material at the Mount Carberry landfill.

3       Q.     Okay.  So you've already started contact  
4           with Mount Carberry to bury it up there.

5       A.     (Frecker) That's correct.  And furthermore,  
6           as I think was discussed at the technical  
7           session, a more favorable potential outcome  
8           for that material would be an alternative  
9           beneficial use for land supplement, land  
10          application material, as is often done with  
11          fly ash from biomass facilities from many  
12          generating facilities throughout the  
13          northeast.

14      Q.     How much ash will you store on the project  
15          site?

16      A.     (Frecker) I believe that the ash storage  
17          system, at least at the time the application  
18          materials were filed, hadn't been fully --  
19          it's designed and not been fully finalized.  
20          But I believe the number talked about was  
21          about a week's worth of ash generation.

22      Q.     And that will all be inside a structure, a  
23          building somewhere?

24      A.     (Frecker) That's correct.  It will be

1 contained within a silo.

2 Q. And where is that silo going to be located  
3 with respect to, for example, the  
4 Androscoggin River?

5 A. (Frecker) I don't believe the exact  
6 placement of that device has been finalized  
7 at this time; although, I think it could be  
8 reasonably expected to be located close to  
9 where the electrostatic precipitator  
10 building would be located.

11 Q. You mean baghouse?

12 A. (Frecker) This is the fuel oil tank --  
13 excuse me?

14 Q. The baghouse?

15 A. (Frecker) And initially it was talked about  
16 having that ash silo located between the  
17 boiler and the turbine building and the  
18 stack. Again, that location may alter some  
19 degree.

20 Q. And you said there would be, I think -- did  
21 you say there was going to be a week's worth  
22 in there at a time?

23 A. (Frecker) I believe that's the number that's  
24 been talked about.



1 Q. And would you -- and maybe this is for Mr.  
2 Bravakis or... would you agree to a  
3 condition that no ashes could be stored  
4 outside and that no more than a week's worth  
5 would be kept in the silo?

6 A. (Bravakis) I believe we can do that.

7 Q. That's all I have on this subject.

8 BY MR. BROOKS:

9 Q. I had a couple more questions on the PPA,  
10 but we'll defer them to Mr. Bartoszek.

11 A. (Bravakis) Thank you.

12 MR. IACOPINO: Before you do  
13 that, if I can just interrupt?

14 Am I to understand, though,  
15 that Mr. Bartoszek is the person who explanation  
16 of the PPA should be directed to?

17 MR. BRAVAKIS: Yes.

18 A. (Freckler) And if I may, Mr. Roth. If you'd  
19 like to go back to the Dummer Yard, I think  
20 I could probably answer your questions on  
21 that.

22 Q. (Roth) Oh, okay. The question I would ask  
23 is, does the project have any continuing  
24 responsibility with respect to the Dummer

1 Yard?

2 A. (Freckler) I don't believe that to be the  
3 case. I initially didn't recall the Dummer  
4 Yard because it's not a property that's  
5 really part of the project in any way.

6 As I understand the Dummer Yard, it's a  
7 closed portion -- it's a closed landfill  
8 located on or about the area of the Mount  
9 Carberry landfill. And the leachate from  
10 that Dummer Yard closed landfill is conveyed  
11 down to the wastewater treatment plant that  
12 formerly serviced the Fraser pulp mill. And  
13 that, I believe, is the subject of the  
14 document that you had provided. Inasmuch as  
15 the project has not acquired that wastewater  
16 treatment facility for any purpose, I  
17 wouldn't believe that the requirements of  
18 this document would extend to Laidlaw. It  
19 seems to address primarily the ongoing  
20 treatment of the Dummer Yard's leachate, in  
21 that wastewater treatment facility, which,  
22 to my understanding, is currently owned and  
23 operated by the same party that has  
24 responsibility for the Dummer Yard leachate,

1 the Androscoggin River Valley Regional  
2 Refuse Disposal District, if I'm not  
3 mistaken.

4 Q. I'm not sure about that, actually. But your  
5 testimony is that it's not going to be  
6 Laidlaw, the applicant's, responsibility.

7 A. (Frecker) That's correct.

8 Q. Where is the wastewater stream from the  
9 facility going to go?

10 A. (Frecker) To the City of Berlin municipal  
11 wastewater treatment plant.

12 Q. Okay. Now, Mr. Strickler, I've been trying  
13 to figure out what's going on with the  
14 reorganization and the new chart and how you  
15 fit in anymore. And it looks as though,  
16 from the new chart that was suggested, that  
17 Fibrowatt and Fibrominn are now more like,  
18 you know, ex-in-laws; whereas, before it  
19 appeared to be an equity interest in the  
20 project, now there's a dotted line  
21 connecting Homeland to the Applicant. Can  
22 you describe what happened there and what's  
23 supposed to happen?

24 A. (Strickler) What is supposed to happen --

1 MR. RODIER: Excuse me.

2 Excuse me, Mr. Chairman. Could we have a  
3 reference to an exhibit on that question so we  
4 can follow it?

5 CHAIRMAN BURACK: Thank you  
6 for that suggestion.

7 It would be helpful if you  
8 could provide a reference, Attorney Roth.

9 MR. ROTH: It's the new  
10 organizational chart that came, I think it was  
11 the August 16th --

12 MR. NEEDLEMAN: Exhibit 8.

13 MR. ROTH: Sorry?

14 MR. NEEDLEMAN: Exhibit 8.

15 MR. ROTH: Exhibit 8? Thank  
16 you.

17 CHAIRMAN BURACK: Exhibit 8  
18 you say, Attorney Needleman?

19 MR. NEEDLEMAN: I believe so.

20 BY MR. ROTH:

21 Q. And I guess at the same time I'd like to  
22 look at the original org chart which was  
23 attached to the initial testimony of Mr.  
24 Bartoszek.

1 MR. IACOPINO: The initial  
2 testimony of Mr. Bartoszek is Exhibit 33, and  
3 that chart is there.

4 BY MR. ROTH:

5 Q. Do you have these in front of you?

6 A. (Strickler) I do.

7 Q. Now, it looks -- it's the last page of -- it  
8 would be Page 9 of Mr. Bartoszek's original  
9 testimony, and it stands by itself on the  
10 other one. Okay.

11 In the original organizational chart,  
12 we see on the right there Fibrowatt, and  
13 Fibrowatt operations owning 100 percent of  
14 Homeland Renewable. Homeland Renewable and  
15 Laidlaw BioPower owning together all of  
16 Homeland and Laidlaw Energy, which had  
17 50 percent of the Applicant; correct?

18 A. (Strickler) That's correct.

19 Q. Now, if you look at the new chart, the only  
20 connection between Homeland Renewable is a  
21 dotted line between Laidlaw Berlin BioPower,  
22 LLC. What does that dotted line represent?

23 A. (Strickler) That represents an agreement  
24 with NewCo to provide services to the

1 Applicant, O & M -- operations and  
2 maintenance services -- construction  
3 management and development services.

4 Q. Okay. And is that alongside of or on top of  
5 the Babcock & Wilcox agreement?

6 A. (Strickler) With respect to construction, it  
7 would be -- we'd be overseeing the  
8 construction and the contract with B & W.

9 Q. And now, initially you had -- I say you. I  
10 mean, you know, Fibrowatt and Homeland had  
11 an ownership interest. And that's been  
12 bought out?

13 A. (Strickler) No, I wouldn't say it was bought  
14 out. But it has been severed. There is  
15 no -- we no longer will have an equity  
16 interest in the Applicant.

17 Q. Okay. And will -- if Laidlaw decides they  
18 don't want to listen to you anymore, could  
19 they fire you? Could the Applicant fire  
20 Homeland?

21 A. (Strickler) Under a contractual arrangement  
22 that we would have with NewCo providing  
23 those services, I suppose that relationship  
24 could be such that we could be terminated.

1 Q. So is the contract going to be with NewCo,  
2 or is it going to be with --

3 A. (Strickler) It's a contract with NewCo, but  
4 we're providing services to the Applicant.

5 Q. So this org chart is not -- the second one,  
6 the new one, is not really complete, because  
7 to me it raises the implication or implies  
8 that the relationship between Homeland  
9 Renewable is just with Laidlaw Berlin  
10 BioPower. For example: If you look at PJPD  
11 Holdings and the lease to Laidlaw, there's a  
12 nice dotted line across there showing the  
13 contract. But there's no line like that  
14 between Homeland and NewCo. Do you have any  
15 ownership interest in NewCo?

16 A. (Strickler) No, we do not.

17 Q. Or PJPD?

18 A. (Strickler) No.

19 Q. Okay.

20 MR. RODIER: Mr. Chairman,  
21 excuse me. I hate to do this. I didn't  
22 understand. I think it's important to understand  
23 what the pronoun "we" refers to there. Could we  
24 just get a clarification on that? Is it do you

1 have any ownership interest, or we don't? And  
2 there's so many entities here. I may be out of  
3 line, but I would suggest we get that clarified  
4 so the record's clear.

5 CHAIRMAN BURACK: Thank you,  
6 Attorney Rodier.

7 Attorney Roth, do you wish to  
8 try to get clarification here?

9 BY MR. ROTH:

10 Q. If you'd like to -- if there's any way you  
11 can shed any light on that, I'd appreciate  
12 that.

13 A. (Strickler) Well, I'm not a hundred-percent  
14 sure exactly the question. But if I may,  
15 I'll try. We do not -- Homeland Renewable  
16 Energy or Fibrowatt operations do not have  
17 ownership interest in NewCo.

18 Q. Or you personally?

19 A. (Strickler) No, I do not.

20 Q. Okay. And are you an officer or director of  
21 any of those other entities?

22 A. (Strickler) Of Homeland Renewable Energy and  
23 Fibrowatt Operations, I am.

24 Q. But not of NewCo or --



1 A. (Strickler) No, I'm not.

2 Q. Now, I understand that the ownership-change  
3 arrangement has not yet occurred. Is that  
4 your -- is that correct?

5 A. (Strickler) That is correct.

6 Q. Okay. And when do you expect that to  
7 happen?

8 A. (Strickler) I'm not a hundred-percent sure.  
9 But tomorrow, Mike Bartoszek, I think  
10 will -- could be questioned more on the  
11 details of that transaction.

12 Q. Okay. Now, do you expect -- going more now  
13 towards operational and management. Do you  
14 live in New Hampshire now?

15 A. (Strickler) No, I do not.

16 Q. Are you going to move here?

17 A. (Strickler) No, I'm not.

18 Q. How about --

19 A. (Strickler) If I might clarify that?

20 Q. Sure.

21 A. (Strickler) Okay. What we typically would  
22 have is a plant manager who would be  
23 responsible for the day-to-day operations of  
24 the facility. He would report to our VP of

1 operations that works for me. But the plant  
2 manager who has the responsibility for the  
3 day-to-day operations of the plant will be  
4 based in New Hampshire.

5 Q. Is that going to be Mr. Fervee or  
6 Mr. Loulakis?

7 A. (Strickler) No.

8 Q. No?

9 A. They are -- they'll provide assistance, you  
10 know, to us in any matter related to the  
11 project. But they would not -- I would not  
12 expect them to be the plant manager.

13 Q. And they're not -- are they going to live in  
14 New Hampshire or move to -- do they live  
15 here now? Are they going to move here?

16 A. (Strickler) I don't know.

17 Q. Now, with respect to operations at  
18 Fibrominn -- and, you know, please don't  
19 take this the wrong way -- but are there --  
20 have there been any deaths or serious  
21 injuries in the operation of the Fibrominn  
22 facility in Minnesota?

23 A. (Strickler) No.

24 Q. How long has that been in operation?

1 A. (Strickler) We took over control from the  
2 contractor in October of 2007. Since that  
3 time, we've had no lost-workday cases. So  
4 it's over a thousand days that we've had no  
5 lost-workday cases.

6 Q. Has there been any downtime in the plant  
7 itself -- that is, out of operation because  
8 of management or technical difficulties,  
9 please stand by?

10 A. (Strickler) Well, these plants are very  
11 complex. They do go down for maintenance.  
12 Equipment does break down, has to be -- they  
13 go down for servicing of the facility. That  
14 does happen.

15 Q. And do you know what percentage of the time  
16 has been in downtime or out of operation, I  
17 suppose off-line?

18 A. (Strickler) The facility in Benson,  
19 Minnesota you're referring to?

20 Q. Correct.

21 A. (Strickler) We have projected a capacity  
22 factor this year of around 85 percent. So  
23 that would give you an indication of its  
24 production.

1 Q. And that capacity factor -- I always get  
2 confused on this -- does that include  
3 planned outages?

4 A. (Strickler) Yes, it does. That's including  
5 planned and unplanned, yes.

6 Q. So the 15 percent of theoretical  
7 non-operation includes the planned outages?

8 A. (Strickler) It's probably about 50/50 for  
9 that facility. I might add, the Fibrominn  
10 facility burns primarily poultry litter,  
11 which is a much more difficult fuel to  
12 manage than wood chips. And I would expect  
13 the Berlin facility to be a much, you know,  
14 higher capacity factor.

15 Q. Okay. Now, in Mr. Bartoszek's -- I'm sorry  
16 if I'm mispronouncing his name -- testimony,  
17 he said that the development and  
18 construction is the Applicant and Homeland.  
19 I guess I'd ask you. Who does what?

20 A. (Strickler) Refer me to the words he used.  
21 Do you have a page that... I probably should  
22 let you ask him that question.

23 Q. Well, if you can just answer the question.  
24 Is it your -- here, I'll ask it this way:

1 Is it your understanding that the  
2 development and the construction of the  
3 plant is sort of a shared enterprise or a  
4 shared activity between you and the  
5 Applicant, between Homeland and the  
6 Applicant?

7 A. (Strickler) The development was shared. The  
8 role for Homeland would be to oversee the  
9 construction of the project, irrespective of  
10 the ownership change that's been discussed.

11 Q. So you're going to --

12 A. (Strickler) Either way, we were going to be  
13 involved under the construction, for  
14 overseeing the construction, reporting to  
15 previously -- or under the current  
16 situation, to the Applicant.

17 Q. So you're sort of operating as general  
18 contractor for the owner of the  
19 construction?

20 A. (Strickler) Wouldn't call it a general  
21 contractor arrangement. It's really an  
22 oversight role, overseeing the construction  
23 of the project, you know, managing the EPC  
24 contract with B & W, as well as any other

1 construction-related activities that  
2 might -- that aren't within the B & W scope,  
3 peripheral to the site.

4 Q. And after construction, during operational,  
5 is that going to be Homeland again, or is  
6 that --

7 A. (Strickler) Be a Fibrowatt operation, which  
8 is Homeland.

9 Q. Okay. Unless, of course, as we discussed a  
10 minute ago, they terminate the contract  
11 according to its terms.

12 A. (Strickler) Yeah.

13 Q. Okay. And who's going to have sort of the  
14 contracting power, the signing authority for  
15 different things? For example: The Babcock  
16 & Wilcox contracts. Is that going to be  
17 something Fibrowatt signs or Homeland or --

18 A. (Strickler) Probably be the Applicant.

19 Q. The Applicant? What's your time line for  
20 sort of completing construction and placing  
21 in service?

22 A. (Strickler) Right now, we're looking at  
23 between a 26- and 32-month construction  
24 period. That includes all the way to what

1 I'll call commercial operations. It  
2 includes the testing and commissioning of  
3 the facility as well.

4 Q. Do you have sort of a place-in-service date  
5 picked or envisioned?

6 A. (Strickler) Well, it would be -- not yet. I  
7 mean, it would be somewhere in that range.  
8 Once we complete the work that B & W is  
9 undertaking now under the pre-EPC contract,  
10 we plan to formulate that with very specific  
11 dates.

12 Q. And are there any sort of hazards, if you  
13 will, that could cause significant delays in  
14 the place-in-service?

15 A. (Strickler) Not -- only something that would  
16 be unforeseen. You know, some odd weather  
17 event or something like that.

18 Q. Okay.

19 A. (Strickler) I mean, it would be unforeseen  
20 circumstances that possibly could come up.

21 Q. And are you familiar with the ARRA  
22 guidelines for the investment tax credit?

23 A. (Strickler) I'm not sure that I know that  
24 term. If you describe the guidelines, maybe

1 I can --

2 Q. It's the program where once a property is  
3 placed in service, the owner is entitled to  
4 a tax credit payment.

5 A. (Strickler) Oh, okay. Yeah. Sure. The  
6 ARRA was the word that I was wasn't familiar  
7 with.

8 CHAIRMAN BURACK: Could you,  
9 just for the record, describe what ARRA is,  
10 Counsel? Could you spell it?

11 MR. ROTH: A-R-R-A.

12 A. (Bravakis) Yeah, it's the American  
13 Recovery --

14 A. (Freckler) Reinvestment and Recovery Act.

15 A. (Strickler) Yes, I am familiar with that.  
16 Now I got it.

17 Q. Have you looked at the guidelines that --

18 A. (Strickler) I have, and several other people  
19 on this project team have looked at it.  
20 Yes.

21 Q. And do you know what you have to do to be  
22 able to participate in that program?

23 A. (Strickler) There's a number of different  
24 ways to participate in that program, various



1 ways to comply with the requirements.

2 Q. And do you have a vision for how you're  
3 going to do that?

4 A. (Strickler) Ideally, we'd start  
5 construction. That would be the first, you  
6 know, before the end of this year. That's  
7 our plan.

8 Q. Yeah, that's a milestone; right?

9 A. (Strickler) That's our plan. But there are  
10 other ways to still comply. If you look  
11 through those requirements, there's other  
12 ways to comply still, even if you don't  
13 start construction. So we're looking at  
14 these alternatives as well, just as a  
15 Plan B.

16 Q. Okay. All right. There was one more  
17 question I wanted to ask Mr. Bravakis. As  
18 sort of kind of a follow-up to our  
19 discussion a minute ago about the  
20 sustainability. And our sense, I think  
21 we -- you agreed that there is some  
22 incentive for an unscrupulous, you know,  
23 timber owner to kind of work the property as  
24 hard as he can in order to get as much wood

1 to the facility as possible; correct? I  
2 mean, I think that was pretty clear. And  
3 the sustainability rules or the  
4 sustainability condition, would you agree  
5 that that's kind of an important modifier of  
6 that market tendency?

7 A. (Bravakis) Hmm-hmm.

8 Q. And so that as a condition to this, it's an  
9 important thing to do, to have a  
10 sustainability condition.

11 A. (Bravakis) Hmm-hmm. Yes.

12 CHAIRMAN BURACK: I'm sorry.  
13 The answer is yes?

14 MR. BRAVAKIS: Yes.

15 MR. ROTH: I'm all set.

16 Do you have anything else?

17 MR. BROOKS: I don't believe  
18 we have any further questions for this panel.

19 CHAIRMAN BURACK: Okay. Thank  
20 you.

21 We're going to take a  
22 10-minute recess here. And when we return, we  
23 will commence questioning by the members of the  
24 Subcommittee of the panel.

1 MR. RODIER: Mr. Chairman, may  
2 I ask one question? Do you anticipate any  
3 offering of an opportunity for redirect or any  
4 recross?

5 CHAIRMAN BURACK: I think  
6 we'll see what folks are asking to be able to do,  
7 and we'll see if we can accommodate that or not,  
8 okay.

9 We'll take a 10-minute recess.

10 (Whereupon a recess was taken at 3:05  
11 p.m., and hearing resumed at 3:25 p.m.)

12 CHAIRMAN BURACK: Ladies and  
13 gentlemen of the jury, we will resume here. And  
14 before we turn to some questions from members of  
15 the Subcommittee, I have a question for Attorney  
16 Needleman.

17 Do you have a motion or  
18 motions that you wish to make at this time  
19 relating to the Babcock & Wilcox agreement and  
20 the Cousineau agreement? Do you wish to address  
21 those at this time?

22 MR. NEEDLEMAN: Yes, I do.  
23 Thank you.

24 Those are documents, as I

1 indicated, that we expect to be providing.  
2 Portions of those agreements do contain  
3 confidential terms, and we would ask that the  
4 Committee agree, consistent with how it's treated  
5 our confidential documents in this matter, to  
6 also treat those documents confidentially in the  
7 same way.

8 CHAIRMAN BURACK: Do you  
9 intend to make a written motion to this effect,  
10 or do you want to put on the record now the  
11 rationale that you would have for treating those  
12 documents confidentially, understanding that we  
13 have to meet a balancing test, as I think you  
14 know, in order to be able to treat a document as  
15 confidential?

16 MR. NEEDLEMAN: I think for  
17 purposes of expediting this proceeding, what I'd  
18 rather do now is make the oral motion and put  
19 that on the record, if I may.

20 CHAIRMAN BURACK: Okay. And  
21 you will Subcommittee written motion setting  
22 forth, in particular, your detailed reasoning why  
23 these documents contain confidential information?

24 MR. NEEDLEMAN: Yes.

1 CHAIRMAN BURACK: Okay. And  
2 we'll --

3 MR. BROOKS: Mr. Chairman --  
4 I'm sorry.

5 CHAIRMAN BURACK: We will  
6 receive that from you tonight or by tomorrow  
7 morning?

8 MR. NEEDLEMAN: I would expect  
9 by tomorrow morning.

10 CHAIRMAN BURACK: Okay. Thank  
11 you.

12 MR. ROTH: I just wanted to  
13 confer with Attorney Needleman for a moment about  
14 another document.

15 CHAIRMAN BURACK: We'll just  
16 take a pause for a moment.

17 (Discussion off the record between  
18 counsel.)

19 CHAIRMAN BURACK: Okay.  
20 Attorney Needleman, do you have something  
21 further?

22 MR. NEEDLEMAN: Yes. I just  
23 want to clarify. There are two documents we're  
24 talking about. With respect to the pre-EPC

1 contract, we will be asking that that be treated  
2 confidentially by the Committee, but we will --  
3 we'll be comfortable with certainly all members  
4 of the Committee and any parties to this  
5 proceeding -- any parties, I think, except CPD --  
6 having access to that. And we have discussed  
7 that, I understand, with CPD's counsel, and I  
8 believe they agreed to that.

9                   With respect to the Cousineau  
10 wood supply agreement, we will be seeking  
11 confidential treatment for portions of that  
12 document, primarily related to confidential  
13 commercial business information. And we will  
14 submit that in redacted form. And subject to  
15 those redactions, I think we would be comfortable  
16 with any parties to the proceeding having access  
17 to that document.

18                   And, as indicated, we will be  
19 submitting a written document. But the basis for  
20 us seeking confidentiality will be similar, if  
21 not identical, to the basis we have articulated  
22 with other documents in this proceeding: Relying  
23 on the exclusions in the New Hampshire Right To  
24 Know Law that protect from public disclosure

1 documents containing sensitive commercial and  
2 financial business information.

3 CHAIRMAN BURACK: Okay. Thank  
4 you. Just to clarify, you're anticipating, then,  
5 your written motion would, under the terms that  
6 you've described, provide access to these  
7 documents to various parties to this proceeding,  
8 but not to members of the public; is that  
9 correct?

10 MR. NEEDLEMAN: That's  
11 correct.

12 CHAIRMAN BURACK: Okay. Thank  
13 you. We will take your motion, your oral motion  
14 under advisement, and we will rule upon it once  
15 we've received your written motion tomorrow  
16 morning.

17 MR. NEEDLEMAN: Thank you.

18 CHAIRMAN BURACK: I might say  
19 that my anticipation is that the Subcommittee  
20 will schedule a portion of this hearing to be a  
21 closed session solely to the parties entitled to  
22 see and review these various confidential  
23 documents. At this point, my sense is that this  
24 could possibly occur as early as tomorrow

1 afternoon. More realistically, it's probably  
2 going to be Wednesday or Thursday. And so I  
3 would simply ask, Attorney Needleman, that you  
4 ensure the availability of any of the parties or  
5 any of your client's principals to be here during  
6 those periods of questioning as well.

7 MR. NEEDLEMAN: Understood.

8 CHAIRMAN BURACK: Okay.

9 Attorney Needleman, I'm also going to make the  
10 request -- and Mr. Bravakis made reference to the  
11 availability earlier of one or more of the  
12 LandVest study authors. I'm going to request  
13 that you make that individual or individuals  
14 available to the Subcommittee for direct  
15 questioning.

16 MR. NEEDLEMAN: We have been  
17 in contact with somebody from LandVest and expect  
18 to have them here tomorrow for questioning.

19 CHAIRMAN BURACK: Okay. If  
20 you would kindly let Attorney Iacopino know who  
21 that individual or individuals would be and when  
22 you would expect them to be available, that would  
23 be helpful.

24 I'm going to start with an



1 additional set of requests here of the Applicant  
2 that I think would be most helpful for us to  
3 receive prior to our taking Mr. Bartoszek's  
4 testimony and having him cross-examined by the  
5 parties and questioned by the Subcommittee. And  
6 this is my list of requests at this moment. If  
7 you see any aspects of this to be problematic,  
8 please let me know. But there have been, as you  
9 know, some not insignificant changes to the  
10 corporate structure and ownership relationships  
11 here and responsibilities of the entities as  
12 compared with what was originally submitted to  
13 the Committee. So I'm going to ask you to  
14 provide the following: First, the names and  
15 titles of all of the officers or directors or  
16 other principal employees of each of the entities  
17 listed on the organizational chart that appears  
18 at Exhibit 8, your Exhibit 8, Attorney Needleman.  
19 So I see a total of six different entities listed  
20 there.

21                   Second, would you please  
22 provide us with the names and titles of all of  
23 the -- I believe these are all LLCs, with one  
24 exception, one being a corporation -- so with

1 respect to all the LLCs, the names of the members  
2 and the managing members; and with respect to the  
3 corporation, which is Homeland Renewable Energy,  
4 Inc., all the members of their board of  
5 directors.

6                   Would you also please provide  
7 us with a written description of each entity's  
8 role with respect to this project, as well as a  
9 written description of the lines of authority and  
10 reporting among and between these various  
11 entities.

12                   Next, I would ask you to  
13 provide us with a written description of the  
14 experience and qualifications of each entity as  
15 they would relate to this proposed project. I  
16 recognize that for some of these entities you may  
17 have already provided this, but for others you  
18 have not. It'd be most helpful to the Committee  
19 if you could put this all together for us in one  
20 package.

21                   Next, could you please  
22 identify for us whether any of these entities are  
23 publicly traded, Attorney Needleman. I don't  
24 know if you know the answer to that question,

1 right offhand.

2 MR. NEEDLEMAN: Somebody will  
3 quickly correct if I'm wrong from the back, but I  
4 don't believe any of the entities listed on the  
5 organizational chart on Exhibit 8 are publicly  
6 traded companies.

7 CHAIRMAN BURACK: Okay. That  
8 being said, are the owners or shareholders of any  
9 of these entities publicly traded companies?

10 MR. NEEDLEMAN: I'm not  
11 certain. But I can get you that answer pretty  
12 quickly, I think.

13 CHAIRMAN BURACK: Okay. I  
14 would appreciate it if you would. My  
15 understanding, but perhaps this is not accurate,  
16 is that NewCo Energy, LLC is owned in whole or in  
17 part by a publicly traded company, which I  
18 believe has been identified in some of the  
19 documents as LLEG? But I may be mistaken about  
20 that.

21 MR. NEEDLEMAN: That is not  
22 correct, no.

23 CHAIRMAN BURACK: Okay. Now,  
24 I know that my understanding is that, prior to

1 just within the past couple of weeks or so, you  
2 have been in touch with counsel for the  
3 Committee -- for the Subcommittee, informing them  
4 of this -- informing us of this change in the  
5 ownership structure. My understanding is that  
6 there were some issues relating to being able to  
7 disclose information prior to some kind of a  
8 public filing. Am I misunderstanding things?  
9 Can you clarify for us what the ownership  
10 relationship is between NewCo Energy and an  
11 entity that would require some kind of a public  
12 filing?

13 MR. NEEDLEMAN: Yes. If you  
14 look at Exhibit 33, the last page, No. 9.

15 CHAIRMAN BURACK: This is  
16 Exhibit 1 to the testimony of Michael Bartoszek?

17 MR. NEEDLEMAN: Correct.

18 CHAIRMAN BURACK: Yes.

19 MR. NEEDLEMAN: The publicly  
20 traded entity is at the top of that chart,  
21 Laidlaw Energy Group, Inc., which at this moment  
22 continues to have an ownership interest in the  
23 Applicant. It is contemplated that once this  
24 transaction goes forward, it will no longer have

1 that ownership interest, and so the publicly  
2 traded company has no connection to the proposed  
3 new owner of the facility. And so at the time  
4 that we were sharing this information, the  
5 sensitivity with respect to making that  
6 information public pertained to that publicly  
7 traded company. It had nothing to do with the  
8 new owner.

9 CHAIRMAN BURACK: Okay. And  
10 so that the new owner is NewCo Energy, LLC.  
11 That's the proposed new owner; correct?

12 MR. NEEDLEMAN: Correct.

13 CHAIRMAN BURACK: All right.  
14 Can you, or is Mr. Bartoszek going to be in a  
15 better position to answer this question as to  
16 what the timing of that transaction is  
17 anticipated to be?

18 MR. NEEDLEMAN: I can give you  
19 the general contours right now.

20 CHAIRMAN BURACK: If you  
21 would, please.

22 MR. NEEDLEMAN: It was our  
23 desire to do everything we could to try to  
24 consummate that transaction before this hearing

1 began, and we have been working aggressively to  
2 do that. We have not succeeded. We are  
3 continuing to work aggressively on that  
4 transaction in hopes of finishing it as soon as  
5 possible. But I can say, with a high degree of  
6 comfort, that it is the intent of both parties  
7 and the goal of both parties to have that  
8 transaction consummated on or before August 31st.

9                   CHAIRMAN BURACK: Thank you.  
10 Having said that, it would still be very helpful  
11 to us to have information relating to Laidlaw  
12 Energy Group, the same basic information that we  
13 requested of these other entities, and to have  
14 information -- if this is a publicly traded  
15 company, if you have copies of their annual  
16 reports for the past several years, if you're  
17 able to provide those to us, say for the past  
18 four to five years; as well as if there have been  
19 any filings with the Securities and Exchange  
20 Commission by Laidlaw Energy Group within the  
21 past year, if you can provide us with copies of  
22 those as well, please.

23                   MR. NEEDLEMAN: I will look  
24 into that. I don't know, as I sit here, what, if

1 anything, is available pertaining to those. But  
2 we will look into that. I will also note that  
3 they were contained in that original  
4 organizational chart. And I don't recall, off  
5 the top of my head, but I believe some  
6 information was provided in the original  
7 application pertaining to that.

8 CHAIRMAN BURACK: Thank you.

9 Okay. Going to now open this  
10 up to members of the Subcommittee to ask  
11 questions of this panel. As you will understand,  
12 I'm going to ask the Subcommittee members to hold  
13 any questions they might have at this time  
14 relating to any of the confidential documents or  
15 confidential aspects of documents which we have  
16 public, redacted versions. But otherwise, we  
17 will, as I said, now take questions from members  
18 of the Subcommittee of these panelists. And who  
19 would like to start? You want to start, Mr.  
20 Harrington?

21 EXAMINATION

22 BY MR. HARRINGTON:

23 Q. I'm just going to address my questions to  
24 the group, and whoever's the most

1 appropriate person can answer.

2 You included in one of your filings  
3 some information on a study that was done by  
4 Massachusetts on whether or not biomass is  
5 to be considered a renewable power supply --  
6 my understanding is there was some  
7 misstatements taken out from that report,  
8 taken out of context -- but that  
9 Massachusetts is in the process of drawing  
10 up new, more restrictive rules on whether  
11 they -- what types of biomass plants they  
12 would honor as part of their REC system for  
13 the renewable power. And maybe this gets  
14 into the Purchase Power Agreement. I'm just  
15 not sure. So if it does, we can leave it go  
16 until then.

17 But if Massachusetts were to put out  
18 rules that would not qualify your plant for  
19 renewable certificates issued in  
20 Massachusetts, and since they have  
21 48 percent of the New England market, what  
22 would be the effect economically on the  
23 Laidlaw project?

24 A. (Bravakis) I can answer this one. I don't



1 believe it will affect our project, because  
2 my understanding is that PSNH is going to be  
3 using the RECs from our facility to satisfy  
4 their obligation under the New Hampshire  
5 RPS, which is not subject to any rules or  
6 regulations promulgated in the Commonwealth  
7 of Massachusetts.

8 Q. And maybe I'll leave questions on pricing on  
9 that to go to later then.

10 We kind of mentioned this idea of the  
11 ownership structure, but we need a little  
12 bit more information.

13 One of the things that kept coming up  
14 in the earlier testimony is the 6 tons of --  
15 or 6 million tons of biomass and then the  
16 addition of 750,000 or more to feed the  
17 Laidlaw facility. When was that six -- I  
18 couldn't get this straight. The 6 million  
19 tons, was that with the three or four mills  
20 up and running, or was that after they  
21 closed?

22 A. (Bravakis) After they closed.

23 Q. So it was after they closed.

24 Okay. And you had stated in a few

1 places whole tree chips and that most of  
2 this was coming out of what would otherwise  
3 be waste wood. So the way this would work  
4 is, an assumption on my part, people cutting  
5 down trees, if there's any value to the  
6 trees for lumber or pulp, I guess, they  
7 would sell them there because they'd get a  
8 higher price than they would for just  
9 burning them?

10 A. (Bravakis) Correct.

11 Q. So they go for that for that reason. Okay.

12 Another question here. And I know the  
13 interconnection agreement is confidential,  
14 but I don't think this part of it is.

15 Throughout the document you talk  
16 about -- it mentions a 70-megawatt facility.  
17 Looking at that, the gross turbine output is  
18 65.9. And then you take off the service  
19 load, 7.2 megawatts. And so your net output  
20 is somewhere in the high 50s? Is that the  
21 correct numbers?

22 A. (Strickler) The gross is a little over 70.  
23 And after you use the parasitic loads, we  
24 bring it down to 63 net.

1 Q. Well, maybe when we get into the  
2 interconnection agreement, then we get into  
3 the specifics, because that doesn't seem to  
4 match with what's there. So...

5 There's going to be some further  
6 testimony given on this, I believe, the  
7 whole idea of how much can Coos Loop hold.  
8 And I know you connected under the minimum  
9 interconnection standard; is that correct?

10 A. (Strickler) Yes.

11 Q. So there's no assurance that your power can  
12 or will be delivered. There's -- put it  
13 this way: If the Noble Wind project is up  
14 and running, if the other proposed plant,  
15 biomass plants are built, the existing  
16 plants are running, would there be times, to  
17 the best of your knowledge, when Laidlaw  
18 cannot be dispatched at a hundred percent  
19 simply due to the line being full, the  
20 transmission line being full, if in fact you  
21 weren't the lower-priced one.

22 A. (Bravakis) You know, I would like to answer  
23 that, but I'm afraid that I'm not the key  
24 person. I want to defer to my colleague,

1 Ray Kusche, when he testifies. He's been  
2 responsible for all our interconnection, ISO  
3 relations, et cetera, if that's acceptable  
4 to you.

5 Q. Sure. And maybe this -- I'm not sure. One  
6 of these gentlemen was talking on  
7 environmental things. Now, I know you had  
8 the best available technologies specified in  
9 your air permit. But there's also been some  
10 proposed new regulations that I believe  
11 would affect biomass plants, proposed by the  
12 EPA, and with statements from -- and this is  
13 not going to be an exact title, but someone  
14 like the president of the American Biomass  
15 Power Association or something to that  
16 effect, saying that these new RECs could  
17 raise havoc on biomass generating  
18 facilities, and, in fact, could shut some of  
19 them down.

20 Is your plant going to be able to  
21 comply, or is it being built to comply with  
22 those new regulations? Or are you just  
23 going to wait and see until they become  
24 final?

1 A. (Frecker) I believe the regulations that  
2 you're referring to are the maximum  
3 achievement control technology standards for  
4 biomass generating facilities, of which EPA  
5 has a proposed rule out and is still in the  
6 process of working towards finalizing that  
7 rule.

8 Q. That's correct.

9 A. (Frecker) What it will look like in its  
10 final form we're not yet sure. And, given  
11 that this project is still finalizing its  
12 design and development, there are  
13 opportunities to further enhance the  
14 emission controls, if that would be  
15 necessary. But we don't know the answer to  
16 that yet. But we suspect that we could deal  
17 with it.

18 Q. So you would see the resulting outcome, and  
19 then if you have to make changes, you'd make  
20 them at the time, assuming that you hadn't  
21 put any --

22 (Court Reporter interjects.)

23 Q. You would just wait to see what happened and  
24 then change as necessary when the new rules

1           came out.

2       A.     (Frecker) We definitely need more clarity on  
3           exactly how the rule will look and how it  
4           will apply to the project before we're able  
5           to deal with that.

6       Q.     Assuming you're going to be in the  
7           forward-capacity market, what's the approved  
8           capacity supply or obligation? Do you have  
9           one; and if so, what's the first effective  
10          year --

11      A.     (Bravakis) If I may, I'd like to again defer  
12          that to Mr. Kusche.

13      Q.     Okay. And this other question, I guess,  
14          will probably be deferred as well. This was  
15          on the -- it was -- and I don't even -- I'm  
16          not sure -- see if I can find it. Someone  
17          made the -- and that was deferred, that  
18          question as well.

19                 And there was some talk earlier on the  
20          capacity factor of the proposed facility.  
21          What do you estimate? What are you using,  
22          at least for economic planning purposes, for  
23          your capacity factor?

24      A.     (Strickler) Eighty-seven and a half.

1 Q. On the wood supply, there was a lot of talk  
2 of sustainability and what all that meant  
3 and everything. And you had mentioned that  
4 some states have existing requirements that  
5 have certain rules associated with how you  
6 can harvest lumber and so forth; and New  
7 Hampshire didn't have those, so that's why  
8 you were going forward with this  
9 sustainability proposal that was attached, I  
10 think, as 60.

11 So are you going to impose those  
12 requirements on wood coming in from other  
13 states? And what if it's for something, you  
14 know, that's being clear-cut on purpose  
15 because they're going to put a factory there  
16 or roads or whatever like that?

17 A. (Bravakis) I think that our sustainability  
18 condition isn't specific just to New  
19 Hampshire. Our sustainability condition is  
20 to the sources of supply of the fuel. So,  
21 yes, we would apply it to all suppliers that  
22 come in that fall under this -- these  
23 conditions.

24 Q. Would you have an exemption for people who

1           were doing it because they were going to put  
2           in a new factory or something like that --

3       A.     (Bravakis) Well, obviously we have no  
4           control if there's going to be a change of  
5           use, if there's land development going on  
6           somewhere where they cut all the trees.  
7           That happens. We know that happens. And  
8           the choice of burning that wood or not using  
9           it is less, in our view, than converting it  
10          to energy.

11       Q.     So you have an exception to that --

12       A.     (Bravakis) Yes, obviously. This applies to  
13          pretty much the highest level of, in  
14          everybody's mind, how to protect the natural  
15          resources and preserve the working,  
16          sustainable forest.

17       Q.     And since the amount of wood seems to be a  
18          big point of contention here -- how much is  
19          available and how far you can go to get  
20          it -- having this sustainability agreement,  
21          how much of a negative effect of that will  
22          have on your wood supply -- i.e., there's  
23          going to be some people that might say we're  
24          not going to comply with this, which would



1           reduce it -- and was that taken into account  
2           when the studies were done?

3       A.    (Bravakis) I mean, that's a great question.  
4           And that's one we struggle with all the time  
5           because, as I think we've mentioned before,  
6           other plants don't impose these conditions  
7           on themselves. So we're taking this  
8           pre-emptively to try to demonstrate a  
9           willingness of our commitment of good  
10          stewardship of the forest. However, having  
11          said that, it has to be done in a manner  
12          that doesn't hamstring the project in its  
13          ability or put it at a competitive  
14          disadvantage. And at the time we are now in  
15          the regulations and procurement of fuel, we  
16          have to be sensitive that we don't paint  
17          ourselves in a corner, if you will, by  
18          imposing limits on us that would disallow  
19          otherwise good suppliers from supplying to  
20          the facility. So we struggled with that  
21          when we developed this. We met with a  
22          number of organizations that were very  
23          familiar with this. Some of us wanted more  
24          limitations, some of us suggested to have

1 less. So we're constantly balancing that.  
2 And this is not done. But we are confident  
3 that, once done, it will be a good blend of  
4 both of those aspects.

5 Q. But you didn't do any analysis where you  
6 felt as though it would limit, you know,  
7 95 percent of the prospective suppliers --

8 A. (Bravakis) No, we did not.

9 Q. That's all the conditions I have for right  
10 now -- all the questions.

11 CHAIRMAN BURACK: Thank you,  
12 Mr. Harrington. Mr. Jannelle.

13 EXAMINATION

14 BY MR. JANNELLE:

15 Q. Part of the LandVest study on Table 6  
16 lists --

17 CHAIRMAN BURACK: Could you  
18 say what exhibit you're on, please?

19 MR. JANNELLE: Actually, I'm  
20 on Appendix P in the application, the biomass  
21 study.

22 MR. IACOPINO: And the  
23 application is Exhibit 1, for the record.

24 BY MR. JANNELLE:

1 Q. There's multiple facilities, some pulp  
2 facilities, some power facilities. The  
3 power facilities use a 75-mile radius or  
4 less, and it shows that it seems like  
5 there's significantly less consumption.  
6 Public Service has got the highest  
7 consumption of 450 tons. But many of the  
8 others are around 200 tons, 250 tons. You  
9 mentioned that the Burgess Mill used 1.3  
10 million tons of pulp. I assume that's --  
11 the majority is round wood and not what you  
12 would consider tops and branches and things  
13 like that.

14 Is your facility a large facility, or  
15 is it -- it seems to be, looking at that  
16 chart. Or is it typical?

17 And given that you're going to need  
18 750 [sic] tons in order to run it, would you  
19 be using more round wood instead of pulp?  
20 It just looks, looking at some of the other  
21 power plants, if they're using tops and  
22 branches, there's a lot less volume within a  
23 75-mile radius. And you're going out  
24 another 25 miles, granted. But it's not

1 three times more.

2 A. (Bravakis) Okay. To answer your first  
3 question, our facility would be a large  
4 user as a biomass facility, but not a large  
5 user of low-grade material. NewPage in  
6 Rumford uses a total of 2.2 million tons a  
7 year, of which I believe 1.8 goes into  
8 paper-making, and the balance goes into  
9 their boiler system.

10 To answer your second question, please  
11 keep in mind that this study and the  
12 following addendum was, I would characterize  
13 as our first 50,000-foot view of is there  
14 enough wood. There were a number of  
15 assumptions made in this analysis, which as  
16 we start drilling further and further down  
17 it gets refined more.

18 So the methodology that they use was to  
19 say a plant that would use X-amount of tons  
20 would go out X-amount of miles to get their  
21 wood. The practical reality is that they  
22 might at some point go -- as I was  
23 explaining before, the wood sheds get  
24 defined more by market conditions than they

1 do by availability.

2 What we were simply trying to do is  
3 saying a plant of our facility, if one makes  
4 the assumption that a three-hour drive --  
5 and we got this from not only LandVest, but  
6 talking to suppliers and contractors --  
7 would go out a three-hour drive, or 100  
8 miles, is there enough wood that could be  
9 sustainably provided to supply this plant?  
10 We then took it -- and what we learned at  
11 that, in tops and branches alone there was,  
12 I believe, if my memory serves me right,  
13 there's like 2.6 million tons just in tops  
14 and branches. But we then took it one step  
15 further and said, well, how does that affect  
16 other existing facilities? We weren't  
17 really concerned with projects that were --  
18 being developers, we know that most projects  
19 are underdeveloped and never get built. So  
20 we didn't want to put a hypothetical in  
21 there, but we wanted to say, let's see what  
22 exists now. So we kind of overlaid that on  
23 top, and what we learned is that we kind of  
24 clumped it all together as low-grade

1 biomass, a combination of tops and branches  
2 and round wood. Some of that round wood  
3 will always go to higher-use markets -- pulp  
4 markets, tie logs, et cetera. Some of it  
5 that's going to pulp markets now would get  
6 redirected into a biomass plant, along with  
7 some tops and branches that were left in the  
8 woods.

9 So I guess it's a long way of saying  
10 there's no simple answer to your question.  
11 But we are confident that the work that  
12 LandVest did on this initial filter for us  
13 is very true and accurate, and then we're  
14 redefining it more.

15 Q. There's also rail access to this site?

16 A. (Bravakis) Yes.

17 Q. Is there future thought of using that, or  
18 would that open up another wood shed  
19 someplace if that were to become available?

20 A. (Bravakis) Yeah, the thought of the rail --  
21 I was the one who kept pushing that. I  
22 wanted to make sure we had easements in  
23 place to bring rail in at some point in the  
24 future. I would characterize that as

1 leaving an option on the table now, when we  
2 can do that, rather than not having that  
3 option. And my thinking, and our then --  
4 collectively, our thinking was this might  
5 open up markets for wood that are not served  
6 now where we could access additional wood.

7 It also might play very well into, as  
8 regulations move forward on trucking and  
9 carbon emissions related to trucking and  
10 moving biomass, this might serve a function,  
11 and especially going east-west, which is  
12 most difficult in the northeast, as we all  
13 know. So we left that option on the table,  
14 and I fully suspect that at some point in  
15 the future that will play a role in this  
16 facility. But later, not further -- not  
17 sooner.

18 Q. Okay. Thank you.

19 MS. IGNAGTIUS: Thank you. I  
20 do have questions. I don't have a microphone.  
21 If people can't hear me, wave and I will speak  
22 up.

23 EXAMINATION

24 BY MS. IGNATIUS:

1 Q. Mr. Bravakis, let's work on some of the wood  
2 issues a little further since we're there  
3 right now.

4 The company you're using is out of  
5 Henniker, New Hampshire. Is there any way  
6 that using a Henniker-based company changes  
7 the location for the source of wood; and is  
8 that a concern, given the discussion about  
9 the help needed to Coos County area loggers?

10 A. (Bravakis) Okay. That's a great question.  
11 And let me say this: As I was explaining  
12 before, Cousineau is an aggregator of  
13 supply. They're not the ones who have the  
14 logging crews, own the trucks, own -- you  
15 know, go out and harvest the wood themselves  
16 and bring it in. What their role is, is to  
17 put boots on the ground and to execute  
18 contracts, supply contracts to come to the  
19 facility. They will install personnel at  
20 the site that will go to work every day.  
21 And remember that the fuel is going to be  
22 consumed in Berlin, not in Southern New  
23 Hampshire. So, think of the logistics.  
24 It's a distinct competitive advantage for



1 somebody close to Berlin, who has less  
2 trucking burden, to deliver fuel to that  
3 facility than somebody further away. So the  
4 answer is, no, they will not preclude the  
5 opportunity for local suppliers to supply  
6 the mill.

7 Q. There's agreement with the City that I know  
8 the Berlin witness will address. But as I  
9 looked at it, there is a specific  
10 requirement that there be an effort to  
11 obtain wood from local vendors at  
12 Section 8 -- Paragraph 8. This is in the  
13 City of Berlin exhibit list, if you want to  
14 turn to it. Tab 1, Paragraph No. 8. No,  
15 that didn't work. Paragraph number...

16 All right. Page 8, No. 8, under  
17 community benefits it says, to the extent  
18 feasible and economically reasonable,  
19 Laidlaw shall use its best efforts to  
20 prioritize the purchase of wood fuel from  
21 local owners and operators that meet with  
22 the sustainability terms. I'm paraphrasing  
23 the end of that.

24 How does Cousineau know that that's the

1 requirement with the City?

2 A. (Bravakis) That will be a condition of our  
3 permit, and that will be a component of our  
4 supply agreement with Cousineau.

5 Q. Mr. Bravakis, you also were asked by Mr.  
6 Rodier if you agreed with his conclusion  
7 that whatever wood supply is there, it  
8 pretty much uses it up and there will be  
9 nothing left for a Clean Power Development  
10 project or a new wood pellet entity, or if  
11 there would be a new pulp mill come in. And  
12 you said you disagreed with that conclusion.  
13 Can you explain to me why you disagree with  
14 that conclusion?

15 A. (Bravakis) I disagree with the conclusion  
16 because, as stated in the addendum of the  
17 LandVest study, and if I can -- if I could  
18 read the conclusion.

19 Q. Okay.

20 A. (Bravakis) In bold on Page 4 it says,  
21 "Therefore, because this study is to  
22 estimate the sustainable availability of  
23 low-grade fiber to the proposed Laidlaw  
24 BioPower plant, it is our best estimate that

1 producers will supply over one million tons  
2 per year in excess of current consumption."

3 Our plant is going to be using 350,000  
4 tons -- I mean 750,000 tons. I apologize.  
5 Therefore, there is excess available. And  
6 that's not taking into account the fact that  
7 we know, once we are there, opportunities  
8 will arise for backhauls even further beyond  
9 us that don't currently exist. Some of the  
10 suppliers that have come in to fill the  
11 vacuum when the mills left will realign to  
12 positions where they were in the past. So  
13 that 6 million tons, if you were to somehow  
14 be able to see that in the future, overlaid  
15 with our plant on there, would probably be  
16 less.

17 So, I firmly believe -- and most of the  
18 experts that I've spoken to who have  
19 practical knowledge out in the field also  
20 agree that there's room for us and others.

21 Q. Are you making an assumption of the price of  
22 wood when you calculate the economic  
23 viability of the company, of the project?

24 A. (Bravakis) We have -- obviously, we have --

1           in our financial performance, we have basic  
2           assumptions on wood pricing.

3       Q.    And is there a range that you're assuming in  
4           your assumptions?

5       A.    (Bravakis) It depends on the time of year,  
6           but -- or the year that we start.  But I  
7           recall that our range is in the low to mid  
8           30s.  That's our speculative guess right  
9           now.

10      Q.    That's per ton of wood?

11      A.    (Bravakis) per ton of wood delivered to the  
12           plant at roughly 45-percent moisture, fuel  
13           content -- moisture content.

14                               MR. NEEDLEMAN:  And I'm sorry.  
15    If I could just interrupt for one minute?  I just  
16    wanted to remind the Committee that we provided a  
17    document which is subject to confidential  
18    treatment.  It's a one-page pro forma that  
19    contains some of this information.

20                               CHAIRMAN BURACK:  Okay.

21    BY MS. IGNATIUS:

22      Q.    And what happens if that assumption turns  
23           out to be too low, in terms of price of  
24           wood?

1 A. (Bravakis) There's a rippling effect  
2 throughout our pro formas. But one thing  
3 I'd like to point out -- and, you know, I  
4 think my colleague, Mr. Bartoszek, could  
5 elaborate on the business end more.

6 Part of our business model is to keep  
7 the capital costs of a new biomass plant  
8 lower than a greenfield project. And that's  
9 no secret why we purchased the facility. We  
10 mentioned this in the past. To build a  
11 brand new biomass plant today is in the \$4-  
12 to \$5,000 per kilowatt installed. Our  
13 plant, our estimate is going to be roughly  
14 half of that. That's significant and gives  
15 us an advantage when it comes to absorbing  
16 fluctuations in the market. Having said  
17 that, we have been told by our consultants  
18 and experts that there currently is a glut  
19 of wood on the market, and it's expected to  
20 remain for the foreseeable future. So we do  
21 not anticipate a wild swing in wood pricing.

22 MR. IACOPINO: And just for  
23 the Committee members, the pro forma that Mr.  
24 Needleman referenced is Exhibit 43. It's

1 contained in the confidential binder that we  
2 received this morning.

3 BY MS. IGNATIUS:

4 Q. One other question on wood, I think. The  
5 City agreement -- and this is on Page 7 of  
6 the city's Exhibit 1, I think. I'm sorry.  
7 It's Paragraph 5 on Page 3 of the city's  
8 Exhibit 1. It says that there's a  
9 requirement that the facility burn biomass  
10 and exclude any materials derived in whole  
11 or in part from construction and demolition  
12 debris; is that correct?

13 A. (Bravakis) Yes.

14 Q. And if that, for some reason, should no  
15 longer be a condition of the City, would the  
16 project burn construction and demolition  
17 debris?

18 A. (Bravakis) We have no plans to burn  
19 construction and demolition debris. The  
20 plant is not being designed to burn it.  
21 This is a clean biomass combustion system.

22 Q. And so your procurement requirements with  
23 your vendors would include that as well?

24 A. (Bravakis) Yes.

1 Q. Mr. Bravakis, tell me about safety  
2 precautions. I assume that the chips and  
3 ash can be flammable?

4 A. (Bravakis) Yes, of course.

5 A. (Strickler) The ash doesn't burn.

6 A. (Bravakis) The ash doesn't burn, but the  
7 chips --

8 Q. That was a trick question.

9 But the storage of wood and storage of  
10 ash after combustion, are those safety  
11 concerns?

12 A. (Bravakis) Certainly that's something that  
13 you have to plan for. And we'll start with  
14 the wood chips first.

15 There has to be, and we will institute,  
16 a regimented plan of first-in/first-out  
17 delivery systems. So, in other words, the  
18 first load that comes in is the first one to  
19 get burned. You know, so you're constantly  
20 recycling so you don't have stagnant piles.  
21 The piles will be constructed in a manner to  
22 shed water and movement. Let's remember  
23 that we benefit from 25 years of biomass  
24 plants using the same material in the

1           northeast. And my colleague, Ray Kusche,  
2           operated one for 15, 20 years up in  
3           Greenfield, Maine. So there's a lot of  
4           experience with respect to that.

5                     In regards to the ash, I believe -- and  
6           correct me if I'm wrong -- there's a  
7           water-quenching system that gets applied to  
8           the ash before it gets stored and moved off  
9           site.

10          A.   (Strickler) It's primarily for dust control.  
11           It's not a -- ash isn't generally flammable,  
12           really, as a problem to the plant. So the  
13           ash is conditioned, as Lou said, for dust  
14           control.

15          Q.   Is there any additional training that local  
16           fire departments will need to have to  
17           respond adequately to a problem on site?

18          A.   (Strickler) If I can answer that question,  
19           please?

20          A.   (Bravakis) Yeah.

21          A.   (Strickler) Obviously, there's been some  
22           time since, you know, there's been any large  
23           industrial facility there. We would  
24           normally go in and work with the fire



1 department and explain to them every aspect  
2 of the project that, you know, might have an  
3 issue with respect to any fire protection.  
4 So we work very closely, you know, with the  
5 fire department in Berlin to make sure  
6 they're aware of chemicals, you know, and  
7 the safety aspects of the project.

8 A. (Freckler) And if I could just offer, Mr.  
9 Bravakis and I met with the fire chief for  
10 the City of Berlin early on in the design  
11 phase of the project, reviewed our site  
12 plans with him, showed him the utility  
13 drawings that we have that show the location  
14 of hydrants, access roads, perimeter roads  
15 around the facility. He provided some very  
16 good constructive comments to us on those  
17 that led to some modifications in the design  
18 to assure that they could have suitable  
19 access. And he seemed pretty pleased with  
20 what he saw and indicated that he looked  
21 forward to continuing to work with the  
22 project as it was going to construction.

23 Q. Also among the City's concerns are noise  
24 levels. And since you're on the stand now,

1 and we can talk to the City witness later --  
2 the noise provisions are on Page 2 of  
3 Exhibit 1, the City's proposed conditions.

4 You have set a level for noise at 70 dB  
5 at the facility's property line at certain  
6 times and below 60 dB at that same property  
7 line during the evening and early morning  
8 hours; is that correct?

9 A. (Frecker) That's correct.

10 Q. Noise is a hard one to understand with these  
11 numbers. But can you give any example of  
12 what 60 dB and 70 dB might be? Anything  
13 comparable to those sounds that we can  
14 understand?

15 A. (Frecker) Well, it's generally accepted,  
16 without the benefit of these amplifying  
17 microphones, that a normal conversation  
18 between you and I would be on the order of a  
19 65-decibel sound power level, sound-pressure  
20 level that your ears would experience, as  
21 one basis.

22 You can look at the background  
23 measurements that were conducted in  
24 locations in the city as part of our noise

1 study and see that in the downtown area,  
2 right now there are existing sound levels  
3 during the daytime hours that are in that  
4 65- to sometimes 70-decibel range. So it's  
5 not inconsistent with what you'd see in a  
6 downtown, semi-urban environment with  
7 traffic and people moving along in a busy  
8 area.

9 Q. When the site was last used as a mill, do  
10 you know anything about the sound levels  
11 that people would have experienced on the  
12 perimeter of the property?

13 A. (Frecker) We do not. We did not take  
14 measurements, nor did we look for  
15 measurements of when the site was operating  
16 before, because we wanted to have the  
17 project evaluated in its own right with  
18 consideration of existing conditions and  
19 with consideration for what the City might  
20 otherwise impose upon a similar type of  
21 project. So we didn't seek to try to say  
22 this would be better than the old mill or  
23 similar to the old mill. We said it won't  
24 cause a problem because we don't believe the

1 levels will increase significantly beyond  
2 existing conditions without a mill there.  
3 And it's consistent with the sound levels  
4 that the city's own planning boards and  
5 government have determined are suitable for  
6 industrial development.

7 Q. The noisy components, if you'll take a  
8 highly technical term, the noisy things on  
9 the site would be the chipping, combustion?

10 A. (Frecker) There is a chipping building,  
11 which would be a sound, a source of sound.  
12 The cooling tower itself is actually a  
13 significant source of sound on energy  
14 projects. The building that houses the  
15 steam turbine, because the steam turbine can  
16 be a rather loud device, is a source of  
17 sound. We modeled extensively looking at  
18 trucks moving through the site, looking at  
19 equipment handling wood chips around the  
20 site. We even looked at the sounds created  
21 by the conveyors that would move the wood  
22 chips up through the site. We looked at the  
23 sounds that would be radiated from the  
24 boiler building, from the emission-control

1 system, from the steam-turbine building.

2 The model was very comprehensive in  
3 considering all those source of sounds.

4 Q. And your measurements of sound that are  
5 agreed to in the city's terms are not at the  
6 actual location of the sound being emitted,  
7 but at the perimeter of the facility, of the  
8 property itself?

9 A. (Frecker) At the property line. That's  
10 correct.

11 Q. How are you going to measure those sounds?

12 A. (Frecker) With the same type of  
13 instrumentation that we used to measure the  
14 background sound levels in the community;  
15 essentially, meters designed to accurately  
16 measure sound levels and collect and average  
17 that data over that period of time.

18 Q. So the amount -- the levels that you're  
19 establishing are average numbers over a set  
20 number of hours?

21 A. (Frecker) We've presented there's a number  
22 of ways to average sound-level data, and  
23 we've presented it in what's referred to as  
24 Leq, or equivalent sound levels. They're

1 basically one-hour blocks in most of our  
2 analysis. The reason for using that Leq, or  
3 equivalent sound level, is it takes into  
4 consideration -- it's the equivalent  
5 continuous sound level that would be  
6 generated. It takes into consideration  
7 varying spikes in noise, rather than using a  
8 sound level that has just exceeded  
9 50 percent of the time, which doesn't really  
10 take into account these higher pressure  
11 spikes. The Leq takes care of that and  
12 helps include those in the analysis.

13 Q. Is the Applicant hiring any additional sound  
14 expert for this testing, or did they already  
15 have within their control meters for that  
16 kind of work and the expertise to  
17 evaluate --

18 A. (Freyer) My firm conducted all of the  
19 background sound-level measurements, and we  
20 did all of the modeling for the project. We  
21 have sound experts on our staff that have  
22 20-plus years of doing this. And we as a  
23 company have done sound-level analyses for  
24 dozens of energy projects.

1 Q. Will you remain involved in it at the actual  
2 construction and operational point, so that  
3 once the plant is operating, will you still  
4 be available for that testing?

5 A. (Freyer) We will be available and we hope  
6 to be involved. But even if the developers  
7 chose to seek service from somebody else,  
8 there are a number of qualified firms that  
9 are capable of doing that type of work.

10 Q. Mr. Bravakis, the agreement with the City  
11 also references sale of thermal energy;  
12 correct?

13 A. (Bravakis) Hmm-hmm.

14 Q. And I'm looking for the right page for that  
15 to point people to. Page 7, Paragraph  
16 No. 6. This is, again, Exhibit 1 of the  
17 City's list. And the City can testify to  
18 this when they're on the stand.

19 But while you're here, what is your  
20 expectation of the availability of thermal  
21 energy that would be available to businesses  
22 that might co-locate on the site?

23 A. (Bravakis) I'm glad you brought that up. We  
24 have not discussed today -- and it's a

1 significant component of that project -- our  
2 agreement with the Gorham paper mill to  
3 provide them hot water from all the waste  
4 heat that we can capture off of the  
5 facility. What that means, for those of you  
6 who are unfamiliar with the site, or perhaps  
7 didn't recall, the Gorham paper mill and the  
8 Burgess Mill were the combined paper mill,  
9 with the pulp being made up in Berlin and  
10 the paper being made in Gorham, and then  
11 connected with a bunch of pipes. Water from  
12 the Androscoggin River is taken in north of  
13 us on the adjoining property through an  
14 underground system, comes into a filter  
15 house and travels down to the Gorham mill.  
16 It's the lifeblood of that facility.

17 We have an agreement in place with  
18 Fraser Paper, who operates and owns the  
19 Gorham mill, to allow them to manage the  
20 filter house, which we own, which is on our  
21 property, maintain the piping system and the  
22 water that goes down there. We also have an  
23 agreement with them whereby we will work  
24 with them to put in the system that will



1 capture the heat that is normally wasted in  
2 a stand-alone power plant like this --  
3 essentially, the heat that gets dissipated  
4 to the atmosphere through the cooling  
5 towers -- and we'll convert that to hot  
6 water through a heating exchange system.  
7 So, instead of them taking 33-degree hot  
8 water from the river, they will be able to  
9 get 90, 100, 110 degrees. We have to work  
10 out the details. That will be a significant  
11 savings for them, for their thermal energy.  
12 In exchange for that, they have provided us  
13 right-of-way, an easement down the strip of  
14 land where all the pipes are connected, of  
15 which we will use to connect to the E Street  
16 substation. So that's our agreement with  
17 them.

18 Now, I bring that up because, once the  
19 final engineering is done on that, there is  
20 a possibility that there will be excess heat  
21 that they won't need, which we have said on  
22 numerous occasions we would make available  
23 to any businesses that will co-locate on our  
24 site. The project will consume this area

1 and this area (indicating). This is the  
2 filter house -- where is it? This is the  
3 existing filter house.

4 What we have done, when we evolved and  
5 developed this concept, we wanted to keep  
6 everything along one side, the periphery on  
7 the property, to allow for business  
8 development on the rest of the property. It  
9 could have been very easy for us, instead of  
10 making a round-wood storage area here, we  
11 could have taken advantage of the old chip  
12 pad that's there now. But we thought that  
13 would then be difficult to develop an  
14 industrial component to the property, if you  
15 will.

16 So we've also kept two existing  
17 buildings -- a 40,000-square-foot building  
18 and a 10,000-square-foot building. And  
19 we've talked to the economic development  
20 folks, and they know that we're interested  
21 in encouraging businesses to co-locate who  
22 would benefit from being next to a power  
23 house. And part of that benefit is that any  
24 excess hot water that doesn't go to the

1 Gorham mill we'd be able to work out to  
2 provide some heat. So that's -- and we've  
3 enumerated that in the stipulation with the  
4 City, which would be a condition of the  
5 permit.

6 Q. And are you saying you don't know the -- how  
7 much excess will be available, or are you  
8 saying you don't know whether any excess  
9 will be available?

10 A. (Bravakis) I don't know how much excess.  
11 And the reason I don't is, our engineers  
12 could figure out how much we could produce,  
13 but the paper mill doesn't know yet. The  
14 paper mill, as you know, is going through  
15 transition. And they're probably going to  
16 transition more into a tissue mill. How  
17 that affects their low profile, we just  
18 don't know yet. We're first obligated to  
19 them, under agreement, to provide as much as  
20 we can. But we would like to use it all.  
21 It makes the plant more efficient, and it's  
22 a benefit to the economic well-being of the  
23 community.

24 Q. Mr. Strickler, I want to ask you a couple

1 questions about the change in the ownership  
2 structure that has recently been discussed.

3 Why, to your knowledge, did that change  
4 occur?

5 A. (Strickler) Well, we had been brought in and  
6 got involved in this project, back almost a  
7 year ago now, working with the Laidlaw  
8 folks. And they had an agreement, a  
9 relationship with a company, PJPD, and in  
10 fact, brought together by them. And so we  
11 were sort of working together closely with  
12 all the parties. But there are three  
13 parties. And it was a challenge to say  
14 that -- you know, three parties trying to  
15 develop a project and agreeing to every  
16 decision, it was a challenge. We worked he  
17 very hard to overcome those challenges. In  
18 fact, you know, the project has gotten, you  
19 know, pretty far. But I think at the end  
20 that the ownership change is actually going  
21 to provide a single person, a single entity,  
22 if you will, even through the Applicant that  
23 will provide a more cohesive and more  
24 streamlined decision-making process. Our

1 involvement will remain the same, as the  
2 company that provides the construction  
3 oversight and the operations and services to  
4 the Applicant.

5 Q. Is it a change that your company sought?

6 A. (Strickler) I think it was -- I would say it  
7 was mutually agreed that this was something  
8 that would be beneficial to the overall  
9 project, and we agreed with that change and  
10 supported the change.

11 Q. And when did this reorganization firm up as  
12 a plan?

13 A. (Strickler) Relatively recently.  
14 Probably -- I don't have the dates. But  
15 certainly in the last month or so.

16 Q. Was there any event that triggered that  
17 change to go from a challenge, as you say,  
18 over the past year to a much more  
19 concrete --

20 A. (Strickler) No, there wasn't a specific  
21 event. No, not in my opinion.

22 Q. And is your expectation that, once the  
23 development and construction phase is  
24 complete and we're into the operational

1 phase -- well, tell me what is then the role  
2 of your company?

3 A. (Strickler) We would provide operational and  
4 maintenance services to the Applicant going  
5 forward through an agreement with NewCo.

6 Q. And going forward for a set period of time,  
7 or, as far as you know, going forward for  
8 the full operation of the plant?

9 A. (Strickler) Exactly. Yeah, for a long term.  
10 It would be a long-term arrangement.

11 Q. You were asked a few questions about the  
12 plant manager and whether that was someone  
13 who would be local, and you said yes.

14 A. (Strickler) Yes.

15 Q. Has there been a plant manager identified?

16 A. (Strickler) No, not yet. We typically would  
17 start looking for that after construction  
18 started, you know, to identify and recruit  
19 the plant manager. We have -- actually, we  
20 have quite a few people on our list of  
21 potential candidates going forward that we  
22 just sort of have for all our projects.

23 Q. I think that completes my questions. Thank  
24 you.

1                   CHAIRMAN BURACK: Thank you  
2 very much. Mr. Northrop?

3                   MR. NORTHROP: Yes, I just  
4 have a couple questions.

5                   EXAMINATION

6 BY MR. NORTHROP:

7 Q. One is going back to kind of a follow-up to  
8 Mr. Harrington's, some of his questions  
9 about the sustainability condition.

10                   Your proposed wood supplier, kind of  
11 broker, would be Cousineau. Who is  
12 responsible for enforcing that  
13 sustainability condition? Would that be  
14 Cousineau, the wood supplier, or Laidlaw?  
15 Or how would that enforcement actually take  
16 place? Or how would you know that the wood  
17 was actually being -- the wood being  
18 received was actually complying with the  
19 conditions of that sustainability document?

20 A. (Bravakis) The enforcement -- I'm not sure  
21 how to answer that. The enforcement that  
22 Cousineau is complying with, the terms and  
23 conditions of the supply agreement, would be  
24 subject to the same type of contractual

1 obligations any contract would. And the  
2 sustainability component would be a part of  
3 that. How we -- so Cousineau will be  
4 contractually obligated to adhere to the  
5 sustainability conditions.

6 I don't know -- I can't speak about the  
7 remedies. Once we have the contract  
8 finalized, we'll be able to see that and  
9 share that with you.

10 With respect to how do we know  
11 whether it's done, if that's part of your  
12 question? If you've seen the sustainability  
13 piece, there's a metrics in the end, a reporting  
14 and verification section which talks about the  
15 number of wood supplied, the breakdown of  
16 biomass, the volume supplied by various groups,  
17 et cetera, et cetera, number of acres  
18 participating. So there will be an accounting  
19 process, if you will, that will measure whether  
20 or not we're meeting the goals of our  
21 sustainability and procurement policy.

22 MR. IACOPINO: Mr. Bravakis,  
23 were you just referring to Exhibit 60?

24 MR. BRAVAKIS: Yes.



1 MR. IACOPINO: Thank you.

2 BY MR. NORTHROP:

3 Q. Just one other question. And I apologize.  
4 This may be something we've asked, several  
5 of us, over and over again, sort of keep  
6 asking it in a different way.

7 But going back to this 6 million tons  
8 of wood in the region, if I could understand  
9 it, would it be a fair characterization to  
10 say that that represents the wood that's  
11 harvested within this region, some area, and  
12 that the wood could be used locally if there  
13 are lots of users, if there are lots of  
14 biomass plants or pulp mills or furniture  
15 makers or whomever was consuming wood? But,  
16 then, on the flipside, if there weren't a  
17 lot of consumers, users of the wood  
18 locally -- meaning there were no biomass  
19 plants or pellet manufacturers or no  
20 users -- would this wood still be consumed,  
21 but by entities further away, meaning the  
22 wood would still be produced in the region,  
23 but it would be used further in Maine or in  
24 New York or Pennsylvania or something like

1 that, so that this 6 million tons of wood --  
2 I guess the crux of my question is, how much  
3 would that fluctuate? Would that number go  
4 down drastically if there were fewer local  
5 users? And conversely, would that number go  
6 up a lot if there were more users? Or is  
7 that a number that would stay relatively  
8 constant, but the users would just either be  
9 closer or further away?

10 A. (Bravakis) Yeah, I think I understand the  
11 question. It's a very difficult one to  
12 answer, and I'll tell you why.

13 Consider NewPage, the paper mill in  
14 Rumford, Maine. They alone use 2.2 million  
15 tons a year of low-grade material. If they  
16 were to go out of business, that would be --  
17 that would blow that -- that would strike a  
18 significant blow to the infrastructure in  
19 the area to obtain that wood. I think in my  
20 experience and my knowledge, the further  
21 away you go, it's not practical to take wood  
22 in northeastern United States, in northern  
23 New Hampshire, and ship it to Pennsylvania,  
24 for example. Maybe with rail, maybe with a

1 lot of ingenuity and very high energy costs  
2 or something you could do that. So I  
3 would -- and this is an opinion, because I  
4 don't have a crystal ball any more than  
5 anybody else does. But my guess is that if  
6 you took out the largest consumers of that  
7 material in that area, that 6 million  
8 consumption would go down drastically.

9 On another score, having been involved  
10 in this project and biomass energy for 30  
11 years, I see this as a paradigm, shifting  
12 event, if you will, where for years and  
13 years and years the fiber in Berlin, the  
14 city the trees built, was used and converted  
15 to paper. I think that business model is  
16 not viable in the future because it's  
17 difficult for a paper mill in the northeast  
18 to compete on a worldwide scale. But the  
19 fiber's still there. That low-grade  
20 material is still there. And every and any  
21 forester that I've ever spoken to wants  
22 biomass plants because they want to weed  
23 that garden. They want to grow the  
24 straighter, stronger trees. And if you

1           can't get that low grade out of there for  
2           markets, you can't do that. So now the  
3           opportunity is to construct, build renewable  
4           generating facilities -- ours being one,  
5           others that have been proposed, pellet  
6           manufacturers, as you suggested. And so  
7           it's really a question of timing: Can these  
8           new projects be phased in if the writing's  
9           on the wall and the long-term future of the  
10          pulp and paper industry in the northeast is  
11          going to be challenging, to say the least.

12                        So it's a long-winded answer to say  
13           that I think that if the market, the  
14           consumers left now, that 6 million would go  
15           way down.

16   Q.    Thanks. That helps. No further questions.

17                               CHAIRMAN BURACK: Thank you.

18   Mr. Stewart.

19                               EXAMINATION

20   BY MR. STEWART:

21   Q.    My questions are on Exhibit 60, the  
22          sustainability condition. As one of the  
23          regulators on the Committee --

24                               (Court Reporter interjects.)

1 Q. You've indicated that Laidlaw will not buy  
2 wood from suppliers who have been found to  
3 be repeat offenders of environmental laws  
4 and regulations. How will you do that? How  
5 frequently will you check on your suppliers?  
6 And how will we know that that's occurring?

7 A. (Bravakis) Good question. This is an  
8 interesting -- when we first put this out,  
9 we said we don't want anybody who violates  
10 the laws. But we were quickly told we  
11 needed to be careful, because sometimes a  
12 very reputable, good logger will  
13 inadvertently cross a brook or do something  
14 that will give him a violation, and do it  
15 once and maybe never to do it again. So we  
16 didn't want to say anybody who had a  
17 violation.

18 We consulted with different  
19 organizations throughout the state as we  
20 were developing this to get their guidance.  
21 And what we learned was that there are --  
22 I'm trying to remember. I think it's under  
23 10. I think it's like five or seven  
24 identified repeat offenders in the state of

1 New Hampshire of logging practices who  
2 have -- of the thousand or so contractors.  
3 So it's a pretty small universe that we can  
4 work with, these groups that helped advise  
5 us, to keep us updated on.

6 And we will make it a condition of the  
7 agreement with Cousineau that they will not  
8 purchase wood or use wood from these known  
9 offenders. And I believe there's a tracking  
10 and a registry -- and please correct me if  
11 I'm wrong on this because I'm not that  
12 familiar. But I believe that after you have  
13 so many offenses, you get into the select  
14 few. And we will identify them and not  
15 purchase wood from them.

16 Q. Do you agree that it would be reasonable for  
17 you to report that as part of your reporting  
18 and verification, which I see as described  
19 in Exhibit 60? I mean, it would seem to me  
20 that we would want to have that report on an  
21 annual basis, along with the volumes of  
22 various -- you know, where the biomass is  
23 coming from and so forth, that this has been  
24 checked and there's been enforcement against

1 certain loggers or what have you.

2 A. (Bravakis) Could be a slippery slope. I  
3 don't think we'd have a problem saying who  
4 we're not buying from. But I think there  
5 might be confidentiality issues or issues  
6 with how Cousineau procures to say who we do  
7 provide from and what they're supplying.  
8 You know, it's business relationships. But  
9 I don't believe we would have a problem  
10 reporting that these contractors we have not  
11 purchased from for these reasons, if  
12 that's --

13 Q. Yeah, I think that's kind of where I was  
14 going.

15 A. (Bravakis) Okay.

16 Q. This 700- to 750,000 tons annually, more or  
17 less, going into this plant if it were  
18 built, what percentage do you think at the  
19 beginning are going to be from sustainable  
20 profits -- well, logging operations? Do you  
21 think it's going to be 20 percent or  
22 50 percent? Or what do you think? I'm just  
23 trying to get a handle on this.

24 A. (Bravakis) I guess it's how you define

1 "sustainability." If you're saying from  
2 third-party certified lands --

3 Q. Yeah, I'm referring to Condition 6.

4 A. (Bravakis) -- from tree farm systems, from  
5 SFI or SFC, conservation lands, I can't  
6 answer that. What I can say is that the  
7 wood that will come to the plant in the  
8 beginning and during will -- our supplier  
9 will adhere to this. So they will have some  
10 period of time before the plant starts  
11 operation to start making those  
12 relationships and start bringing wood into  
13 the facility. And from what I understand, a  
14 lot of the forest land, a lot of the timber  
15 land that will be supplying the facility  
16 have already set up management programs,  
17 conservation programs, or they're under SFI  
18 or SFC -- which are third-party verification  
19 systems -- or a tree farm system, or under  
20 management of a forester, or even the  
21 smaller properties in current-use programs  
22 or being harvested by licensed foresters.  
23 What we didn't want to do, we didn't want to  
24 come and try to present the fact that we



1           were going to somehow be this overarching  
2           agency to rule how the wood comes. We  
3           understand the realities. And we understand  
4           that landowners -- and I own 80 acres of  
5           land in Vermont. I was a tree farm member  
6           and part of the current-use system. We  
7           understand that there are a lot of programs  
8           in effect now. We just want to dovetail  
9           with those.

10                        So I can't give you a specific answer,  
11           but I will tell you that the wood that will  
12           come in will adhere to this policy.

13    Q.    So how will you give preference to lands  
14           that are third-party certified versus lands  
15           that are not, in terms of receipt of wood?

16    A.    (Bravakis) We haven't developed the details  
17           of exactly how we do that yet. But we will  
18           be doing that. And as soon as we do, we'll  
19           share that with the Committee. We fully  
20           intend to put together with Cousineau a  
21           procurement plan that will spell that out.

22    Q.    Do you think it would be reasonable for us,  
23           within the certificate, if we were to  
24           certify the project to have goals for

1 ramping up the whole sustainability over  
2 some time period?

3 A. (Bravakis) We could certainly consider it.  
4 But as we said before, we need to be careful  
5 that we don't put ourselves in an economic  
6 disadvantageous place with respect to the  
7 other biomass plants, paper mills that don't  
8 need this or don't do this on their own.  
9 This is voluntary on our part. But we  
10 certainly would -- could consider some  
11 reasonable expectations or goals.

12 Q. Thank you.

13 CHAIRMAN BURACK: You're all  
14 set now?

15 MR. STEWART: All set.

16 CHAIRMAN BURACK: Before I  
17 continue here, Attorney Needleman, I just want to  
18 draw your attention to R.S.A. 162-H:8. And I'd  
19 just ask you with respect to the list of items  
20 that I requested of you earlier, that you confirm  
21 that the information you're providing will fully  
22 satisfy that standard with respect to all the  
23 entities and the individuals that you're  
24 reporting on. I note, for example, that the

1 statute specifically requests that we be provided  
2 not just with names of members and association,  
3 but also with the residences. So I'd just ask  
4 you to pay close to the attention to the  
5 requirements of that section of the statute and  
6 confirm that the materials you're preparing will  
7 fully satisfy that set of statutory requirements.  
8 Okay? Thank you.

9 Go ahead, Ms. Muzzy.

10 EXAMINATION

11 BY MS. MUZZEY:

12 Q. I had a few questions, and the first is  
13 about the transformer area that is mentioned  
14 in Public Counsel Exhibit 2. Are you still  
15 considering a recreational trail along the  
16 river that would pass by that area?

17 A. (Bravakis) Yes.

18 Q. Could you describe how close that trail  
19 would be to the transformer area?

20 A. (Bravakis) Right next to it. Is that close  
21 enough?

22 Q. That's pretty clear, yeah.

23 Do you know whether that area has been  
24 studied to a sufficient degree that you have

1 confidence in building that trail?

2 A. (Bravakis) I'm sorry. I didn't hear that.

3 Q. Do you know whether that site has been  
4 studied to a sufficient degree that you  
5 would have confidence to build that trail  
6 without causing additional environmental  
7 problems?

8 A. (Bravakis) We haven't gotten to that level  
9 of detail yet.

10 Q. So that's still needed?

11 A. (Bravakis) Yes. That's our intention to do  
12 that.

13 Q. You also talked about a silo that would be  
14 used to store the fly ash. Do you have any  
15 sense about how large that would be, how  
16 tall that would be?

17 A. (Freckler) Let me just -- let me just clarify  
18 one point. When Attorney Roth had asked me  
19 about that silo, I had said that the design  
20 was contemplating a silo that could hold up  
21 to one week's of fly ash generation from the  
22 fabric-filter baghouse. And looking back at  
23 the supplement to the application that was  
24 filed in May, it in fact said that the

1 capacity will be sufficient to accept a  
2 minimum of 24 hours. It doesn't state what  
3 the maximum would be. So I just want to  
4 make sure that that was factually clarified.

5 But given that it talked about 120 tons  
6 per week of ash generation, ostensibly about  
7 20 tons a day, I think that's the size of a  
8 reasonable tractor-trailer truck, if I'm not  
9 mistaken. We probably need to get back to  
10 you on that.

11 A. (Strickler) We'd be guessing on that right  
12 now.

13 Q. All right. That's fine. Thanks.

14 In discussing the noise and the use of  
15 the Leq measurement, that's averaged over an  
16 hour's worth of time?

17 A. (Frecker) Yes.

18 Q. And you talked about spikes. So if the  
19 average over an hour was at 60, is it  
20 possible that the spikes would be far louder  
21 than that, followed by a quieter time? Is  
22 that how that works?

23 A. (Frecker) That's possible. And we need to  
24 be careful when we say "average," because it

1 is an equivalent sound level that takes into  
2 consideration the additional energy created  
3 by those spikes. So it assumes a continuous  
4 sound power level that would be addressing  
5 those spikes over that period. But absent  
6 that technical issue, our background  
7 measurements which we took in the project  
8 area over a 24-hour period at several  
9 locations really showed relatively constant  
10 sound levels, without large spikes  
11 occurring.

12 Q. Okay. Thank you. And then finally, just to  
13 ask a couple questions about the LandVest  
14 study.

15 Now, their calculations were based on  
16 users currently -- at the time of the study,  
17 the users with the 6-million-ton  
18 measurement. In their research, was there  
19 any type of discussion about longevity of  
20 those users or the stability of those  
21 businesses, as to whether they're likely to  
22 change in the future, that type of thing?

23 A. (Bravakis) No, there wasn't.

24 Q. So that wasn't considered.

1           And you've described that as a  
2           50,000-foot look at the wood basket. And  
3           then you also talked about drilling down to  
4           get a better understanding of how things  
5           work. Do you have any written materials  
6           that the Committee could look at for further  
7           deliberation on that?

8       A.    (Bravakis) No more than the LandVest study,  
9           the addendum that they did. We did look for  
10           similarities in the other studies that I  
11           believe the Committee has access to that  
12           were mentioned in the LandVest study. If  
13           they don't, I can get those.

14           There was an INRS study and another  
15           LandVest study, a Caldwell study. But a lot  
16           of it came from interviews with folks that  
17           actually procured fuel for the Burgess Mill,  
18           interviews with business owners in the area  
19           that procure and have procured logs and wood  
20           forest products for years, interviews and  
21           discussions with logging contractors and  
22           with operators associated with a large paper  
23           mill -- I mean large saw mills and the  
24           adjoining paper mills. So we've been

1 looking at this for a number of years, and  
2 the LandVest study frames it for us. But it  
3 also verifies what we've been hearing on the  
4 street, that there's plenty of wood.

5 Q. Thank you.

6 A. (Bravakis) Welcome.

7 MS. MUZZEY: No further  
8 questions.

9 CHAIRMAN BURACK: Okay. Thank  
10 you. Mr. Wright.

11 EXAMINATION

12 BY MR. WRIGHT:

13 Q. Also coming from the regulatory side of the  
14 shop here. Obviously you mentioned one of  
15 the advantages to this site is the fact that  
16 you're starting with the existing facility  
17 and you're going to make some very  
18 significant modifications to the facility,  
19 including significant upgrades to the  
20 air-pollution control equipment. I believe  
21 it was also mentioned that Babcock & Wilcox,  
22 the designer, has done this elsewhere. Do  
23 you know where else they've done this type  
24 of work?



1 A. (Bravakis) Yes. They have two  
2 recovery-boiler conversions. If John is  
3 still here -- one is in Bowater, Kentucky.

4 A. (Strickler) Yeah, Kentucky.

5 A. (Bravakis) Kentucky.

6 MEMBER FROM AUDIENCE: No,  
7 Tennessee.

8 A. (Strickler) Yeah, Tennessee.

9 A. (Bravakis) Bowater, Tennessee. And in  
10 Florida? One in Florida?

11 MEMBER FROM AUDIENCE: No.  
12 Tennessee. And the other one's in Georgia.

13 A. (Bravakis) In Georgia.

14 I think Mr. Strickler can talk about  
15 it, because a team of his engineers went  
16 down to view --

17 A. (Strickler) Yeah, we sent a group down to  
18 visit the facility in Kentucky, I believe it  
19 was.

20 Q. Has that facility been converted at this  
21 point --

22 A. (Strickler) Oh, yes.

23 Q. -- and is it operational?

24 A. (Strickler) It's been operational. And the

1 report said the owners were very pleased  
2 with the work that was done.

3 Q. Okay.

4 A. (Bravakis) If I may?

5 Q. Yeah.

6 A. (Bravakis) Excuse me for interrupting.

7 B & W, Babcock & Wilcox, has done many, many  
8 biomass, many, many systems, as you know.  
9 These were specifically black liquor boilers  
10 converted to fluidized bubbling bed. So  
11 they --

12 Q. And this is what the case is here?

13 A. (Strikler) Exactly.

14 A. (Bravakis) Yeah. So they had specific  
15 experience to our project. And the one in  
16 Kentucky is relative, size-wise, within the  
17 same range.

18 Q. And the final air permit that was issued by  
19 the Department of Environmental Services, I  
20 would describe the emission limits in there  
21 as being fairly stringent emission  
22 limitations. Do you know how those  
23 facilities -- or how that facility has  
24 performed?

1 A. (Strickler) With respect to the facility?

2 Q. Yeah. Basically, how is the facility  
3 performing? Is it meeting its emission  
4 guaranties? Is it --

5 A. (Strickler) I don't recall that we -- I  
6 would have to check with our group to see if  
7 they asked that question. I just don't  
8 recall.

9 A. (Frecker) But I can tell you, Mr. Wright,  
10 that B & W is actively involved in reviewing  
11 the emissions limitations that were part of  
12 the permitting process and concurring that  
13 they felt that they could meet those  
14 limitations.

15 Q. I think I just had one other simple  
16 question.

17 Obviously, using a cooling power, there  
18 will be a period of time of the year where  
19 there will be visible pooling from the  
20 cooling tower. Have you done any studies as  
21 to what percent of time that would occur and  
22 under what conditions?

23 A. (Frecker) Yeah, we did do modeling of the  
24 cooling tower plume primarily to evaluate

1 the potential for icing and fogging on area  
2 roadways. And that modeling demonstrated  
3 there would not be any occurrences of icing  
4 and fogging due to the design of the cooling  
5 tower, in large part associated with very  
6 high-efficiency drift eliminators that would  
7 control and prevent water droplets  
8 discharged from the tower. That modeling,  
9 conducted using what's called the seasonal  
10 annual cooling tower impact, or SACTI model,  
11 also predicts visible plumes. And it shows  
12 that during daylight hours the plume height  
13 would be lower than the boiler building  
14 about 50 percent of the time and lower than  
15 the stack itself, I think on the order of  
16 about 95 percent of the time.

17 MR. WRIGHT: Okay. Thank you  
18 very much.

19 CHAIRMAN BURACK: Mr. Kent?

20 MR. KENT: Thank you.

21 EXAMINATION

22 BY MR. KENT:

23 Q. This morning, Mr. Bravakis, you took  
24 exception to the idea of the wood supply

1 being additive. You could just take the 6  
2 million and the 750, and it didn't shake  
3 out. So obviously, that's what your  
4 consultant did to give you an idea.

5 If we don't use that additive approach,  
6 what do we do to estimate the wood supply?

7 A. (Bravakis) Wood supply, wood consumption  
8 from the supply area.

9 Q. Yes.

10 A. (Bravakis) I don't know. What I'm saying --  
11 what I was trying to say is that it's just  
12 not simply a function of adding the two  
13 together and saying that would be the  
14 consumption once the plant is operating.  
15 What would happen is the areas now that are  
16 taking advantage of the fact that Burgess  
17 Mill has a competitor for that wood is no  
18 longer in existence. They have come in and  
19 taken wood that would have gone to that  
20 Burgess Mill, even though they might be  
21 further away. So that wood could be  
22 traveling out of state to other locations.  
23 Once that plant's going in, they will  
24 reassess whether or not they want to compete

1 with a local user again. Our sense is that  
2 they probably will not. And some of those  
3 facilities that are now -- where the wood is  
4 now being taken out of the Berlin area and  
5 going away will start coming into our  
6 facility. And they will be purchasing wood  
7 perhaps in areas around them that might be a  
8 little bit more competitive, but not as  
9 economically advantageous as coming into an  
10 area that just lost a hundred or a million  
11 tons a year.

12 So I can't tell you how that  
13 realignment, what that will look like. But  
14 the point I was trying to make is that I was  
15 trying to describe -- see if we can do it  
16 again.

17 The movement of the wood market is very  
18 dynamic and fluid. And it really depends.  
19 It's all connected. So if a plant in New  
20 York, in Fort Ticonderoga, New York, has a  
21 problem, it can affect facilities in Jay,  
22 Maine by where wood moves via the trucking  
23 network. And once the mills went out in  
24 Gorham -- I mean Berlin and Groveton and

1           Gilman, it didn't necessarily mean less wood  
2           was harvested. It meant that that same  
3           wood, maybe less, was. But predominantly  
4           the same wood might have been harvested but  
5           transported out. And once they come in,  
6           there will be a more competitive  
7           environment. And those that are accepting  
8           it will perhaps choose not to be part of  
9           that 6 million that we've identified and  
10          purchase their wood up in Maine or out in  
11          New York State or elsewhere, because the  
12          opportunity won't be there once we're in  
13          there to fill that void, so to speak.

14        Q.     Did the LandVest study show the  
15                1.2 million tons a year that was not now  
16                being consumed by local mills went out of  
17                state?

18        A.     (Bravakis) No. I think I alluded to the  
19                fact that 1.2 had been used by mills, and  
20                then they went in and did an analysis of  
21                what the current consumption is. There's no  
22                way to really know where that wood is going.  
23                They did not look at the consumption when  
24                the mills were operating, other than saying

1           what we know now is there's roughly  
2           6 million, if you will, and the pulp mills  
3           used 1.2 or 1.3 million when they were  
4           operating. That was a premise that  
5           essentially gave us confidence that there's  
6           enough wood in the area for our plant, which  
7           is roughly -- would consume roughly half of  
8           that, a little bit more than half. But they  
9           did not do that.

10        Q.    So your working assumption is that 1.2  
11           million is going to be redistributed or  
12           sitting in the woods?

13        A.    (Bravakis) I think a combination of the  
14           both. But my guess is redistributed. But  
15           I'm sure that some logging contractors went  
16           out of business, and so, you know, it's in  
17           the woods in that case.

18        Q.    Okay. Thank you.

19                        So there is -- you acknowledge there is  
20           a competitive aspect to this?

21        A.    (Bravakis) Absolutely.

22        Q.    So we'll save pricing questions for the  
23           closed session.

24        A.    (Bravakis) Yes.



1 Q. Now, the sustainability -- first, let me ask  
2 a very general question. When you talk  
3 about sustainability, are you talking about  
4 sustainability of timber available to flow  
5 as biomass, or are we talking about  
6 sustainable forest in a broader sense?

7 A. (Bravakis) We were talking about biomass.  
8 But if I recall in the -- I have to look at  
9 the study. I have to refresh myself. But  
10 our approach was to identify if the wood  
11 could be sustainably harvested for our plant  
12 for biomass. And so they looked at the --  
13 basically, they looked at growth and  
14 removals, net growth compared to removals.  
15 That included round wood, which is saw  
16 timber and pulp wood and tops and branches.  
17 And they looked at the FIA data, which is  
18 more conservative data, and they looked at  
19 growth and removal and said that it's  
20 growing faster than being removed. And then  
21 they also compared that to state reported  
22 data, of which New Hampshire has -- it's  
23 more rigorous reporting than some of the  
24 other states. So they understood that, and

1 they tried to interpolate between the two  
2 sets of data to come up with their  
3 conclusions.

4 Q. Does your concept of sustainability include  
5 leaving 50 percent of the tops as waste  
6 wood, as you referred to it, in the woods?  
7 Or is this assuming everything's coming out  
8 to meet market demands?

9 A. (Bravakis) No, it's not everything coming  
10 out. I think when we looked at it, it was  
11 assuming they looked at current conditions,  
12 which, because it's a pulp and paper market,  
13 a lot of it, the limbs and tops are left in  
14 the woods and not brought out. So, yeah,  
15 left in the woods.

16 Q. Now I'm asking specifically about your  
17 sustainability practices.

18 A. (Bravakis) Oh, okay.

19 Q. You don't address that issue of whether  
20 you're leaving a certain percentage of tops,  
21 your waste wood, so to speak, in the woods  
22 in your sustainability practices. You also  
23 don't mention what low-grade wood is. You  
24 don't define the product. Are those things

1           you're willing to entertain, or was it  
2           already discussed and didn't make it into  
3           the practices?

4       A.    (Bravakis) I mean, that's a great question.  
5           We certainly thought about how much we want  
6           to weigh in on being the forest cops.  And  
7           we felt that, as I was trying to explain  
8           before, there's a lot of, between  
9           regulations, between voluntary programs, a  
10          lot in place that the timber -- timber land  
11          owners want to maximize the return on their  
12          land over the long haul, for the most part,  
13          the ones that I know.  And that doesn't  
14          necessarily mean liquidation clear-cuts, as  
15          somebody suggested before.  What it means is  
16          growing high-grade timber products.  And to  
17          do that, there needs to be markets for low  
18          grade.  And for landowners to engage in that  
19          practice of owning and maintaining and  
20          managing lands, they hire foresters; they  
21          enter into management programs on their own;  
22          some of them will join and be subject to  
23          third-party verification.  But for the most  
24          part, people who own and hold timber land

1           want to grow the highest quality log,  
2           because it takes their resource, which is  
3           the land and the sun, and turns it into the  
4           best return of fiber that you can have.  
5           They don't want to grow it into wood that  
6           goes into a biomass plant, although parts of  
7           that eventual tree will go there. The  
8           reality is that most of the forests in the  
9           northeast are pretty much overstocked and  
10          underutilized. And separate from some areas  
11          that have had good low-grade markets, high  
12          grading has been the predominant forestry  
13          practice: Taking the best, leaving the  
14          rest. That's why most foresters we talked  
15          to are delighted that a biomass plant will  
16          go in to help the -- it gives them another  
17          tool that they can offer their landowner to  
18          do good management practice, good management  
19          of timber harvesting practices.

20        Q.    Have you determined -- and we don't have to  
21            get into details today. But have you  
22            determined at what minimum capacity your  
23            facility can operate -- for example: If for  
24            some reason down the road you can't obtain

1           750,000 tons per year and you bag it down to  
2           500,000?

3       A.    (Bravakis) We haven't looked at that. We're  
4           confident we can get that wood. We're  
5           confident we can get it for the life of the  
6           plant.

7       Q.    Thank you. I'll save my questions for  
8           LandVest and closed sessions.

9                           CHAIRMAN BURACK: Okay. Thank  
10          you. And in light of the hour, I am going to  
11          hold my questions until tomorrow, and Attorney  
12          Iacopino will do the same.

13                           Mr. Harrington, did you have a  
14          question?

15                           MR. HARRINGTON: I have one  
16          follow-up question for them. I can wait until  
17          tomorrow if they're going to be back.

18                           CHAIRMAN BURACK: Well, we  
19          will start I think tomorrow morning with the same  
20          panel. Why don't we hold the question until  
21          tomorrow, okay.

22                           To help speed us along  
23          tomorrow, I will, Mr. Frecker, let you know one  
24          question I will ask you to address; and that is,

1 I'll ask you to be prepared to walk us through  
2 the list of all of the permit applications that  
3 have been filed associated with this application  
4 and give us the status of each of those. If you  
5 can be prepared to do that, that would be very  
6 helpful.

7 A. (Frecker) No problem.

8 Q. If you could do that in very, in kind of a  
9 succinct and direct fashion, that will help.

10 MR. IACOPINO: The other thing  
11 is really for the Committee members: Hearing  
12 Room B tomorrow is going to -- there's a meeting  
13 in there from 10 to 12 that's going to have a  
14 bunch of people in it, just so you're aware.  
15 When you come in, you might want to take your  
16 stuff out here. They're going to need to get  
17 into that room.

18 CHAIRMAN BURACK: Unless  
19 there's objections from the parties, I would  
20 propose we convene at 9:00 tomorrow morning here  
21 in this room. So we will stand adjourned until  
22 9:00 tomorrow morning. Thank you.

23 (Whereupon the Day 1 Afternoon Session  
24 was adjourned at 5:05 p.m.)

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24

C E R T I F I C A T E

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

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

---

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

{SEC 2009-02}[DAY 1 - PM SESSION] - August 23, 2010  
LIDLAW BERLIN BIOPOWER, LLC v.

	<b>114:2;139:14</b>	<b>18:14;19:19,22;27:9;</b> <b>106:20</b>	<b>6-million-ton (1)</b> 142:17	<b>76:14;84:6;86:17;92:20;</b> <b>94:4;107:14;121:8;</b> <b>123:1;128:8</b>
<b>\$</b>	<b>2.2 (2)</b> 100:6;130:14	<b>40,000-square-foot (1)</b> 122:17	<b>7</b>	<b>above (3)</b> 14:15;15:1;21:9
<b>\$4- (1)</b> 109:11	<b>2.6 (1)</b> 101:13	<b>43 (1)</b> 109:24	<b>7 (4)</b> 14:13;28:18;110:5; 119:15	<b>absent (1)</b> 142:5
<b>\$5,000 (1)</b> 109:12	<b>20 (5)</b> 30:16;39:19;112:2; 135:21;141:7	<b>450 (1)</b> 99:7	<b>7.2 (2)</b> 37:18;90:19	<b>Absolutely (1)</b> 152:21
<b>[</b>	<b>200 (2)</b> 30:17;99:8	<b>45-percent (1)</b> 108:12	<b>70 (3)</b> 90:22;114:4,12	<b>absorbing (1)</b> 109:15
<b>[sic] (1)</b> 99:18	<b>2003 (1)</b> 14:9	<b>48 (1)</b> 88:21	<b>700- (1)</b> 135:16	<b>accept (2)</b> 55:1;141:1
<b>1</b>	<b>2007 (1)</b> 67:2	<b>5</b>	<b>700,000 (1)</b> 37:22	<b>acceptable (1)</b> 92:3
<b>1 (12)</b> 10:24;17:8,18;18:11; 84:16;98:23;105:14; 110:6,8;114:3;119:16; 158:23	<b>2011 (1)</b> 8:4	<b>5 (2)</b> 46:14;110:7	<b>70-decibel (1)</b> 115:4	<b>accepted (2)</b> 5:16;114:15
<b>1.2 (5)</b> 29:16;151:15,19; 152:3,10	<b>20-plus (1)</b> 118:22	<b>5:05 (1)</b> 158:24	<b>70-megawatt (1)</b> 90:16	<b>accepting (1)</b> 151:7
<b>1.3 (3)</b> 32:9;99:9;152:3	<b>21 (1)</b> 24:19	<b>50 (6)</b> 38:13;61:17;118:9; 135:22;148:14;154:5	<b>70-percent (1)</b> 33:20	<b>access (8)</b> 78:6,16;79:6;102:15; 103:6;113:14,19;143:11
<b>1.8 (1)</b> 100:7	<b>24 (1)</b> 141:2	<b>50,000 (1)</b> 51:20	<b>750 (3)</b> 51:22;99:18;149:2	<b>accommodate (1)</b> 75:7
<b>1:45 (1)</b> 4:2	<b>24-hour (1)</b> 142:8	<b>50,000-foot (2)</b> 100:13;143:2	<b>750,000 (5)</b> 29:11;89:16;107:4; 135:16;157:1	<b>accordance (1)</b> 25:16
<b>10 (7)</b> 10:1;30:15;46:15; 51:23,24;133:23;158:13	<b>25 (2)</b> 99:24;111:23	<b>50/50 (1)</b> 68:8	<b>75-mile (2)</b> 99:3,23	<b>according (2)</b> 37:24;70:11
<b>10,000-square-foot (1)</b> 122:18	<b>250 (1)</b> 99:8	<b>500,000 (1)</b> 157:2	<b>8</b>	<b>account (3)</b> 97:1;107:6;118:10
<b>100 (4)</b> 54:12;61:13;101:7; 121:9	<b>26- (1)</b> 70:23	<b>50-percent (2)</b> 33:19;37:9	<b>8 (14)</b> 10:4;25:2;60:12,14, 15,17;81:18,18;83:5; 105:12,12,14,16,16	<b>accounting (1)</b> 128:18
<b>10-minute (2)</b> 74:22;75:9	<b>3</b>	<b>50s (1)</b> 90:20	<b>80 (1)</b> 137:4	<b>accurate (2)</b> 83:15;102:13
<b>110 (1)</b> 121:9	<b>3 (4)</b> 17:8;26:1;37:18;110:7	<b>6 (20)</b> 18:11;19:22;24:3; 27:24;28:14;29:11; 89:14,15,18;98:15; 107:13;119:16;129:7; 130:1;131:7;132:14; 136:3;149:1;151:9; 152:2	<b>85 (1)</b> 67:22	<b>accurately (1)</b> 117:15
<b>12 (2)</b> 46:14;158:13	<b>3:05 (1)</b> 75:10	<b>6.1.2 (1)</b> 52:11	<b>9</b>	<b>achieve (4)</b> 5:18,22;6:6,14
<b>120 (2)</b> 54:19;141:5	<b>3:25 (1)</b> 75:11	<b>6.7 (1)</b> 37:18	<b>9 (2)</b> 61:8;84:14	<b>achievement (1)</b> 93:3
<b>13 (1)</b> 14:12	<b>30 (1)</b> 131:10	<b>60 (8)</b> 26:24;95:10;114:6,12; 128:23;132:21;134:19; 141:19	<b>90 (1)</b> 121:9	<b>acknowledge (1)</b> 152:19
<b>15 (4)</b> 30:15;51:24;68:6; 112:2	<b>30-day (1)</b> 43:18	<b>600,000 (1)</b> 37:22	<b>95 (2)</b> 98:7;148:16	<b>acquired (2)</b> 20:16;58:15
<b>16 (1)</b> 27:1	<b>30s (1)</b> 108:8	<b>63 (1)</b> 90:24	<b>A</b>	<b>acres (2)</b> 128:17;137:4
<b>162-H8 (1)</b> 138:18	<b>31st (1)</b> 86:8	<b>65- (1)</b> 115:4	<b>abatement (1)</b> 6:17	<b>across (2)</b> 26:10;63:12
<b>16th (1)</b> 60:11	<b>32-month (1)</b> 70:23	<b>65.9 (1)</b> 90:18	<b>abide (1)</b> 24:19	<b>act (4)</b> 44:3;48:14,17;72:14
<b>18th (1)</b> 5:3	<b>33 (2)</b> 61:2;84:14	<b>65-decibel (1)</b> 114:19	<b>ability (3)</b> 47:17,23;97:13	<b>actively (2)</b> 16:24;147:10
<b>2</b>	<b>33-degree (1)</b> 121:7		<b>able (17)</b> 5:22;6:14;31:8;34:10; 36:13;42:23;72:22;75:6;	<b>activities (5)</b> 11:10;14:2;15:13; 23:23;70:1
<b>2 (7)</b> 11:1;17:8;22:2;24:7,8;	<b>350,000 (1)</b> 107:3			<b>activity (2)</b> 11:17;69:4
	<b>39 (1)</b> 25:3			<b>actual (7)</b> 27:14;28:24;29:13,23; 52:5;117:6;119:1
	<b>4</b>			<b>actually (22)</b> 5:24;13:1;27:19;28:1, 10;29:3,24;31:1;32:16;



37:16;47:3;6;51:7;59:4; 98:19;116:12;124:20; 126:19;127:15,17,18; 143:17 <b>add (3)</b> 7:5;42:3;68:9 <b>added (1)</b> 6:16 <b>addendum (4)</b> 37:17;100:12;106:16; 143:9 <b>adding (2)</b> 29:8;149:12 <b>addition (2)</b> 41:1;89:16 <b>additional (11)</b> 14:19;20:13,24;21:21; 37:23;81:1;103:6; 112:15;118:13;140:6; 142:2 <b>additive (2)</b> 149:1,5 <b>address (7)</b> 23:13;58:19;75:20; 87:23;105:8;154:19; 157:24 <b>addressed (4)</b> 5:1,10;16:12;54:3 <b>Addressing (2)</b> 22:3;142:4 <b>adequate (1)</b> 37:1 <b>adequately (1)</b> 112:17 <b>adhere (3)</b> 128:4;136:9;137:12 <b>adjoining (2)</b> 120:13;143:24 <b>adjourned (2)</b> 158:21,24 <b>adjustment (1)</b> 52:22 <b>adjustments (1)</b> 47:15 <b>advantage (7)</b> 34:13;41:1,11;104:24; 109:15;122:11;149:16 <b>advantageous (1)</b> 150:9 <b>advantages (1)</b> 144:15 <b>advise (1)</b> 134:4 <b>advisement (1)</b> 79:14 <b>affect (4)</b> 89:1;92:11;101:15; 150:21 <b>affects (1)</b> 123:17 <b>afraid (1)</b> 91:23 <b>afternoon (3)</b>	4:5;80:1;158:23 <b>again (12)</b> 18:3;22:22;28:6,18; 56:18;70:5;94:11; 119:16;129:5;133:15; 150:1,16 <b>against (2)</b> 43:6;134:24 <b>age (1)</b> 48:15 <b>agency (1)</b> 137:2 <b>agents (1)</b> 25:9 <b>aggravating (1)</b> 21:8 <b>aggravation (2)</b> 20:18;21:1 <b>aggregator (1)</b> 104:12 <b>aggressively (2)</b> 86:1,3 <b>ago (4)</b> 19:7;70:10;73:19; 124:7 <b>agree (9)</b> 19:16;20:2,7;35:23; 57:2;74:4;76:4;107:20; 134:16 <b>agreed (7)</b> 42:19;73:21;78:8; 106:6;117:5;125:7,9 <b>agreeing (1)</b> 124:15 <b>agreement (32)</b> 10:19;17:10;19:15; 22:3;25:6,22;26:1;29:1; 45:19,24;61:23;62:5; 75:19,20;78:10;88:14; 90:13;91:2;96:20;105:7; 106:4;110:5;119:10; 120:2,17,23;121:16; 123:19;124:8;126:5; 127:23;134:7 <b>agreements (2)</b> 10:13;76:2 <b>agrees (1)</b> 24:15 <b>ahead (1)</b> 139:9 <b>air (10)</b> 4:17,18;5:1,5,13;6:5; 8:7;9:4;92:9;146:18 <b>air-pollution (1)</b> 144:20 <b>akin (1)</b> 29:22 <b>Alex (1)</b> 15:19 <b>Allen (1)</b> 4:10 <b>allow (2)</b> 120:19;122:7	<b>all-time (2)</b> 33:7,7 <b>alluded (1)</b> 151:18 <b>almost (3)</b> 38:2;44:3;124:6 <b>alone (2)</b> 101:11;130:14 <b>along (8)</b> 13:4;22:11;102:6; 115:7;122:6;134:21; 139:15;157:22 <b>alongside (1)</b> 62:4 <b>alter (1)</b> 56:18 <b>alternative (2)</b> 45:1;55:8 <b>alternatives (1)</b> 73:14 <b>although (3)</b> 32:2;56:7;156:6 <b>always (3)</b> 31:15;68:1;102:3 <b>amended (1)</b> 6:4 <b>American (2)</b> 72:12;92:14 <b>amoeba (1)</b> 36:22 <b>amoeba-shaped (2)</b> 31:12;32:4 <b>among (2)</b> 82:10;113:23 <b>amount (7)</b> 27:14;28:19;37:1; 52:23;53:19;96:17; 117:18 <b>amplifying (1)</b> 114:16 <b>analyses (1)</b> 118:23 <b>analysis (6)</b> 38:5;98:5;100:15; 118:2,12;151:20 <b>Androscoggin (4)</b> 54:23;56:4;59:1; 120:12 <b>annual (4)</b> 28:15;86:15;134:21; 148:10 <b>annually (1)</b> 135:16 <b>answered (2)</b> 15:6;43:3 <b>anticipate (4)</b> 13:16;14:3;75:2; 109:21 <b>anticipated (1)</b> 85:17 <b>anticipates (1)</b> 5:4 <b>anticipating (1)</b>	79:4 <b>anticipation (1)</b> 79:19 <b>anymore (2)</b> 59:15;62:18 <b>apologize (2)</b> 107:4;129:3 <b>appeared (1)</b> 59:19 <b>appears (1)</b> 81:17 <b>Appendix (1)</b> 98:20 <b>applicable (1)</b> 19:10 <b>Applicant (21)</b> 19:1,8;43:2;59:21; 61:17;62:1,16,19;63:4; 68:18;69:5,6,16;70:18, 19;81:1;84:23;118:13; 124:22;125:4;126:4 <b>applicant's (1)</b> 59:6 <b>application (12)</b> 5:2,3,5;6:5;11:8; 55:10,17;87:7;98:20,23; 140:23;158:3 <b>applications (2)</b> 6:1;158:2 <b>applied (1)</b> 32:24;112:7 <b>applies (1)</b> 96:12 <b>apply (3)</b> 25:6;94:4;95:21 <b>appreciate (3)</b> 27:12;64:11;83:14 <b>approach (2)</b> 149:5;153:10 <b>appropriate (1)</b> 88:1 <b>approved (1)</b> 94:7 <b>area (40)</b> 12:3;13:12;22:4,6,10, 24;23:20;30:8,10;32:15, 18;40:22;49:2,5,7,9,15; 50:18;54:9;58:8;104:9; 115:1,8;121:24;122:1, 10;129:11;130:19; 131:7;139:13,16,19,23; 142:8;143:18;148:1; 149:8;150:4,10;152:6 <b>areas (8)</b> 11:9,13;34:5;43:19; 44:4;149:15;150:7; 156:10 <b>arise (1)</b> 107:8 <b>around (9)</b> 34:24;50:15,16;51:20; 67:22;99:8;113:15; 116:19;150:7	<b>ARRA (3)</b> 71:21;72:6,9 <b>A-R-R-A (1)</b> 72:11 <b>arrangement (6)</b> 42:13;45:16;62:21; 65:3;69:21;126:10 <b>arranging (1)</b> 47:10 <b>articulated (1)</b> 78:21 <b>artificial (1)</b> 31:2 <b>ash (18)</b> 54:8,8;55:11,14,16,21; 56:16;111:3,5,6,10; 112:5,8,11,13;140:14, 21;141:6 <b>ashes (3)</b> 53:19,24;57:3 <b>aspect (3)</b> 42:12;113:1;152:20 <b>aspects (5)</b> 44:17;81:7;87:15; 98:4;113:7 <b>asphalt (2)</b> 23:20,21 <b>asphalt-paved (1)</b> 23:1 <b>assertion (1)</b> 51:13 <b>assessment (1)</b> 11:1 <b>assign (2)</b> 25:13,15 <b>assigned (1)</b> 20:20 <b>assigns (2)</b> 25:7,10 <b>assist (1)</b> 11:5 <b>assistance (1)</b> 66:9 <b>associated (5)</b> 14:23;95:5;143:22; 148:5;158:3 <b>Association (2)</b> 92:15;139:2 <b>assume (6)</b> 21:4;44:13,20;45:8; 99:10;111:2 <b>assumed (1)</b> 44:15 <b>assumes (1)</b> 142:3 <b>assuming (5)</b> 93:20;94:6;108:3; 154:7,11 <b>assumption (5)</b> 90:4;101:4;107:21; 108:22;152:10 <b>assumptions (3)</b> 100:15;108:2,4
--	--	--	---	--

<p><b>assurance (2)</b> 42:8;91:11</p> <p><b>assure (2)</b> 11:16;113:18</p> <p><b>atmosphere (1)</b> 121:4</p> <p><b>attached (2)</b> 60:23;95:9</p> <p><b>attention (5)</b> 18:14;22:1;24:2; 138:18;139:4</p> <p><b>Attorney (23)</b> 4:8;17:23;18:9;25:19; 32:8;33:17;36:24;52:10; 60:8,18;64:6,7;75:15; 77:13,20;80:3,9,20; 81:18;82:23;138:17; 140:18;157:11</p> <p><b>attribute (1)</b> 37:8</p> <p><b>AUDIENCE (2)</b> 145:6,11</p> <p><b>August (2)</b> 60:11;86:8</p> <p><b>authority (2)</b> 70:14;82:9</p> <p><b>authors (1)</b> 80:12</p> <p><b>availability (6)</b> 30:2;80:4,11;101:1; 106:22;119:20</p> <p><b>available (15)</b> 42:16;80:14,22;87:1; 92:8;96:19;102:19; 107:5;119:4,5,21; 121:22;123:7,9;153:4</p> <p><b>average (5)</b> 117:16,19,22;141:19, 24</p> <p><b>averaged (1)</b> 141:15</p> <p><b>avoid (1)</b> 21:7</p> <p><b>aware (7)</b> 13:8;19:4,6,11;36:15; 113:6;158:14</p> <p><b>away (10)</b> 15:24;38:13;41:3,12; 105:3;129:21;130:9,21; 149:21;150:5</p>	<p>14:23;114:22;117:14; 118:19;142:6</p> <p><b>backhaul (7)</b> 41:2;48:2;49:16; 50:21;51:1,15;52:1</p> <p><b>backhauled (1)</b> 50:7</p> <p><b>backhauling (1)</b> 47:22</p> <p><b>backhauls (2)</b> 51:14;107:8</p> <p><b>BACT (1)</b> 7:12</p> <p><b>bag (2)</b> 6:12;157:1</p> <p><b>baghouse (15)</b> 4:19;5:8,11,14,21,23; 6:13,24;7:3,6;54:16,18; 56:11,14;140:22</p> <p><b>bags (1)</b> 6:8</p> <p><b>balance (1)</b> 100:8</p> <p><b>balancing (2)</b> 76:13;98:1</p> <p><b>ball (1)</b> 131:4</p> <p><b>balloon (1)</b> 31:16</p> <p><b>bank (2)</b> 13:4;22:12</p> <p><b>bark (5)</b> 49:12,12;50:10,14,19</p> <p><b>barriers (1)</b> 33:24</p> <p><b>Barry (1)</b> 19:15</p> <p><b>Bartoszek (9)</b> 53:11;57:10,15;60:24; 61:2;65:9;84:16;85:14; 109:4</p> <p><b>Bartoszek's (3)</b> 61:8;68:15;81:3</p> <p><b>based (10)</b> 8:15,23;13:20;20:12, 17;30:17;34:21;48:22; 66:4;142:15</p> <p><b>basic (2)</b> 86:12;108:1</p> <p><b>basically (6)</b> 6:11;40:18;43:4; 118:1;147:2;153:13</p> <p><b>basins (1)</b> 9:19</p> <p><b>basis (6)</b> 53:20;54:1;78:19,21; 114:21;134:21</p> <p><b>basket (3)</b> 37:14;46:22;143:2</p> <p><b>bear (1)</b> 24:15</p> <p><b>become (2)</b> 92:23;102:19</p>	<p><b>becomes (1)</b> 37:2</p> <p><b>bed (1)</b> 146:10</p> <p><b>bedrock (5)</b> 9:17;13:20,24;15:10, 17</p> <p><b>began (1)</b> 86:1</p> <p><b>beginning (2)</b> 135:19;136:8</p> <p><b>belly (1)</b> 44:9</p> <p><b>belong (1)</b> 37:5</p> <p><b>below (2)</b> 10:1;114:6</p> <p><b>beneficial (2)</b> 55:9;125:8</p> <p><b>benefit (7)</b> 40:21,21;111:23; 114:16;122:22,23; 123:22</p> <p><b>benefits (1)</b> 105:17</p> <p><b>Benson (1)</b> 67:18</p> <p><b>Berlin (17)</b> 38:14;50:7,11;59:10; 61:21;63:9;68:13; 104:22;105:1,8,13; 113:5,10;120:9;131:13; 150:4,24</p> <p><b>best (11)</b> 23:7;39:6;40:20,21; 47:1;91:17;92:8;105:19; 106:24;156:4,13</p> <p><b>better (7)</b> 21:21;37:23;38:3; 47:13;85:15;115:22; 143:4</p> <p><b>beyond (4)</b> 10:23;21:9;107:8; 116:1</p> <p><b>big (2)</b> 40:10;96:18</p> <p><b>bigger (1)</b> 37:2</p> <p><b>biggest (1)</b> 39:21</p> <p><b>billion (1)</b> 14:24</p> <p><b>binder (1)</b> 110:1</p> <p><b>binding (1)</b> 25:6</p> <p><b>biogenic (2)</b> 8:12,17</p> <p><b>biomass (40)</b> 8:13,18;34:17;35:17; 38:23;48:7;49:22;51:1; 55:11;88:4,11;89:15; 91:15;92:11,14,17;93:4;</p>	<p>98:20;100:4;102:1,6; 103:10;109:7,11;110:9, 21;111:23;128:16; 129:14,18;131:10,22; 134:22;138:7;146:8; 153:5,7,12;156:6,15</p> <p><b>BioPower (4)</b> 61:15,21;63:10; 106:24</p> <p><b>bit (6)</b> 21:15;42:4;54:4; 89:12;150:8;152:8</p> <p><b>black (1)</b> 146:9</p> <p><b>blasting (3)</b> 13:22;14:2;15:12</p> <p><b>blend (1)</b> 98:3</p> <p><b>blocks (1)</b> 118:1</p> <p><b>blow (2)</b> 130:17,18</p> <p><b>board (1)</b> 82:4</p> <p><b>boards (1)</b> 116:4</p> <p><b>boiler (6)</b> 6:22;54:10;56:17; 100:9;116:24;148:13</p> <p><b>boilers (1)</b> 146:9</p> <p><b>bold (1)</b> 106:20</p> <p><b>boots (1)</b> 104:17</p> <p><b>Boston (1)</b> 50:17</p> <p><b>both (8)</b> 12:1;27:18;28:20; 53:16;86:6,7;98:4; 152:14</p> <p><b>bought (2)</b> 62:12,13</p> <p><b>bound (1)</b> 31:2</p> <p><b>Bowater (2)</b> 145:3,9</p> <p><b>branches (10)</b> 34:11;35:16;44:1; 99:12,22;101:11,14; 102:1,7;153:16</p> <p><b>brand (1)</b> 109:11</p> <p><b>Bravakis (148)</b> 4:20,22;9:2;15:22; 16:2,4,7,13,22;17:3,6; 27:3,23;28:12,23;29:18; 30:4;31:5,10;32:13,22; 33:1,8,14;34:7;35:3; 36:3,6,18,21;37:16,21; 38:4,11;39:14,16,20,24; 40:7,15;41:19;42:3,6; 43:9,13,17;44:12;45:5,</p>	<p>22;46:12,23;48:3;50:10; 51:9,16,18,22;52:2,19; 53:4,7,14,16,22;57:2,6, 11,17;72:12;73:17;74:7, 11,14;80:10;88:24; 89:22;90:10;91:22; 94:11;95:17;96:3,12; 97:3;98:8;100:2;102:16, 20;104:1,10;106:2,5,15, 20;107:24;108:5,11; 109:1;110:13,18,24; 111:1,4,6,12;112:20; 113:9;119:10,13,23; 123:10;127:20;128:22, 24;130:10;133:7;135:2, 15,24;136:4;137:16; 138:3;139:17,20;140:2, 8,11;142:23;143:8; 144:6;145:1,5,9,13; 146:4,6,14;148:23; 149:7,10;151:18;152:13, 21,24;153:7;154:9,18; 155:4;157:3</p> <p><b>break (1)</b> 67:12</p> <p><b>breakdown (1)</b> 128:15</p> <p><b>brief (1)</b> 50:2</p> <p><b>bring (9)</b> 35:1;47:23;48:24; 49:5;50:21;90:24; 102:23;104:16;121:18</p> <p><b>bringing (2)</b> 36:19;136:12</p> <p><b>broad (1)</b> 4:13</p> <p><b>broader (1)</b> 153:6</p> <p><b>broker (1)</b> 127:11</p> <p><b>brook (1)</b> 133:13</p> <p><b>Brooks (14)</b> 4:8,9,10,12,24;26:21; 32:8;39:5,7;46:2;54:15; 57:8;74:17;77:3</p> <p><b>brought (4)</b> 119:23;124:5,10; 154:14</p> <p><b>Brownfields (1)</b> 18:15</p> <p><b>bubbling (1)</b> 146:10</p> <p><b>build (4)</b> 6:7;109:10;132:3; 140:5</p> <p><b>building (13)</b> 15:8;22:14;55:23; 56:10,17;116:10,14,24; 117:1;122:17,18;140:1; 148:13</p> <p><b>buildings (2)</b></p>
<b>B</b>				
<p><b>Babcock (5)</b> 62:5;70:15;75:19; 144:21;146:7</p> <p><b>back (16)</b> 5:13;14:9;30:22; 31:22;49:4,6,17;50:22; 57:19;83:3;124:6;127:7; 129:7;140:22;141:9; 157:17</p> <p><b>background (5)</b></p>				

<p>15:16;122:17  <b>built (7)</b>  12:3;48:7;91:15;  92:21;101:19;131:14;  135:18  <b>bulk (1)</b>  49:14  <b>bunch (2)</b>  120:11;158:14  <b>BURACK (49)</b>  4:3;19:17;22:17,20;  23:4;24:6,10;60:5,17;  64:5;72:8;74:12,19;  75:5,12;76:8,20;77:1,5,  10,15,19;79:3,12,18;  80:8,19;83:7,13,23;  84:15,18;85:9,13,20;  86:9;87:8;98:11,17;  108:20;127:1;132:17;  138:13,16;144:9;  148:19;157:9,18;158:18  <b>burden (1)</b>  105:2  <b>Burgess (8)</b>  31:22;32:1;37:5;99:9;  120:8;143:17;149:16,20  <b>burn (6)</b>  110:9,16,18,20;111:5,  6  <b>burned (1)</b>  111:19  <b>burning (3)</b>  50:13;90:9;96:8  <b>burns (1)</b>  68:10  <b>bury (1)</b>  55:4  <b>business (15)</b>  44:8,17,18;47:14;  53:12;78:13;79:2;109:5,  6;122:7;130:16;131:15;  135:8;143:18;152:16  <b>businesses (4)</b>  119:21;121:23;  122:21;142:21  <b>busy (1)</b>  115:7  <b>buy (3)</b>  36:1,8;133:1  <b>buying (1)</b>  135:4  <b>byproduct (1)</b>  34:15</p>	<p>143:15  <b>call (2)</b>  69:20;71:1  <b>called (2)</b>  46:20;148:9  <b>calls (1)</b>  35:21  <b>came (9)</b>  5:17;29:10;30:9;31:1;  32:12,13;60:10;94:1;  143:16  <b>can (85)</b>  6:1,7;8:2;9:8;10:9,17;  11:1,3;12:20;13:24;  20:1;22:8,10,21;23:6;  24:3,12;25:2,3;26:5;  27:15,18;28:7,20;30:15,  16;33:22;42:11;45:8;  47:9;49:19,21;52:19;  53:5;57:6,13;59:21;  60:4;64:11;68:23;72:1;  73:24;75:7;83:11;84:9;  85:14,18;86:5,21;88:1,  15,24;91:7,11;94:16;  95:6;96:19;103:2;  106:13,17;111:3;  112:18;114:1,11,13,22;  116:15;119:17;120:4;  123:20;132:7;134:3;  136:6;143:13;145:14;  147:9;150:15,21;156:4,  17,23;157:4,5,16;158:5  <b>Canada (5)</b>  48:12,12;49:1,6,12  <b>candidates (1)</b>  126:21  <b>cap (4)</b>  23:14,17;24:16;25:16  <b>capable (1)</b>  119:9  <b>capacity (9)</b>  55:1;67:21;68:1,14;  94:8,20,23;141:1;156:22  <b>capital (1)</b>  109:7  <b>captioned (1)</b>  26:1  <b>capture (2)</b>  120:4;121:1  <b>Carberry (3)</b>  55:2,4;58:9  <b>carbon (1)</b>  103:9  <b>care (1)</b>  118:11  <b>careful (3)</b>  133:11;138:4;141:24  <b>carry (1)</b>  48:10  <b>carve-out (1)</b>  20:8  <b>carve-outs (2)</b>  20:3;21:5</p>	<p><b>cascade (1)</b>  45:14  <b>case (3)</b>  58:3;146:12;152:17  <b>cases (2)</b>  67:3,5  <b>cash (1)</b>  45:10  <b>Catskills (1)</b>  49:4  <b>cause (5)</b>  5:19;14:5;21:12;  71:13;115:24  <b>caused (1)</b>  18:7  <b>causing (2)</b>  11:18;140:6  <b>certain (5)</b>  83:11;95:5;114:5;  135:1;154:20  <b>certainly (7)</b>  14:3;78:3;111:12;  125:15;138:3,10;155:5  <b>certainty (1)</b>  42:13  <b>certificate (1)</b>  137:23  <b>certificates (1)</b>  88:19  <b>certification (1)</b>  35:12  <b>certified (3)</b>  28:4;136:2;137:14  <b>certify (1)</b>  137:24  <b>cetera (5)</b>  41:10;92:3;102:4;  128:17,17  <b>chain-link (1)</b>  23:1  <b>CHAIRMAN (53)</b>  4:3;19:17;22:17,20;  23:4;24:6,10;60:2,5,17;  63:20;64:5;72:8;74:12,  19;75:1,5,12;76:8,20;  77:1,3,5,10,15,19;79:3,  12,18;80:8,19;83:7,13,  23;84:15,18;85:9,13,20;  86:9;87:8;98:11,17;  108:20;127:1;132:17;  138:13,16;144:9;  148:19;157:9,18;158:18  <b>challenge (3)</b>  124:13,16;125:17  <b>challenges (1)</b>  124:17  <b>challenging (1)</b>  132:11  <b>change (13)</b>  28:3;69:10;84:4;  93:24;96:4;124:1,3,20;  125:5,9,10,17;142:22  <b>changes (3)</b></p>	<p>81:9;93:19;104:6  <b>changing (2)</b>  32:4;52:9  <b>characterization (3)</b>  20:8;34:6;129:9  <b>characterize (2)</b>  100:12;102:24  <b>characterized (1)</b>  12:6  <b>characterizing (2)</b>  11:12;37:6  <b>chart (14)</b>  22:8;59:14,16;60:10,  22;61:3,11,19;63:5;  81:17;83:5;84:20;87:4;  99:16  <b>cheap (1)</b>  36:1  <b>check (2)</b>  133:5;147:6  <b>checked (1)</b>  134:24  <b>chemicals (1)</b>  113:6  <b>chief (1)</b>  113:9  <b>chip (3)</b>  38:18;49:21;122:11  <b>chipped (1)</b>  43:20  <b>chippers (1)</b>  43:23  <b>chipping (2)</b>  116:9,10  <b>chips (10)</b>  34:20;40:17;51:1;  68:12;90:1;111:2,7,14;  116:19,22  <b>chloro-alkali (6)</b>  12:20,23,24;13:5;  14:7;15:5  <b>choice (1)</b>  96:8  <b>choose (1)</b>  151:8  <b>chose (1)</b>  119:7  <b>circles (2)</b>  31:13;32:3  <b>circumstances (1)</b>  71:20  <b>City (18)</b>  11:5,5,21,21;59:10;  105:7,13;106:1;110:5,  15;113:10;114:1,24;  115:19;119:10,17;  123:4;131:14  <b>city's (7)</b>  110:6,7;113:23;114:3;  116:4;117:5;119:17  <b>claims (2)</b>  20:12,17  <b>clarification (2)</b></p>	<p>63:24;64:8  <b>clarified (2)</b>  64:3;141:4  <b>clarify (6)</b>  46:3;65:19;77:23;  79:4;84:9;140:17  <b>clarity (1)</b>  94:2  <b>Clean (3)</b>  16:9;106:9;110:21  <b>clear (4)</b>  24:7;64:4;74:2;139:22  <b>clear-cut (1)</b>  95:14  <b>clear-cuts (1)</b>  155:14  <b>clears (1)</b>  50:24  <b>client (1)</b>  47:11  <b>clients (1)</b>  47:9  <b>client's (1)</b>  80:5  <b>close (6)</b>  30:15;56:8;105:1;  139:4,18,20  <b>closed (10)</b>  50:18;58:7,7,10;  79:21;89:21,22,23;  152:23;157:8  <b>closely (2)</b>  113:4;124:11  <b>closer (3)</b>  34:12;52:4;130:9  <b>closing (1)</b>  20:17  <b>clumped (1)</b>  101:24  <b>CNTS (1)</b>  18:12  <b>CO2 (5)</b>  7:16,23;8:5,12,17  <b>codified (1)</b>  14:16  <b>cohesive (1)</b>  124:23  <b>colleague (4)</b>  53:10;91:24;109:4;  112:1  <b>collect (2)</b>  34:4;117:16  <b>collectively (1)</b>  103:4  <b>collectors (1)</b>  34:3  <b>co-locate (3)</b>  119:22;121:23;122:21  <b>combination (3)</b>  43:20;102:1;152:13  <b>combined (1)</b>  120:8  <b>combustion (4)</b></p>
<b>C</b>				
<p><b>C02 (3)</b>  7:20,21;8:21  <b>calculate (1)</b>  107:22  <b>calculations (1)</b>  142:15  <b>Caldwell (1)</b></p>				

54:9;110:21;111:10; 116:9 <b>comfort (1)</b> 86:6 <b>comfortable (2)</b> 78:3,15 <b>coming (9)</b> 89:13;90:2;95:12; 134:23;144:13;150:5,9; 154:7,9 <b>commence (1)</b> 74:23 <b>comment (1)</b> 33:16 <b>comments (1)</b> 113:16 <b>commercial (3)</b> 71:1;78:13;79:1 <b>Commission (1)</b> 86:20 <b>commissioning (1)</b> 71:2 <b>commitment (3)</b> 28:8;42:6;97:9 <b>committed (2)</b> 6:4;11:7 <b>Committee (16)</b> 4:7;20:10;23:6;76:4; 78:2,4;81:13;82:18; 84:3;108:16;109:23; 132:23;137:19;143:6, 11;158:11 <b>Commonwealth (1)</b> 89:6 <b>communiy (3)</b> 105:17;117:14;123:23 <b>companies (2)</b> 83:6,9 <b>company (13)</b> 37:9;83:17;85:2,7; 86:15;104:4,6;107:23; 118:23;124:9;125:2,5; 126:2 <b>comparable (1)</b> 114:13 <b>compared (5)</b> 8:18;15:5;81:12; 153:14,21 <b>compete (2)</b> 131:18;149:24 <b>competition (1)</b> 40:12 <b>competitive (7)</b> 34:13;41:11;97:13; 104:24;150:8;151:6; 152:20 <b>competitor (1)</b> 149:17 <b>complete (3)</b> 63:6;71:8;125:24 <b>completed (2)</b> 8:7;23:18 <b>completes (1)</b>	126:23 <b>completing (1)</b> 70:20 <b>complex (1)</b> 67:11 <b>comply (6)</b> 73:1,10,12;92:21,21; 96:24 <b>complying (2)</b> 127:18,22 <b>component (5)</b> 50:1;106:3;120:1; 122:14;128:2 <b>components (1)</b> 116:7 <b>compounds (1)</b> 12:17 <b>comprehensive (1)</b> 117:2 <b>Conceivably (1)</b> 38:4 <b>concentrations (1)</b> 14:16 <b>concept (3)</b> 50:5;122:5;154:4 <b>concern (2)</b> 13:11;104:8 <b>concerned (1)</b> 101:17 <b>concerning (1)</b> 16:18 <b>concerns (5)</b> 15:7,21;16:11;111:11; 113:23 <b>conclusion (5)</b> 106:6,12,14,15,18 <b>conclusions (1)</b> 154:3 <b>concrete (1)</b> 125:19 <b>concurring (1)</b> 147:12 <b>condition (16)</b> 27:3;36:7;57:3;74:4,8, 10;95:18,19;106:2; 110:15;123:4;127:9,13; 132:22;134:6;136:3 <b>conditioned (1)</b> 112:13 <b>conditions (14)</b> 18:6;44:7;95:23;97:6; 98:9;100:24;114:3; 115:18;116:2;127:19, 23;128:5;147:22;154:11 <b>conducted (9)</b> 12:9,12;14:11,20; 17:4;35:5;114:23; 118:18;148:9 <b>conducting (1)</b> 11:8 <b>confer (1)</b> 77:13 <b>confidence (3)</b>	140:1,5;152:5 <b>confident (4)</b> 98:2;102:11;157:4,5 <b>confidential (13)</b> 27:5;76:3,5,15,23; 78:11,12;79:22;87:14, 15;90:13;108:17;110:1 <b>confidentiality (2)</b> 78:20;135:5 <b>confidentially (3)</b> 76:6,12;78:2 <b>confirm (2)</b> 138:20;139:6 <b>confirmation (1)</b> 54:24 <b>confused (1)</b> 68:2 <b>Congress (1)</b> 7:21 <b>connect (3)</b> 40:18;44:20;121:15 <b>connected (4)</b> 91:8;120:11;121:14; 150:19 <b>connecting (1)</b> 59:21 <b>connection (3)</b> 52:22;61:20;85:2 <b>connections (1)</b> 48:18 <b>conservation (2)</b> 136:5,17 <b>conservative (1)</b> 153:18 <b>consider (4)</b> 99:12;130:13;138:3, 10 <b>consideration (5)</b> 115:18,19;118:4,6; 142:2 <b>considered (2)</b> 88:5;142:24 <b>considering (2)</b> 117:3;139:15 <b>consistent (2)</b> 76:4;116:3 <b>constant (2)</b> 130:8;142:9 <b>constantly (2)</b> 98:1;111:19 <b>construct (1)</b> 132:3 <b>constructed (3)</b> 13:19;15:4;111:21 <b>construction (24)</b> 11:17;62:2,6,8;68:18; 69:2,9,13,14,19,22;70:4, 20,23;73:5,13;110:11, 16,19;113:22;119:2; 125:2,23;126:17 <b>construction-related (1)</b> 70:1 <b>constructive (1)</b>	113:16 <b>consultant (3)</b> 11:22;16:8;149:4 <b>consultants (1)</b> 109:17 <b>consulted (2)</b> 52:15;133:18 <b>consume (3)</b> 31:21;121:24;152:7 <b>consumed (4)</b> 32:10;104:22;129:20; 151:16 <b>consumers (3)</b> 129:17;131:6;132:14 <b>consuming (1)</b> 129:15 <b>consummate (1)</b> 85:24 <b>consummated (1)</b> 86:8 <b>consumption (8)</b> 99:5,7;107:2;131:8; 149:7,14;151:21,23 <b>contact (3)</b> 15:20;55:3;80:17 <b>contain (2)</b> 76:2,23 <b>contained (3)</b> 56:1;87:3;110:1 <b>containing (1)</b> 79:1 <b>contains (1)</b> 108:19 <b>contaminants (6)</b> 9:7,12,21;20:14; 21:17,22 <b>contamination (9)</b> 12:15;13:7;18:23; 20:15,19;21:2,8;22:4; 23:12 <b>contemplated (2)</b> 10:3;84:23 <b>contemplating (1)</b> 140:20 <b>content (2)</b> 108:13,13 <b>contention (1)</b> 96:18 <b>context (1)</b> 88:8 <b>continue (2)</b> 39:4;138:17 <b>continues (1)</b> 84:22 <b>continuing (3)</b> 57:23;86:3;113:21 <b>continuous (2)</b> 118:5;142:3 <b>contours (1)</b> 85:19 <b>contract (19)</b> 39:4,10,19;40:12,18, 22;41:16;43:4;50:22;	62:8;63:1,3,13;69:24; 70:10;71:9;78:1;128:1,7 <b>contracting (1)</b> 70:14 <b>contractor (7)</b> 36:11;41:6,8;49:19; 67:2;69:18,21 <b>contractors (7)</b> 41:12;43:23;101:6; 134:2;135:10;143:21; 152:15 <b>contracts (6)</b> 44:14,21;52:5;70:16; 104:18,18 <b>contractual (2)</b> 62:21;127:24 <b>contractually (1)</b> 128:4 <b>contrary (1)</b> 41:7 <b>contributed (1)</b> 20:23 <b>control (16)</b> 5:11,21;6:10;7:2,4,6, 16;47:6;67:1;93:3;96:4; 112:10,14;118:15; 144:20;148:7 <b>controlled (1)</b> 54:10 <b>controls (3)</b> 24:20,23;93:14 <b>convene (1)</b> 158:20 <b>conversation (1)</b> 114:17 <b>conversely (1)</b> 130:5 <b>conversions (1)</b> 145:2 <b>convert (1)</b> 121:5 <b>converted (3)</b> 131:14;145:20;146:10 <b>converting (1)</b> 96:9 <b>conveyed (1)</b> 58:10 <b>conveyors (1)</b> 116:21 <b>convinced (2)</b> 42:10,15 <b>cooling (7)</b> 116:12;121:4;147:17, 20,24;148:4,10 <b>cooperation (1)</b> 12:12 <b>Coos (2)</b> 91:7;104:9 <b>copies (2)</b> 86:15,21 <b>cops (1)</b> 155:6 <b>corner (1)</b>
--	---	---	---	---

97:17 <b>corporate (1)</b> 81:10 <b>corporation (2)</b> 81:24;82:3 <b>corrected (1)</b> 51:19 <b>correctly (1)</b> 37:6 <b>correspondence (1)</b> 15:18 <b>cost (1)</b> 24:15 <b>costs (3)</b> 34:14;109:7;131:1 <b>counsel (15)</b> 4:6,10;17:8,18;18:11; 19:18;22:2;24:7;26:1; 27:6;72:10;77:18;78:7; 84:2;139:14 <b>counterintuitive (1)</b> 35:18 <b>Country (2)</b> 33:6;46:20 <b>County (1)</b> 104:9 <b>couple (9)</b> 13:14;14:24;27:16; 32:7;57:9;84:1;123:24; 127:4;142:13 <b>course (2)</b> 70:9;111:4 <b>Court (3)</b> 51:5;93:22;132:24 <b>Cousineau (31)</b> 39:9,14,15,21;40:16; 42:6,22;43:11;44:8; 45:2,7,12,15,20;46:4,8, 16;47:3,20;75:20;78:9; 104:12;105:24;106:4; 127:11,14,22;128:3; 134:7;135:6;137:20 <b>C-O-U-S-I-N-E-A-U (1)</b> 39:16 <b>covenant (5)</b> 17:9,19;18:24;19:9; 20:4 <b>covenants (2)</b> 18:15,16 <b>cover (4)</b> 4:13;23:14,17,20 <b>covers (1)</b> 20:17 <b>CPD (1)</b> 78:5 <b>CPD's (1)</b> 78:7 <b>CPE (7)</b> 5:8,12,15,20,23;6:19, 19 <b>create (2)</b> 31:11;33:22 <b>created (4)</b>	23:11;49:8;116:20; 142:2 <b>creates (1)</b> 42:13 <b>credit (2)</b> 71:22;72:4 <b>crews (1)</b> 104:14 <b>cross (1)</b> 133:13 <b>cross-examination (2)</b> 4:5,11 <b>cross-examined (1)</b> 81:4 <b>crux (1)</b> 130:2 <b>crystal (1)</b> 131:4 <b>curious (2)</b> 32:11;37:6 <b>current (4)</b> 69:15;107:2;151:21; 154:11 <b>currently (6)</b> 22:24;38:22;58:22; 107:9;109:18;142:16 <b>current-use (2)</b> 136:21;137:6 <b>cut (4)</b> 34:18;36:1;45:7;96:6 <b>cutters (1)</b> 33:21 <b>cutting (2)</b> 36:16;90:4	<b>deaths (1)</b> 66:20 <b>debarking (1)</b> 50:12 <b>debris (3)</b> 110:12,17,19 <b>decade (2)</b> 7:24;9:1 <b>decides (1)</b> 62:17 <b>decision (5)</b> 4:21,24;6:23;7:8; 124:16 <b>decision-making (1)</b> 124:24 <b>deed (1)</b> 24:21 <b>deepest (1)</b> 10:2 <b>defer (4)</b> 53:10;57:10;91:24; 94:11 <b>deferred (2)</b> 94:14,17 <b>define (2)</b> 135:24;154:24 <b>defined (3)</b> 30:8,10;100:24 <b>definitely (1)</b> 94:2 <b>degree (5)</b> 11:16;56:19;86:5; 139:24;140:4 <b>degrees (1)</b> 121:9 <b>delays (1)</b> 71:13 <b>deliberation (1)</b> 143:7 <b>delighted (1)</b> 156:15 <b>deliver (2)</b> 37:11;105:2 <b>delivered (2)</b> 91:12;108:11 <b>delivery (5)</b> 37:15;43:12;47:5; 49:14;111:17 <b>demand (1)</b> 50:16 <b>demands (1)</b> 154:8 <b>demolition (3)</b> 110:11,16,19 <b>demonstrate (1)</b> 97:8 <b>demonstrated (1)</b> 148:2 <b>Department (4)</b> 19:6;113:1,5;146:19 <b>departments (1)</b> 112:16 <b>deal (2)</b> 93:16;94:5	32:1 <b>depends (2)</b> 108:5;150:18 <b>deposed (1)</b> 53:11 <b>depth (1)</b> 13:20 <b>derived (2)</b> 32:21;110:10 <b>DES (1)</b> 5:13 <b>describe (8)</b> 33:6;48:20;59:22; 71:24;72:9;139:18; 146:20;150:15 <b>described (4)</b> 24:18;79:6;134:18; 143:1 <b>description (3)</b> 82:7,9,13 <b>design (5)</b> 93:12;113:10,17; 140:19;148:4 <b>designated (1)</b> 28:16 <b>designed (4)</b> 43:17;55:19;110:20; 117:15 <b>designer (1)</b> 144:22 <b>desire (1)</b> 85:23 <b>destined (1)</b> 44:2 <b>detail (2)</b> 45:23;140:9 <b>detailed (1)</b> 76:22 <b>details (5)</b> 41:19;65:11;121:10; 137:16;156:21 <b>detected (1)</b> 14:22 <b>determine (1)</b> 14:21 <b>determined (3)</b> 116:5;156:20,22 <b>detrimental (1)</b> 40:14 <b>develop (2)</b> 122:13;124:15 <b>developed (3)</b> 97:21;122:5;137:16 <b>developers (2)</b> 101:18;119:6 <b>developing (1)</b> 133:20 <b>Development (12)</b> 16:10;62:3;68:17; 69:2,7;93:12;96:5; 106:9;116:6;122:8,19; 125:23 <b>device (4)</b>	5:21;47:23;56:6; 116:16 <b>difference (1)</b> 37:21 <b>different (11)</b> 15:2;30:20;42:24; 46:19;48:23;49:13; 70:15;72:23;81:19; 129:6;133:18 <b>difficult (7)</b> 10:6;44:6;68:11; 103:12;122:13;130:11; 131:17 <b>difficulties (2)</b> 45:13;67:8 <b>direct (3)</b> 47:9;80:14;158:9 <b>directed (1)</b> 57:16 <b>direction (1)</b> 42:18 <b>director (1)</b> 64:20 <b>directors (3)</b> 25:9;81:15;82:5 <b>disadvantage (1)</b> 97:14 <b>disadvantageous (1)</b> 138:6 <b>disagree (2)</b> 106:13,15 <b>disagreed (1)</b> 106:12 <b>disallow (1)</b> 97:18 <b>discharged (1)</b> 148:8 <b>disclose (1)</b> 84:7 <b>disclosure (1)</b> 78:24 <b>discrepancy (1)</b> 30:3 <b>discuss (2)</b> 16:14;29:2 <b>discussed (8)</b> 9:14;55:6;69:10;70:9; 78:6;119:24;124:2; 155:2 <b>discussing (1)</b> 141:14 <b>discussion (4)</b> 73:19;77:17;104:8; 142:19 <b>discussions (6)</b> 27:5;28:6;32:14; 51:10;54:22;143:21 <b>dispatched (1)</b> 91:18 <b>Disposal (2)</b> 54:24;59:2 <b>disruption (1)</b> 45:4
	<b>D</b>			

<p><b>dissipated (1)</b> 121:3</p> <p><b>distances (1)</b> 47:24</p> <p><b>distinct (2)</b> 41:11;104:24</p> <p><b>District (2)</b> 54:24;59:2</p> <p><b>disturbance (1)</b> 14:4</p> <p><b>disturbing (1)</b> 9:12</p> <p><b>Division (1)</b> 5:14</p> <p><b>document (13)</b> 20:6;21:10;24:2; 58:14,18;76:14;77:14; 78:12,17,19;90:15; 108:17;127:19</p> <p><b>documentation (1)</b> 32:19</p> <p><b>documents (15)</b> 17:7,16;75:24;76:5,6, 12,23;77:23;78:22;79:1, 7,23;83:19;87:14,15</p> <p><b>dollar (1)</b> 27:14</p> <p><b>done (23)</b> 13:21;14:1,9;35:8,10; 41:21,24;46:23;55:10; 88:3;97:2,11;98:2,3; 118:23;121:19;122:4; 128:11;144:22,23;146:2, 7;147:20</p> <p><b>dots (1)</b> 40:18</p> <p><b>dotted (4)</b> 59:20;61:21,22;63:12</p> <p><b>dovetail (1)</b> 137:8</p> <p><b>down (31)</b> 15:3;29:14;33:2,4; 36:1;45:14;48:13;49:2, 5,7,15;50:19;58:11; 67:11,12,13;90:5,24; 92:19;100:16;120:15, 22;121:13;130:4;131:8; 132:15;143:3;145:16, 17;156:24;157:1</p> <p><b>downtime (2)</b> 67:6,16</p> <p><b>downtown (2)</b> 115:1,6</p> <p><b>dozens (1)</b> 118:24</p> <p><b>draft (1)</b> 12:6</p> <p><b>drainage (1)</b> 9:19</p> <p><b>drastically (2)</b> 130:4;131:8</p> <p><b>draw (1)</b> 138:18</p>	<p><b>drawing (1)</b> 88:9</p> <p><b>drawings (1)</b> 113:13</p> <p><b>Driessen (4)</b> 15:19,20;16:3,7</p> <p><b>drift (1)</b> 148:6</p> <p><b>drilling (3)</b> 9:16;100:16;143:3</p> <p><b>drive (2)</b> 101:4,7</p> <p><b>droplets (1)</b> 148:7</p> <p><b>dry (1)</b> 7:4</p> <p><b>due (3)</b> 53:9;91:19;148:4</p> <p><b>Dummer (15)</b> 17:10;26:2,3,5,7,9,13, 14;57:19,24;58:3,6,10, 20,24</p> <p><b>during (8)</b> 44:5;52:14;70:4;80:5; 114:7;115:3;136:8; 148:12</p> <p><b>dust (2)</b> 112:10,13</p> <p><b>dynamic (3)</b> 32:4;50:3;150:18</p>	<p>96:21;109:1;137:8</p> <p><b>effective (1)</b> 94:9</p> <p><b>efficiencies (2)</b> 38:24;39:2</p> <p><b>efficiency (2)</b> 6:9,10</p> <p><b>efficient (5)</b> 6:2;30:18;37:15; 48:17;123:21</p> <p><b>effort (1)</b> 105:10</p> <p><b>efforts (1)</b> 105:19</p> <p><b>eggs (1)</b> 46:21</p> <p><b>Eighty-seven (1)</b> 94:24</p> <p><b>either (5)</b> 10:16;44:23;49:20; 69:12;130:8</p> <p><b>elaborate (1)</b> 109:5</p> <p><b>electricity (1)</b> 52:24</p> <p><b>electrostatic (5)</b> 6:2,20,54;10,13;56:9</p> <p><b>eliminators (1)</b> 148:6</p> <p><b>else (5)</b> 38:9;74:16;119:7; 131:5;144:23</p> <p><b>elsewhere (2)</b> 144:22;151:11</p> <p><b>e-mail (2)</b> 12:14,18</p> <p><b>emission (8)</b> 5:17,22;6:7,15;93:14; 146:20,21;147:3</p> <p><b>emission-control (2)</b> 22:15;116:24</p> <p><b>emissions (5)</b> 7:13;8:9,17;103:9; 147:11</p> <p><b>emitted (1)</b> 117:6</p> <p><b>employees (2)</b> 25:9;81:16</p> <p><b>enclosed (1)</b> 22:24</p> <p><b>encompass (1)</b> 10:23</p> <p><b>encounter (1)</b> 15:16</p> <p><b>encountering (2)</b> 10:4;13:24</p> <p><b>encouraging (1)</b> 122:21</p> <p><b>end (7)</b> 28:14;31:17;73:6; 105:23;109:5;124:19; 128:13</p> <p><b>Energy (19)</b></p>	<p>61:16;64:16,22;82:3; 83:16;84:10,21;85:10; 86:12,20;96:10;116:13; 118:24;119:11,21; 121:11;131:1,10;142:2</p> <p><b>enforcement (4)</b> 127:15,20,21;134:24</p> <p><b>enforcing (1)</b> 127:12</p> <p><b>engage (1)</b> 155:18</p> <p><b>engineer (3)</b> 17:23;25:12,19</p> <p><b>engineering (1)</b> 121:19</p> <p><b>engineers (2)</b> 123:11;145:15</p> <p><b>England (1)</b> 88:21</p> <p><b>enhance (1)</b> 93:13</p> <p><b>enough (5)</b> 42:10;100:14;101:8; 139:21;152:6</p> <p><b>ensure (1)</b> 80:4</p> <p><b>enter (2)</b> 35:4;155:21</p> <p><b>enterprise (2)</b> 44:9;69:3</p> <p><b>entertain (1)</b> 155:1</p> <p><b>entirely (1)</b> 26:12</p> <p><b>entities (14)</b> 51:12;64:2,21;81:11, 16,19;82:11,16,22;83:4, 9;86:13;129:21;138:23</p> <p><b>entitled (2)</b> 72:3;79:21</p> <p><b>entity (6)</b> 20:20;82:14;84:11,20; 106:10;124:21</p> <p><b>entity's (1)</b> 82:7</p> <p><b>entry (1)</b> 34:1</p> <p><b>enumerated (1)</b> 123:3</p> <p><b>environment (2)</b> 115:6;151:7</p> <p><b>environmental (7)</b> 11:1;16:8;19:7;92:7; 133:3;140:6;146:19</p> <p><b>envisioned (1)</b> 71:5</p> <p><b>envisioning (1)</b> 10:18</p> <p><b>EPA (6)</b> 7:19;8:10,13;13:6; 92:12;93:4</p> <p><b>EPA's (2)</b> 8:3,8</p>	<p><b>EPC (2)</b> 4:19;69:23</p> <p><b>Equipment (3)</b> 67:12;116:19;144:20</p> <p><b>equipped (1)</b> 47:13</p> <p><b>equity (2)</b> 59:19;62:15</p> <p><b>equivalent (4)</b> 117:24;118:3,4;142:1</p> <p><b>especial (2)</b> 35:6;103:11</p> <p><b>essentially (8)</b> 7:11;20:22;22:11; 23:9;44:9;117:15;121:3; 152:5</p> <p><b>establishing (1)</b> 117:19</p> <p><b>estimate (5)</b> 94:21;106:22,24; 109:13;149:6</p> <p><b>et (5)</b> 41:10;92:3;102:4; 128:17,17</p> <p><b>evaluate (2)</b> 118:17;147:24</p> <p><b>evaluated (1)</b> 115:17</p> <p><b>evaluation (1)</b> 24:17</p> <p><b>evaluations (1)</b> 13:20</p> <p><b>even (13)</b> 6:8;9:18;10:4,15; 38:16;73:12;94:15; 107:8;116:20;119:6; 124:22;136:20;149:20</p> <p><b>evening (1)</b> 114:7</p> <p><b>event (4)</b> 71:17;125:16,21; 131:12</p> <p><b>eventual (1)</b> 156:7</p> <p><b>everybody (1)</b> 24:5</p> <p><b>everybody's (1)</b> 96:14</p> <p><b>everything's (1)</b> 154:7</p> <p><b>evolved (1)</b> 122:4</p> <p><b>exact (2)</b> 56:5;92:13</p> <p><b>exactly (9)</b> 4:23;29:20;30:23; 48:3;64:14;94:3;126:9; 137:17;146:13</p> <p><b>EXAMINATION (8)</b> 87:21;98:13;103:23; 127:5;132:19;139:10; 144:11;148:21</p> <p><b>example (13)</b></p>
	<b>E</b>			
	<p><b>earlier (5)</b> 33:18;80:11;89:14; 94:19;138:20</p> <p><b>early (4)</b> 41:8;79:24;113:10; 114:7</p> <p><b>ears (1)</b> 114:20</p> <p><b>easement (1)</b> 121:13</p> <p><b>easements (1)</b> 102:22</p> <p><b>easily (1)</b> 15:10</p> <p><b>east-west (1)</b> 103:11</p> <p><b>easy (1)</b> 122:9</p> <p><b>economic (6)</b> 40:13;94:22;107:22; 122:19;123:22;138:5</p> <p><b>economically (4)</b> 8:23;88:22;105:18; 150:9</p> <p><b>economics (1)</b> 31:6</p> <p><b>economy (1)</b> 40:10</p> <p><b>effect (6)</b> 76:9;88:22;92:16;</p>			

31:20;38:14;46:20; 49:1,3;50:2;56:3;63:10; 70:15;114:11;130:24; 138:24;156:23 <b>excavations (2)</b> 11:11;13:17 <b>exceeded (1)</b> 118:8 <b>except (1)</b> 78:5 <b>exception (3)</b> 81:24;96:11;148:24 <b>excess (7)</b> 107:2,5;121:20; 122:24;123:7,8,10 <b>Exchange (3)</b> 86:19;121:6,12 <b>exclude (2)</b> 41:6;110:10 <b>exclusions (1)</b> 78:23 <b>excuse (6)</b> 30:12;56:13;60:1,2; 63:21;146:6 <b>execute (1)</b> 104:17 <b>exemption (1)</b> 95:24 <b>exhaust (1)</b> 54:9 <b>exhibit (28)</b> 19:14,19;24:7,8; 26:24;60:3,12,14,15,17; 61:2;81:18,18;83:5; 84:14,16;98:18,23; 105:13;109:24;110:6,8; 114:3;119:16;128:23; 132:21;134:19;139:14 <b>ex-in-laws (1)</b> 59:18 <b>exist (3)</b> 10:1;40:20;107:9 <b>existed (1)</b> 21:10 <b>existence (1)</b> 149:18 <b>existing (22)</b> 6:18;9:15;14:6;15:17; 18:5,22;20:15,19;21:1,8, 17;31:24;45:10;91:15; 95:4;101:16;115:2,18; 116:2;122:3,16;144:16 <b>exists (2)</b> 6:21;101:22 <b>expanding (1)</b> 12:4 <b>expansion (1)</b> 47:23 <b>expect (10)</b> 23:22;29:24;65:6,12; 66:12;68:12;76:1;77:8; 80:17,22 <b>expectation (2)</b>	119:20;125:22 <b>expectations (1)</b> 138:11 <b>expected (2)</b> 56:8;109:19 <b>expediting (1)</b> 76:17 <b>experience (5)</b> 82:14;112:4;114:20; 130:20;146:15 <b>experienced (1)</b> 115:11 <b>expert (1)</b> 118:14 <b>expertise (1)</b> 118:16 <b>experts (3)</b> 107:18;109:18;118:21 <b>explain (5)</b> 36:23;52:11;106:13; 113:1;155:7 <b>explained (2)</b> 37:17;43:22 <b>explaining (2)</b> 100:23;104:11 <b>explanation (1)</b> 57:15 <b>explore (3)</b> 28:9,12,22 <b>exposure (1)</b> 23:16 <b>extend (1)</b> 58:18 <b>extensively (1)</b> 116:17 <b>extent (2)</b> 10:15;105:17 <b>extreme (1)</b> 48:8	113:15;117:7;120:5,16; 136:13,15;144:16,18; 145:18,20;146:23;147:1, 2;150:6;156:23 <b>facility's (1)</b> 114:5 <b>fact (16)</b> 9:14;14:17,22;17:2; 25:21;38:2;91:20;92:18; 107:6;124:10,18; 136:24;140:24;144:15; 149:16;151:19 <b>factor (5)</b> 67:22;68:1,14;94:20, 23 <b>factory (2)</b> 95:15;96:2 <b>factually (1)</b> 141:4 <b>fail (1)</b> 44:8 <b>fair (3)</b> 34:5;53:21;129:9 <b>fairly (1)</b> 146:21 <b>fall (1)</b> 95:22 <b>familiar (20)</b> 13:10;17:13,15;18:15, 21;21:5,16;22:5;24:22; 26:3,12,14;32:15,17; 42:9;71:21;72:6,15; 97:23;134:12 <b>familiarity (1)</b> 21:22 <b>far (7)</b> 7:15;30:17;44:15; 96:19;124:19;126:7; 141:20 <b>farm (3)</b> 136:4,19;137:5 <b>fashion (2)</b> 36:4;158:9 <b>faster (1)</b> 153:20 <b>favor (1)</b> 18:24 <b>favorable (2)</b> 8:16;55:7 <b>feasible (1)</b> 105:18 <b>federal (1)</b> 36:10 <b>feed (1)</b> 89:16 <b>feet (2)</b> 10:1,4 <b>felt (4)</b> 47:1;98:6;147:13; 155:7 <b>fence (1)</b> 23:1 <b>Fervee (1)</b>	66:5 <b>few (9)</b> 13:18;16:16;17:14; 41:17;89:24;126:11,20; 134:14;139:12 <b>fewer (1)</b> 130:4 <b>FIA (1)</b> 153:17 <b>fiber (3)</b> 106:23;131:13;156:4 <b>fiber's (1)</b> 131:19 <b>Fibrominn (4)</b> 59:17;66:18,21;68:9 <b>Fibrowatt (8)</b> 59:17;61:12,13;62:10; 64:16,23;70:7,17 <b>field (1)</b> 107:19 <b>figure (6)</b> 27:18;32:21,21,24; 59:13;123:12 <b>filed (3)</b> 55:18;140:24;158:3 <b>filing (3)</b> 5:9;84:8,12 <b>filings (2)</b> 86:19;88:2 <b>fill (2)</b> 107:10;151:13 <b>filter (7)</b> 6:1;30:7;102:12; 120:14,20;122:2,3 <b>filtration (1)</b> 6:9 <b>final (6)</b> 24:17,17;92:24;93:10; 121:19;146:18 <b>finalized (3)</b> 55:19;56:6;128:8 <b>finalizing (2)</b> 93:6,11 <b>finally (1)</b> 142:12 <b>financial (3)</b> 45:13;79:2;108:1 <b>financially (2)</b> 18:4;27:11 <b>find (3)</b> 45:1;47:18;94:16 <b>fine (4)</b> 5:19;17:24;53:13; 141:13 <b>finished (2)</b> 48:14,24 <b>finishing (1)</b> 86:4 <b>fire (7)</b> 62:19,19;112:16,24; 113:3,5,9 <b>firm (2)</b> 118:18;125:11	<b>firmly (1)</b> 107:17 <b>firms (1)</b> 119:8 <b>First (19)</b> 13:15;21:20;25:3; 30:7;40:23;48:7;51:16; 73:5;81:14;94:9;100:2, 13;111:14,18,18;123:18; 133:8;139:12;153:1 <b>first-in/first-out (1)</b> 111:16 <b>fit (1)</b> 59:15 <b>five (2)</b> 86:18;133:23 <b>flammable (2)</b> 111:3;112:11 <b>flipside (1)</b> 129:16 <b>floor (2)</b> 34:24;50:19 <b>Florida (2)</b> 145:10,10 <b>flow (2)</b> 45:11;153:4 <b>fluctuate (1)</b> 130:3 <b>fluctuations (1)</b> 109:16 <b>fluid (1)</b> 150:18 <b>fluidized (1)</b> 146:10 <b>fly (4)</b> 54:8;55:11;140:14,21 <b>focused (1)</b> 12:2 <b>focusing (1)</b> 18:14 <b>fogging (2)</b> 148:1,4 <b>folks (6)</b> 32:16;48:23;75:6; 122:20;124:8;143:16 <b>follow (2)</b> 33:14;60:4 <b>followed (2)</b> 4:6;141:21 <b>following (3)</b> 24:16;81:14;100:12 <b>follow-on (1)</b> 32:7 <b>follow-up (4)</b> 16:17;73:18;127:7; 157:16 <b>footings (2)</b> 13:17;15:15 <b>foreseeable (1)</b> 109:20 <b>forest (10)</b> 34:24;35:9;44:4,6; 96:16;97:10;136:14;
	<b>F</b>			
	<b>fabric (1)</b> 6:1 <b>fabric-filter (3)</b> 5:10;54:18;140:22 <b>facilities (17)</b> 8:13;31:19,23;33:5; 55:11,12;92:18;93:4; 99:1,2,2,3;101:16;132:4; 146:23;150:3,21 <b>facility (59)</b> 6:18;7:13;13:2,21; 30:16,17;36:14;38:19; 40:23;41:13;42:11;44:3; 45:15;47:4;51:8;58:16, 21;59:9;65:24;66:22; 67:13,18;68:9,10,13; 71:3;74:1;85:3;89:3,17; 90:16;94:20;97:20; 99:14,14;100:3,4;101:3; 103:16;104:19;105:3; 109:9;110:9;112:23;			





<p><b>helps (2)</b> 118:12;132:16</p> <p><b>Henniker (1)</b> 104:5</p> <p><b>Henniker-based (1)</b> 104:6</p> <p><b>high (6)</b> 33:7;43:6;86:5;90:20; 131:1;156:11</p> <p><b>high-efficiency (1)</b> 148:6</p> <p><b>higher (5)</b> 6:8;29:15;68:14;90:8; 118:10</p> <p><b>higher-use (1)</b> 102:3</p> <p><b>highest (3)</b> 96:13;99:6;156:1</p> <p><b>high-grade (2)</b> 35:14;155:16</p> <p><b>high-level (1)</b> 30:7</p> <p><b>highly (1)</b> 116:8</p> <p><b>high-value (1)</b> 50:14</p> <p><b>hire (2)</b> 44:23;155:20</p> <p><b>hiring (1)</b> 118:13</p> <p><b>Hmm-hmm (3)</b> 74:7,11;119:13</p> <p><b>hold (7)</b> 19:14;87:12;91:7; 140:20;155:24;157:11, 20</p> <p><b>Holdings (1)</b> 63:11</p> <p><b>holes (1)</b> 6:12</p> <p><b>Homeland (18)</b> 59:21;61:14,14,16,20; 62:10,20;63:8,14;64:15, 22;68:18;69:5,8;70:5,8, 17;82:3</p> <p><b>homework (1)</b> 46:24</p> <p><b>honor (1)</b> 88:12</p> <p><b>hope (1)</b> 119:5</p> <p><b>hopefully (1)</b> 17:12</p> <p><b>hopes (1)</b> 86:4</p> <p><b>hot (4)</b> 120:3;121:5,7;122:24</p> <p><b>hour (2)</b> 141:19;157:10</p> <p><b>hours (5)</b> 114:8;115:3;117:20; 141:2;148:12</p> <p><b>hour's (1)</b></p>	<p>141:16</p> <p><b>house (6)</b> 22:14;120:15,20; 122:2,3,23</p> <p><b>houses (1)</b> 116:14</p> <p><b>huge (1)</b> 50:16</p> <p><b>hundred (3)</b> 31:9;91:18;150:10</p> <p><b>hundred-mile (1)</b> 31:3</p> <p><b>hundred-percent (2)</b> 64:13;65:8</p> <p><b>hydrants (1)</b> 113:14</p> <p><b>hypothetical (2)</b> 48:21;101:20</p> <hr/> <p style="text-align: center;"><b>I</b></p> <hr/> <p><b>IACOPINO (9)</b> 57:12;61:1;80:20; 98:22;109:22;128:22; 129:1;157:12;158:10</p> <p><b>icing (2)</b> 148:1,3</p> <p><b>idea (5)</b> 38:7;89:10;91:7; 148:24;149:4</p> <p><b>Ideally (1)</b> 73:4</p> <p><b>identical (1)</b> 78:21</p> <p><b>identified (5)</b> 22:3;83:18;126:15; 133:24;151:9</p> <p><b>identify (5)</b> 19:18;82:22;126:18; 134:14;153:10</p> <p><b>ie (1)</b> 96:22</p> <p><b>IGNAGTIUS (1)</b> 103:19</p> <p><b>IGNATIUS (3)</b> 103:24;108:21;110:3</p> <p><b>II (2)</b> 20:11,17</p> <p><b>impact (3)</b> 8:5;14:6;148:10</p> <p><b>impacts (1)</b> 13:12</p> <p><b>implication (1)</b> 63:7</p> <p><b>implies (1)</b> 63:7</p> <p><b>important (5)</b> 42:12,20;63:22;74:5,9</p> <p><b>impose (3)</b> 95:11;97:6;115:20</p> <p><b>imposing (1)</b> 97:18</p> <p><b>improperly (1)</b></p>	<p>41:24</p> <p><b>improvement (1)</b> 37:13</p> <p><b>inadvertently (1)</b> 133:13</p> <p><b>Inasmuch (1)</b> 58:14</p> <p><b>Inc (2)</b> 82:4;84:21</p> <p><b>incentive (3)</b> 27:10;35:24;73:22</p> <p><b>include (5)</b> 12:1;68:2;110:23; 118:12;154:4</p> <p><b>included (2)</b> 88:2;153:15</p> <p><b>includes (3)</b> 68:7;70:24;71:2</p> <p><b>including (5)</b> 7:16;10:21;32:15; 68:4;144:19</p> <p><b>inconsistent (1)</b> 115:5</p> <p><b>increase (1)</b> 116:1</p> <p><b>increasing (1)</b> 37:10</p> <p><b>independent (1)</b> 11:4</p> <p><b>indicate (1)</b> 13:22</p> <p><b>indicated (8)</b> 13:15;23:19;54:7,21; 76:1;78:18;113:20; 133:1</p> <p><b>indicating (1)</b> 122:1</p> <p><b>indication (1)</b> 67:23</p> <p><b>individual (2)</b> 80:13,21</p> <p><b>individuals (4)</b> 28:11;80:13,21; 138:23</p> <p><b>industrial (3)</b> 112:23;116:6;122:14</p> <p><b>industry (2)</b> 48:24;132:10</p> <p><b>inefficiencies (1)</b> 41:2</p> <p><b>information (16)</b> 33:9,15;76:23;78:13; 79:2;84:7;85:4,6;86:11, 12,14;87:6;88:3;89:12; 108:19;138:21</p> <p><b>informing (3)</b> 19:8;84:3,4</p> <p><b>infrastructure (1)</b> 130:18</p> <p><b>ingenuity (1)</b> 131:1</p> <p><b>initial (3)</b> 60:23;61:1;102:12</p>	<p><b>initially (4)</b> 12:4;56:15;58:3;62:9</p> <p><b>injection (3)</b> 6:6,16;7:4</p> <p><b>injuries (1)</b> 66:21</p> <p><b>INRS (1)</b> 143:14</p> <p><b>inside (1)</b> 55:22</p> <p><b>insignificant (1)</b> 81:9</p> <p><b>install (1)</b> 104:19</p> <p><b>installation (1)</b> 15:15</p> <p><b>installed (4)</b> 14:10,13;16:19; 109:12</p> <p><b>instead (6)</b> 6:24;41:16;49:19; 99:19;121:7;122:9</p> <p><b>institute (1)</b> 111:15</p> <p><b>institutional (2)</b> 24:20,23</p> <p><b>instrumentation (1)</b> 117:13</p> <p><b>intact (1)</b> 16:20</p> <p><b>intend (2)</b> 76:9;137:20</p> <p><b>intent (2)</b> 41:4;86:6</p> <p><b>intention (2)</b> 39:18;140:11</p> <p><b>interconnection (4)</b> 90:13;91:2,9;92:2</p> <p><b>interest (8)</b> 59:19;62:11,16;63:15; 64:1,17;84:22;85:1</p> <p><b>interested (1)</b> 122:20</p> <p><b>interesting (3)</b> 32:11;33:18;133:8</p> <p><b>interjects (3)</b> 51:5;93:22;132:24</p> <p><b>interplay (1)</b> 38:6</p> <p><b>interpolate (1)</b> 154:1</p> <p><b>interrupt (3)</b> 20:1;57:13;108:15</p> <p><b>interrupting (1)</b> 146:6</p> <p><b>interviews (4)</b> 32:13;143:16,18,20</p> <p><b>into (40)</b> 9:21;14:2;15:10; 16:24;34:17,19;35:4; 38:12;41:15;44:6;86:24; 87:2;88:14;91:1,2;97:1; 100:7,8;102:6;103:7;</p>	<p>107:6;118:3,6,10; 120:14;123:16;125:24; 134:13;135:17;136:12; 142:1;150:5,9;155:2,21; 156:3,5,6,21;158:17</p> <p><b>introduced (2)</b> 17:12;19:13</p> <p><b>intrusive (1)</b> 11:10</p> <p><b>investigation (3)</b> 11:16;14:9;21:21</p> <p><b>investigations (2)</b> 12:8;13:6</p> <p><b>investment (1)</b> 71:22</p> <p><b>involved (7)</b> 35:13;69:13;119:1,6; 124:6;131:9;147:10</p> <p><b>involvement (1)</b> 125:1</p> <p><b>irrespective (1)</b> 69:9</p> <p><b>ISO (1)</b> 92:2</p> <p><b>issue (6)</b> 23:14;33:20;54:3; 113:3;142:6;154:19</p> <p><b>issued (3)</b> 19:8;88:19;146:18</p> <p><b>issues (7)</b> 16:14;23:11,15;84:6; 104:2;135:5,5</p> <p><b>item (1)</b> 29:4</p> <p><b>items (1)</b> 138:19</p> <hr/> <p style="text-align: center;"><b>J</b></p> <hr/> <p><b>Janelle (4)</b> 98:12,14,19,24</p> <p><b>Jay (1)</b> 150:21</p> <p><b>John (1)</b> 145:2</p> <p><b>join (1)</b> 155:22</p> <p><b>judgment (1)</b> 35:21</p> <p><b>jury (1)</b> 75:13</p> <hr/> <p style="text-align: center;"><b>K</b></p> <hr/> <p><b>keep (8)</b> 45:16,17;48:9;100:11; 109:6;122:5;129:5; 134:5</p> <p><b>Kent (3)</b> 148:19,20,22</p> <p><b>Kentucky (5)</b> 145:3,4,5,18;146:16</p> <p><b>kept (4)</b></p>
---	--	--	--	--

57:5;89:13;102:21; 122:16 <b>key (3)</b> 7:1;49:24;91:23 <b>kilowatt (1)</b> 109:12 <b>kind (23)</b> 9:17;10:17;29:14; 37:3;40:9,13;41:17; 43:5;45:20;47:22;73:18, 23;74:5;84:7,11;89:10; 101:22,23;118:16;127:7, 10;135:13;158:8 <b>kindly (1)</b> 80:20 <b>knowledge (6)</b> 23:8;47:16;91:17; 107:19;124:3;130:20 <b>known (1)</b> 134:8 <b>Kusche (3)</b> 92:1;94:12;112:1	<b>large (11)</b> 8:4;40:11;99:14; 100:3,4;112:22;140:15; 142:10;143:22,23;148:5 <b>largely (1)</b> 23:13 <b>largest (1)</b> 131:6 <b>last (5)</b> 25:24;61:7;84:14; 115:9;125:15 <b>later (3)</b> 89:9;103:16;114:1 <b>law (2)</b> 36:15;78:24 <b>laws (3)</b> 36:10;133:3,10 <b>laying (1)</b> 34:23 <b>leachate (6)</b> 17:10;26:2,15;58:9, 20,24 <b>leakage (1)</b> 23:11 <b>learned (5)</b> 30:13;31:10;101:10, 23;133:21 <b>lease (1)</b> 63:11 <b>least (7)</b> 8:14;11:22;12:7; 17:19;55:17;94:22; 132:11 <b>leave (6)</b> 25:23;34:23;44:11,17; 88:15;89:8 <b>leave-behind (1)</b> 37:10 <b>leaving (7)</b> 34:11;37:11;49:19; 103:1;154:5,20;156:13 <b>led (1)</b> 113:17 <b>left (7)</b> 102:7;103:13;106:9; 107:11;132:14;154:13, 15 <b>legal (2)</b> 18:3;21:10 <b>legislation (1)</b> 8:22 <b>Leq (4)</b> 117:24;118:2,11; 141:15 <b>less (15)</b> 34:14;37:12;46:15; 51:23;52:7;96:9;98:1; 99:4,5,22;105:1;107:16; 135:17;151:1,3 <b>letter (2)</b> 19:8,13 <b>level (16)</b> 6:17;7:3;12:11;14:3;	17:17;18:19;96:13; 114:4,19,20;118:3,5,8; 140:8;142:1,4 <b>levels (17)</b> 9:24;10:5,8;14:14,21; 15:3,3;113:24;115:2,10; 116:1,3;117:14,16,18, 24;142:10 <b>licensed (1)</b> 136:22 <b>life (1)</b> 157:5 <b>lifeblood (1)</b> 120:16 <b>light (2)</b> 64:11;157:10 <b>likely (4)</b> 8:10;13:24;52:7; 142:21 <b>limbs (1)</b> 154:13 <b>limit (1)</b> 98:6 <b>limitations (4)</b> 97:24;146:22;147:11, 14 <b>limited (1)</b> 10:22 <b>limits (2)</b> 97:18;146:20 <b>line (13)</b> 53:16;59:20;61:21,22; 63:12,13;64:3;70:19; 91:19,20;114:5,7;117:9 <b>lines (1)</b> 82:9 <b>link (1)</b> 48:17 <b>liquidation (1)</b> 155:14 <b>liquor (1)</b> 146:9 <b>list (6)</b> 81:6;105:13;119:17; 126:20;138:19;158:2 <b>listed (3)</b> 81:17,19;83:4 <b>listen (1)</b> 62:18 <b>lists (1)</b> 98:16 <b>litter (1)</b> 68:10 <b>little (9)</b> 21:15;42:4;52:4;54:3; 89:11;90:22;104:2; 150:8;152:8 <b>live (3)</b> 65:14;66:13,14 <b>LLC (3)</b> 61:22;83:16;85:10 <b>LLCs (2)</b> 81:23;82:1	<b>LLEG (1)</b> 83:19 <b>load (3)</b> 49:21;90:19;111:18 <b>loads (1)</b> 90:23 <b>local (12)</b> 41:6,8;50:22,23; 105:5,11,21;112:15; 126:13;130:4;150:1; 151:16 <b>localized (2)</b> 34:5,9 <b>locally (3)</b> 38:8;129:12,18 <b>located (11)</b> 21:17;22:11;26:8,9, 10;40:2;56:2,8,10,16; 58:8 <b>location (6)</b> 12:2;41:13;56:18; 104:7;113:13;117:6 <b>locations (3)</b> 114:24;142:9;149:22 <b>locking (1)</b> 41:15 <b>log (2)</b> 43:24;156:1 <b>logger (4)</b> 35:21,24;38:16; 133:12 <b>loggers (2)</b> 104:9;135:1 <b>logging (8)</b> 34:16;36:11;43:23; 104:14;134:1;135:20; 143:21;152:15 <b>logistics (2)</b> 43:11;104:23 <b>logs (5)</b> 35:16;48:12;49:5; 102:4;143:19 <b>long (4)</b> 66:24;102:9;126:9; 155:12 <b>longer (4)</b> 62:15;84:24;110:15; 149:18 <b>longevity (1)</b> 142:19 <b>long-term (4)</b> 24:16;41:16;126:10; 132:9 <b>long-winded (1)</b> 132:12 <b>look (23)</b> 10:12;20:10;27:9,21; 40:24;44:22;60:22; 61:19;63:10;73:10; 84:14;86:23;87:2;93:9; 94:3;114:22;115:14; 143:2,6,9;150:13; 151:23;153:8	<b>looked (16)</b> 30:5,8;46:24;72:17, 19;105:9;113:20; 116:20,22;153:12,13,17, 18;154:10,11;157:3 <b>looking (20)</b> 7:20,21;16:24;20:2; 27:7,13;28:18;49:16; 50:20;70:22;73:13; 90:17;99:15,20;116:17, 18;119:14;126:17; 140:22;144:1 <b>looks (4)</b> 36:24;59:15;61:7; 99:20 <b>Loop (1)</b> 91:7 <b>lost (1)</b> 150:10 <b>lost-workday (2)</b> 67:3,5 <b>lot (15)</b> 29:4;49:11;95:1; 99:22;112:3;129:17; 130:6;131:1;136:14,14; 137:7;143:15;154:13; 155:8,10 <b>lots (2)</b> 129:13,13 <b>Lou (1)</b> 112:13 <b>loud (2)</b> 24:4;116:16 <b>louder (1)</b> 141:20 <b>Loulakis (1)</b> 66:6 <b>low (6)</b> 33:7;108:7,23;123:17; 132:1;155:17 <b>lower (7)</b> 5:17,22;6:6,15;109:8; 148:13,14 <b>lower-priced (1)</b> 91:21 <b>lowest (1)</b> 35:19 <b>low-grade (11)</b> 34:4;38:12;49:20; 50:9;100:5;101:24; 106:23;130:15;131:19; 154:23;156:11 <b>low-part-per-million (1)</b> 10:8 <b>lumber (4)</b> 48:14;49:1;90:6;95:6 <b>lunch (3)</b> 4:1;52:10,15
<b>L</b>				
<b>Ladies (1)</b> 75:12 <b>LAER (1)</b> 7:12 <b>Laidlaw (25)</b> 10:22;11:5;12:10,22; 13:11,12;58:18;59:6; 61:15,16,21;62:17;63:9, 11;84:21;86:11,20; 88:23;89:17;91:17; 105:19;106:23;124:7; 127:14;133:1 <b>land (16)</b> 35:12,19,22;36:1,17; 55:9,9;96:5;121:14; 136:14,15;137:5;155:10, 12,24;156:3 <b>land-clearing (1)</b> 50:23 <b>landfill (5)</b> 26:8;55:2;58:7,9,10 <b>landowner (3)</b> 35:13;36:16;156:17 <b>landowners (3)</b> 27:11;137:4;155:18 <b>lands (5)</b> 136:2,5;137:13,14; 155:20 <b>landscape (1)</b> 50:14 <b>LandVest (19)</b> 29:4,9,21;30:5,22; 37:24;80:12,17;98:15; 101:5;102:12;106:17; 142:13;143:8,12,15; 144:2;151:14;157:8 <b>LandVest's (1)</b> 30:6				
<b>M</b>				
				<b>Maine (12)</b> 31:20,23;37:3;38:9;

49:11,13,22;112:3; 129:23;130:14;150:22; 151:10 <b>maintain (3)</b> 25:15;48:9;120:21 <b>maintained (1)</b> 41:7 <b>maintaining (1)</b> 155:19 <b>maintenance (4)</b> 24:16;62:2;67:11; 126:4 <b>majority (1)</b> 99:11 <b>makers (1)</b> 129:15 <b>makes (3)</b> 6:11;101:3;123:21 <b>making (6)</b> 35:21;48:18;85:5; 107:21;122:10;136:11 <b>manage (5)</b> 42:23;43:11;45:8; 68:12;120:19 <b>managed (1)</b> 10:10 <b>management (12)</b> 35:11;41:10;44:14; 45:9;62:3;65:13;67:8; 136:16,20;155:21; 156:18,18 <b>manager (6)</b> 65:22;66:2,12;126:12, 15,19 <b>managing (3)</b> 69:23;82:2;155:20 <b>manner (3)</b> 41:9;97:11;111:21 <b>manufacturers (2)</b> 129:19;132:6 <b>many (11)</b> 4:14;7:21;35:10; 55:11;64:2;99:7;134:13; 146:7,7,8,8 <b>margin (1)</b> 47:5 <b>margins (1)</b> 48:9 <b>market (25)</b> 31:11;32:18;34:10; 35:20;37:2,4,7;38:7; 40:4,13;42:9;45:12; 48:16;49:16;50:3;74:6; 88:21;94:7;100:24; 109:16,19;132:13; 150:17;154:8,12 <b>markets (15)</b> 30:14,20;33:23;38:22; 40:20;48:5,6;49:13; 102:3,4,5;103:5;132:2; 155:17;156:11 <b>Massachusetts (6)</b> 50:17;88:4,9,17,20;	89:7 <b>match (1)</b> 91:4 <b>material (9)</b> 38:12;55:2,8,10; 100:5;111:24;130:15; 131:7,20 <b>materials (6)</b> 11:13,14;55:18; 110:10;139:6;143:5 <b>math (1)</b> 29:6 <b>matter (3)</b> 14:17;66:10;76:5 <b>matters (1)</b> 53:12 <b>maximize (1)</b> 155:11 <b>maximum (2)</b> 93:2;141:3 <b>May (28)</b> 5:3;8:14;11:5,5;12:9; 18:6;19:4;21:2;23:1; 27:4;29:2;31:7;36:7; 42:3;46:6;53:12;56:18; 57:18;64:2,14;75:1; 76:19;82:16;83:19; 94:11;129:4;140:24; 146:4 <b>maybe (16)</b> 9:8;10:24;34:7;44:5; 49:4;52:16;57:1;71:24; 88:13;89:8;91:1;92:5; 130:24,24;133:15;151:3 <b>mean (16)</b> 46:9;54:13,15;56:11; 62:10;71:7,19;74:2; 97:3;107:4;134:19; 143:23;150:24;151:1; 155:4,14 <b>meaning (2)</b> 129:18,21 <b>means (6)</b> 14:1;42:7;52:13,17; 120:5;155:15 <b>meant (2)</b> 95:2;151:2 <b>measure (4)</b> 117:11,13,16;128:19 <b>measurement (2)</b> 141:15;142:18 <b>measurements (6)</b> 114:23;115:14,15; 117:4;118:19;142:7 <b>mechanical (1)</b> 14:1 <b>meet (4)</b> 76:13;105:21;147:13; 154:8 <b>meeting (4)</b> 7:10;128:20;147:3; 158:12 <b>megawatts (1)</b>	90:19 <b>member (5)</b> 12:13;16:9;137:5; 145:6,11 <b>members (14)</b> 10:14;74:23;75:14; 78:3;79:8;82:1,2,4; 87:10,12,17;109:23; 139:2;158:11 <b>member's (1)</b> 15:6 <b>memory (1)</b> 101:12 <b>mention (1)</b> 154:23 <b>mentioned (13)</b> 4:18;12:16;30:11; 39:17;89:10;95:3;97:5; 99:9;109:10;139:13; 143:12;144:14,21 <b>mentions (2)</b> 12:18;90:16 <b>mercury (3)</b> 12:18;13:7;14:21 <b>met (4)</b> 27:19;48:1;97:21; 113:9 <b>metals (1)</b> 14:14 <b>meters (2)</b> 117:15;118:15 <b>methodology (1)</b> 100:18 <b>metric (1)</b> 54:2 <b>metrics (1)</b> 128:13 <b>Metropolitan (2)</b> 49:2;50:15 <b>Michael (2)</b> 53:10;84:16 <b>microphone (1)</b> 103:20 <b>microphones (1)</b> 114:17 <b>mid (1)</b> 108:7 <b>middle (1)</b> 33:12 <b>might (34)</b> 7:22,22;8:24;27:7; 37:8,23;38:15,17,22; 40:14,24;43:23;45:5,5; 49:9;65:19;68:9;70:2; 79:18;87:13;96:23; 100:22;103:4,7,10; 113:2;114:12;115:19; 119:22;135:5;149:20; 150:7;151:4;158:15 <b>Mike (1)</b> 65:9 <b>mile (1)</b> 13:3	<b>miles (7)</b> 30:16,17;31:9;38:13; 99:24;100:20;101:8 <b>milestone (1)</b> 73:8 <b>mill (31)</b> 13:2;31:22;32:2;35:2; 36:19;37:5;38:9;58:12; 99:9;105:6;106:11; 115:9,22,23;116:2; 120:2,7,8,8,15,19;123:1, 13,14,16;130:13;131:17; 143:17,23;149:17,20 <b>million (23)</b> 29:11,16;32:9;37:18; 89:15,18;99:10;100:6; 101:13;107:1,13;129:7; 130:1,14;131:7;132:14; 149:2;150:10;151:9,15; 152:2,3,11 <b>mills (17)</b> 29:13;31:7,23;49:6,7; 50:10;89:19;107:11; 129:14;138:7;143:23, 24;150:23;151:16,19,24; 152:2 <b>mind (4)</b> 18:10,14;96:14; 100:11 <b>minimal (1)</b> 15:3 <b>minimally (1)</b> 37:1 <b>minimum (3)</b> 91:8;141:2;156:22 <b>Minnesota (2)</b> 66:22;67:19 <b>minute (4)</b> 39:2;70:10;73:19; 108:15 <b>mispronouncing (1)</b> 68:16 <b>misstatements (1)</b> 88:7 <b>mistaken (3)</b> 59:3;83:19;141:9 <b>misunderstanding (2)</b> 46:6;84:8 <b>model (5)</b> 47:15;109:6;117:2; 131:15;148:10 <b>modeled (1)</b> 116:17 <b>modeling (4)</b> 118:20;147:23;148:2, 8 <b>modifications (2)</b> 113:17;144:18 <b>modifier (1)</b> 74:5 <b>moisture (2)</b> 108:12,13 <b>moment (6)</b>	11:7;20:4;77:13,16; 81:6;84:21 <b>monetary (1)</b> 12:11 <b>money (1)</b> 52:23 <b>monitor (1)</b> 28:21 <b>monitoring (5)</b> 10:20;14:10,13;16:18; 25:16 <b>month (1)</b> 125:15 <b>more (61)</b> 5:20;6:1;10:1;21:19; 26:19;29:7;30:13;32:3; 33:15,22;34:4,4;35:20; 37:14;38:8,15,16;42:4,8; 43:1;44:6;46:18,22; 47:6;52:8;54:4;55:7; 57:4,9;59:17;65:10,12; 68:11;73:16;80:1,11; 88:10;89:12,16;94:2; 97:23;99:19;100:1,17, 24;102:14;109:5; 123:16,21;124:23,23; 125:18;130:6;131:4; 135:16;143:8;150:8; 151:6;152:8;153:18,23 <b>morning (9)</b> 77:7,9;79:16;110:2; 114:7;148:23;157:19; 158:20,22 <b>most (14)</b> 7:11;52:7;81:2;82:18; 87:24;90:1;101:18; 103:12;107:17;118:1; 155:12,23;156:8,14 <b>mostly (1)</b> 40:2 <b>motion (8)</b> 75:17;76:9,18,21; 79:5,13,13,15 <b>motions (1)</b> 75:18 <b>motivated (1)</b> 34:22 <b>motivation (2)</b> 35:14,15 <b>Mount (3)</b> 55:2,4;58:8 <b>move (8)</b> 36:2;39:3;49:24; 65:16;66:14,15;103:8; 116:21 <b>moved (1)</b> 112:8 <b>movement (2)</b> 111:22;150:17 <b>movements (1)</b> 30:14 <b>moves (2)</b> 50:1;150:22
---	---	--	---	---

<p><b>Moving (6)</b> 9:5;37:9;45:17; 103:10;115:7;116:18 <b>much (32)</b> 4:10;9:16,21;10:12; 29:15;37:13;42:8;43:14, 14;48:4;51:14;53:24,24; 55:14;68:11,13;73:24; 91:7;96:13,18,21;106:8; 123:7,10,12,19;125:18; 127:2;130:2;148:18; 155:5;156:9 <b>multiple (2)</b> 11:24;99:1 <b>municipal (1)</b> 59:10 <b>mutually (1)</b> 125:7 <b>MUZZEY (2)</b> 139:11;144:7 <b>Muzzy (1)</b> 139:9 <b>myriad (1)</b> 40:19 <b>myself (1)</b> 153:9</p>	<p><b>negative (1)</b> 96:21 <b>negligent (3)</b> 20:18,24;21:7 <b>negotiated (1)</b> 11:21 <b>neither (1)</b> 33:10 <b>net (3)</b> 90:19,24;153:14 <b>network (1)</b> 150:23 <b>New (46)</b> 14:16;15:2;16:8; 39:22,24;40:2,5;49:2; 50:16;59:14,16;60:9; 61:19;63:6;65:14;66:4, 14;78:23;85:3,8,10,11; 88:10,21;89:4;92:10,16, 22;93:24;95:6,18;96:2; 104:5,22;106:10,11; 109:7,11;129:24; 130:23;132:8;134:1; 150:19,20;151:11; 153:22 <b>NewCo (12)</b> 61:24;62:22;63:1,3, 14,15;64:17,24;83:16; 84:10;85:10;126:5</p>	<p><b>northeastern (1)</b> 130:22 <b>northern (2)</b> 13:1;130:22 <b>Northrop (4)</b> 127:2,3,6;129:2 <b>note (2)</b> 87:2;138:24 <b>nowadays (1)</b> 48:6 <b>network (22)</b> 14:10,11;29:15,22; 30:22;32:11,12;55:20; 56:23;72:23;97:22; 100:14;105:15;117:20, 21;119:8;128:15,17; 130:3,5,7;144:1 <b>numbers (5)</b> 29:10;36:12;90:21; 114:11;117:19 <b>numerals (1)</b> 19:23 <b>numerous (2)</b> 47:8;121:22</p>	<p>36:9;133:3,24;134:9 <b>offenses (1)</b> 134:13 <b>offer (3)</b> 27:12;113:8;156:17 <b>offering (1)</b> 75:3 <b>offhand (1)</b> 83:1 <b>officer (1)</b> 64:20 <b>officers (2)</b> 25:8;81:15 <b>off-line (1)</b> 67:17 <b>off-site (1)</b> 43:21 <b>often (1)</b> 55:10 <b>oil (1)</b> 56:12 <b>old (3)</b> 115:22,23;122:11 <b>once (17)</b> 45:6;71:8;72:2;79:14; 84:23;98:3;107:7;119:3; 121:18;125:22;128:7; 133:15;149:14,23; 150:23;151:5,12</p>	<p>87:9;102:18;103:5 <b>operable (1)</b> 16:21 <b>operate (2)</b> 36:4;156:23 <b>operated (3)</b> 6:22;58:23;112:2 <b>operates (1)</b> 120:18 <b>operating (8)</b> 28:5;31:7;69:17; 115:15;119:3;149:14; 151:24;152:4 <b>operation (11)</b> 34:16;49:18;50:13,23; 66:21,24;67:7,16;70:7; 126:8;136:11 <b>operational (7)</b> 65:13;70:4;119:2; 125:24;126:3;145:23,24 <b>operations (13)</b> 38:13;50:12;61:13; 62:1;64:16,23;65:23; 66:1,3,17;71:1;125:3; 135:20 <b>operators (2)</b> 105:21;143:22 <b>opinion (2)</b> 125:21;131:3 <b>opportunities (2)</b> 93:13;107:7 <b>opportunity (5)</b> 49:9;75:3;105:5; 132:3;151:12 <b>opposed (1)</b> 48:6 <b>option (3)</b> 103:1,3,13 <b>oral (2)</b> 76:18;79:13 <b>order (9)</b> 4:4;7:3;54:11,18; 73:24;76:14;99:18; 114:18;148:15 <b>org (2)</b> 60:22;63:5 <b>organic (1)</b> 12:17 <b>organics (3)</b> 10:5,9;14:15 <b>organizational (5)</b> 60:10;61:11;81:17; 83:5;87:4 <b>organizations (2)</b> 97:22;133:19 <b>original (5)</b> 60:22;61:8,11;87:3,6 <b>originally (1)</b> 81:12 <b>ostensibly (1)</b> 141:6 <b>others (5)</b> 47:1;82:17;99:8;</p>
<b>N</b>		<b>O</b>		
<p><b>name (3)</b> 23:9;39:12;68:16 <b>named (2)</b> 15:19;51:11 <b>names (4)</b> 81:14,22;82:1;139:2 <b>natural (2)</b> 14:23;96:14 <b>near (1)</b> 7:24 <b>neat (1)</b> 31:13 <b>necessarily (3)</b> 34:8;151:1;155:14 <b>necessary (3)</b> 11:8;93:15,24 <b>need (20)</b> 7:2,6;13:18;15:17; 38:2;45:10,11,12;48:10, 10;89:11;94:2;99:17; 112:16;121:21;138:4,8; 141:9,23;158:16 <b>needed (3)</b> 104:9;133:11;140:10 <b>NEEDLEMAN (34)</b> 19:16;60:12,14,18,19; 75:16,22;76:16,24;77:8, 13,20,22;79:10,17;80:3, 7,9,16;81:18;82:23;83:2, 10,21;84:13,17,19; 85:12,18,22;86:23; 108:14;109:24;138:17 <b>needs (1)</b> 155:17</p>	<p><b>NewPage (2)</b> 100:5;130:13 <b>next (11)</b> 5:4;7:24;9:1;26:22; 28:17;39:19;53:16; 82:12,21;122:22;139:20 <b>nice (2)</b> 31:12;63:12 <b>Noble (1)</b> 91:13 <b>Nobody (1)</b> 34:17 <b>noise (7)</b> 113:23;114:2,4,10,24; 118:7;141:14 <b>noisy (2)</b> 116:7,8 <b>nominal (1)</b> 13:23 <b>non-operation (1)</b> 68:7 <b>nor (2)</b> 34:18;115:14 <b>normal (1)</b> 114:17 <b>normally (2)</b> 112:24;121:1 <b>north (4)</b> 22:13;33:6;46:20; 120:12 <b>northeast (9)</b> 48:16;50:2,15;55:13; 103:12;112:1;131:17; 132:10;156:9</p>	<p><b>objections (1)</b> 158:19 <b>obligated (2)</b> 123:18;128:4 <b>obligation (2)</b> 89:4;94:8 <b>obligations (2)</b> 27:20;128:1 <b>obtain (3)</b> 105:11;130:19;156:24 <b>obviously (10)</b> 9:6;34:13;46:23;96:3, 12;107:24;112:21; 144:14;147:17;149:3 <b>occasions (2)</b> 36:12;121:22 <b>occur (5)</b> 11:24;23:23;79:24; 124:4;147:21 <b>occurred (1)</b> 65:3 <b>occurrences (1)</b> 148:3 <b>occurring (2)</b> 133:6;142:11 <b>occurs (2)</b> 11:17;20:15 <b>October (1)</b> 67:2 <b>odd (1)</b> 71:16 <b>off (8)</b> 36:17;50:11;54:6; 77:17;87:4;90:18;112:8; 120:4 <b>offenders (4)</b></p>	<p><b>one (69)</b> 4:16,17;6:3;11:4,22; 14:17;15:6;16:16;19:23; 25:24;27:9,16;28:5; 29:23;31:17;35:3;38:20; 41:16;46:10,20,22; 47:10,11;49:10;50:2; 54:4,21;61:10;63:5,6; 73:16;75:2;80:11;81:23, 24;82:19;88:2,24;89:13; 91:21;92:5;94:9;97:4; 101:3,14;102:21;107:1; 108:15;109:2;110:4; 111:18;112:2;114:10, 21;122:6;127:7;129:3; 130:11;132:4,22;140:18, 21;144:14;145:3,10; 146:15;147:15;157:15, 23 <b>one-hour (1)</b> 118:1 <b>one-page (1)</b> 108:18 <b>ones (2)</b> 104:13;155:13 <b>one's (1)</b> 145:12 <b>ongoing (2)</b> 23:15;58:19 <b>only (9)</b> 14:24;17:17;18:18; 26:16;39:24;46:8;61:19; 71:15;101:5 <b>open (3)</b></p>	

<p>107:20;132:5  <b>otherwise (5)</b>                  18:5;87:16;90:2;                  97:19;115:20  <b>ours (1)</b>                  132:4  <b>ourselves (2)</b>                  97:17;138:5  <b>out (56)</b>                  14:12;24:4;27:18;                  29:6,10,21;31:17,19;                  36:6;41:17,20,22;42:10;                  47:18;48:19;54:9;59:13;                  62:12,14;64:2;67:7,16;                  88:7,8,17;90:2;93:5;                  94:1;99:23;100:20;                  101:7;104:4,15;107:19;                  108:23;109:3;121:10;                  123:1,12;130:16;131:6;                  132:1;133:8;137:21;                  149:3,22;150:4,23;                  151:5,10,16;152:16;                  154:7,10,14;158:16  <b>outages (2)</b>                  68:3,7  <b>outcome (2)</b>                  55:7;93:18  <b>output (2)</b>                  90:17,19  <b>outside (4)</b>                  30:9;31:1,9;57:4  <b>over (22)</b>                  8:24;10:12;12:14;                  41:11;44:24;47:6,8;                  67:1,4;90:22;107:1;                  117:17,19;125:18;129:5,                  5;138:1;141:15,19;                  142:5,8;155:12  <b>overall (1)</b>                  125:8  <b>overarching (1)</b>                  137:1  <b>overcome (1)</b>                  124:17  <b>over-harvest (1)</b>                  35:19  <b>overlaid (2)</b>                  101:22;107:14  <b>oversee (1)</b>                  69:8  <b>overseeing (3)</b>                  62:7;69:14,22  <b>oversight (2)</b>                  69:22;125:3  <b>overstocked (1)</b>                  156:9  <b>over-supply (1)</b>                  47:12  <b>own (10)</b>                  17:4;104:14,14;                  115:17;116:4;120:20;                  137:4;138:8;155:21,24  <b>owned (2)</b></p>	<p>58:22;83:16  <b>owner (9)</b>                  18:22;20:23;69:18;                  72:3;73:23;85:3,8,10,11  <b>owners (7)</b>                  18:1,7;83:8;105:21;                  143:18;146:1;155:11  <b>ownership (13)</b>                  62:11;63:15;64:1,17;                  69:10;81:10;84:5,9,22;                  85:1;89:11;124:1,20  <b>ownership-change (1)</b>                  65:2  <b>owning (3)</b>                  61:13,15;155:19  <b>owns (1)</b>                  120:18</p>	<p>11;134:17;137:6;138:9;                  147:11;148:5;151:8;                  155:12,24  <b>participate (2)</b>                  72:22,24  <b>participating (1)</b>                  128:18  <b>particular (3)</b>                  18:13;26:18;76:22  <b>particularly (1)</b>                  10:6  <b>particulate (4)</b>                  5:11,17;6:9,15  <b>parties (14)</b>                  25:7;78:4,5,16;79:7,                  21;80:4;81:5;86:6,7;                  124:12,13,14;158:19  <b>partners (1)</b>                  44:18  <b>parts (1)</b>                  156:6  <b>party (1)</b>                  58:23  <b>pass (2)</b>                  22:13;139:16  <b>past (10)</b>                  8:15;33:1,4;84:1;                  86:16,17,21;107:12;                  109:10;125:18  <b>pathway (1)</b>                  47:1  <b>patterns (1)</b>                  30:18  <b>pause (1)</b>                  77:16  <b>paved (1)</b>                  23:20  <b>pay (2)</b>                  52:21;139:4  <b>payment (2)</b>                  43:5;72:4  <b>PCB (3)</b>                  22:3;23:11,12  <b>pellet (4)</b>                  50:13;106:10;129:19;                  132:5  <b>Pennsylvania (2)</b>                  129:24;130:23  <b>people (19)</b>                  7:21;28:2;29:24;                  32:14,17;33:24;36:3;                  45:14;72:18;90:4;95:24;                  96:23;103:21;115:7,11;                  119:15;126:20;155:24;                  158:14  <b>per (8)</b>                  14:24;54:19;107:2;                  108:10,11;109:12;                  141:6;157:1  <b>percent (19)</b>                  46:14,14,15;51:23,24;                  61:13,17;67:22;68:6;                  88:21;91:18;98:7;118:9;</p>	<p>135:21,22;147:21;                  148:14,16;154:5  <b>percentage (6)</b>                  40:4;51:21,22;67:15;                  135:18;154:20  <b>perform (1)</b>                  7:7  <b>performance (1)</b>                  108:1  <b>performed (1)</b>                  146:24  <b>performing (1)</b>                  147:3  <b>perhaps (11)</b>                  18:20;19:5;20:4;                  21:16;22:21;35:24;                  52:14;83:15;120:6;                  150:7;151:8  <b>perimeter (3)</b>                  113:14;115:12;117:7  <b>period (9)</b>                  32:23;70:24;117:17;                  126:6;136:10;138:2;                  142:5,8;147:18  <b>periods (1)</b>                  80:6  <b>peripheral (1)</b>                  70:3  <b>periphery (1)</b>                  122:6  <b>permit (8)</b>                  5:1,5;6:5;92:9;106:3;                  123:5;146:18;158:2  <b>permitting (4)</b>                  7:10;8:4,7;147:12  <b>person (6)</b>                  15:19;34:22;57:15;                  88:1;91:24;124:21  <b>personal (2)</b>                  19:2;47:16  <b>personally (1)</b>                  64:18  <b>personnel (2)</b>                  44:22;104:19  <b>perspective (1)</b>                  8:16  <b>pertained (1)</b>                  85:6  <b>pertaining (2)</b>                  87:1,7  <b>Phase (5)</b>                  10:24;11:1;113:11;                  125:23;126:1  <b>phased (1)</b>                  132:8  <b>phases (1)</b>                  11:24  <b>picked (1)</b>                  71:5  <b>piece (2)</b>                  47:11;128:13  <b>piles (2)</b>                  111:20,21</p>	<p><b>pipes (2)</b>                  120:11;121:14  <b>piping (1)</b>                  120:21  <b>PJPD (3)</b>                  63:10,17;124:9  <b>place (10)</b>                  6:19;19:14;39:10;                  40:23;47:8;102:23;                  120:17;127:16;138:6;                  155:10  <b>placed (1)</b>                  72:3  <b>place-in-service (2)</b>                  71:4,14  <b>placement (1)</b>                  56:6  <b>places (2)</b>                  50:8;90:1  <b>placing (1)</b>                  70:20  <b>plan (11)</b>                  9:10;26:5;35:11;                  71:10;73:7,9,15;111:13,                  16;125:12;137:21  <b>planned (3)</b>                  68:3,5,7  <b>planning (2)</b>                  94:22;116:4  <b>plans (2)</b>                  110:18;113:12  <b>plant (54)</b>                  8:22;9:14;12:20,23,                  24;13:5;38:23;43:17;                  46:5;49:22;50:9;52:6;                  53:20;58:11;59:11;                  65:22;66:1,3,12;67:6;                  69:3;88:18;91:14;92:20;                  100:19;101:3,9;102:6;                  106:24;107:3,15;                  108:12;109:7,11,13;                  110:20;112:12;119:3;                  121:2;123:21;126:8,12,                  15,19;135:17;136:7,10;                  149:14;150:19;152:6;                  153:11;156:6,15;157:6  <b>plants (18)</b>                  8:18;34:17;35:17;                  40:1;48:7;51:1;67:10;                  88:11;91:15,16;92:11;                  97:6;99:21;111:24;                  129:14,19;131:22;138:7  <b>plant's (1)</b>                  149:23  <b>play (3)</b>                  35:4;103:7,15  <b>players (2)</b>                  32:10;33:5  <b>please (13)</b>                  18:3;66:18;67:9;81:8,                  21;82:6,21;85:21;86:22;                  98:18;100:10;112:19;                  134:10</p>
--	--	--	---	---

<p><b>pleased (2)</b> 113:19;146:1</p> <p><b>plenty (1)</b> 144:4</p> <p><b>plume (2)</b> 147:24;148:12</p> <p><b>plumes (1)</b> 148:11</p> <p><b>plus (2)</b> 29:11;47:16</p> <p><b>pm (4)</b> 4:2;75:11,11;158:24</p> <p><b>point (19)</b> 4:8;9:11;10:3;22:8,21; 36:6;46:10;48:19;79:23; 96:18;100:22;102:23; 103:14;109:3;119:2,15; 140:18;145:21;150:14</p> <p><b>policy (2)</b> 128:21;137:12</p> <p><b>pollutants (2)</b> 20:13,24</p> <p><b>pollution (1)</b> 12:19</p> <p><b>pooling (1)</b> 147:19</p> <p><b>portion (5)</b> 37:7;38:21;47:24; 58:7;79:20</p> <p><b>portions (3)</b> 12:4;76:2;78:11</p> <p><b>position (3)</b> 8:11;41:7;85:15</p> <p><b>positions (2)</b> 8:15;107:12</p> <p><b>possibility (3)</b> 8:21;27:21;121:20</p> <p><b>possible (5)</b> 28:3;74:1;86:5; 141:20,23</p> <p><b>possibly (3)</b> 45:18;71:20;79:24</p> <p><b>post-clean-up (1)</b> 24:18</p> <p><b>potential (3)</b> 55:7;126:21;148:1</p> <p><b>potentially (1)</b> 43:21</p> <p><b>poultry (1)</b> 68:10</p> <p><b>Power (16)</b> 16:9;70:14;88:5,13, 14;91:11;92:15;99:2,3, 21;106:9;114:19;121:2; 122:22;142:4;147:17</p> <p><b>PPA (4)</b> 52:11;53:11;57:9,16</p> <p><b>practical (4)</b> 31:14;100:21;107:19; 130:21</p> <p><b>practice (4)</b> 51:8;155:19;156:13, 18</p>	<p><b>practices (5)</b> 134:1;154:17,22; 155:3;156:19</p> <p><b>precautions (1)</b> 111:2</p> <p><b>precipitator (5)</b> 6:3,21;54:11,14;56:9</p> <p><b>preclude (1)</b> 105:4</p> <p><b>prediction (1)</b> 7:19</p> <p><b>predictions (1)</b> 8:21</p> <p><b>predicts (1)</b> 148:11</p> <p><b>predominant (1)</b> 156:12</p> <p><b>predominantly (1)</b> 151:3</p> <p><b>pre-emptively (1)</b> 97:8</p> <p><b>pre-EPC (2)</b> 71:9;77:24</p> <p><b>prefer (2)</b> 28:1;53:8</p> <p><b>preference (2)</b> 28:1;137:13</p> <p><b>prefiled (1)</b> 5:1</p> <p><b>preliminary (1)</b> 11:23</p> <p><b>premise (1)</b> 152:4</p> <p><b>prepared (2)</b> 158:1,5</p> <p><b>preparing (1)</b> 139:6</p> <p><b>present (1)</b> 136:24</p> <p><b>presented (2)</b> 117:21,23</p> <p><b>preserve (1)</b> 96:15</p> <p><b>president (1)</b> 92:14</p> <p><b>pressure (2)</b> 48:8;118:10</p> <p><b>Presumably (1)</b> 45:12</p> <p><b>pretty (11)</b> 42:23;45:3;74:2; 83:11;96:13;106:8; 113:19;124:19;134:3; 139:22;156:9</p> <p><b>prevent (1)</b> 148:7</p> <p><b>previous (2)</b> 12:22;32:10</p> <p><b>previously (5)</b> 15:21;29:16;30:1; 46:3;69:15</p> <p><b>price (8)</b> 41:15;47:5;52:21,22;</p>	<p>53:2;90:8;107:21; 108:23</p> <p><b>prices (2)</b> 42:23;43:7</p> <p><b>pricing (5)</b> 41:19;89:8;108:2; 109:21;152:22</p> <p><b>primarily (5)</b> 58:19;68:10;78:12; 112:10;147:24</p> <p><b>principal (2)</b> 7:7;81:16</p> <p><b>principals (1)</b> 80:5</p> <p><b>prior (5)</b> 13:21;18:7;81:3; 83:24;84:7</p> <p><b>prioritize (1)</b> 105:20</p> <p><b>pro (3)</b> 108:18;109:2,23</p> <p><b>probably (16)</b> 10:14;31:20,24;33:14; 39:21;57:20;68:8,21; 70:18;80:1;94:14; 107:15;123:15;125:14; 141:9;150:2</p> <p><b>problem (7)</b> 112:12,17;115:24; 135:3,9;150:21;158:7</p> <p><b>problematic (1)</b> 81:7</p> <p><b>problems (1)</b> 140:7</p> <p><b>proceeding (6)</b> 4:4;76:17;78:5,16,22; 79:7</p> <p><b>process (7)</b> 8:11;45:8;88:9;93:6; 124:24;128:19;147:12</p> <p><b>procure (1)</b> 143:19</p> <p><b>procured (3)</b> 32:16;143:17,19</p> <p><b>Procurement (5)</b> 46:21;97:15;110:22; 128:21;137:21</p> <p><b>procurers (1)</b> 46:19</p> <p><b>procures (1)</b> 135:6</p> <p><b>produce (2)</b> 40:17;123:12</p> <p><b>produced (3)</b> 53:20;54:1;129:22</p> <p><b>producers (2)</b> 40:22;107:1</p> <p><b>product (3)</b> 34:15;50:6;154:24</p> <p><b>production (1)</b> 67:24</p> <p><b>products (3)</b> 49:1;143:20;155:16</p>	<p><b>profile (1)</b> 123:17</p> <p><b>profit (1)</b> 34:22</p> <p><b>profits (1)</b> 135:20</p> <p><b>program (6)</b> 7:17;27:10;35:12; 72:2,22,24</p> <p><b>programs (8)</b> 28:5;41:10;136:16,17, 21;137:7;155:9,21</p> <p><b>prohibit (1)</b> 36:15</p> <p><b>project (59)</b> 8:6,6,9;12:2,3,22; 13:12,19;15:4;16:10; 21:6,11,14;22:9,15; 23:13,22;26:6;42:7; 43:15;47:2;55:14;57:23; 58:5,15;59:20;66:11; 69:9,23;72:19;82:8,15; 88:23;89:1;91:13;93:11; 94:4;97:12;106:10; 107:23;109:8;110:16; 113:2,7,11,22;115:17, 21;118:20;120:1; 121:24;124:6,15,18; 125:9;131:10;137:24; 142:7;146:15</p> <p><b>projected (1)</b> 67:21</p> <p><b>projects (6)</b> 101:17,18;116:14; 118:24;126:22;132:8</p> <p><b>promulgated (1)</b> 89:6</p> <p><b>pronoun (1)</b> 63:23</p> <p><b>propagate (1)</b> 14:4</p> <p><b>properly (4)</b> 11:11,14,18;41:21</p> <p><b>properties (1)</b> 136:21</p> <p><b>property (14)</b> 20:16;58:4;72:2; 73:23;114:5,6;115:12; 117:8,9;120:13,21; 122:7,8,14</p> <p><b>proposal (1)</b> 95:9</p> <p><b>propose (2)</b> 35:7;158:20</p> <p><b>proposed (15)</b> 6:4;15:8;22:12;82:15; 85:2,11;91:14;92:10,11; 93:5;94:20;106:23; 114:3;127:10;132:5</p> <p><b>prospective (1)</b> 98:7</p> <p><b>protect (2)</b> 78:24;96:14</p>	<p><b>protection (2)</b> 18:22;113:3</p> <p><b>provide (20)</b> 6:8;12:10;45:20;60:8; 61:24;66:9;79:6;81:14, 22;82:6,13;86:17,21; 120:3;123:2,19;124:21, 23;126:3;135:7</p> <p><b>provided (8)</b> 58:14;82:17;87:6; 101:9;108:16;113:15; 121:12;139:1</p> <p><b>providers (1)</b> 47:3</p> <p><b>provides (2)</b> 6:16;125:2</p> <p><b>providing (5)</b> 46:4;62:22;63:4;76:1; 138:21</p> <p><b>provision (2)</b> 28:15;35:7</p> <p><b>provisions (2)</b> 25:5;114:2</p> <p><b>prudent (1)</b> 46:18</p> <p><b>PSNH (1)</b> 89:2</p> <p><b>public (22)</b> 4:6,10;10:14;11:18; 12:13;17:8,18;18:11; 19:18;21:13;22:2;24:7; 25:24;27:7;78:24;79:8; 84:8,11;85:6;87:16; 99:6;139:14</p> <p><b>publicly (8)</b> 82:23;83:5,9,17; 84:19;85:1,6;86:14</p> <p><b>pulp (20)</b> 13:2;29:13;31:7;33:5; 38:21,22;58:12;90:6; 99:1,10,19;102:3,5; 106:11;120:9;129:14; 132:10;152:2;153:16; 154:12</p> <p><b>pulping (1)</b> 38:13</p> <p><b>puncture (1)</b> 9:21</p> <p><b>Purchase (5)</b> 88:14;105:20;134:8, 15;151:10</p> <p><b>purchased (2)</b> 109:9;135:11</p> <p><b>purchasing (2)</b> 20:19;150:6</p> <p><b>purpose (2)</b> 58:16;95:14</p> <p><b>purposes (3)</b> 10:11;76:17;94:22</p> <p><b>pursued (1)</b> 16:24</p> <p><b>purviews (1)</b> 42:17</p>
--	--	--	---	--

<p><b>push (2)</b> 31:17,18</p> <p><b>pushes (1)</b> 34:2</p> <p><b>pushing (2)</b> 31:16;102:21</p> <p><b>put (17)</b> 27:14;31:2;76:10,18; 82:19;88:17;91:12; 93:21;95:15;96:1;97:13; 101:20;104:17;120:24; 133:8;137:20;138:5</p> <hr/> <p style="text-align: center;"><b>Q</b></p> <hr/> <p><b>qualification (1)</b> 25:18</p> <p><b>qualifications (1)</b> 82:14</p> <p><b>qualified (1)</b> 119:8</p> <p><b>qualify (1)</b> 88:18</p> <p><b>quality (2)</b> 14:15;156:1</p> <p><b>quantity (1)</b> 54:8</p> <p><b>quarter (1)</b> 13:3</p> <p><b>quickly (4)</b> 9:9;83:3,12;133:10</p> <p><b>quieter (1)</b> 141:21</p> <p><b>Quite (2)</b> 41:6;126:20</p> <hr/> <p style="text-align: center;"><b>R</b></p> <hr/> <p><b>radiated (1)</b> 116:23</p> <p><b>radius (3)</b> 31:3;99:3,23</p> <p><b>rail (4)</b> 102:15,20,23;130:24</p> <p><b>raise (1)</b> 92:17</p> <p><b>raises (1)</b> 63:7</p> <p><b>ramping (1)</b> 138:1</p> <p><b>range (8)</b> 29:12,19;31:9;71:7; 108:3,7;115:4;146:17</p> <p><b>rate (4)</b> 5:17,23;6:7,15</p> <p><b>rather (6)</b> 5:11;47:9;76:18; 103:2;116:16;118:7</p> <p><b>rationale (1)</b> 76:11</p> <p><b>Ray (2)</b> 92:1;112:1</p> <p><b>reach (1)</b></p>	<p>15:10</p> <p><b>reach-through (1)</b> 45:21</p> <p><b>read (5)</b> 19:23;24:3,12;25:3; 106:18</p> <p><b>readily (1)</b> 10:9</p> <p><b>ready (1)</b> 52:13</p> <p><b>real (1)</b> 31:14</p> <p><b>realign (2)</b> 31:24;107:11</p> <p><b>realignment (2)</b> 37:8;150:13</p> <p><b>realistic (1)</b> 41:5</p> <p><b>realistically (1)</b> 80:1</p> <p><b>realities (2)</b> 31:11;137:3</p> <p><b>reality (4)</b> 31:6;48:22;100:21; 156:8</p> <p><b>really (17)</b> 9:21;32:3;40:16; 41:23;48:3;52:3;58:5; 63:6;69:21;101:17; 112:12;118:9;132:7; 142:9;150:18;151:22; 158:11</p> <p><b>reason (8)</b> 21:19;30:21;47:19; 90:11;110:14;118:2; 123:11;156:24</p> <p><b>reasonable (5)</b> 105:18;134:16; 137:22;138:11;141:8</p> <p><b>reasonably (1)</b> 56:8</p> <p><b>reasoning (1)</b> 76:22</p> <p><b>reasons (4)</b> 13:15;27:16;40:13; 135:11</p> <p><b>reassess (1)</b> 149:24</p> <p><b>REC (1)</b> 88:12</p> <p><b>recall (11)</b> 4:22;23:2;33:9;54:6; 58:3;87:4;108:7;120:7; 147:5,8;153:8</p> <p><b>receipt (1)</b> 137:15</p> <p><b>receive (3)</b> 52:23;77:6;81:3</p> <p><b>received (3)</b> 79:15;110:2;127:18</p> <p><b>receiving (2)</b> 51:13,15</p> <p><b>recent (2)</b></p>	<p>33:1,3</p> <p><b>recently (3)</b> 12:13;124:2;125:13</p> <p><b>recess (4)</b> 4:1;74:22;75:9,10</p> <p><b>reckless (3)</b> 20:18;21:1,7</p> <p><b>recognize (1)</b> 82:16</p> <p><b>recommendation (1)</b> 5:13</p> <p><b>recommendations (1)</b> 14:18</p> <p><b>reconnect (1)</b> 45:9</p> <p><b>record (7)</b> 10:11;42:21;72:9; 76:10,19;77:17;98:23</p> <p><b>record's (1)</b> 64:4</p> <p><b>recovery (3)</b> 6:22;72:13,14</p> <p><b>recovery-boiler (1)</b> 145:2</p> <p><b>recreational (1)</b> 139:15</p> <p><b>recross (1)</b> 75:4</p> <p><b>recruit (1)</b> 126:18</p> <p><b>RECs (2)</b> 89:3;92:16</p> <p><b>recycling (1)</b> 111:20</p> <p><b>redacted (2)</b> 78:14;87:16</p> <p><b>redactions (1)</b> 78:15</p> <p><b>redefining (1)</b> 102:14</p> <p><b>redirect (1)</b> 75:3</p> <p><b>redirected (2)</b> 38:23;102:6</p> <p><b>redistributed (2)</b> 152:11,14</p> <p><b>reduce (1)</b> 97:1</p> <p><b>refer (2)</b> 10:24;68:20</p> <p><b>reference (3)</b> 60:3,8;80:10</p> <p><b>referenced (1)</b> 109:24</p> <p><b>references (1)</b> 119:11</p> <p><b>referred (2)</b> 117:23;154:6</p> <p><b>referring (5)</b> 52:20;67:19;93:2; 128:23;136:3</p> <p><b>refers (1)</b> 63:23</p>	<p><b>refined (1)</b> 100:17</p> <p><b>refining (1)</b> 8:11</p> <p><b>reflected (1)</b> 29:22</p> <p><b>refresh (1)</b> 153:9</p> <p><b>Refuse (2)</b> 54:23;59:2</p> <p><b>regard (7)</b> 8:1,8,12,17;11:20; 13:7;14:8</p> <p><b>regarding (2)</b> 12:15;28:15</p> <p><b>regards (1)</b> 112:5</p> <p><b>regimented (1)</b> 111:16</p> <p><b>region (4)</b> 31:1;129:8,11,22</p> <p><b>regional (3)</b> 40:10;54:23;59:1</p> <p><b>registered (1)</b> 35:9</p> <p><b>registry (1)</b> 134:10</p> <p><b>regular (1)</b> 53:20</p> <p><b>regulation (1)</b> 8:22</p> <p><b>regulations (11)</b> 7:23;8:2;14:17;89:6; 92:10,22;93:1;97:15; 103:8;133:4;155:9</p> <p><b>regulators (1)</b> 132:23</p> <p><b>regulatory (2)</b> 15:1;144:13</p> <p><b>reimbursement (2)</b> 52:20,21</p> <p><b>Reinvestment (1)</b> 72:14</p> <p><b>relate (1)</b> 82:15</p> <p><b>related (4)</b> 5:14;66:10;78:12; 103:9</p> <p><b>relating (4)</b> 75:19;84:6;86:11; 87:14</p> <p><b>relation (3)</b> 22:9;26:6;53:2</p> <p><b>relations (1)</b> 92:3</p> <p><b>relationship (6)</b> 12:21;30:19;62:23; 63:8;84:10;124:9</p> <p><b>relationships (4)</b> 47:18;81:10;135:8; 136:12</p> <p><b>relative (1)</b> 146:16</p>	<p><b>relatively (5)</b> 10:7;13:16;125:13; 130:7;142:9</p> <p><b>release (1)</b> 20:13</p> <p><b>Relying (1)</b> 78:22</p> <p><b>remain (4)</b> 8:23;109:20;119:1; 125:1</p> <p><b>remediation (1)</b> 23:13</p> <p><b>remedies (1)</b> 128:7</p> <p><b>remember (5)</b> 7:9;45:6;104:21; 111:22;133:22</p> <p><b>Remind (2)</b> 29:12;108:16</p> <p><b>removal (1)</b> 153:19</p> <p><b>removals (2)</b> 153:14,14</p> <p><b>remove (2)</b> 15:17;36:1</p> <p><b>removed (1)</b> 153:20</p> <p><b>removing (1)</b> 14:1</p> <p><b>Renewable (11)</b> 61:14,14,20;63:9; 64:15,22;82:3;88:5,13, 19;132:3</p> <p><b>reorganization (2)</b> 59:14;125:11</p> <p><b>repeat (3)</b> 36:9;133:3,24</p> <p><b>replace (1)</b> 44:24</p> <p><b>report (7)</b> 14:19;24:18;65:24; 88:7;134:17,20;146:1</p> <p><b>reported (1)</b> 153:21</p> <p><b>Reporter (3)</b> 51:5;93:22;132:24</p> <p><b>reporting (9)</b> 8:9,10;69:14;82:10; 128:13;134:17;135:10; 138:24;153:23</p> <p><b>reports (1)</b> 86:16</p> <p><b>represent (1)</b> 61:22</p> <p><b>represents (2)</b> 61:23;129:10</p> <p><b>reputable (1)</b> 133:12</p> <p><b>request (2)</b> 80:10,12</p> <p><b>requested (2)</b> 86:13;138:20</p> <p><b>requests (4)</b></p>
--	---	---	--	---

<p>54:5;81:1,6;139:1 <b>require (3)</b> 15:8,12;84:11 <b>required (2)</b> 13:22;25:15 <b>requirement (3)</b> 105:10;106:1;110:9 <b>requirements (9)</b> 7:12;58:17;73:1,11; 95:4,12;110:22;139:5,7 <b>requires (1)</b> 8:4 <b>research (1)</b> 142:18 <b>residences (1)</b> 139:3 <b>resource (1)</b> 156:2 <b>resources (2)</b> 42:24;96:15 <b>respect (25)</b> 10:19;25:13;27:24; 33:19;35:6;44:19;46:4; 53:9;56:3;57:24;62:6; 66:17;77:24;78:9;82:1, 2,8;85:5;112:4;113:3; 128:10;138:6,19,22; 147:1 <b>respond (2)</b> 7:23;112:17 <b>response (1)</b> 54:7 <b>responses (3)</b> 27:8;54:4,22 <b>responsibilities (1)</b> 81:11 <b>responsibility (4)</b> 57:24;58:24;59:6;66:2 <b>responsible (5)</b> 18:5;21:3;65:23;92:2; 127:12 <b>rest (2)</b> 122:8;156:14 <b>restrictions (3)</b> 24:20,21,23 <b>restrictive (1)</b> 88:10 <b>resulting (1)</b> 93:18 <b>resume (2)</b> 4:4;75:13 <b>resumed (2)</b> 4:1;75:11 <b>retention (1)</b> 9:19 <b>return (3)</b> 74:22;155:11;156:4 <b>revealing (1)</b> 27:4 <b>revenue (1)</b> 33:22 <b>review (2)</b> 9:9;79:22</p>	<p><b>reviewed (4)</b> 5:6;42:19;45:23; 113:11 <b>reviewing (1)</b> 147:10 <b>reviews (1)</b> 20:6 <b>revised (3)</b> 5:3,9;24:18 <b>reward (1)</b> 27:11 <b>RGGI (1)</b> 7:16 <b>ridiculous (1)</b> 49:23 <b>Right (34)</b> 7:15,20;8:2,9;7:21;11; 22:11,24;26:17;29:20; 33:2,4;43:9;46:9;47:21; 54:6;61:12;70:22;73:8, 16;78:23;83:1;85:13,19; 98:9;101:12;104:3; 105:16;108:8;115:2,17; 119:14;139:20;141:11, 13 <b>right-of-way (1)</b> 121:13 <b>rights-of-way (1)</b> 50:24 <b>rigorous (1)</b> 153:23 <b>rippling (1)</b> 109:1 <b>risk (3)</b> 41:14,21;42:1 <b>river (8)</b> 13:4;14:5;22:11;56:4; 59:1;120:12;121:8; 139:16 <b>road (1)</b> 156:24 <b>roads (3)</b> 95:16;113:14,14 <b>roadway (1)</b> 22:13 <b>roadways (1)</b> 148:2 <b>Rodier (8)</b> 33:17;36:24;52:10; 60:1;63:20;64:6;75:1; 106:6 <b>role (6)</b> 69:8,22;82:8;103:15; 104:16;126:1 <b>roles (1)</b> 44:14 <b>Roman (5)</b> 19:23;20:11,12,17; 22:1 <b>room (5)</b> 6:19;107:20;158:12, 17,21 <b>ROTH (26)</b></p>	<p>16:15,23;19:12,20,21; 23:5;24:9,11;32:6;39:3; 43:10;46:17;57:18,22; 60:8,9,13,15,20;61:4; 64:7,9;72:11;74:15; 77:12;140:18 <b>roughly (5)</b> 108:12;109:13;152:1, 7,7 <b>round (8)</b> 38:21;43:20,24;99:11, 19;102:2,2;153:15 <b>round-wood (1)</b> 122:10 <b>RPS (1)</b> 89:5 <b>RSA (1)</b> 138:18 <b>rule (7)</b> 8:3,9;79:14;93:5,7; 94:3;137:2 <b>rules (6)</b> 74:3;88:10,18;89:5; 93:24;95:5 <b>Rumford (2)</b> 100:6;130:14 <b>run (2)</b> 18:24;99:18 <b>running (3)</b> 89:20;91:14,16</p>	<p>46:10;92:16;101:3; 102:9;123:6,8;135:3; 136:1;149:10,13;151:24 <b>scale (1)</b> 131:18 <b>schedule (1)</b> 79:20 <b>Schiller (4)</b> 46:5,9,16;53:3 <b>scoop (1)</b> 35:1 <b>scope (5)</b> 10:21;11:23;12:6,7; 70:2 <b>score (1)</b> 131:9 <b>seamlessly (1)</b> 45:18 <b>seasonal (1)</b> 148:9 <b>second (3)</b> 63:5;81:21;100:10 <b>secret (1)</b> 109:9 <b>Section (3)</b> 105:12;128:14;139:5 <b>Securities (1)</b> 86:19 <b>security (1)</b> 43:6 <b>seek (2)</b> 115:21;119:7 <b>seeking (2)</b> 78:10,20 <b>seem (2)</b> 91:3;134:19 <b>seemed (1)</b> 113:19 <b>seems (5)</b> 53:1;58:19;96:17; 99:4,15 <b>select (1)</b> 134:13 <b>selection (1)</b> 47:19 <b>self-unloading (1)</b> 50:19 <b>sell (6)</b> 35:17,19;36:2;40:1; 49:22;90:7 <b>selling (1)</b> 36:19 <b>semi-urban (1)</b> 115:6 <b>send (1)</b> 38:19 <b>sense (12)</b> 30:4,8,21,23;37:12; 38:15,17;73:20;79:23; 140:15;150:1;153:6 <b>sensitive (2)</b> 79:1;97:16 <b>sensitivity (1)</b></p>	<p>85:5 <b>sent (2)</b> 12:13;145:17 <b>sentence (1)</b> 25:4 <b>separate (1)</b> 156:10 <b>serious (1)</b> 66:20 <b>serve (1)</b> 103:10 <b>served (1)</b> 103:5 <b>serves (1)</b> 101:12 <b>service (5)</b> 70:21;72:3;90:18; 99:6;119:7 <b>serviced (1)</b> 58:12 <b>Services (9)</b> 19:7;61:24;62:2,3,23; 63:4;125:3;126:4; 146:19 <b>servicing (1)</b> 67:13 <b>session (6)</b> 4:16;54:5;55:7;79:21; 152:23;158:23 <b>sessions (1)</b> 157:8 <b>set (9)</b> 74:15;81:1;114:4; 117:19;126:6;136:16; 138:14,15;139:7 <b>sets (2)</b> 12:7;154:2 <b>setting (1)</b> 76:21 <b>seven (1)</b> 133:23 <b>several (4)</b> 72:18;86:16;129:4; 142:8 <b>severed (1)</b> 62:14 <b>SFC (2)</b> 136:5,18 <b>SFI (2)</b> 136:5,17 <b>shaded (2)</b> 22:10,24 <b>shake (1)</b> 149:2 <b>shall (2)</b> 25:6;105:19 <b>shallow (1)</b> 13:16 <b>share (6)</b> 37:10;40:5,8;46:1; 128:9;137:19 <b>shared (3)</b> 69:3,4,7</p>
		<b>S</b>		
		<p><b>SACTI (1)</b> 148:10 <b>safety (5)</b> 11:19;21:13;111:1,10; 113:7 <b>sale (2)</b> 35:5;119:11 <b>same (15)</b> 49:15;58:23;60:21; 76:7;86:12;111:24; 114:6;117:12;125:1; 127:24;146:17;151:2,4; 157:12,19 <b>samples (1)</b> 14:12 <b>sampling (3)</b> 11:12;12:1;14:19 <b>satellite (1)</b> 44:4 <b>satisfy (4)</b> 49:15;89:3;138:22; 139:7 <b>save (2)</b> 152:22;157:7 <b>savings (2)</b> 38:18;121:11 <b>saw (3)</b> 113:20;143:23;153:15 <b>saying (14)</b> 12:19;20:22;34:2;</p>		



<b>shareholders (1)</b> 83:8	13:13;14:7,8;15:3,5; 16:19;18:2,6;21:18,23;	<b>sorry (12)</b> 22:2,17,19;24:6; 54:17;60:13;68:15; 74:12;77:4;108:14; 110:6;140:2	<b>spoke (1)</b> 47:22	117:1
<b>sharing (1)</b> 85:4	23:2,7,18,24;31:22; 55:15;70:3;102:15; 104:20;112:9,17; 113:11;115:9,15;116:9;	<b>sort (18)</b> 20:3;32:19;34:3;37:1, 7,9;38:6;53:5;69:3,17; 70:13,20;71:4,12;73:18; 124:11;126:22;129:5	<b>spoken (2)</b> 107:18;131:21	<b>stem (1)</b> 38:16
<b>shed (3)</b> 64:11;102:18;111:22	18,20,22;119:22;120:6; 121:24;140:3;144:15	<b>sought (1)</b> 125:5	<b>spreading (1)</b> 41:17	<b>step (1)</b> 101:14
<b>sheds (4)</b> 31:12,15;32:1;100:23	<b>sitting (1)</b> 152:12	<b>sound (20)</b> 114:19;115:2,10; 116:3,11,11,13,17; 117:4,6,14,16,24;118:3, 5,8,13;142:1,4,10	<b>stability (1)</b> 142:20	<b>stewardship (1)</b> 97:10
<b>shift (1)</b> 37:3	<b>situation (3)</b> 48:21,22;69:16	<b>sounded (2)</b> 39:22;46:9	<b>stack (2)</b> 56:18;148:15	<b>Stewart (3)</b> 132:18,20;138:15
<b>shifting (1)</b> 131:11	<b>Six (3)</b> 27:2;81:19;89:17	<b>sound-level (3)</b> 117:22;118:19,23	<b>staff (1)</b> 118:21	<b>stick (2)</b> 36:2,16
<b>shifts (1)</b> 38:7	<b>size (2)</b> 11:11;141:7	<b>sound-pressure (1)</b> 114:19	<b>stagnant (1)</b> 111:20	<b>still (16)</b> 16:20;17:2;19:9; 73:10,12;86:10;93:5,11; 119:3;129:20,22;131:19, 20;139:14;140:10;145:3
<b>ship (1)</b> 130:23	<b>size-wise (1)</b> 146:16	<b>sounds (8)</b> 15:10;49:23;114:13; 116:20,23;117:3,11; 118:21	<b>stand (5)</b> 51:19;67:9;113:24; 119:18;158:21	<b>stipulation (2)</b> 12:10;123:3
<b>shop (1)</b> 144:14	<b>slippery (1)</b> 135:2	<b>source (7)</b> 39:19;47:17;104:7; 116:11,13,16;117:3	<b>stand-alone (1)</b> 121:2	<b>stipulations (1)</b> 11:20
<b>show (5)</b> 14:14;26:5;33:23; 113:13;151:14	<b>slope (1)</b> 135:2	<b>southeastern (1)</b> 50:17	<b>standard (2)</b> 91:9;138:22	<b>stockpile (1)</b> 44:1
<b>showed (2)</b> 113:12;142:9	<b>small (1)</b> 134:3	<b>sources (4)</b> 8:5,12,19;95:20	<b>standards (2)</b> 15:1;93:3	<b>stop (1)</b> 26:17
<b>showing (2)</b> 32:20;63:12	<b>smaller (2)</b> 6:12;136:21	<b>southern (1)</b> 104:22	<b>standing (1)</b> 22:21	<b>stopped (1)</b> 52:11
<b>shows (3)</b> 9:24;99:4;148:11	<b>SO2 (4)</b> 6:6;7:2,3,5	<b>speak (6)</b> 45:22;46:22;103:21; 128:6;151:13;154:21	<b>stands (1)</b> 61:9	<b>storage (7)</b> 43:19,22;44:4;55:16; 111:9,9;122:10
<b>shut (4)</b> 29:14;33:2,4;92:18	<b>soil (2)</b> 12:1;14:11	<b>specific (7)</b> 28:19;71:10;95:18; 105:9;125:20;137:10; 146:14	<b>start (15)</b> 4:5,17;73:4,13;80:24; 87:19,19;100:16;108:6; 111:13;126:17;136:11, 12;150:5;157:19	<b>store (2)</b> 55:14;140:14
<b>side (4)</b> 22:21;38:14;122:6; 144:13	<b>soils (3)</b> 11:12,12;14:20	<b>specifically (5)</b> 9:5;51:9;139:1;146:9; 154:16	<b>started (2)</b> 55:3;126:18	<b>stored (2)</b> 57:3;112:8
<b>significant (15)</b> 5:21;9:11;12:11,18; 15:12;45:3;53:19;71:13; 109:14;116:13;120:1; 121:10;130:18;144:18, 19	<b>sold (1)</b> 44:2	<b>specified (1)</b> 92:8	<b>starting (2)</b> 17:18;144:16	<b>straight (1)</b> 89:18
<b>significantly (2)</b> 99:5;116:1	<b>sole (2)</b> 39:18;46:11	<b>specifical (4)</b> 50:6;51:4,6;91:3	<b>starts (1)</b> 136:10	<b>straighter (1)</b> 131:24
<b>signing (1)</b> 70:14	<b>solely (1)</b> 79:21	<b>specification (1)</b> 108:8	<b>state (10)</b> 15:1;16:8;36:9; 133:19,24;141:2; 149:22;151:11,17; 153:21	<b>stream (1)</b> 59:8
<b>signs (1)</b> 70:17	<b>somebody (6)</b> 80:17;83:2;105:1,3; 119:7;155:15	<b>speed (1)</b> 157:22	<b>started (3)</b> 18:21;89:24;106:16	<b>streamlined (1)</b> 124:24
<b>silos (7)</b> 56:1,2,16;57:5; 140:13,19,20	<b>somehow (2)</b> 107:13;137:1	<b>spell (3)</b> 39:13;72:10;137:21	<b>statement (1)</b> 15:7	<b>street (3)</b> 26:10;121:15;144:4
<b>similar (4)</b> 28:14;78:20;115:20, 23	<b>someone (4)</b> 28:4;92:13;94:16; 126:12	<b>spent (1)</b> 29:4	<b>statements (1)</b> 92:12	<b>Strickler (79)</b> 7:1;15:23;16:5;26:11; 27:22;53:23;59:12,24; 61:6,18,23;62:6,13,21; 63:3,16,18;64:13,19,22; 65:1,5,8,15,17,19,21; 66:7,16,23;67:1,10,18, 21;68:4,8,20;69:7,12,20, 70:7,12,18,22;71:6,15, 19,23;72:5,15,18,23; 73:4,9;90:22;91:10; 94:24;111:5;112:10,18, 21;123:24;124:5;125:6, 13,20;126:3,9,14,16; 141:11;145:4,8,14,17, 22,24;147:1,5
<b>similarities (1)</b> 143:10	<b>somewhere (8)</b> 29:12;33:11;38:9; 51:20;55:23;71:7;90:20; 96:6	<b>spikes (7)</b> 118:7,11;141:18,20; 142:3,5,10	<b>status (1)</b> 158:4	<b>strike (2)</b> 25:22;130:17
<b>simple (3)</b> 23:9;102:10;147:15	<b>soon (3)</b> 45:24;86:4;137:18	<b>split (1)</b> 46:21	<b>statute (2)</b> 139:1,5	<b>Strikler (1)</b> 146:13
<b>simply (4)</b> 80:3;91:19;101:2; 149:12	<b>sooner (1)</b> 103:17		<b>statutory (1)</b> 139:7	
<b>single (2)</b> 124:21,21	<b>sorbent (5)</b> 6:6,7,11,16;7:4		<b>stay (1)</b> 130:7	
<b>sit (1)</b> 86:24			<b>steam (2)</b> 116:15,15	
<b>site (37)</b> 9:7;10:1,22;12:5;			<b>steam-turbine (1)</b>	

<b>stringent (2)</b> 7:11;146:21	86:2	92:5,5;93:10;94:16;	<b>tall (1)</b> 140:16	<b>though (10)</b> 26:20;29:12;38:16;
<b>strip (1)</b> 121:13	<b>successive (2)</b> 25:7,10	102:22;113:5;127:20;	<b>tank (1)</b> 56:12	45:4;48:4;53:9;57:14;
<b>stronger (1)</b> 131:24	<b>succinct (1)</b> 158:9	141:4;152:15	<b>tax (2)</b> 71:22;72:4	59:15;98:6;149:20
<b>structure (7)</b> 9:15;12:8;55:22;	<b>sue (4)</b> 17:9,19;18:16,16	<b>surface (1)</b> 10:2	<b>team (4)</b> 16:10;52:16;72:19;	<b>thought (7)</b> 51:19;52:12,15;
81:10;84:5;89:11;124:2	<b>sufficient (3)</b> 139:24;140:4;141:1	<b>survey (1)</b> 17:5	145:15	102:17,20;122:12;155:5
<b>structures (1)</b> 13:18	<b>suggest (1)</b> 64:3	<b>suspect (2)</b> 93:16;103:14	<b>technical (6)</b> 4:16;54:5;55:6;67:8;	<b>thousand (2)</b> 67:4;134:2
<b>structuring (1)</b> 45:19	<b>suggested (4)</b> 59:16;97:24;132:6;	<b>sustainability (33)</b> 26:23;27:3;29:1;35:7;	116:8;142:6	<b>three (6)</b> 17:7,15;89:19;100:1;
<b>struggle (1)</b> 97:4	155:15	36:7;42:17,18;73:20;	<b>technologies (1)</b> 92:8	124:12,14
<b>struggled (1)</b> 97:20	<b>suggestion (1)</b> 60:6	74:3,4,10;95:2,9,17,19;	<b>technology (1)</b> 93:3	<b>three-hour (2)</b> 101:4,7
<b>studied (2)</b> 139:24;140:4	<b>suitable (3)</b> 45:1;113:18;116:5	96:20;105:22;127:9,13,	<b>teeth (1)</b> 28:10	<b>throughout (5)</b> 50:1;55:12;90:15;
<b>studies (11)</b> 11:9,9;13:8,10,21;	<b>sun (1)</b> 156:3	19;128:2,5,12,21;	<b>tendency (1)</b> 74:6	109:2;133:19
32:20;51:6,9;97:2;	<b>superficial (3)</b> 17:17,20;18:18	132:22;136:1;138:1;	<b>Tennessee (4)</b> 145:7,8,9,12	<b>Thursday (1)</b> 80:2
143:10;147:20	<b>supplement (2)</b> 55:9;140:23	153:1,3,4;154:4,17,22	<b>tentatively (1)</b> 19:18	<b>Ticonderoga (1)</b> 150:20
<b>study (24)</b> 12:12;29:9,21;30:6;	<b>supplemental (2)</b> 30:11;48:20	<b>sustainable (5)</b> 41:9;96:16;106:22;	<b>term (3)</b> 71:24;116:8;126:9	<b>tie (1)</b> 102:4
38:1;51:3;80:12;88:3;	<b>supplied (3)</b> 46:16;128:15,16	135:19;153:6	<b>terminate (1)</b> 70:10	<b>timber (21)</b> 34:17,19;35:5,8,13,15;
98:15,21;100:11;106:17,	<b>supplier (8)</b> 39:22;40:11;46:8,11;	<b>sustainably (2)</b> 101:9;153:11	<b>terminated (1)</b> 62:24	36:10;37:8;38:2;43:1;
21;115:1;142:14,16;	47:10;127:10,14;136:8	<b>swales (1)</b> 9:19	<b>terms (16)</b> 9:11;18:3;40:5,12;	49:8,17;73:23;136:14;
143:8,12,14,15,15;	<b>suppliers (16)</b> 28:16;36:8;40:19;	<b>swing (1)</b> 109:21	41:15,22;43:2,5;70:11;	153:4,16;155:10,10,16,
144:2;151:14;153:9	41:3;44:22;45:10;47:8;	<b>system (12)</b> 55:17;88:12;100:9;	76:3;79:5;105:22;	24;156:19
<b>stuff (1)</b> 158:16	52:6;95:21;97:19;98:7;	110:21;112:7;117:1;	108:23;117:5;127:22;	<b>times (6)</b> 35:10;44:5;49:11;
<b>stumpage (2)</b> 38:17;49:20	101:6;105:5;107:10;	120:14,21,24;121:6;	137:15	91:16;100:1;114:6
<b>Subcommittee (10)</b> 74:24;75:15;76:21;	133:2,5	136:19;137:6	<b>test (1)</b> 76:13	<b>timing (2)</b> 85:16;132:7
79:19;80:14;81:5;84:3;	<b>supply (34)</b> 33:24;36:13;40:12,22;	<b>systems (5)</b> 22:15;111:17;136:4,	<b>testified (1)</b> 92:1	<b>tissue (1)</b> 123:16
87:10,12,18	42:11,14,15;43:18;	19;146:8	<b>testifies (1)</b> 119:17	<b>title (2)</b> 47:4;92:13
<b>subject (9)</b> 8:10;26:19;57:7;	44:15,19;46:14,16;47:7;	<b>T</b>	<b>testify (1)</b> 119:17	<b>titles (2)</b> 81:15,22
58:13;78:14;89:5;	48:1;50:8;52:1;78:10;	<b>T1 (6)</b> 17:9;22:4,5;23:6,18,	<b>testimony (14)</b> 30:12;47:21;48:20;	<b>today (5)</b> 17:12;47:22;109:11;
108:17;127:24;155:22	88:5;94:8;95:1,20;	23	51:11,16;59:5;60:23;	119:24;156:21
<b>subjects (1)</b> 52:9	96:22;101:9;104:13,18;	<b>Tab (1)</b> 105:14	61:2,9;68:16;81:4;	<b>together (9)</b> 7:5;29:5;61:15;82:19;
<b>submission (1)</b> 24:17	105:5;106:4,7;107:1;	<b>Table (3)</b> 98:15;103:1,13	84:16;89:14;91:6	101:24;124:10,11;
<b>submit (1)</b> 78:14	127:23;148:24;149:6,7,8	<b>tailoring (1)</b> 8:3	<b>testing (4)</b> 10:20;71:2;118:14;	137:20;149:13
<b>submitted (3)</b> 5:2,6;81:12	<b>supplying (4)</b> 45:15;97:19;135:7;	<b>talk (9)</b> 7:2;11:2;44:18;90:15;	119:4	<b>told (2)</b> 109:17;133:10
<b>submitting (1)</b> 78:19	136:15	94:19;95:1;114:1;	<b>Thanks (2)</b> 132:16;141:13	<b>tomorrow (14)</b> 65:9;77:6,9;79:15,24;
<b>subsequent (1)</b> 20:22	<b>support (2)</b> 12:11;28:16	145:14;153:2	<b>theoretical (1)</b> 68:6	80:18;157:11,17,19,21,
<b>substances (1)</b> 20:14	<b>supported (1)</b> 125:10	<b>talked (12)</b> 11:22;46:3,24;55:20;	<b>Therefore (2)</b> 106:21;107:5	23;158:12,20,22
<b>substantial (1)</b> 15:9	<b>suppose (2)</b> 62:23;67:17	56:15,24;122:19;	<b>thermal (3)</b> 119:11,20;121:11	<b>ton (2)</b> 108:10,11
<b>substation (1)</b> 121:16	<b>supposed (3)</b> 52:17;59:23,24	140:13;141:5,18;143:3;	<b>thinking (2)</b> 103:3,4	<b>tonight (1)</b> 77:6
<b>subsurface (3)</b> 11:9,15;23:12	<b>sure (27)</b> 4:23;8:13;11:13;	156:14	<b>third-party (4)</b> 136:2,18;137:14;	<b>tons (29)</b> 32:9;37:19,23;51:20;
<b>succeeded (1)</b>	19:24;22:23;23:15;	<b>talking (11)</b> 29:10;36:22;44:16,16;	155:23	54:19;89:14,15,19;99:7,
	24:13;27:18;34:7,8;	48:23;77:24;92:6;101:6;		8,8,10,18;100:6,19;
	42:5;59:4;64:14;65:8,	153:3,5,7		101:13;107:1,4,4,13;
	20;71:23;72:5;88:15;	<b>talks (2)</b> 27:10;128:14		129:7;130:1,15;135:16;

141:5,7;150:11;151:15; 157:1 <b>took (6)</b> 67:1;101:10,14;131:6; 142:7;148:23 <b>tool (1)</b> 156:17 <b>top (6)</b> 34:3;54:6;62:4;84:20; 87:5;101:23 <b>topics (2)</b> 4:13;27:8 <b>tops (15)</b> 34:11,18,23;35:16; 44:1;99:12,21;101:11, 13;102:1,7;153:16; 154:5,13,20 <b>total (2)</b> 81:19;100:6 <b>touch (2)</b> 11:6;84:2 <b>towards (2)</b> 65:13;93:6 <b>tower (6)</b> 116:12;147:20,24; 148:5,8,10 <b>towers (1)</b> 121:5 <b>town (1)</b> 10:13 <b>tracking (1)</b> 134:9 <b>tractor-trailer (1)</b> 141:8 <b>traded (8)</b> 82:23;83:6,9,17; 84:20;85:2,7;86:14 <b>traffic (2)</b> 30:18;115:7 <b>trail (4)</b> 139:15,18;140:1,5 <b>training (1)</b> 112:15 <b>transaction (6)</b> 65:11;84:24;85:16,24; 86:4,8 <b>transformer (8)</b> 17:9;22:4,5;23:7,10, 23;139:13,19 <b>transition (2)</b> 123:15,16 <b>transmission (1)</b> 91:20 <b>transport (1)</b> 31:8 <b>transported (1)</b> 151:5 <b>traveling (1)</b> 149:22 <b>travels (1)</b> 120:15 <b>treat (2)</b> 76:6,14	<b>treatable (1)</b> 10:9 <b>treated (2)</b> 76:4;78:1 <b>treating (1)</b> 76:11 <b>Treatment (8)</b> 26:2;58:11,16,20,21; 59:11;78:11;108:18 <b>tree (5)</b> 90:1;136:4,19;137:5; 156:7 <b>trees (6)</b> 50:24;90:5,6;96:6; 131:14,24 <b>trick (1)</b> 111:8 <b>tricky (1)</b> 21:15 <b>tried (2)</b> 29:5;154:1 <b>triggered (1)</b> 125:16 <b>truck (6)</b> 30:18;41:1;49:21; 50:18,18;141:8 <b>truckers (1)</b> 49:24 <b>trucking (9)</b> 34:14;38:18,24;39:2; 43:12;103:8,9;105:2; 150:22 <b>trucks (10)</b> 30:19;48:8,11,14,16, 17,24;49:14;104:14; 116:18 <b>true (3)</b> 15:11;34:21;102:13 <b>try (6)</b> 64:8,15;85:23;97:8; 115:21;136:24 <b>trying (14)</b> 33:8;35:6;36:23;50:5; 52:10;59:12;101:2; 124:14;133:22;135:23; 149:11;150:14,15;155:7 <b>turbine (6)</b> 15:8,16;56:17;90:17; 116:15,15 <b>turn (4)</b> 25:2;26:23;75:14; 105:14 <b>turned (1)</b> 15:24 <b>turning (3)</b> 18:11;22:1;24:2 <b>turns (2)</b> 108:22;156:3 <b>two (12)</b> 11:4;19:23;21:5; 27:17;33:11;35:4;43:19; 77:23;122:16;145:1; 149:12;154:1	<b>type (9)</b> 10:8;35:11;115:20; 117:12;119:9;127:24; 142:19,22;144:23 <b>types (2)</b> 49:14;88:11 <b>typical (1)</b> 99:16 <b>typically (5)</b> 34:16;46:15;51:2; 65:21;126:16  <b>U</b>  <b>under (24)</b> 7:15;28:5;35:8,10,10, 11;41:10;42:16;48:8; 62:21;69:13,15;71:9; 79:5,14;89:4;91:8; 95:22;105:16;123:19; 133:22;136:17,19; 147:22 <b>underdeveloped (1)</b> 101:19 <b>underground (1)</b> 120:14 <b>Understood (2)</b> 80:7;153:24 <b>under-supply (1)</b> 47:13 <b>undertaking (1)</b> 71:9 <b>underutilized (1)</b> 156:10 <b>unfamiliar (1)</b> 120:6 <b>unforeseen (2)</b> 71:16,19 <b>UNH (1)</b> 33:10 <b>unit (1)</b> 7:18 <b>United (1)</b> 130:22 <b>universe (1)</b> 134:3 <b>unless (3)</b> 42:14;70:9;158:18 <b>Unlike (1)</b> 47:2 <b>unplanned (1)</b> 68:5 <b>unscrupulous (2)</b> 35:24;73:22 <b>up (35)</b> 6:7;13:3;14:5;29:8; 33:14,23;35:1;38:19; 44:9;46:21;49:21,22; 55:4;71:20;87:10;88:10; 89:13,20;91:13;102:18; 103:5,22;106:8;112:2; 116:22;119:23;120:9; 121:18;125:11;130:6;	136:16;138:1;140:20; 151:10;154:2 <b>updated (1)</b> 134:5 <b>upgrades (1)</b> 144:19 <b>upon (6)</b> 8:15;11:6;13:20; 20:13;79:14;115:20 <b>usable (1)</b> 17:2 <b>use (25)</b> 6:5;24:20,23;28:4,10; 29:13,23;30:19;33:5; 48:2,17;50:14;55:9; 90:23;96:5;99:3;100:18, 19;105:19;121:15; 123:20;130:14;134:8; 141:14;149:5 <b>used (11)</b> 37:5;68:20;99:9; 115:9;117:13;129:12, 23;131:14;140:14; 151:19;152:3 <b>user (3)</b> 100:4,5;150:1 <b>users (11)</b> 29:14;37:3;129:13,17, 20;130:5,6,8;142:16,17, 20 <b>uses (2)</b> 100:6;106:8 <b>using (17)</b> 38:8;42:24;54:14; 89:3;94:21;96:8;99:19, 21;102:17;104:4,6; 107:3;111:24;118:2,7; 147:17;148:9 <b>usually (1)</b> 10:24 <b>utility (2)</b> 50:24;113:12 <b>utilization (2)</b> 37:24;38:3 <b>utilize (2)</b> 33:21;34:10 <b>utilized (1)</b> 44:5  <b>V</b>  <b>vacuum (1)</b> 107:11 <b>Valley (2)</b> 54:23;59:1 <b>valuable (1)</b> 27:17 <b>value (3)</b> 28:20;38:17;90:5 <b>variety (1)</b> 46:19 <b>various (6)</b> 72:24;79:7,22;82:10;	128:16;134:22 <b>varying (1)</b> 118:7 <b>vendor (1)</b> 41:16 <b>vendors (3)</b> 41:18;105:11;110:23 <b>veneer (1)</b> 35:15 <b>verification (4)</b> 128:14;134:18; 136:18;155:23 <b>verifies (1)</b> 144:3 <b>Vermont (1)</b> 137:5 <b>versions (1)</b> 87:16 <b>versus (1)</b> 137:14 <b>via (1)</b> 150:22 <b>viability (1)</b> 107:23 <b>viable (2)</b> 8:23;131:16 <b>vibrations (1)</b> 14:4 <b>view (3)</b> 96:9;100:13;145:16 <b>violates (1)</b> 133:9 <b>violation (3)</b> 36:12;133:14,17 <b>visible (2)</b> 147:19;148:11 <b>vision (1)</b> 73:2 <b>visit (1)</b> 145:18 <b>vital (1)</b> 48:17 <b>void (1)</b> 151:13 <b>volume (2)</b> 99:22;128:16 <b>volumes (1)</b> 134:21 <b>voluntary (2)</b> 138:9;155:9  <b>VP (1)</b> 65:24  <b>W</b>  <b>wait (4)</b> 43:8;92:23;93:23; 157:16 <b>walk (4)</b> 9:14;23:3;53:5;158:1 <b>wall (1)</b> 132:9 <b>wants (1)</b>
---	--	--	--	---

<p>131:21 <b>waste (5)</b> 34:15;90:3;120:3; 154:5,21 <b>wasted (1)</b> 121:1 <b>wastewater (5)</b> 58:11,15,21;59:8,11 <b>water (9)</b> 9:5;111:22;120:3,11, 22;121:6,8;122:24; 148:7 <b>water-quenching (1)</b> 112:7 <b>wave (1)</b> 103:21 <b>way (21)</b> 7:8;14:5;21:11;48:5; 49:3,23;51:2;58:5; 64:10;66:19;68:24; 69:12;70:24;76:7;90:3; 91:13;102:9;104:5; 129:6;132:15;151:22 <b>ways (6)</b> 11:4;72:24;73:1,10, 12;117:22 <b>weather (2)</b> 44:7;71:16 <b>Wednesday (1)</b> 80:2 <b>weed (1)</b> 131:22 <b>week (2)</b> 54:19;141:6 <b>weekly (1)</b> 54:2 <b>weeks (1)</b> 84:1 <b>week's (4)</b> 55:21;56:21;57:4; 140:21 <b>weigh (1)</b> 155:6 <b>Welcome (1)</b> 144:6 <b>well-being (1)</b> 123:22 <b>wells (5)</b> 14:11,13;16:18,20,24 <b>weren't (5)</b> 23:15;50:13;91:21; 101:16;129:16 <b>what's (9)</b> 17:19;59:13,22;70:19; 91:4;94:7,9;117:23; 148:9 <b>whenever (1)</b> 28:3 <b>whereas (1)</b> 59:18 <b>whereby (1)</b> 120:23 <b>Whereupon (2)</b></p>	<p>75:10;158:23 <b>whoever's (1)</b> 87:24 <b>whole (5)</b> 83:16;90:1;91:7; 110:10;138:1 <b>whomever (1)</b> 129:15 <b>who's (1)</b> 70:13 <b>Wilcox (5)</b> 62:5;70:16;75:19; 144:21;146:7 <b>wild (1)</b> 109:21 <b>willing (4)</b> 27:14;28:12,21;155:1 <b>willingness (3)</b> 27:20;28:9;97:9 <b>Wind (1)</b> 91:13 <b>wish (3)</b> 64:7;75:18,20 <b>within (11)</b> 7:24;48:15;56:1;70:2; 84:1;86:20;99:22; 118:15;129:11;137:23; 146:16 <b>without (8)</b> 11:18;14:2;27:4;43:7; 114:16;116:2;140:6; 142:10 <b>Witness (3)</b> 20:6;105:8;114:1 <b>wood (139)</b> 30:5,9,13,15,16,24; 31:12,15,21,24;32:18; 33:4,21;34:4,19,20;36:8, 16;37:2,11;38:21;39:22; 40:8,11,11,17;41:9; 42:10,16;43:14,14,18, 20,20,24;45:7,11;46:5,9; 47:19,24;48:1,15;50:1,9; 51:13,14;52:22;68:12; 73:24;78:10;90:3;95:1, 12;96:8,17,22;99:11,19; 100:14,21,23;101:8; 102:2,2,18;103:5,6; 104:1,7,15;105:11,20; 106:7,10;107:22;108:2, 10,11,24;109:19,21; 110:4;111:9,14;116:19, 21;127:10,14,16,17; 128:15;129:8,10,12,15, 17,20,22;130:1,19,21; 133:2;134:8,8,15;136:7, 12;137:2,11,15;143:2, 19;144:4;148:24;149:6, 7,7,17,19,21;150:3,6,17, 22;151:1,3,4,10,22; 152:6;153:10,15,16; 154:6,21,23;156:5;157:4 <b>woods (9)</b></p>	<p>34:12;49:21;102:8; 152:12,17;154:6,14,15, 21 <b>word (1)</b> 72:6 <b>words (5)</b> 6:12;9:13;28:2;68:20; 111:17 <b>work (30)</b> 11:23;12:7;15:9;29:6; 30:14;38:10;48:5;51:7; 52:18;53:1;71:8;73:23; 86:3;90:3;102:11;104:1, 20;105:15;112:24; 113:4,21;118:16;119:9; 120:23;121:9;123:1; 134:4;143:5;144:24; 146:2 <b>worked (4)</b> 41:20,22;48:7;124:16 <b>working (7)</b> 39:11;86:1;93:6; 96:15;124:7,11;152:10 <b>works (4)</b> 21:13;53:6;66:1; 141:22 <b>worldwide (1)</b> 131:18 <b>worth (5)</b> 38:16;55:21;56:21; 57:4;141:16 <b>Wright (4)</b> 144:10,12;147:9; 148:17 <b>writing's (1)</b> 132:8 <b>written (10)</b> 52:6;76:9,21;78:19; 79:5,15;82:7,9,13;143:5 <b>wrong (4)</b> 66:19;83:3;112:6; 134:11</p>	<p>157:1 <b>years (12)</b> 39:19;86:16,18; 111:23;112:2;118:22; 131:11,12,13,13;143:20; 144:1 <b>York (6)</b> 49:2;50:16;129:24; 150:20,20;151:11</p>
			<b>Z</b>
			<b>zero (1)</b> 27:2
			<b>X</b>
			<b>X-amount (2)</b> 100:19,20
			<b>Y</b>
			<b>Yard (14)</b> 17:10;26:2,3,6,7,9,13, 14;57:19;58:1,4,6,10,24 <b>yards (1)</b> 43:22 <b>Yard's (1)</b> 58:20 <b>year (18)</b> 19:7;37:19;44:5; 67:22;73:6;86:21;94:10; 100:7;107:2;108:5,6; 124:7;125:18;130:15; 147:18;150:11;151:15;